

**DROUGHT TOLERANT PLANTS FOR LANDSCAPING IN SOUTHEASTERN WISCONSIN –  
Detailed Version**

**A. DECIDUOUS TREES**

Common Name	Botanical Name	Growth Rate <sup>a</sup>	Form	Remarks
<b>TALL TREES -- 40-100 feet in height; plant at least 40-50 feet apart; columnar species, 20-30 feet apart</b>				
Catalpa, Northern	<i>Catalpa speciosa</i>	F	Oval	Poor, dry soil; showy, white, June flowers; coarse; litter problem; no fall color; subject to verticillium wilt
• *Coffeetree, Kentucky Espresso K.C. Prairie Titan K.C.	<i>Gymnocladus dioica</i> 'Espresso' 'J.C. McDaniel'	M M M	Upright Upright Upright	Moist, rich soil; coarse and rugged; dioecious; litter problem Blue-green foliage; podless Blue-green foliage; podless
• Elm, Hybrid (H.E.) Accolade H.E. Frontier H.E. Homestead H.E. New Horizon H.E. Patriot H.E. Pioneer H.E. Triumph H.E. Valley Forge H.E.	<i>Ulmus</i> x 'Hybrids' 'Morton' 'Frontier' 'Homestead' 'New Horizon' 'Patriot' 'Pioneer' 'Morton Glossy' 'Valley Forge'	F F S F F F F F F	Upright Vase Upright Upright Pyramidal Vase Globular Vase Upright	Dutch elm disease (DED) resistant; urban DED resistant; urban DED resistant; urban DED resistant; salt tolerance DED resistant; urban DED resistant; urban DED resistant; urban DED resistant; urban DED resistant; urban
• Elm, Japanese (J.E.)  Discovery J.E. Prospector J.E.	<i>Ulmus davidiana</i> var. <i>japonica</i> and cvs. 'Discovery' 'Prospector'	S  S M	Vase  Vase Vase	DED resistant; urban  DED resistant; urban DED resistant; urban
• Filbert, Turkish	<i>Corylus colurna</i>	M	Pyramidal	Urban; well-drained soil; dark green foliage; catkins; nuts
• Ginkgo (G.); Maidenhair Tree (Male only) Autumn Gold G. Fairmount G. Lakeview G. Sentry G.	<i>Ginkgo biloba</i>  'Autumn Gold' 'Fairmount' 'Lakeview' 'Fastigiata'	S  S S S S	Pyramidal  Conical Pyramidal Columnar Columnar	Urban; dioecious, females produce smelly fruits; fan-shaped leaves; golden yellow fall color Urban; fruitless; yellow fall color Urban; fruitless; yellow fall color Urban; fruitless; yellow fall color Fruitless; yellow fall color
• *Hackberry, Common (C.H.)  Prairie Pride C.H.	<i>Celtis occidentalis</i>  'Prairie Pride'	M  M	Vase  Vase	Tolerates alkaline soils; "pebbled" bark; hard black fruits; pest or disease problem and witches' broom may limit use; yellowish fall color Superior branch structure; glossier leaves; no witches' broom
*Hickory, Shagbark	<i>Carya ovata</i>	M	Oval	Dry, well-drained soil; shaggy bark; nuts
• Honeylocust, Thornless Common (C.T.H.) Imperial C.T.H.  Majestic C.T.H. Moraine C.T.H. Shademaster C.T.H.  Skyline C.T.H.	<i>Gleditsia triacanthos</i> var. <i>inermis</i> 'Impcole'  'Majestic' 'Moraine' 'Shademaster'  'Skycole'	F F F F F F	Vase Rounded  Irregular Irregular Irregular Upright	Tolerates poor drainage; thornless, as are all the following; pest or disease problem may limit use; salt-tolerant Podless; low-growing; flat-topped; pest or disease problem may limit use Podless; resistant to diseases; pest problems may limit use Usually fruitless; dense foliage Podless; vase shape in age; pest or disease problem may limit use Podless; tends to form central leader; pest or disease problem may limit use; good golden fall color
Oak, Black	<i>Quercus velutina</i>	M	Rounded	Dry, well-drained sandy soil; full sun; acorns
*Oak, Bur	<i>Quercus macrocarpa</i>	S	Rounded	Dry to wet soil; full sun, acorns; difficult to transplant; no fall color
Oak Northern Pin	<i>Quercus ellipsoidalis</i>	M	Pyramidal	Dry to moist soil; acorns
• Oak, Pin	<i>Quercus palustris</i>	M	Pyramidal	Moist, acid soil; acorns; pendulous lower branches; iron chlorosis on alkaline soil; red fall color
*Oak, White	<i>Quercus alba</i>	S	Rounded	Dry soil; subject to iron chlorosis; red fall color; difficult to transplant
• Planetree, London	<i>Platanus x acerfolia</i>	F	Pyramidal	Dry to moist soil; mottled bark; maple-like leaves
<b>MEDIUM TREES -- 30-40 feet in height; plant at least 20-35 feet apart, depending on spread</b>				
Corktree, Macho Amur (Male only)	<i>Phellodendron amurense</i> 'Macho'	M	Vase	Urban; dry soil; seedless; compound leaves; corky bark; yellow fall color
• Elm, Emerald Sunshine Japanese	<i>Ulmus davidiana</i> var. <i>japonica</i> 'JFS-Bieberich'	S	Vase	DED resistant; urban
• Elm, Lacebark; Chinese Elm	<i>Ulmus parvifolia</i>	M	Vase	Dutch elm disease resistant; exfoliating bark
• * Gum, Black; Black Tupelo	<i>Nyssa sylvatica</i>	S	Pyramidal	Acidic soil; tolerates poor drainage; dioecious; orange to scarlet fall color; bluish black fruits

**A. DECIDUOUS TREES (continued)**

Common Name	Botanical Name	Growth Rate <sup>a</sup>	Form	Remarks
<b>LOW TREES -- 15-30 feet in height; plant at least 15-30 feet apart, depending on spread</b>				
Crabapples, Ornamental; Flowering Crabapples (C.) Adams C.	<i>Malus</i> spp. and cvs.  'Adams'	  M	  Spreading	All require well-drained soil and sun. Most possess a high degree of resistance to the apple scab disease Slightly susceptible to fire blight; rose-red flowers; persistent deep red fruits
Adirondack C.	'Adirondack'	M	Spreading	Disease resistant; white flowers; red fruits
Bob White C.	'Bob White'	M	Rounded	Disease resistant; white flowers; yellow fruits
Cardinal C.	'Cardinal'	M	Spreading	Disease resistant; red flowers; red fruits
Cinderella C.	'Cinzam'	M	Spreading	Disease resistant; white flowers; yellow fruits
Coral Cascade C.	'Coral Cascade'	M	Weeping	Disease resistant; pinkish-white flowers; orange fruits
Coralburst C.	'Coralburst'	M	Rounded	Disease resistant; coral-pink buds; rose-pink flowers; dwarf-type tree
Dolgo C.	'Dolgo'	F	Upright- spreading	Disease resistant; white flowers; crimson fruits
Donald Wyman C.	'Donald Wyman'	M	Rounded- spreading	Disease and scab resistant; white flowers; persistent bright red fruits
Golden Hornet	'Golden Hornet'	M	Upright- spreading	Disease resistant; white flowers; yellow fruits
Indian Summer C.	'Indian Summer'	M	Rounded	Disease resistant; rose-red flowers; persistent red fruits
Jack C.	<i>Malus baccata</i> 'Jackii'	M	Upright- spreading	Slightly susceptible to fire blight; scab-resistant; white flowers; tiny, dark red fruits
Jewelberry C.	'Jewelberry'	M	Spreading	Disease resistant; white flowers; persistent ½" diameter, red fruits; 8' mature height
King Arthur C.	'Kinarzam'	M	Rounded	Disease resistant; white flowers; red fruits
Lancelot C.	'Lanzam'	M	Spreading	Disease resistant; white flowers; yellow fruits
Louisa C.	'Louisa'	M	Weeping	Disease resistant; pink flowers; red fruits
Molten Lava C.	'Molazam'	M	Weeping	Disease resistant; red flowers; red fruits
Ormiston Roy C.	'Ormiston Roy'	M	Rounded	Slightly susceptible to fire blight; scab resistant; white flowers; persistent yellow fruits
Prairiefire C.	'Prairie Fire'	M	Upright	Disease resistant to scab; pinkish-red flowers; dark red fruits
Professor Sprenger C.	'Professor Sprenger'	M	Upright- spreading	Disease and scab resistant; white flowers; persistent orange fruits
Profusion C.	'Profusion'	M	Rounded- spreading	Slightly susceptible to fire blight; bronze-green foliage; rose-red flowers; deep red fruits
Purple Prince C.	'Purple Prince'	M	Spreading	Disease resistant; rose red flowers; red fruits
Red Jewel C.	'Jewelcole'	M	Upright- spreading	Moderately susceptible to scab; white flowers; persistent bright red fruits
Red Splendor C.	'Red Splendor'	M	Vase	Slightly susceptible to scab and moderately to fire blight; pink flowers; bright red fruits remain into winter
Robinson C.	'Robinson'	M	Upright- spreading	Disease resistant; deep pink flowers; red fruits
Royal Raindrops C.	'JFS-KW5'	M	Spreading	Disease resistant; pinkish-red flowers; red fruits
Sargent C.	<i>Malus sargentii</i>	S	Spreading	Slightly susceptible to scab, fire blight, and leaf spot; white flowers; dark red fruits; 8' mature height
Candy mint Sargent C.	'Candy mint'	M	Spreading	Disease resistant; pink flowers; red fruits
Firebird Sargent C.	'Select A'	M	Spreading	Disease resistant; white flowers; red fruits
Tina Sargent C.	'Tina'	S	Spreading	Disease resistant; 5' mature height
Sentinel C.	'Sentinel'	S	Upright	Slightly susceptible to fire blight and scab; white flowers; persistent bright red fruits
Snowdrift C.	'Snowdrift'	S	Vase	Slightly susceptible to scab and fire blight; white flowers; orange-red fruits
Sugar Thyme C.	'Sutyzam'	S	Rounded	Disease resistant; white flowers; red fruits
White Cascade C.	'White Cascade'	S	Weeping	Disease resistant; white flowers; yellowish fruits
Zumi Calocarpa C.; Redbud C.	<i>Malus sieboldii</i> var. <i>zumi</i> 'Calocarpa'	S	Pyramidal	Slightly susceptible to scab, mildew and severely to fire blight; white to pink flowers; bright red fruits
*Hawthorn, Cockspur (C.H.)	<i>Crataegus crus-galli</i>	S	Spreading	Urban; sun; persistent, brick red fruits; thorns; orange to red fall color
• Thornless C.H.	var. <i>inermis</i>	M	Spreading	Few thorns; dark green foliage; bright red fruits
Hawthorn, Washington	<i>Crataegus phaenopyrum</i>	M	Upright	Urban; sun; thorns; latest blooming; small, persistent, orange-red fruits in clusters; orange fall color
Hawthorn, Winter King	<i>Crataegus x viridis</i> 'Winter King'	M	Upright	Sun; few thorns; glossy leaves; persistent red fruits; silver bark
Redbud, Eastern	<i>Cercis canadensis</i>	M	Spreading	Sun or shade; purplish-pink flowers; yellow fall color; "Columbus strain" is the most winter-hardy

## B. EVERGREEN TREES

Common Name	Botanical Name	Growth Rate <sup>a</sup>	Form	Remarks
<b>TALL TREES -- 60-80 feet in height; plant at least 25-35 feet apart, depending on spread</b>				
Fir, White; Concolor Fir	<i>Abies concolor</i>	M	Pyramidal	Dry soil; heat; gray-green foliage
<b>MEDIUM TREES -- 40-60 feet in height; plant at least 25-35 feet apart, depending on spread</b>				
* Pine, Red	<i>Pinus resinosa</i>	F	Pyramidal	Dry soil; sun; reddish bark; yellow-green winter color
Spruce, Serbian	<i>Picea omorika</i>	S	Columnar-pyramidal	Sun; narrow habit; pendulous branchlets
*Spruce, White	<i>Picea glauca</i>	M	Pyramidal	Moist soil; sun; light green needles
<b>LOW TREES -- 15-40 feet in height; plant at least 10-25 feet apart, depending on spread</b>				
Juniper, Chinese (C.J.)	<i>Juniperus chinensis</i>	S	Columnar	Dry soil; sun; blue-green foliage; rust resistant
Iowa C.J.	'Iowa'	S	Columnar	Dense columnar form; fruits
Mountbatten C. J.	'Mountbatten'	S	Columnar	Narrow, columnar form; large fruits
*Redcedar, Eastern (E.R.)	<i>Juniperus virginiana</i>	S	Columnar-pyramidal	Dry soil; sun; brownish winter color; susceptible to cedar-apple rust; salt tolerant
Burk E.R.	'Burkii'	S	Columnar-pyramidal	Fine-textured, gray-green foliage
Canaert E.R.	'Canaertii'	S	Columnar-pyramidal	Dark green, tufted foliage
Silver E.R.	'Glaucua'	S	Columnar-pyramidal	Silver-gray foliage; informal habit
Hill Dundee E.R.	'Hillii'	S	Columnar-pyramidal	Gray-green foliage turns purple in winter; no fruits
Spruce, Black Hills	<i>Picea glauca</i> var. <i>densata</i>	S	Pyramidal	Dry soil; sun; narrow, dense habit; salt-tolerant

## C. DECIDUOUS SHRUBS

Common Name	Botanical Name	Growth Rate <sup>a</sup>	Form	Remarks
<b>TALL SHRUBS -- 8-10 feet in height, sometimes 15 feet; plant at least 4-6 feet apart</b>				
Cherry, Manchu; Nanking Cherry	<i>Prunus tomentosa</i>	S	Rounded	Dry soil; sun; white flowers; edible, red fruits
Cotoneaster, Manyflowered	<i>Cotoneaster multiflorus</i>	M	Mounded	Well-drained soil; sun; white flowers; red fruits; very wide-spreading; subject to fire blight
*Dogwood, Gray	<i>Cornus racemosa</i>	S	Erect	Dry or wet soil; shade; white flowers; white fruits; purple fall color
Fringetree	<i>Chionanthus virginicus</i>	S	Spreading	Moist soil; shade; spidery white flowers; dioecious; blue fruits; coarse
Lilac, Chinese	<i>Syringa x chinensis</i>	M	Vase	Dry, alkaline soil; purple-lilac flowers; fine-textured; good screening plant
Lilac, Common	<i>Syringa vulgaris</i> cvs.	M	Upright	Well-drained soil; sun; white, pink, lilac, purple, fragrant flowers; subject to mildew
Lilac, Hyacinth	<i>Syringa x hyacinthiflora</i> cvs.	M	Upright	Sun; white, pink, lilac, purple flowers; early blooming
Lilac, Preston	<i>Syringa x prestoniae</i> cvs.	M	Rounded	Sun; pink to purple flowers; late-blooming; coarse-textured; possible disease problem
*Plum, American	<i>Prunus americana</i>	F	Spreading	Dry soil; sun; suckering habit; white flowers; yellow to orange fall color
Smoketree (S.); Smokebush	<i>Cotinus coggygria</i>	M	Rounded	Sun; dry soil; pinkish "smoke-like" inflorescence; subject to verticillium wilt
Nordine Red S.	'Nordine Red'	M	Rounded	Purplish summer foliage
Royal Purple S.	'Royal Purple'	S	Upright	Purple foliage; reddish-purple fall color
*Sumac, Smooth	<i>Rhus glabra</i>	F	Suckering	Dry soil; sun; persistent red fruits; smooth stems; scarlet fall color; salt-tolerant
*Sumac, Staghorn (S.S.)	<i>Rhus typhina</i>	F	Suckering	Dry soil; sun; persistent red fruits; felty stems; salt-tolerant; orange to red fall color
Shredleaf S.S.; Cut Leaf S.S.	'Dissecta'	F	Picturesque	Dry soil; sun; red fruits; dissected leaves; orange to red in fall
Viburnum, Arrowwood	<i>Viburnum dentatum</i>	M	Vase	Moist soil; shade; white flowers in June; blue fruits; maroon fall color
*Viburnum, Blackhaw	<i>Viburnum prunifolium</i>	S	Spreading	Partial shade; white flowers; black fruits; single- or multi-trunked; maroon fall color
Viburnum, Burkwood	<i>Viburnum x burkwoodii</i>	M	Upright	Dry to moist, well-drained soil; dark green foliage; wine-red fall color

**C. DECIDUOUS SHRUBS (continued)**

Common Name	Botanical Name	Growth Rate	Form	Remarks
<b>MEDIUM SHRUBS -- 5-8 feet in height; plant at least 3-4 feet apart</b>				
Chokeberry, Red	<i>Aronia arbutifolia</i>	S	Erect	Wet soil; shade; tolerates poor drainage; white flowers; red fruits; red fall color
Cotoneaster, Hedge	<i>Cotoneaster lucidus</i>	M	Upright	Dry soil; partial shade; black fruits; good hedge plant; <i>C. acutifolius</i> is similar; orange to maroon fall color
*Hazelnut; American Filbert	<i>Corylus americana</i>	M	Rounded	Dry soil; shade; catkins in March; edible nuts; orange fall color
Jetbead	<i>Rhodotypos scandens</i>	M	Spreading	Dry soil; shade; white flowers; black fruits in clusters of four
Lilac, Miss Kim	<i>Syringa patula</i> 'Miss Kim'	S	Rounded	Sun; coarse; purple flowers; maroon autumn foliage
Lilac, Meyer; Palibin Lilac	<i>Syringa meyeri</i> 'Palibin'	S	Rounded	Sun; purple flowers; dense; fine-textured; good informal hedge plant often sold as <i>S. palibiniana</i>
Privet, Regel's Border	<i>Ligustrum obtusifolium</i> var. <i>regelianum</i>	F	Spreading	Dry soil; shade; white flowers; blue-black fruits; late, purple fall color
Rose, Father Hugo	<i>Rosa hugonis</i>	F	Vase	Poor soil; sun; yellow flowers; sparse red fruits; fine-textured
Rose, Rugosa	<i>Rosa rugosa</i> cvs.	F	Rounded	Dry soil; sun; white, yellow, pink or red flowers; large, edible red fruits; salt-tolerant; includes 'Grootendorst'
Spirea, Vanhoutte	<i>Spiraea x vanhouttei</i>	F	Vase	Sun; white flowers; arching branches; salt-tolerant
Weigela, Old-Fashioned	<i>Weigela florida</i>	M	Spreading	Well-drained soil; red flowers
<b>LOW SHRUBS -- 2-5 feet in height; plant at least 2½-3 feet apart</b>				
*Chokeberry, Black; Aronia Berry	<i>Aronia melanocarpa</i>	S	Upright	Wet soil tolerant; white flowers; black fruits; red fall color
*Cinquefoil, Bush; Potentilla (P.)	<i>Potentilla fruticosa</i>	S	Rounded	Moist soil; sun; blooms all summer
Abbotswood P.	'Abbotswood'	S	Rounded	White flowers; blue-green foliage
Gold Drop P.	'Gold Drop'; 'Farrei'	S	Rounded	Yellow flowers; small green leaves
Goldfinger P.	'Goldfinger'	S	Rounded	Yellow flowers; yellow-green foliage
Jackman P.	'Jackmanii'	S	Rounded	Larger bright yellow flowers; medium-green foliage; salt-tolerant
McKay's White P.	'McKay's White'	S	Rounded	Cream flowers; yellow-green foliage
Primrose Beauty P.	'Primerose Beauty'	S	Rounded	Pale yellow flowers; silvery foliage
Coralberry, Indiantcurrant; Buckbrush	<i>Symphoricarpos orbiculatus</i>	F	Suckering	Dry soil; shade; pink fruits; good bank cover
Cotoneaster, Cranberry	<i>Cotoneaster apiculatus</i>	S	Mounded	Dry soil; red fruits; red fall color
Cotoneaster, Rock	<i>Cotoneaster horizontalis</i>	M	Spreading	Sun; dark glossy green foliage; fishbone-pattern branches; brogjt red fruits; reddish-purple fall color
Currant, Alpine	<i>Ribes alpinum</i>	M	Rounded	Shade; urban; good hedge plant; salt-tolerant
Forsythia, Bronx	<i>Forsythia viridissima</i> 'Bronxensis'	S	Low mound	Sun; small yellow flowers; fine-textured; purple fall color
Honeysuckle, Clavey's Dwarf	<i>Lonicera x xylosteoides</i> 'Clavey's Dwarf'	M	Rounded	Dense growth; good hedge or screening plant
Emerald Mound Honeysuckle	'Emerald Mound'; 'Nana'	M	Mounded	Rich, bluish-green foliage; dense, compact form
Miniglobe Honeysuckle	'Miniglobe'	S	Globe	Dense 2' height globe
*Honeysuckle, Dwarf Bush	<i>Diervilla lonicera</i>	S	Mounded	Dry soil; shade; yellow flowers; good bank cover
Lead Plant	<i>Amorpha canescens</i>	M	Spreading	Dry, well-drained soil; sun; bright blue flowers
Rose, Virginia	<i>Rosa virginiana</i>	M	Suckering	Sun; pink flowers; persistent red fruits; red stems; good bank cover
*Snowberry	<i>Symphoricarpos albus</i>	F	Vase	Best in dry soil; shade; tiny pink flowers; showy white fruits; salt-tolerant; may be sold as <i>S. rivularis</i>
Spirea, Japanese (J.S.)	<i>Spiraea japonica</i>			
Daphne J.S.	var. <i>alpina</i>	S	Mounded	Sun; only 10 inches high with tiny flowers
Goldmound J.S.	'Goldmound'	S	Mounded	Sun; gold summer foliage
Little Princess J.S.	'Little Princess'	S	Mounded	Sun; pale pink flowers
Spirea, Snowmound	<i>Spiraea nipponica</i> 'Snowmound'	S	Mounded	Sun; white flowers; blue-green foliage; possible disease problem
*Sumac, Fragrant	<i>Rhus aromatica</i>	M	Mounded	Dry soil; sun; salt-tolerant; red fruits; fragrant foliage, turns orange-maroon in fall
Willow, Silver Creeping	<i>Salix repens</i> var. <i>nitida</i>	S	Spreading	Dry to moist soil; sun; silvery foliage; large red fruits

**D. EVERGREEN SHRUBS**

Common Name	Botanical Name	Growth Rate <sup>a</sup>	Form	Remarks
<b>TALL SHRUBS -- 8-10 feet in height, sometimes 15 feet; plant at least 6-8 feet apart, depending on spread</b>				
Juniper, Chinese (C.J.) Ames C.J.	<i>Juniperus chinensis</i> 'Ames'	M	Broad-pyramidal	Sun; well-drained soil Bluish green foliage
Fairview C.J.	'Fairview'	M	Narrow-pyramidal	Bluish-green foliage; silver berries
Hetz C.J.	'Hetz'	F	Ascending-spreading	Silvery blue foliage
Kettleer C.J.	'Kettleeri'	F	Broad-pyramidal	Green foliage
Robusta Green C.J.	'Robusta Green'	M	Broad-pyramidal	Tufted brilliant green foliage
Spartan C.J. (Also see Low Evergreen Trees)	'Spartan'	F	Pyramidal	Rich green foliage
<b>MEDIUM SHRUBS -- 2-8 feet in height; plant at least 4-6 feet apart, depending on spread</b>				
Juniper, Blue Star Singleseed	<i>Juniperus squamata</i> 'Bluestar'	S	Mounded	Sun; blue foliage
Juniper Chinese (C.J.) Blaauw C.J.	<i>Juniper chinensis</i> 'Blaauw'	M	Upright-vase	Sun; well-drained soil Grayish-blue foliage
Blue Pfitzer Juniper	'Pfitzeriana Glauca'	F	Spreading	Bluish-gray foliage; no fruit
Gold Tip Pfitzer Juniper	'Pfitzeriana Aurea'	M	Spreading	Green foliage with gold tips
Maney C.J.	'Maney'	M	Upright-vase	Bluish-green foliage
Mint Julep C.J.	'Mint Julep'	S	Upright-bushy	Yellow-green foliage; also sold as 'Sea Green'
Old Gold C.J.	'Old Gold'	M	Spreading	Green foliage with gold tips; bronze-gold foliage in winter; no fruits
Pfitzer Juniper	'Pfitzeriana'	F	Wide-spreading	Green foliage; no fruits; salt-tolerant
Schroeder Compact Juniper	'Pfitzeriana Compacta'	M	Spreading	Compact green foliage
*Juniper, Oldfield Common	<i>Juniperus communis</i> var. <i>depressa</i>	S	Spreading	Well-drained soil; sun; light green foliage turns brown in winter
Needle, Adams (A.N.) Bright Edge A.N.	<i>Yucca filamentosa</i> 'Bright Edge'	F	Mounded	Dry soil; sun; green needle-like foliage; creamy white flowers Green foliage with golden yellow edges
Color Guard A.N.	'Color Guard'	F	Mounded	Foliage with white and cream inside and green edges
Pine, Mugo (M.P.) Dwarf M.P.	<i>Pinus mugo</i> var. <i>mugo</i> 'Compacta'	M M	Mounded Mounded	Dry soil; sun; green foliage; pest problems may limit use Dry soil; sun; green foliage; pest problems may limit use
<b>LOW SHRUBS -- 6-24 inches in height; plant at least 4-6 feet apart, depending on spread</b>				
Juniper, Chinese Japanese Garden Juniper	<i>Juniperus chinensis</i> var. <i>procumbens</i>	S	Creeping	Well-drained soil; sun Bluish-green foliage year-round
Dwarf Japanese Garden Juniper	'Nana'	S	Creeping	Dwarf and dense
Kallay's Compact Pfitzer Juniper	'Pfitzeriana Kallay's Compact'	M	Spreading	Pale green foliage
Sargent Juniper	var. <i>sargentii</i>	M	Creeping	Green or bluish-green foliage in 'Glauca' cultivar
Juniper, Petite Common Creeping Common Juniper	<i>Juniperus communis</i> 'Petite' 'Repanda'	M M	Creeping Creeping	Dense; compact; fruits Sun; green foliage in winter
*Juniper, Creeping Bar Harbor Juniper (J.) Blue Chip J. Blue Rug J. Hughes J. Webber J. Wisconsin J. Youngstown J.; Andorra J.	<i>Juniperus horizontalis</i> 'Bar Harbor' 'Blue Chip' 'Wiltonii' 'Hughes' 'Webber' 'Wisconsin' 'Youngstown'	M M M M M M M	Creeping Creeping Flat-trailing Spreading Creeping Creeping Radial-creeping	Dry soil; variable color-brown in winter; subject to blight disease Bluish-green foliage turning purple in winter Blue foliage year-round Silvery blue foliage and fruits Silvery blue foliage; radial branching habit Bluish-green foliage; mat-like Bluish-green foliage turning steel blue in winter Grayish-green foliage turning purple in winter
Juniper, Savin Broadmoor Juniper (J.) Buffalo J. Calgary Carpet J.	<i>Juniperus sabina</i> 'Broadmoor' 'Buffalo' 'Calgary Carpet'	S S S S	Low-spreading Mounded Low-spreading Low-spreading	Well-drained soil; sun Soft grayish-green foliage; fine-textured Bright green foliage; fine-textured Soft green foliage

**E. ORNAMENTAL GRASSES**

Common Name	Botanical Name	Growth Rate <sup>a</sup>	Form	Remarks
<b>TALL GRASSES -- 4-6 feet in height</b>				
Bluestem, Big; Turkeyfoot	<i>Andropogon gerardii</i> 'Sentinel'	F	Upright clumps	Moist and dry soils; green or blue-green leaves; orange to copper-red fall color
Dot Grass, Little	<i>Miscanthus sinensis</i> 'Puenktchen'	F	Upright	Green foliage with horizontal yellow bands; spiky texture
Feather Grass, Silver (S.F.G.)	<i>Miscanthus sinensis</i> 'Silberfeder'		Upright	Sun; green foliage; large feathery silvery flowers
Sirene S.F.G.	'Sirene'	F	Upright	Sun; green foliage; large feathery silvery flowers
*Indian Grass (I.G.)	<i>Sorghastrum nutans</i>	F	Upright clumps	Sun; green to bluish foliage; showy flower panicles
Indian Steel Grass	'Indian Steel'	F	Upright clumps	Sun; green to bluish foliage; showy flower panicles
Blue I.G.	'Sioux Blue'	F	Upright clumps	Powder-blue foliage; erect form; yellow fall color
Maiden Grass (M.G.); Japanese Silver Grass; Eulalia	<i>Miscanthus sinensis</i>			Moist soil; sun to light shade
Adagio M.G.	'Adagio'	F	Upright	Very narrow green foliage; yellow fall color
Goliath M.G.	'Goliath'	F	Upright	Green foliage; red-orange fall color
Gracillimus M.G.	'Gracillimus'	F	Rounded	Fine textured green foliage; golden-yellow fall color; copper-red inflorescence
Graziella M.G.	'Graziella'	F	Upright	Narrow green leaves; fluffy silver inflorescence; red-orange fall color
Helga Reich M.G.	'Helga Reich'	F	Upright	Fine textured green foliage
July M.G.	'Juli'	F	Upright	Broad, green foliage
Large Fountain M.G.	'Gross Fontane'	F	Upright	Green foliage; midsummer flowers
Malepartus M.G.	'Malepartus'	F	Upright	Wide green foliage; fluffy, white flowers; gold fall color
Morning Light M.G.	'Morning Light'	F	Upright-rounded	Narrow white variegated foliage; reddish flowers
Sarabande M.G.	'Sarabande'	M	Upright	Fine textured silvery foliage
Variegated M.G.	'Variegatus'	F	Upright	Green and white striped foliage
Moor Grass, Tall Purple (T.P.M.G.)	<i>Molinia caerulea</i> ssp. <i>arundinacea</i>	M	Upright-rounded	Moist soil; stately inflorescence; green to gray-green foliage; golden-yellow fall color
Mountain Friend T.P.M.G.	'Bergfreund'	M	Upright-rounded	Golden-yellow fall color
Skyracer T.P.M.G.	'Skyracer'	F	Upright	Deep orange-yellow fall color
Transparent T.P.M.G.	'Transparent'	M	Arching	'Transparent' between foliage and flowers
Porcupine Grass	<i>Miscanthus sinensis</i> 'Strictus'	F	Upright-rounded	Sun; green foliage with yellow bands; spikey effect
Reed Grass, Feather (F.R.G.)	<i>Calamagrostis x acutiflora</i>	F	Upright clumps	Well-drained, moist soil; sun to light shade
Avalanche F.R.G.	'Avalanche'	F	Upright clumps	White center striped foliage
Karl Foerster F.R.G.	'Karl Foerster'; 'Stricta'	F	Upright clumps	Deep green foliage
Overdam F.R.G.	'Overdam'	F	Upright clumps	Cream white striped foliage
Switch Grass (S.G.); Panic Grass	<i>Panicum virgatum</i>	F	Upright clumps	Sun; inflorescence with narrow wide spreading branches
Blue Sky S.G.	'Prairie Sky'	F	Upright clumps	Deep blue foliage
Cloud Nine S.G.	'Cloud Nine'	M	Upright clumps	Blue foliage; seed-head appears cloud-like
Dallas Blues S.G.	'Dallas Blues'	F	Upright clumps	Blue foliage
Northwind S.G.	'Northwind'	F	Upright clumps	Blue-green foliage
Tall S.G.	'Cloud Nine'	F	Upright clumps	Blue-green foliage; dark gold fall color
<b>MEDIUM GRASSES -- 2-4 feet in height</b>				
*Bluestem, Little (L.B.)	<i>Schizachyrium scorparium</i> ; <i>Andropogon scoparius</i>	M	Upright clumps	Moist to dry soils; sun; good drainage; fine-textured purplish to blue-green leaves; orange to orange-red fall color
Blue Heaven L.B.	'Blue Heaven'	M	Upright clumps	Soft blue-green foliage; red-orange fall color
Prairie Blues L.B.	'Prairie Blues'	M	Upright clumps	Bright grey-blue foliage; red-orange fall color
The Blues L.B.	'The Blues'	M	Upright clumps	Deep blue foliage
Fountain Grass	<i>Pennisetum aslopecurioides</i>	M	Cascading	Sun to light shade; green leaves, golden-yellow fall color; foxtail-like inflorescence; dark purple flowers
Oats, Northern Sea, Wild Oats; Wood Oats	<i>Chasmanthium latifolium</i>	M	Clumps	Moist soil; light shade; green foliage; dangling oatlike spikelets; gold to red-bronze fall color
Switch Grass, Blue (B.S.G.) or Red (R.S.G.)	<i>Panicum virgatum</i>	M	Upright clumps	Sun; inflorescence
Hanse Herms R.S.G.	'Hanse Herms'	M	Upright clumps	Lax-stemmed, arching green foliage; burgundy red fall color
Heavy Metal B.S.G.	'Heavy Metal'	M	Upright clumps	Blue-gray foliage turns yellow in fall; pinkish flowers
Red-Rays S.G.	'Rotstrahlbusch'	M	Upright clumps	Green foliage; red-burgundy fall color
Shenandoah R.S.G.	'Shenandoah'	M	Upright clumps	Green foliage; burgundy fall color

## E. ORNAMENTAL GRASSES (continued)

LOW GRASSES -- 8-24 inches in height				
Dropseed, Sand	<i>Sporobolus cryptandrus</i>	S	Clumps	Fine-textured; glossy green leaves; sweet fragrance
Fescue, Blue (B.F.)	<i>Festuca ovina glauca</i> ; <i>Festuca cinera</i>	S	Dense tufts	Sun; good drainage; fine-textured; 10" height
Elijah B.F.	'Elijah Blue'	S	Dense tufts	Silver-blue foliage; 10" height
Solling B.F.	'Solling'	S	Dense tufts	Silver-gray foliage; 8" height; heat and salt-tolerant
Gramma, Blue	<i>Bouteloua gracilis</i>	S	Upright	Green-grayish foliage; blue-green seeds
Gramma, Sideoats	<i>Bouteloua curtipendula</i>	S	Upright	Dry, well-drained; sun; seeds on one side; does well on slopes
June Grass; Hair Grass	<i>Koeleria macrantha</i> ; <i>Koeleria cristata</i>	M	Upright	Sun; blue-gray foliage; bright green flowers
Oat Grass, Blue	<i>Helictotrichon sempervirens</i>	M	Dense tufts	Moist, well-drained soil; sun; silver blue foliage semi-evergreen; arching stems
Sedge, Pennsylvania	<i>Carex pensylvanica</i>	M	Clumps	Green foliage; brown seed capsules

## F. GROUNDCOVERS

Common Name	Botanical Name	Growth Rate <sup>a</sup>	Remarks	
<b>GROUNDCOVERS</b>				
Juniper (Also see Low Evergreen Shrubs)	<i>Juniperus</i> spp.	F	Dry soil; sun; needled evergreen; 6"-24" height	
Sumac, Gro-Low Fragrant	<i>Rhus aromatica</i> 'Gro-Low'	M	Dry soil; sun; orange-maroon fall color; 2½' height	

## G. VINES

Common Name	Botanical Name	Growth Rate <sup>a</sup>	Form	Remarks
<b>VINES</b>				
*Bittersweet, American	<i>Celastrus scandens</i>	F	Twining	Dry soil; shade; yellow and red terminal fruit clusters; dioecious; plant both sexes
Creepers, Engelmann Virginia; Woodbine	<i>Parthenocissus quinquefolia</i> 'Engelmannii'	F	Holdfasts and tendrils	Shade or sun; finer textured than the species; blue fruits; red fall color; salt-tolerant
Hydrangea, Climbing	<i>Hydrangea anomala</i> spp. <i>Petiolearis</i>	S	Aerial rootlets	Shade; moist soil; white flowers; exfoliating cinnamon bark

NOTES: The following abbreviations represent: cvs. – cultivars; spp. – species; ssp. – subspecies; and var. – variety. Recently installed plants initially require proper care including watering, fertilizing, and pruning until roots are established within two to three years. Thereafter, little or no watering is needed except during extreme prolonged drought conditions. Generally *Miscanthus sinensis* and *Miscanthus sacchariflorus* species should not be planted; however, certain cultivars of such grasses determined not to be invasive are acceptable.

<sup>a</sup>The following letters represent: S - Slow; M - Moderate; and F - Fast.

- Street tree. Only Dutch elm disease (DED) resistant and male Ginkgo trees should be selected for this purpose. A variety of trees should be planted for diversity and to help avoid the wide-spread loss of trees through disease and pest infestations. As a general guide, species diversity should be established with no more than 20 percent of plants from one "family" (i.e. Honeylocust), no more than 10 percent from one "genus" (i.e. Thornless Honeylocust), and no more than 5 percent from any single "species" (i.e. Imperial Thornless Honeylocust), including "cultivars" and "varieties".

\*Wisconsin native.

Source: E. R. Hasselkus, Ph. D., A Guide to Selecting Landscape Plants for Wisconsin, 1998, and Laura G. Jull, Ph.D., Drought Tolerant Woody Landscape Plants, 2012, University of Wisconsin-Extension, Madison, Wisconsin; Michael A. Dirr, Manual of Woody Landscape Plants: Their Identification, Ornamental Characteristics, Culture, Propagation and Uses, 5th Ed., Stipes Publishing Company, Champaign, Illinois, 1998; Richard D. Schein, Ph.D., Street Trees: A Manual for Municipalities, Treeworks, State College, Pennsylvania, 1993; Henry D. Gerhold, Willet N. Wandell, and Norman L. Lacasse, Landscape Tree Factsheets, Pennsylvania State University, University Park, Pennsylvania, 2005; Henry D. Gerhold, Norman L. Lacasse, and Willet N. Wandell, Compatible Tree Factsheets for Electric Lines and Restricted Spaces, Including Evergreens for Screens, 2nd Ed., Pennsylvania State University, University Park, Pennsylvania, 2001; M. Hockenberry Meyer, D. B. White, and H. Pellett, Ornamental Grasses for Cold Climates, North Central Regional Extension Publication 573, University of Minnesota-Extension, St. Paul, Minnesota, 1998; Rick Darke, The Color Encyclopedia of Ornamental Grasses, Timber Press, Inc., Portland, Oregon, 1999; University of Wisconsin-Extension; Frank S. Santamour, Jr., Trees for Urban Planting: Diversity, Uniformity, and Common Sense, U.S. National Arboretum-Agricultural Research Service, Washington D.C., 1990; and SEWRPC.

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