

Wisconsin Native Tree and Shrub Guide by County – Instructions

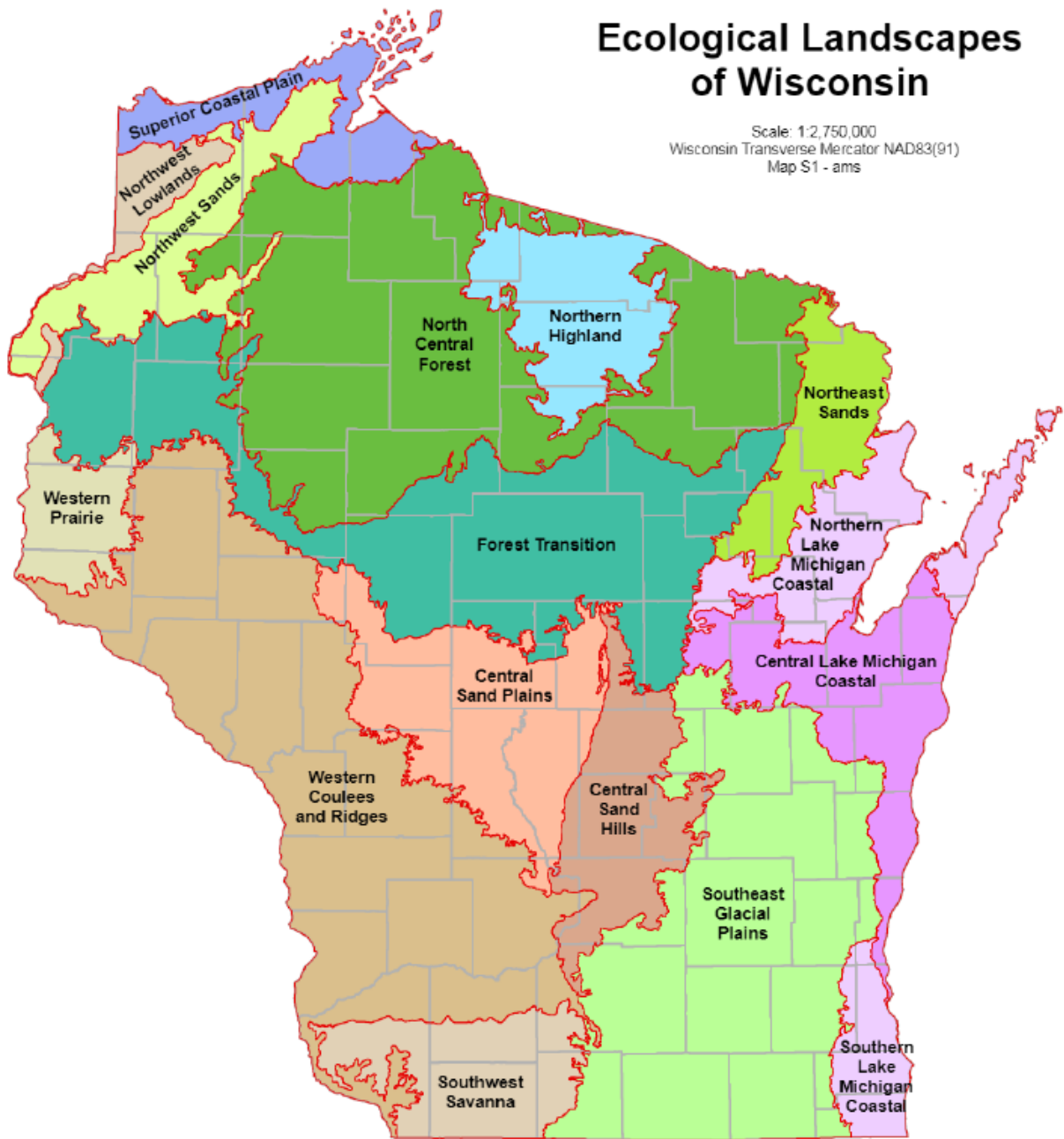
Several pieces of information are required to use this guide. The first column of the guide is the **Major Land Resource Area (MLRA)** and the **WI Department of Natural Resources (DNR) Ecological Landscapes**. The DNR Ecological Landscapes can be found in Conservation Desktop to help plan the project. The MLRA map is in the Field Office Technical Guide in Section 2. The maps are also included below for general reference.

Major Land Resource Area Map





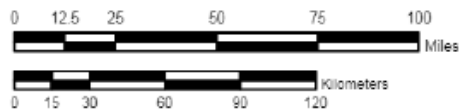
Ecological Landscapes of Wisconsin

Scale: 1:2,750,000
 Wisconsin Transverse Mercator NAD83(91)
 Map S1 - ams



Wisconsin was divided into 16 ecoregions with similar ecology and management opportunities. Each of these ecoregions is called an ecological landscape. The ecological landscapes are based on the National Hierarchical Framework of Ecological Units (NHFEU; Cleland et al. 1997). There were too many NHFEU Subsections and too few NHFEU Sections to be useful for management purposes. Ecological landscapes use the same boundaries as NHFEU Sections or Subsections. However, some NHFEU Subsections were combined to reduce the number of geographical units in the state to a manageable number. Therefore, ecological landscapes are at a size (scale) between NHFEU Sections and Subsections.

 Ecological Landscapes
 County Boundaries



The next column refers to **soil drainage class**. There are three ways to obtain this information.

Option 1 - Wisconsin Soil Data Mart/Map Unit Description (Brief, Generated) by Soil Survey Area and Major Component: <https://www.nrcs.usda.gov/resources/wi-soil-data-mart>. Select state, county, and soil type.

← → ↻ 🏠 nrcs.usda.gov/publications/Map%20Unit%20Description%20%28Brief%2C%20Generated%29%20Query%20by%20Soil%20Survey%20Area%20%28Major%20Components%29.html ☆ 📄 🔄 ⋮

Map Unit Description (Brief, Generated)

An SDA-populated select list is used to pick a state, SSA and map unit. Select mapunit and aggregated data values are displayed for the mapunit components "Map Unit Description (Brief, Generated)" based upon those selections. The data is not static; it hits Soil Data Access Live. [For more information about the table.](#)

Wisconsin ▾
selected stateId = WI

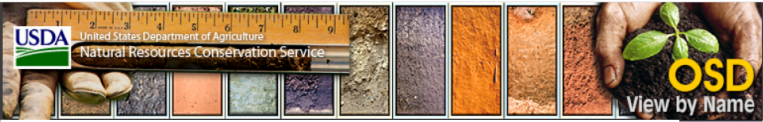
Price County, Wisconsin ▾
selected SSA areasymbol = WI099

Antigo silt loam, 6 to 15 percent slopes ▾

muname	compname	compct_r	text	cokey
Antigo silt loam, 6 to 15 percent slopes	Antigo	85	The Antigo component makes up 85 percent of the map unit. Slopes are 6 to 15 percent. This component is on hillslopes on outwash plains. The parent material consists of loess and/or silty glaciofluvial deposits over loamy glaciofluvial deposits over stratified sandy and gravelly outwash. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. This component is in the F090AY016WI Loamy Upland ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.	22905375
Antigo silt loam, 6 to 15 percent slopes	Sconsin	5	Generated brief soil descriptions are created for major soil components. The Sconsin soil is a minor component.	22905373
Antigo silt loam, 6 to 15 percent slopes	Rosholt	5	Generated brief soil descriptions are created for major soil components. The Rosholt soil is a minor component.	22905377
Antigo silt loam, 6 to 15 percent slopes	Chetek	3	Generated brief soil descriptions are created for major soil components. The Chetek soil is a minor component.	22905374
Antigo silt loam, 6 to 15 percent slopes	Ossmer	2	Generated brief soil descriptions are created for major soil components. The Ossmer soil is a minor component.	22905376

Option 2 – Go to Official Series Description (OSD): <https://soilseries.sc.egov.usda.gov/osdname.aspx>. Input soil name and click “Submit”.

www.usda.gov/osdname.aspx



Sign up for E-mail updates on the Official Soil Series Descriptions (OSDs) Contact Us

DIRECTIONS

The following entry field may be used to retrieve an Official Soil Series Description and/or a Series Extent Map. If you enter a series name that is found in the database, the Official Soil Series Description will be displayed with a link to the Series Extent Map at the end. If you enter a series name that is not found, the best-matched series names will be displayed with links to the Official Soil Series Description and Series Extent Map. You may also retrieve a list of soil series names that match a partial name you enter using wildcard characters with links to the Official Soil Series Description and Series Extent Map. Click [here](#) to see the possible wildcard characters.

Enter the Official Soil Series Description name you would like to view or a partial name with wildcard characters. Capitalization does not matter.

vilas

REPORT

Series Classification	OSD Link	Series Extent Map Link
VILAS (SANDY, ISOTIC, FRIGID ENTIC HAPLORHODS)	View VILAS Description	View VILAS Extent Map

A new window appears with detailed soil information, including drainage class.

Official Series Description - VILAS Series - Google Chrome
soilseries.sc.egov.usda.gov/OSD_Docs/V/VILAS.html

LOCATION VILAS WI+MI

Established Series
HFG-MJM-LMC
12/2006

VILAS SERIES

The Vilas series consists of very deep, **excessively drained soils** formed in sandy deposits on outwash plains, outwash terraces, and outwash areas on moraines. Permeability is rapid. Slopes range from 0 to 55 percent. Mean annual precipitation is about 30 inches. Mean annual air temperature is about 41 degrees F.

TAXONOMIC CLASS: Sandy, isotic, frigid Entic Haplorthods

TYPICAL PEDON: Vilas loamy sand - on a plain 2 percent northeast-facing slope in a forested area at an elevation of about 1325 feet. (Colors are for moist soil unless otherwise stated.)

A--0 to 2 inches; black (7.5YR 2.5/1) loamy sand, very dark brown (7.5YR 2.5/2) dry; weak fine granular structure; very friable; about 1 percent gravel; strongly acid; abrupt smooth boundary. (0 to 4 inches thick)

E--2 to 4 inches; brown (7.5YR 4/2) loamy sand, brown (7.5YR 5/2) dry; weak very fine subangular blocky structure; very friable; about 1 percent gravel; strongly acid; abrupt smooth boundary. (0 to 5 inches thick)

Bs1--4 to 11 inches; reddish brown (5YR 4/4) loamy sand; weak fine subangular blocky structure; very friable; about 1 percent gravel; moderately acid; clear smooth boundary.

Bs2--11 to 18 inches; yellowish red (5YR 4/6) sand; single grain; loose; about 1 percent gravel; moderately acid; clear wavy boundary.

Bs3--18 to 23 inches; brown (7.5YR 4/4) sand; single grain; loose; about 1 percent gravel; moderately acid; gradual wavy boundary. (Combined thickness of the Bs horizons is 6 to 30 inches)

BC--23 to 32 inches; brown (7.5YR 5/4) sand; single grain; loose; about 1 percent gravel; slightly acid; gradual wavy boundary. (0 to 15 inches thick)

C--32 to 80 inches; brown (7.5YR 5/3) sand; single grain; loose; about 1 percent gravel; slightly acid.

TYPE LOCATION: Sawyer County, Wisconsin; about 6 miles northeast of Hayward; 130 feet south and 2,475 feet east of the northwest corner of Sec. 30, T. 42 N., R. 8 W.; USGS Hayward topographic quadrangle; lat. 46 degrees 05 minutes 57 seconds N., and long. 91 degrees 25 minutes 00 seconds W., NAD 27.

Option 3 – Go to Web Soil Survey, create the area of interest (AOI), and click on the Soil Data Explorer tab. Then click on the Soil Reports sub-tab. In the menu on the left side, expand the AOI Inventory option. Select Map Unit Description and click on View Soil Report. The soils will appear in the window, and drainage class is under the Properties and Qualities section of each soil type.

← → ↻ 🏠 🌐 websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

Soil Chemical Properties	?
Soil Erosion	?
Soil Health	?
Soil Physical Properties	?
Soil Qualities and Features	?
Vegetative Productivity	?
Waste Management	?
Water Features	?
Water Management	?
Wildlife Management	?

161D2—Fivepoints silt loam, 12 to 20 percent slopes, moderately eroded

Map Unit Setting
National map unit symbol: 2xmbf
Elevation: 800 to 1,400 feet
Mean annual precipitation: 31 to 39 inches
Mean annual air temperature: 41 to 50 degrees F
Frost-free period: 120 to 190 days
Farmland classification: Not prime farmland

Map Unit Composition
Fivepoints and similar soils: 95 percent
Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Fivepoints

Setting
Landform: Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Interfluvium
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Loess over brown clayey pediment over loamy residuum weathered from dolomite

Typical profile
Ap - 0 to 8 inches: silt loam
Bt1 - 8 to 10 inches: silty clay loam
2Bt2 - 10 to 19 inches: clay
3Bt3 - 19 to 35 inches: very channery loam
3Rt - 35 to 79 inches: bedrock

Properties and qualities
Slopes: 12 to 20 percent
Depth to restrictive feature: 10 to 55 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Interpretive groups
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e

The next column in the table provides some general beneficial **uses** of the species. This list is not all-inclusive and is meant to provide a starting point for further research.

The final column before the species recommendation is **exposure**. This refers to the amount of sunlight present on the site. Planting sites like fields and clearcut areas would be considered open. Sites with partial tree cover, like a shelterwood silvicultural system or gaps within a forest, would be considered partial shade. Fully stocked forested sites would be considered shade. There is professional forestry judgement required, taking future management actions into account, to determine exposure in some situations.

The **Recommended Species** column provides options for planting to fit the parameters determined in the previous columns. These options are those species most commonly present in the selected conditions. The list is not all inclusive, and requests for species not on the list can be submitted to the area office for NRCS state forester approval.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
Wisconsin Native Tree Guide
Adams County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
89 Central Sand Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Black Oak
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Eastern Hemlock
	W-MW	Fence Posts, Tool Handles, Upland Wildlife Habitat	Partial Shade, Shade	Red Mulberry
	W-SP	Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade	River Birch
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat	Open	River Birch
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Riparian Wildlife Habitat	Open	Peachleaf Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Central Sand Hills	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Black Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Fence Posts, Tool Handles, Upland Wildlife Habitat	Partial Shade, Shade	Red Mulberry
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
SP-P	Riparian Wildlife Habitat	Open	River Birch	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Riparian Wildlife Habitat	Open	Peachleaf Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide
Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*.

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Wisconsin Native Shrub Guide

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Adams County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crabapple (<i>Malus ioensis</i>) ^P
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W	Browse and Cover, Height-1', Forms Mats, Lake Dunes and Sandy Soils	Open	Creeping Juniper (<i>Juniperus horizontalis</i>)
W-MW	Browse and Fruit, Height-8', Forms Thickets, Savanna	Open	Flameleaf Sumac (<i>Rhus copallinum</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P *Shrub that is suitable for pollinator planting.*

⁴*Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. americanum” as part of the Latin name and would not be called *Viburnum trilobum*.*

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Ashland County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
92 Superior Coastal Plain	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Eastern Hemlock
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
93B & 90A North Central Forest	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar	
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
P-VP	Forest Products, Riparian Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium</i> sp.) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus</i> sp.) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier</i> sp.) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*.

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Ashland County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse, Fruit and Cover, Height-6', Forests	Open	Russet Buffalo Berry (<i>Shepherdia canadensis</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse and Cover, Height-10', Forms Thickets, Forests	Open-Partial Shade	Mountain Alder (<i>Alnus viridis</i> subsp. <i>crispa</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Cover, Fruit, Height 3-6', Forest Edges and Gaps	Open-Partial Shade	Thimbleberry (<i>Rubus parviflorus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*.

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

**Wisconsin Native Tree Guide
Barron County**

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A & 90B Forest Transition and 105 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide
Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium</i> sp.) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus</i> sp.) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier</i> sp.) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Barron County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Cover, Fruit, Height 3-6', Forest Edges and Gaps	Open-Partial Shade	Thimbleberry (<i>Rubus parviflorus</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide
Bayfield County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
92 Superior Coastal Plain	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Eastern Hemlock
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A North Central Forest	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar	
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Riparian Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
91B Northwest Sands	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
MW-SP	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar	
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Shrub Guide Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium</i> sp.) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus</i> sp.) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier</i> sp.) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Bayfield County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse, Fruit and Cover, Height-6', Forests	Open	Russet Buffalo Berry (<i>Shepherdia canadensis</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse and Cover, Height-10', Forms Thickets, Forests	Open-Partial Shade	Mountain Alder (<i>Alnus viridis</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Cover, Fruit, Height 3-6', Forest Edges and Gaps	Open-Partial Shade	Thimbleberry (<i>Rubus parviflorus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
Wisconsin Native Tree Guide - Brown County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95A Central Lake Michigan Coastal	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat,	Open	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis Marshall</i>) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4.P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Brown County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse, Fruit and Cover, Height-6', Forests	Open	Russet Buffalo Berry (<i>Shepherdia canadensis</i>)
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Browse and Fruit, Height-8', Forms Thickets, Savanna	Open	Flameleaf Sumac (<i>Rhus copallinum</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Buffalo County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
105 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Buffalo County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Burnett County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A Forest Transition	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
91B Northwest Sands	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Burnett County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
W-MW	Browse and Cover, Height-10', Forms Thickets, Forests	Open-Partial Shade	Mountain Alder (<i>Alnus viridis</i>)
MW-SP	Fruit and Cover, Height-15', Forms Thickets, Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
WISCONSIN NATIVE TREE GUIDE
Calumet County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95A North Lake Michigan Coastal	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat,	Open	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Southeast Glacial Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian and Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Calumet County
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis Marshall</i>) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus var. americanum</i>) ^{4.P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum subsp. obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus var. opulus* – note that it does not have the “var. americanum” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Calumet County**

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Calumet County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Cover and Fruit, Height-20, Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide - Chippewa County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A North Central Forest & 90B Forest Transition & 105 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
SP-P	Riparian Wildlife Habitat,	Open	River Birch	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P *Shrub that is suitable for pollinator planting.*

⁴*Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. americanum” as part of the Latin name and would not be called *Viburnum trilobum**

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Chippewa County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
Wisconsin Native Tree Guide - Clark County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90B Forest Transition	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
89 Central Sand Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Eastern Hemlock
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
105 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	P-VP	Riparian Wildlife Habitat	Open	Black Willow
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium</i> sp.) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus</i> sp.) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier</i> sp.) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Clark County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

Columbia County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Southeast Glacial Plains Central Sand Hills	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
SP-VP	Riparian/Flood Plain Wildlife Habitat	Open	American Sycamore	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide
Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium</i> sp.) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus</i> sp.) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier</i> sp.) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Columbia County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover and Fruit, Height-20, Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover, Height, Height-1-6', Forms Thickets, Forests and Savannas	Open-Partial Shade	Fragrant Sumac (<i>Rhus aromatica</i>) ^P
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W	Browse and Cover, Height-1', Forms Mats, Lake Dunes and Sandy Soils	Open	Creeping Juniper (<i>Juniperus horizontalis</i>)
W-MW	Browse and Fruit, Height-8', Forms Thickets, Savanna	Open	Flameleaf Sumac (<i>Rhus copallinum</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Crawford County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
105 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
	SP-VP	Riparian/Flood Plain Wildlife Habitat	Open	American Sycamore
	P-VP	Riparian Wildlife Habitat	Open	Black Willow
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P *Shrub that is suitable for pollinator planting.*

⁴ *Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum**

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Crawford County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover and Fruit, Height-20, Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
W-MW	Flowers and Cover, Height-4', Grasslands and Forests	Open	Shrubby St. Johns-wort (<i>Hypericum prolificum</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Dane County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Southeast Glacial Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian and Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
SP-P	Riparian Wildlife Habitat,	Open	River Birch	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
105 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide
Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis Marshall</i>) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus var. americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum subsp. obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus var. opulus* – note that it does not have the “var. americanum” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Dane County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover and Fruit, Height-20, Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
E-W	Cover, Height, Height-1-6', Forms Thickets, Forests and Savannas	Open-Partial Shade	Fragrant Sumac (<i>Rhus aromatica</i>) ^P
W	Browse and Cover, Height-1', Forms Mats, Lake Dunes and Sandy Soils	Open	Creeping Juniper (<i>Juniperus horizontalis</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
W-MW	Cover, Flowers, and Fruit, Forests	Open-Partial Shade	Black-haw Viburnum (<i>Viburnum prunifolium</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Dodge County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Southeast Glacial Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian and Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	P-VP	Riparian Wildlife Habitat	Open	Black Willow
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Dodge County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
Wisconsin Native Tree Guide
Door County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95A Northern Lake Michigan Coastal	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat,	Open	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis Marshall</i>) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus var. americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum subsp. obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P *Shrub that is suitable for pollinator planting.*

⁴ *Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus var. opulus* – note that it does not have the “var. americanum” as part of the Latin name and would not be called *Viburnum trilobum**

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Door County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse, Fruit and Cover, Height-6', Forests	Open	Russet Buffalo Berry (<i>Shepherdia canadensis</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
E-W	Cover, Height, Height-1-6', Forms Thickets, Forests and Savannas	Open-Partial Shade	Fragrant Sumac (<i>Rhus aromatica</i>) ^P
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Cover, Fruit, Height 3-6', Forest Edges and Gaps	Open-Partial Shade	Thimbleberry (<i>Rubus parviflorus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Wisconsin Native Tree Guide Douglas County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A Northwest Lowlands North Central Forest	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
92 Superior Coastal Plain	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Eastern Hemlock
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
91B Northwest Sands	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Douglas County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse, Fruit and Cover, Height-6', Forests	Open	Russet Buffalo Berry (<i>Shepherdia canadensis</i>)
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse and Cover, Height-10', Forms Thickets, Forests	Open-Partial Shade	Mountain Alder (<i>Alnus viridis</i>)
W-MW	Cover, Height-6', Attractive Flowers, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Cover, Fruit, Height 3-6', Forest Edges and Gaps	Open-Partial Shade	Thimbleberry (<i>Rubus parviflorus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Dunn County**

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90B Western Prairie	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
104 & 105 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Dunn County

Drainage Class	Uses	Exposure	Species Recommended
E	Wildlife Browse and Cover, Windbreak/Shelterbelt Height-2'	Partial Shade-Sun	Sweet Fern (<i>Comptonia peregrina</i>)
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
W-MW	Wildlife Cover, Forests	Shade Tolerant	Eastern Wahoo (<i>Euanymus atropurpurea</i>) ^P
W-MW	Cover, Height-6', Attractive Flowers, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Windbreak/Shelterbelt Height-12', Wildlife Seed and Cover	Full Sun	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-P	Wetland Wildlife Habitat	Partial Shade-Sun	American Bladdernut (<i>Staphylea trifolia</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P *Shrub that is suitable for pollinator planting.*

⁴*Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. americanum” as part of the Latin name and would not be called *Viburnum trilobum**

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

Eau Claire County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
89 Central Sand Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Black Oak
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Eastern Hemlock
	W-MW	Fence Posts, Tool Handles, Upland Wildlife Habitat	Partial Shade, Shade	Red Mulberry
	W-SP	Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade	River Birch
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Riparian Wildlife Habitat	Open	Peachleaf Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90B Forest Transition	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
105 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide
Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis Marshall</i>) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus var. americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum subsp. obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus var. opulus* – note that it does not have the “var. americanum” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Eau Claire County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Cover, Height, Height-1-6', Forms Thickets, Forests and Savannas	Open-Partial Shade	Fragrant Sumac (<i>Rhus aromatica</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Florence County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A North Central Forest	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Riparian Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
94B Northeast Sands	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Florence County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse and Cover, Height-10', Forms Thickets, Forests	Open-Partial Shade	Mountain Alder (<i>Alnus viridis</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Cover, Fruit, Height 3-6', Forest Edges and Gaps	Open-Partial Shade	Thimbleberry (<i>Rubus parviflorus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Fond du Lac County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Southeast Glacial Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian and Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis Marshall</i>) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus var. americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum subsp. obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus var. opulus* – note that it does not have the “var. americanum” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Fond du Lac County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Cover and Fruit, Height-20, Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Forest County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A North Central Forest	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar	
MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar	
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Riparian Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis Marshall</i>) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus var. americanum</i>) ^{4.P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum subsp. obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus var. opulus* – note that it does not have the “var. americanum” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Forest County

Drainage Class	Uses	Exposure	Species Recommended
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Cover, Fruit, Height 3-6', Forest Edges and Gaps	Open-Partial Shade	Thimbleberry (<i>Rubus parviflorus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

**Wisconsin Native Tree Guide
Grant County**

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
105 Western Coulees and Ridges Southwest Savanna	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
	SP-VP	Riparian/Flood Plain Wildlife Habitat	Open	American Sycamore
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

July 2023

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Grant County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
E-W	Cover, Height, Height-1-6', Forms Thickets, Forests and Savannas	Open-Partial Shade	Fragrant Sumac (<i>Rhus aromatica</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
Wisconsin Native Tree Guide - Green Lake County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Southeast Glacial Plains - Central Sand Hills	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Black Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood	
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Shrub Guide Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium</i> sp.) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus</i> sp.) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier</i> sp.) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Green Lake County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover, Height, Height-1-6', Forms Thickets, Forests and Savannas	Open-Partial Shade	Fragrant Sumac (<i>Rhus aromatica</i>) ^P
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W-MW	Browse and Fruit, Height-8', Forms Thickets, Savanna	Open	Flameleaf Sumac (<i>Rhus copallinum</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Green County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Southeast Glacial Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
SP-VP	Riparian/Flood Plain Wildlife Habitat	Open	American Sycamore	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
105 Southwest Savanna	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
Wisconsin Native Shrub Guide
Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Green County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
Wisconsin Native Tree Guide - Iowa County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
105 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
	SP-VP	Riparian/Flood Plain Wildlife Habitat	Open	American Sycamore
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Shrub Guide

Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium</i> sp.) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatelyleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus</i> sp.) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier</i> sp.) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Iowa County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
W-MW	Browse and Fruit, Height-8', Forms Thickets, Savanna	Open	Flameleaf Sumac (<i>Rhus copallinum</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Iron County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
93B & 90A North Central Forest	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar	
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Riparian Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
94D Northern Highland	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
MW-SP	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar	
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Shrub Guide Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium</i> sp.) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus</i> sp.) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier</i> sp.) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Iron County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse, Fruit and Cover, Height-6', Forests	Open	Russet Buffalo Berry (<i>Shepherdia canadensis</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Cover, Fruit, Height 3-6', Forest Edges and Gaps	Open-Partial Shade	Thimbleberry (<i>Rubus parviflorus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

Jackson County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
89 Central Sand Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Black Maple
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
SP-P	Riparian Wildlife Habitat,	Open	River Birch	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
105 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood	
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
SP-P	Riparian Wildlife Habitat,	Open	River Birch	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Shrub Guide

Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium</i> sp.) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus</i> sp.) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier</i> sp.) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

July 2023

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Jackson County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Browse and Fruit, Height-8', Forms Thickets, Savanna	Open	Flameleaf Sumac (<i>Rhus copallinum</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Tree Guide
Jefferson County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Southeast Glacial Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian and Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
SP-VP	Riparian/Flood Plain Wildlife Habitat	Open	American Sycamore	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Shrub Guide Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium</i> sp.) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus</i> sp.) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier</i> sp.) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

July 2023

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Jefferson County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover and Fruit, Height-20, Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE

1 APPENDIX A

Wisconsin Native Tree Guide
Juneau County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
89 Central Sand Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Eastern Hemlock
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
SP-P	Riparian Wildlife Habitat	Open	Silver Maple	
SP-P	Riparian Wildlife Habitat,	Open	River Birch	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
105 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood	
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
SP-P	Riparian Wildlife Habitat,	Open	River Birch	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide
Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium</i> sp.) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus</i> sp.) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier</i> sp.) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

July 2023

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Juneau County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse and Cover, Height-10', Forms Thickets, Forests	Open-Partial Shade	Mountain Alder (<i>Alnus viridis</i>)
W-MW	Flowers and Cover, Height-4', Grasslands and Forests	Open	Shrubby St. Johns-wort (<i>Hypericum prolificum</i>) ^P
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Browse and Fruit, Height-8', Forms Thickets, Savanna	Open	Flameleaf Sumac (<i>Rhus copallinum</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

Kenosha County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Southeast Glacial Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian and Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
SP-VP	Riparian/Flood Plain Wildlife Habitat	Open	American Sycamore	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
110 Southern Lake Michigan Coastal	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
SP-VP	Riparian/Flood Plain Wildlife Habitat	Open	American Sycamore	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Riparian Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Shrub Guide Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium</i> sp.) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus</i> sp.) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier</i> sp.) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4.P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

July 2023

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Kenosha County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover and Fruit, Height-20, Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
W-MW	Cover, Flowers, and Fruit, Forests	Open-Partial Shade	Black-haw Viburnum (<i>Viburnum prunifolium</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Tree Guide - Kewaunee County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95A Central Lake Michigan Coastal Northern Lake Michigan Coastal	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat,	Open	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide

Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Kewaunee County

Drainage Class	Uses	Exposure	Species Recommended
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Cover, Fruit, Height 3-6', Forest Edges and Gaps	Open-Partial Shade	Thimbleberry (<i>Rubus parviflorus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide La Crosse County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
105 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Shrub Guide

Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium</i> sp.) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus</i> sp.) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier</i> sp.) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

July 2023

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in La Crosse County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W-MW	Browse and Cover, Height-10', Forms Thickets, Forests	Open-Partial Shade	Mountain Alder (<i>Alnus viridis</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

Lafayette County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
105 Southwest Savanna	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
SP-P	Riparian Wildlife Habitat,	Open	River Birch	
SP-VP	Riparian/Flood Plain Wildlife Habitat	Open	American Sycamore	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium</i> sp.) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus</i> sp.) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier</i> sp.) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

July 2023

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Lafayette County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
W-MW	Flowers and Cover, Height-4', Grasslands and Forests	Open	Shrubby St. Johns-wort (<i>Hypericum prolificum</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

Langlade County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90B Forest Transition	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A North Central Forest	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
P-VP	Forest Products, Riparian Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Shrub Guide

Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Langlade County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

Lincoln County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90B Forest Transition	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A North Central Forest	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Riparian Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
94D Northern Highland	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium</i> sp.) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus</i> sp.) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier</i> sp.) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Lincoln County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse and Cover, Height-10', Forms Thickets, Forests	Open-Partial Shade	Mountain Alder (<i>Alnus viridis</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
W-MW	Cover, Fruit, Height 3-6', Forest Edges and Gaps	Open-Partial Shade	Thimbleberry (<i>Rubus parviflorus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
Wisconsin Native Tree Guide - Manitowoc County

Major Land Resource Area & WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95A Central Lake Michigan Coastal	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat,	Open	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Southeast Glacial Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat,	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian and Upland Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat,	Open, Partial Shade	Swamp White Oak
	SP-P	Forest Products, Riparian Wildlife Habitat	Open	Silver Maple
	P-VP	Riparian/Flood Plain Wildlife Habitat	Open	Black Willow
	P-VP	Forest Products, Riparian Wildlife Habitat	Open	Tamarack

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Manitowoc County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse, Fruit and Cover, Height-6', Forests	Open	Russet Buffalo Berry (<i>Shepherdia canadensis</i>)
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
W	Browse and Cover, Height-1', Forms Mats, Lake Dunes and Sandy Soils	Open	Creeping Juniper (<i>Juniperus horizontalis</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Cover, Fruit, Height 3-6', Forest Edges and Gaps	Open-Partial Shade	Thimbleberry (<i>Rubus parviflorus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Marathon County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A & 90B Forest Transition	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood	
MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar	
SP-P	Riparian Wildlife Habitat	Open	Silver Maple	
SP-P	Forest Products, Riparian Wildlife Habitat,	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Marathon County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Marinette County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A North Central Forest	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar	
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Riparian Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
94B Northeast Sands	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95A Northern Lake Michigan Coastal	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³	
MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce	
MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Elm ³	
MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Beech	
MW-SP	Riparian Wildlife Habitat,	Open	Hackberry	
MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	P-VP	Riparian Wildlife Habitat	Open	Black Willow
	P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack
	P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Marinette County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse, Fruit and Cover, Height-6', Forests	Open	Russet Buffalo Berry (<i>Shepherdia canadensis</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse and Cover, Height-10', Forms Thickets, Forests	Open-Partial Shade	Mountain Alder (<i>Alnus viridis</i>)
W-MW	Flowers and Cover, Height-4', Grasslands and Forests	Open	Shrubby St. Johns-wort (<i>Hypericum prolificum</i>) ^P
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Browse and Fruit, Height-8', Forms Thickets, Savanna	Open	Flameleaf Sumac (<i>Rhus copallinum</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
W-MW	Cover, Fruit, Height 3-6', Forest Edges and Gaps	Open-Partial Shade	Thimbleberry (<i>Rubus parviflorus</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
P-VP	Pollinators and fruit, Wetlands	Open-Partial Shade	Northern Wild-Raisin (<i>Viburnum cassinoides</i> , aka <i>Viburnum nudum</i> var. <i>cassinoides</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Marquette County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Central Sand Hills	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Eastern Hemlock
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
SP-P	Riparian Wildlife Habitat	Open	Silver Maple	
SP-P	Riparian Wildlife Habitat,	Open	River Birch	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide
Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Marquette County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover and Fruit, Height-20, Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse and Fruit, Height-8', Forms Thickets, Savanna	Open	Flameleaf Sumac (<i>Rhus copallinum</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

Menominee County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A Forest Transition	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
94B Northeast Sands	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar	
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Riparian Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis Marshall</i>) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus var. americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum subsp. obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus var. opulus* – note that it does not have the “var. americanum” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Menominee County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Milwaukee County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95A Central Lake Michigan Coastal	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian and Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
110 Southern Lake Michigan Coastal	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Riparian Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Milwaukee County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse, Fruit and Cover, Height-6', Forests	Open	Russet Buffalo Berry (<i>Shepherdia canadensis</i>)
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover and Fruit, Height-20, Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
E-W	Cover, Height, Height-1-6', Forms Thickets, Forests and Savannas	Open-Partial Shade	Fragrant Sumac (<i>Rhus aromatica</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Flowers and Cover, Height-4', Grasslands and Forests	Open	Shrubby St. Johns-wort (<i>Hypericum prolificum</i>) ^P
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
W-MW	Cover, Flowers, and Fruit, Forests	Open-Partial Shade	Black-haw Viburnum (<i>Viburnum prunifolium</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

Monroe County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
89 Central Sand Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Black Maple
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
SP-P	Riparian Wildlife Habitat,	Open	River Birch	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
105 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis Marshall</i>) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus var. americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum subsp. obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus var. opulus* – note that it does not have the “var. americanum” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Monroe County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
E-W	Cover and Fruit, Height-20, Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse and Fruit, Height-8', Forms Thickets, Savanna	Open	Flameleaf Sumac (<i>Rhus copallinum</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Oconto County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A North Central Forest	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar	
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Riparian Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
94B Northeast Sands	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95A Northern Lake Michigan Coastal	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Elm ³
MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Beech	
MW-SP	Riparian Wildlife Habitat,	Open	Hackberry	
MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple	
MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	P-VP	Riparian Wildlife Habitat	Open	Black Willow
	P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack
	P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide
Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Suitable for Planting in Oconto County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Cover, Fruit, Height 3-6', Forest Edges and Gaps	Open-Partial Shade	Thimbleberry (<i>Rubus parviflorus</i>) ^P
P-VP	Pollinators and fruit, Wetlands	Open-Partial Shade	Northern Wild-Raisin (<i>Viburnum cassinoides</i> , aka <i>Viburnum nudum</i> var. <i>cassinoides</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Oneida County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A North Central Forest	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Riparian Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
94D Northern Highland	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide
Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Oneida County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse and Cover, Height-10', Forms Thickets, Forests	Open-Partial Shade	Mountain Alder (<i>Alnus viridis</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Cover, Fruit, Height 3-6', Forest Edges and Gaps	Open-Partial Shade	Thimbleberry (<i>Rubus parviflorus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide - Outagamie County

Major Land Resource Area & Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95A Northern Lake Michigan Coastal & Central Lake Michigan Coastal	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat,	Open	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide
Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Outagamie County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Ozaukee County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B, 95A & 110 Southeast Glacial Plains, Central Lake Michigan Coastal & Southern Lake Michigan Coastal	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian and Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis Marshall</i>) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus var. americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum subsp. obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus var. opulus* – note that it does not have the “var. americanum” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Ozaukee County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse, Fruit and Cover, Height-6', Forests	Open	Russet Buffalo Berry (<i>Shepherdia canadensis</i>)
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Pepin County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
104 & 105 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium</i> sp.) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus</i> sp.) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier</i> sp.) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

July 2023

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Pepin County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
Wisconsin Native Tree Guide - Pierce County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90B Western Prairie	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
SP-P	Riparian Wildlife Habitat,	Open	River Birch	
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
104 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis Marshall</i>) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus var. americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum subsp. obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus var. opulus* – note that it does not have the “var. americanum” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Pierce County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

Polk County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A & B Forest Transition & Western Prairie	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
91B Northwest Sands	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis Marshall</i>) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus var. americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum subsp. obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus var. opulus* – note that it does not have the “var. americanum” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Polk County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
Wisconsin Native Tree Guide - Portage County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A & B Forest Transition	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
89 Central Sand Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Eastern Hemlock
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Central Sand Hills	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Eastern Hemlock
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis Marshall</i>) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus var. americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum subsp. obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus var. opulus* – note that it does not have the “var. americanum” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Portage County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover, Height, Height-1-6', Forms Thickets, Forests and Savannas	Open-Partial Shade	Fragrant Sumac (<i>Rhus aromatica</i>) ^P
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
W-MW	Cover, Height-6', Attractive Flowers, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

Price County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A North Central Forest	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ^{3,2}
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
94D Northern Highland	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Price County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
W-MW	Flowers and Cover, Height-4', Grasslands and Forests	Open	Shrubby St. Johns-wort (<i>Hypericum prolificum</i>) ^P
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Cover, Fruit, Height 3-6', Forest Edges and Gaps	Open-Partial Shade	Thimbleberry (<i>Rubus parviflorus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

Racine County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Southeast Glacial Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian and Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
SP-VP	Riparian/Flood Plain Wildlife Habitat	Open	American Sycamore	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
110 Southern Lake Michigan Coastal	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-VP	Riparian/Flood Plain Wildlife Habitat	Open	American Sycamore
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Riparian Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Racine County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse, Fruit and Cover, Height-6', Forests	Open	Russet Buffalo Berry (<i>Shepherdia canadensis</i>)
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
W-MW	Cover, Flowers, and Fruit, Forests	Open-Partial Shade	Black-haw Viburnum (<i>Viburnum prunifolium</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

Richland County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
105 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
	SP-VP	Riparian/Flood Plain Wildlife Habitat	Open	American Sycamore
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Richland County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover, Height, Height-1-6', Forms Thickets, Forests and Savannas	Open-Partial Shade	Fragrant Sumac (<i>Rhus aromatica</i>) ^P
W-MW	Flowers and Cover, Height-4', Grasslands and Forests	Open	Shrubby St. Johns-wort (<i>Hypericum prolificum</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

Rock County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Southeast Glacial Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian and Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-VP	Riparian/Flood Plain Wildlife Habitat	Open	American Sycamore
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Rock County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
E-W	Cover, Height, Height-1-6', Forms Thickets, Forests and Savannas	Open-Partial Shade	Fragrant Sumac (<i>Rhus aromatica</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
W-MW	Cover, Flowers, and Fruit, Forests	Open-Partial Shade	Black-haw Viburnum (<i>Viburnum prunifolium</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
Wisconsin Native Tree Guide
Rusk County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A North Central Forest	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ^{3,2}
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat,	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Rusk County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
Wisconsin Native Tree Guide - Sauk County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
89 Central Sand Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Black Maple
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
SP-P	Riparian Wildlife Habitat,	Open	River Birch	
SP-VP	Riparian/Flood Plain Wildlife Habitat	Open	American Sycamore	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
105 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
	SP-VP	Riparian/Flood Plain Wildlife Habitat	Open	American Sycamore
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Central Sand Hills	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Eastern Hemlock
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
SP-VP	Riparian/Flood Plain Wildlife Habitat	Open	American Sycamore	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Sauk County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover and Fruit, Height-20, Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
E-W	Cover, Height, Height-1-6', Forms Thickets, Forests and Savannas	Open-Partial Shade	Fragrant Sumac (<i>Rhus aromatica</i>) ^P
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W	Browse and Cover, Height-1', Forms Mats, Lake Dunes and Sandy Soils	Open	Creeping Juniper (<i>Juniperus horizontalis</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
W-MW	Browse and Fruit, Height-8', Forms Thickets, Savanna	Open	Flameleaf Sumac (<i>Rhus copallinum</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
Wisconsin Native Tree Guide
Sawyer County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A North Central Forest	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat,	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Sawyer County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse and Cover, Height-10', Forms Thickets, Forests	Open-Partial Shade	Mountain Alder (<i>Alnus viridis</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Cover, Fruit, Height 3-6', Forest Edges and Gaps	Open-Partial Shade	Thimbleberry (<i>Rubus parviflorus</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide - Shawano County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A Forest Transition	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat,	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
94B Northeast Sands	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95A Central Lake Michigan Coastal	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat,	Open	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNREcological Landscape	Drainage Class	Uses	Exposure	Species Recommended
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	P-VP	Riparian Wildlife Habitat	Open	Black Willow
	P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack
	P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide
Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Shawano County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
Wisconsin Native Tree Guide
Sheboygan County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95A Central Lake Michigan Coastal	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat,	Open	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar	
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	P-VP	Riparian Wildlife Habitat	Open	Black Willow
	P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack
	P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce
95B Southeast Glacial Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple	
MW-SP	Riparian and Upland Wildlife Habitat	Partial Shade, Shade	American Beech	
MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	P-VP	Riparian Wildlife Habitat	Open	Black Willow
	P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Sheboygan County

Drainage Class	Uses	Exposure	Species Recommended
E	Browse, Cover and Fruit, Height-7', Forms Thickets, Sand Barrens, Dry Prairie	Open	Fragrant Sumac (<i>Rhus aromatica</i>) ^P
E-W	Browse, Fruit and Cover, Height-6', Forests	Open	Russet Buffalo Berry (<i>Shepherdia canadensis</i>)
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
E-W	Cover, Height, Height-1-6', Forms Thickets, Forests and Savannas	Open-Partial Shade	Fragrant Sumac (<i>Rhus aromatica</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W	Browse and Cover, Height-1', Forms Mats, Lake Dunes and Sandy Soils	Open	Creeping Juniper (<i>Juniperus horizontalis</i>)
W-MW	Flowers and Cover, Height-4', Grasslands and Forests	Open	Shrubby St. Johns-wort (<i>Hypericum prolificum</i>) ^P
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

St. Croix County

Major Land Res. Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90B Western Prairie	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat,	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Wisconsin Native Shrub Guide
Statewide

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in St. Croix County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
Wisconsin Native Tree Guide
Taylor County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A & B North Central Forest & Forest Transition	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat,	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Taylor County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
W-MW	Cover, Fruit, Height 3-6', Forest Edges and Gaps	Open-Partial Shade	Thimbleberry (<i>Rubus parviflorus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

Trempealeau County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
105 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Trempealeau County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

Vernon County

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
105 Western Coulees and Ridges	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
SP-P	Riparian Wildlife Habitat,	Open	River Birch	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Vernon County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Vilas County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
93B North Central Forest	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
P-VP	Forest Products, Riparian Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
94D Northern Highland	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Vilas County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Mountain Alder (<i>Alnus viridis</i>)
W-MW	Browse and Cover, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Cover, Fruit, Height 3-6', Forest Edges and Gaps	Open-Partial Shade	Thimbleberry (<i>Rubus parviflorus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Walworth County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Southeast Glacial Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian and Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	SP-VP	Riparian/Flood Plain Wildlife Habitat	Open	American Sycamore
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis Marshall</i>) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus var. americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum subsp. obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus var. opulus* – note that it does not have the “var. americanum” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Walworth County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

Washburn County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A Forest Transition	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A North Central Forest	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
P-VP	Forest Products, Riparian Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
91B Northwest Sands	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Rock Elm ³
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternaleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Washburn County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse and Cover, Height-10', Forms Thickets, Forests	Open-Partial Shade	Mountain Alder (<i>Alnus viridis</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Washington County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Southeast Glacial Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian and Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	P-VP	Riparian Wildlife Habitat	Open	Black Willow
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Wisconsin Native Shrub Guide

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Washington County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P
P-VP	Pollinators and fruit, Wetlands	Open-Partial Shade	Northern Wild-Raisin (<i>Viburnum cassinoides</i> , aka <i>Viburnum nudum</i> var. <i>cassinoides</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Waukesha County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Southeast Glacial Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Firewood, Upland Wildlife Habitat (Best grown on alkaline limestone-based soils)	Open, Partial Shade	Chinkapin Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian and Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Wisconsin Native Shrub Guide

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Waukesha County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover and Fruit, Height-20, Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
MW-SP	Cover, Height-15', Forests	Open-Partial Shade	Bladdernut (<i>Staphylea trifolia</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P
SP-P	Browse and Cover, Height-10', Riparian Forests, Forms Thickets	Open-Partial Shade	Eastern Wahoo (<i>Euonymus atropurpureus</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P *Shrub that is suitable for pollinator planting.*

⁴*Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum**

WISCONSIN FORESTRY TECHNICAL NOTE 1

APPENDIX A

Wisconsin Native Tree Guide

Waupaca County

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90A Forest Transition	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ^{3,2}
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Central Sand Hills	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Eastern Hemlock
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
SP-P	Riparian Wildlife Habitat	Open	Silver Maple	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95A Central Lake Michigan Coastal	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat,	Open	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis Marshall</i>) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus var. americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum subsp. obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus var. opulus* – note that it does not have the “var. americanum” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Waupaca County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P
P-VP	Pollinators and fruit, Wetlands	Open-Partial Shade	Northern Wild-Raisin (<i>Viburnum cassinoides</i> , aka <i>Viburnum nudum</i> var. <i>cassinoides</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Tree Guide
Waushara County**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
89 Central Sand Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Eastern Hemlock
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area WDR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95A Southeast Glacial Plain	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
MW-SP	Forest Products, Riparian and Upland Wildlife Habitat	Open, Partial Shade	White Spruce	
MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Elm ³	
MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Partial Shade, Shade	American Beech	
MW-SP	Riparian Wildlife Habitat,	Open	Hackberry	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple
	P-VP	Riparian Wildlife Habitat	Open	Black Willow
	P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack
	P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce
95B Central Sand Hills	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹	
W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Eastern Hemlock
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack
	P-VP	Riparian Wildlife Habitat	Open	Black Willow

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Waushara County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Browse and Cover, Height-2', Grasslands	Open-Partial Shade	Shrubby Cinquefoil (<i>Dasiphora fruticosa</i>)
E-W	Cover, Height-1'-10', Sand Barrens	Open	False Heather (<i>Hudsonia tomentosa</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W-MW	Browse and Fruit, Height-8', Forms Thickets, Savanna	Open	Flameleaf Sumac (<i>Rhus copallinum</i>) ^P
W-MW	Browse, Cover and Fruit, Height-12', Forms Thickets, Grasslands	Open	Smooth Sumac (<i>Rhus glabra</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
Wisconsin Native Tree Guide
Winnebago County**

Major Land Resource Area WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
95B Southeast Glacial Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	E-SP	Wildlife Habitat,	Open	Eastern Redcedar
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat	Open	Black Walnut
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Black Maple
	W-MW	Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat	Open, Partial Shade	Northern White Cedar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian and Upland Wildlife Habitat	Partial Shade, Shade	American Beech
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak	
SP-P	Riparian/Flood Plain Wildlife Habitat	Open	Silver Maple	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis Marshall</i>) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus var. americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum subsp. obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus var. opulus* – note that it does not have the “var. americanum” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Wisconsin Native Shrub Guide Winnebago County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Fruit and Cover, Attracts Butterflies, Height-3', Oak Openings	Open	Western Snowberry (<i>Symphoricarpos occidentalis</i>) ^P
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A
Wisconsin Native Tree Guide
Wood County

Major Land Resource Area & DNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
90B Forest Transition	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Riparian and Upland Wildlife Habitat,	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Eastern Hemlock
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ^{3,2}
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Upland Wildlife Habitat, Riparian Wildlife Habitat	Open, Partial Shade	White Spruce
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Red Maple
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open	Balsam Poplar
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Forest Products, Wetland Wildlife Habitat	Open, Partial Shade	Black Spruce	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

Major Land Resource Area (MLRA) WDNR Ecological Landscape	Drainage Class	Uses	Exposure	Species Recommended
89 Central Sand Plains	E-W	Forest Products, Upland Wildlife Habitat,	Open	Jack Pine
	E-W	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Bur Oak
	W	Forest Products, Upland Wildlife Habitat	Open	Bigtooth Aspen
	W	Upland Wildlife Habitat,	Open, Partial Shade	Shagbark Hickory
	W	Forest Products, Upland Wildlife Habitat,	Partial Shade, Shade	Sugar Maple ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Red Pine
	W-MW	Forest Products, Upland Wildlife Habitat,	Open	Quaking Aspen
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	Northern Red Oak
	W-MW	Forest Products, Upland Wildlife Habitat,	Open, Partial Shade	White Oak
	W-MW	Forest Products, Wildlife Habitat,	Open, Partial Shade	Balsam Fir
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Black Cherry
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Paper (White) Birch
	W-MW	Forest Products, Upland Wildlife Habitat	Open	Butternut ²
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	American Basswood
	W-MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Bitternut Hickory
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade	Yellow Birch ¹
	W-MW	Forest Products, Upland Wildlife Habitat	Partial Shade, Shade	Rock Elm ³
	W-MW	Forest Products, Upland Wildlife Habitat	Shade, Partial Shade	Eastern Hemlock
	W-SP	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Eastern White Pine
	MW	Forest Products, Upland Wildlife Habitat	Open, Partial Shade	Slippery (Red) Elm ³
	MW-SP	Forest Products, Riparian Wildlife Habitat, Upland Wildlife Habitat	Open, Partial Shade	American Elm ³
	MW-SP	Riparian Wildlife Habitat,	Partial Shade, Shade	Hackberry
	MW-SP	Forest Products, Riparian Wildlife Habitat	Open	Red Maple
	MW-SP	Riparian Wildlife Habitat	Open	Eastern Cottonwood
	MW-P	Forest Products, Riparian Wildlife Habitat, Wetland Wildlife Habitat,	Open, Partial Shade	Northern White Cedar
	SP-P	Forest Products, Riparian Wildlife Habitat	Open, Partial Shade	Swamp White Oak
	SP-P	Riparian Wildlife Habitat	Open	Silver Maple
	SP-P	Riparian Wildlife Habitat,	Open	River Birch
P-VP	Forest Products, Wetland Wildlife Habitat	Open	Tamarack	
P-VP	Riparian Wildlife Habitat	Open	Black Willow	

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

¹Sugar Maple seedlings may slow the growth of Yellow Birch seedlings. Rather than evenly disperse seedlings of sugar maple and yellow birch, clump them in separate areas throughout the planting area.

²Butternut is susceptible to butternut canker disease which eventually kills the tree. Limit butternut to 10% or less of trees/acre to be planted.

³All native elms are susceptible to Dutch Elm Disease, which eventually kills the tree. Limit elm to 10% or less of trees/acre to be planted.

**WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A**

**Wisconsin Native Shrub Guide
Statewide**

Drainage Class	Uses	Exposure	Species Recommended
E-W	Cover and Fruit, Height-.5', Forms Mats	Open-Partial Shade	Bearberry (<i>Arctostaphylos uva-ursi</i>)
E-W	Browse and Cover, Height-4', Forests	Open	N. Bush Honeysuckle (<i>Diervilla lonicera</i>) ^P
E-W	Browse and Fruit, Height-20', Forests	Open	Choke Cherry (<i>Prunus virginiana</i>) ^P
E-W	Browse, Fruit and Flowers, Height-30', Forms Thickets, Oak Savanna	Open	Staghorn Sumac (<i>Rhus typhina</i>) ^P
E-W	Browse and Cover, Height-5', Forms Thickets, Forests	Open-Partial Shade	Carolina (Pasture) Rose (<i>Rosa carolina</i>) ^P
E-W	Browse and Fruit, Height-1', Open Forests, Barrens	Open	Blueberry (<i>Vaccinium sp.</i>) ^P
E-W	Browse and Fruit, Height-6', Forests	Partial Shade-Shade	Mapleleaf Viburnum (<i>Viburnum acerifolium</i>) ^P
E-MW	Browse, Fruit and Cover, Height-6', Forms Thickets, Forests	Open	Common Blackberry (<i>Rubus allegheniensis</i>) ^P
W	Cover, Height-10', Grasslands	Open	Common Ninebark (<i>Physocarpus opulifolius</i>) ^P
W	Fruit and Cover, Height-2', Forests	Open	Snowberry (<i>Symphoricarpos albus</i>) ^P
W-MW	Browse and Fruit, Height-25', Fall Foliage, Forests	Partial Shade-Shade	Alternatleaf (Pagoda) Dogwood (<i>Cornus alternifolia</i>) ^P
W-MW	Browse and Fruit, Height-6', Forms Thickets, Forests	Open-Partial Shade	Gray Dogwood (<i>Cornus racemosa</i>) ^P
W-MW	Browse and Seeds, Height-15', Late Fall Flower, Forests	Open-Partial Shade	Witch-Hazel (<i>Hamamelis virginiana</i>) ^P
W-MW	Browse and Fruit, Height-25', Forests	Open	Pin Cherry (<i>Prunus pensylvanica</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Partial Shade	Prickly Gooseberry (<i>Ribes cynosbati</i>) ^P
W-MW	Browse, Fruit and Cover, Height-5', Forests	Open	Black Raspberry (<i>Rubus occidentalis</i>) ^P
W-MW	Fruit and Cover, Height-20', Grasslands	Open	Hawthorns (<i>Crataegus sp.</i>) ^P
W-MW	Cover and Fruit, Height-6', Forms thickets, Grasslands-Riparian-Woodland Border	Partial Shade-Shade	Sand Cherry (<i>Prunus pumila</i>) ^P
W-MW	Cover and Browse, Height-10', Forms Thickets, Prairie-Sand Barrens-Savanna	Open-Partial Shade	Prairie Willow (<i>Salix humilis</i> Marshall) ^P
W-MW	Browse and Cover, Height-5', Forests	Partial Shade-Shade	American Yew (<i>Taxus canadensis</i>)
MW	Browse and Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	American Hazelnut (<i>Corylus americana</i>)
MW	Fruit and Cover, Height-7', Forms Thickets, Forests	Open	Elderberry (<i>Sambucus canadensis</i>) ^P
MW-SP	Browse and Fruit, Height-25', Attractive Spring Blossom, Forests	Partial Shade-Shade	Juneberry, aka Serviceberry (<i>Amelanchier sp.</i>) ^P
MW-SP	Browse and Fruit, Height-9', Forests	Open-Partial Shade	Roundleaf Dogwood (<i>Cornus rugosa</i>) ^P
MW-SP	Browse and Fruit, Height-2', Forests	Open-Partial Shade	Black Huckleberry (<i>Gaylussacia baccata</i>) ^P
MW-SP	Cover and Fruit, Height-24', Forms Thickets, Grasslands	Open	Wild Plum (<i>Prunus americana</i>) ^P
MW-SP	Fruit, Height-15', Forms Thickets, Forests	Open-Partial Shade	Canada Plum (<i>Prunus nigra</i>) ^P
MW-SP	Browse and Fruit, Height-28', Forests	Partial Shade-Shade	Nannyberry (<i>Viburnum lentago</i>) ^P
MW-SP	Cover and Fruit, Height-12', Forests-Riparian Forest	Open-Partial Shade	American Highbush Cranberry (<i>Viburnum trilobum</i> , aka <i>Viburnum opulus</i> var. <i>americanum</i>) ^{4,P}
MW-SP	Cover and Fruit, Height-6', Forests	Open-Partial Shade	Downy Arrowwood (<i>Viburnum rafinesquianum</i>) ^P
SP-P	Browse and Fruit, Height-4 to 8', Wetlands	Open-Partial Shade	Black Chokeberry (<i>Aronia melanocarpa</i>) ^P
SP-P	Browse and Cover, Height-15', Riparian Forests	Open-Partial Shade	Silky Dogwood, aka Pale Dogwood (<i>Cornus amomum</i> , aka <i>Cornus amomum</i> subsp. <i>obliqua</i>) ^P
SP-P	Browse and Fruit, Height-6', Forests	Open-Partial Shade	Winterberry (<i>Ilex verticillata</i>) ^P
SP-P	Browse, Fruit and Cover, Height-3', Forests	Open	Gooseberry (<i>Ribes hirtellum</i>) ^P
SP-P	Height – 6 to 20', Riparian and Wetlands	Open	Pussy Willow (<i>Salix discolor</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023

WISCONSIN FORESTRY TECHNICAL NOTE 1
APPENDIX A

Drainage Class	Uses	Exposure	Species Recommended
SP-P	Browse and Cover, Height-10', Forms Thickets, Lake Dunes and Sand Bars	Open	Sandbar Willow (<i>Salix interior</i>) ^P
SP-VP	Cover, Butterfly Nectar, Height-5', Grasslands	Open	Hard-hack (Steeplebush) (<i>Spiraea tomentosa</i>) ^P
SP-VP	Cover, Browse, Buds, Height-4', Damp Meadows	Open	White Meadowsweet (<i>Spiraea alba</i>) ^P
P-VP	Browse, Height-20', Wetlands	Open	Bog (Dwarf) Birch (<i>Betula pumila</i>)
P-VP	Cover, Riparian Forests, Height-20', Forms Thickets, Butterflies	Partial Shade-Shade	Buttonbush (<i>Cephalanthus occidentalis</i>) ^P
P-VP	Browse and Cover, Height-5', Forms Thickets, Wetlands-Riparian	Open-Partial Shade	Red-Osier Dogwood (<i>Cornus sericea</i> , aka <i>Cornus stolonifera</i>) ^P
VP	Browse, Cover and Seeds, Height-16', Riparian and Wetlands	Open-Partial Shade	Speckled Alder (<i>Alnus incana</i>)

Additional Shrubs Appropriate for Planting in Wood County

Drainage Class	Uses	Exposure	Species Recommended
E-W	Browse and Fruit, Height-3', Grasslands	Open-Partial Shade	New Jersey Tea (<i>Ceanothus americanus</i>) ^P
E-W	Browse and Cover, Height-2', Grasslands	Open	Sweetfern (<i>Comptonia peregrina</i>)
E-W	Cover and Fruit, Height-20', Grassland-Woodland Edge	Open-Partial Shade	Iowa (Prairie) Crab (<i>Malus ioensis</i>) ^P
E-W	Browse, Cover and Fruit, Height-1'-6', Forms Thickets, Lake Dunes-Sandy Soils	Open	Common Juniper (<i>Juniperus communis</i>)
E-W	Cover. Height 10-20'. Forests and Edges.	Partial Shade	Wafer-ash, aka Common Hop-Tree (<i>Ptelea trifoliata</i>)
E-W	Browse, Wildlife Fruit, Flowers, Height 10-20'	Open to Shade	American Mountain-ash (<i>Sorbus americana</i>) ^P
E-MW	Browse and Cover, Height-3', Grasslands, Sedge Meadows	Open	Kalm's St. Johnswort (<i>Hypericum kalmianum</i>)
W	Nuts, Height-10', Forms Thickets, Forests	Open-Partial Shade	Beaked Hazelnut (<i>Corylus cornuta</i>)
W-MW	Cover, Height-6', Attracts Hummingbirds, Forests	Open-Partial Shade	Am. Fly Honeysuckle (<i>Lonicera canadensis</i>) ^P
W-MW	Browse and Fruit, Height-8', Forms Thickets, Savanna	Open	Flameleaf Sumac (<i>Rhus copallinum</i>) ^P
MW-SP	Browse and Cover, Height-6', Savanna-Riparian	Open	Indigo Bush (<i>Amorpha fruticosa</i>) ^P

Drainage Class: E=Excessive W=Well MW=Moderately Well SP=Somewhat Poorly P=Poorly VP=Very Poorly

^P Shrub that is suitable for pollinator planting.

⁴Ensure that European highbush cranberry is not planted. European highbush cranberry is *Viburnum opulus* or *Viburnum opulus* var. *opulus* – note that it does not have the “var. *americanum*” as part of the Latin name and would not be called *Viburnum trilobum*

July 2023