

ZONING

250 Attachment 3

Village of Johnson Creek

Appendix B Detailed Classification of Plant Species

KEY:

* Wisconsin native

S = Slow

M = Medium

F = Fast

^{RF} refers to reforestation; marked species are native to Wisconsin and recommended for reforestation efforts by the Wisconsin DNR.

Detailed Classification of Plant Species: Climax Trees (75 landscaping points)

Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
*Acer saccharum ^{RF}	Sugar Maple	S	Round	Rich soil; salt-sensitive; oval when young; yellow, orange or scarlet fall color
“Green Mountain”				Scorch-resistant; leathery leaves
*Carya ovata ^{RF}	Shagbark Hickory			Native and very adaptable, salt-sensitive, fruit-nut, lawn tree
Ginkgo bilboa	Ginkgo	S	Pyramidal	Very urban, dioecious, females produce smelly fruits, golden yellow fall color
“Fastigiata”	Sentry Ginkgo		Columnar	Seedless
Juglans nigra ^{RF}	Walnut Eastern Walnut Black Walnut	F		Best in public open spaces or lawns; not to be used as a street tree; poisonous to other plants within the drip zone; susceptible to caterpillars and leaf-spot disease
*Quercus alba ^{RF}	White Oak	S	Round	Extremely sensitive to soil compaction; tolerant of urban conditions; dry soil; subject to iron chlorosis; red fall color; very difficult to transplant; excellent lawn or shade tree
*Quercus bicolor ^{RF}	Swamp White Oak	S	Round	Very tolerant of urban conditions; moist to wet, intolerant of alkaline soil; tolerates poor drainage; difficult to transplant; yellow fall color

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Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
* <i>Quercus macrocarpa</i> ^{RF}	Bur Oak Mossycup Oak	S	Round	Sensitive to soil compaction; tolerant of urban conditions; dry to wet soil; no fall color; very difficult to transplant
* <i>Quercus palustris</i>	Pin Oak	M	Pyramidal	Sensitive to soil compaction; tolerant of urban conditions; moist, acid soil; pendulous lower branches; red fall color; iron chlorosis on alkaline soil; lawn tree; cultivar "Sovereign" best for streets
* <i>Quercus rubra</i> ^{RF} (also known as <i>Quercus borealis</i>)	Northern Red Oak Red Oak	M	Round	Sensitive to soil compaction; tolerant of urban conditions; pyramidal when young; red fall color; well-drained soil; fast-growing for oaks; excellent lawn, shade, and street tree

Detailed Classification of Plant Species: Tall Deciduous Trees (30 landscaping points)

Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
<i>Acer nigrum</i>	Black Maple	M	Oval	Does well in poor, dry soils; red to bright gold fall color; excellent for lawn, shade, or street
<i>Acer platanoides</i>	Norway Maple	M	Round	Shallow root system; not to be used along streets
"Cleveland"		F	Oval-upright	Uniform, dense foliage
"Columnare"			Columnar	Indistinct central leader
"Crimson King"				Keeps deep purple leaf color throughout summer; susceptible to sun scald, bark-splitting and transplant shock
"Drummondii"	Harlequin Norway Maple	S	Round	Variegated, cream-edged leaves
"Emerald Queen"		F	Oval	Vigorous; crisp foliage
"Globosum"	Globe Norway Maple	S	Globe	Useful on a standard under utility wires; 20' height
"Greenlace"			Round	Deeply divided, fine-textured leaves
"Royal Red"		S	Round	Best for purple summer foliage

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Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
“Shwedleri”			Round	New foliage reddish; bronze by summer
“Summershade”		F	Round	Rapidly growing cultivar; deep green, large, leathery leaves
* <i>Acer rubrum</i> ^{RF}	Red Maple Scarlet Maple Swamp Maple	F	Round	Moist, acid soil; tolerates poor drainage; smooth gray bark; yellow, orange or red fall color; salt-sensitive
“Armstrong”			Fastigiata	No fall color; light gray bark
“Autumn Flame”				Early scarlet fall color
“Bowhall”			Oval	Orange fall color
“Red Sunset”				Late, scarlet fall color
“Schlesingeri”				Red-orange fall color
* <i>Acer saccharinum</i> ^{RF}	Silver Maple Soft Maple White Maple River Maple	F	Vase	Heart and fast-growing; most soil; tolerates poor drainage; fine-textured; weak-wooded (develops heart rots after 50 years, limbs may fall); yellowish or no fall color
“Blair”		Very Fast		Strong branch structure; storm-resistant
“Pyramidale”	Upright Silver Maple		Pyramidal	Improved branch structure
“Silver Queen”	Seedless Sugar Maple		Round	Seedless
“Wieri”	Cutleaf Sugar Maple			Shredded leaves; pendulous branches
<i>Aesculus hippocastanum</i>	Horsechestnut	M	Round	Urban; coarse; showy, white May flowers; litter problem; no fall color; difficult to transplant; pest or disease problems may limit use
<i>Alnus glutinosa</i>	European Alder Black Alder	F	Oval	Rich or wet soils; produces catkins; possible winterkill
<i>Betula lutea</i> ^{RF}	Yellow Birch	M	Round	Drooping branches; moist well-drained soils; yellow-orange bark; rusty yellow fall color
<i>Catalpa speciosa</i>	Northern Catalpa	F	Oval	Poor, dry soil; showy, white June flowers; coarse; litter problem; no fall color

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Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
* <i>Celtis occidentalis</i> ^{RF}	Common Hackberry	M	Vase	Tolerates alkaline soils; "pebbled" bark; yellowish fall color; pest or disease problem may limit use
* <i>Fagus grandifolia</i> ^{RF}	American Beech	S	Oval	Moist, rich soil; smooth, gray bark; yellow-bronze fall color; difficult to transplant; salt-sensitive; sensitive to soil compaction
<i>Fagus sylvatica</i>	European Beech	S	Round	Moist, rich soil; less difficult to transplant than American Beech; several cultivars available; excellent lawn tree
* <i>Fraxinus americana</i> ^{RF}	White Ash	M	Round	Moist soil; tolerates poor drainage; dioecious; orange to purple fall color; tolerates urban conditions
"Autumn Purple"			Round	Seedless; superior fall color
"Rosehill"			Oval	Seedless; superior fall color
<i>Fraxinus excelsior</i>	European Ash	F	Round	Jet-black buds; no fall color
"Aurea"	Golden European Ash	M	Round	Golden, young foliage, twigs and fall color; green summer foliage
"Hesseri"	Hesse European Ash		Round	Simple leaves
<i>Fraxinus nigra</i> ^{RF}	Black Ash	M	Irregular	Deep, rich, moist soils; tolerates wet soils; yellow fall color; scaly bark
<i>Fraxinus pennsylvanica</i> ^{RF}	Green Ash Red Ash	F	Oval; irregular	Dry to wet soils; tolerates poor drainage; salt-tolerant; twiggy and weak-wooded; yellow fall color; pest or disease problem may limit use; tolerates urban conditions
"Marshall's Seedless"			Oval	Seedless; glossy, dark green foliage; improved habit of growth
"Summit"			Upright	Finer textured foliage
* <i>Gleditsia triacanthos inermis</i>	Thornless Honeylocust	F	Vase	Tolerates poor drainage; thornless, as are all of the following; pest or disease problem may limit use; salt-tolerant; yellow fall color
"Imperial"			Round	Podless; low-growing; flat-topped; pest or disease problem

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Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
				may limit use
“Shademaster”	Thornless Honeylocust	F	Irregular	Podless; vase shape in age; pest or disease problem may limit use
“Skyline”			Upright	Podless; tends to form central leader; good golden fall color; pest or disease problem may limit use
“Sunburst”			Irregular	Podless; yellow new foliage; poor branch structure; pest or disease problem may limit use
* <i>Gymnocladus dioica</i>	Kentucky Coffeetree	M	Upright	Moist, rich soil; coarse and rugged; dioecious; yellowish fall color
<i>Juglans cinerea</i> ^{RF}	Butternut	S		Needs good soil and consistent moisture; fairly good shade tree; susceptible to butternut decline
<i>Larix decidua</i>	European Larch	F	Pyramidal	Full sun; graceful, fine-textured; transplant in spring before buds open; yellow fall color
“Pendula”				Interesting weeping branches
<i>Larix kaempferi</i>	Japanese Larch	F	Wide-Pyramidal	Similar to European Larch, more picturesque
<i>Larix laricina</i> ^{RF}	American Larch Tamarack	M	Narrow-Pyramidal	Hardy; drought tolerant; used in shelterbelts
<i>Liriodendron tulipifera</i>	Tuliptree	F	Upright	Rich, moist soil; unique leaves and interesting June flowers; yellow fall color; purchase from northern source
* <i>Platanus occidentalis</i>	Sycamore American Planetree	F	Pyramidal	Moist soil; tolerates poor drainage; mottled bark; coarse, maple-like leaves; no fall color; pest or disease problem may limit use
<i>Populus alba</i> “Pyramidalis”	White Poplar	F	Fastigate	Moist soil; tolerates poor drainage; mottled bark; coarse, maple-like leaves; no fall color; pest or disease problem may limit use

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Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
Populus deltoides ^{RF}	Eastern Poplar	Very fast	Fastigiate	Hardy, fast growing; golden yellow fall color; tolerates drought; brittle; may produce “cotton”; too large for homes
“Robusta”			Upright	Seedless
“Siouxland”				Larger greener leaves; seedless; uniform in shape; hardy
“Cottonless”				Seedless; many similar species available
Populus grandidentata ^{RF}	Bigtooth Aspen	F	Narrow	Moist, sandy, gravelly soils; not shade tolerant; yellow fall color
*Prunus serotina ^{RF}	Black Cherry	M	Oval	Dry soil; white flowers and black fruits in drooping racemes; orange fall color; pest or disease problem may limit use
Taxodium distichum	Baldcypress	F	Pyramidal	Moist, intolerant of alkaline soil; tolerates poor drainage; sun; bronze fall color; fine texture; purchase from northern source
*Tilia americana ^{RF}	American Linden Basswood Linden Tree Linn Tree	M	Round	Sensitive to soil compaction; salt-sensitive; coarse; rich soils
Tilia cordata	Littleleaf Linden	S	Pyramidal	Urban; moist soil; fragrant flowers; poor branch structure, needs training while young; yellow fall color
“Chancellor”				Uniform, upright habit
“Greenspire”				Improved branching habit
Tilia x euchlora “Redmond”	Redmond Linden	M	Pyramidal	Urban; dark green foliage

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Detailed Classification of Plant Species: Low Deciduous Trees (15 landscaping points)

Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
<i>Aesculus x carnea</i> "Briotii"	Ruby Horsechestnut	S	Round	Rich, most soil; red flowers
<i>Aesculus glabra</i>	Ohio Buckeye	S	Round	Rich, moist soil; yellow-green flowers; orange fall color
<i>Alnus glutinosa</i>	European Alder	F	Oval	Wet; tolerates poor drainage; catkins; cone fruits; no fall color
* <i>Betula nigra</i> ^{RF}	River Birch	M	Vase	Wet to dry, intolerant of alkaline soils; tolerates poor drainage; pinkish, peeling bark
* <i>Betula papyifera</i> ^{RF}	Paper Birch	M	Oval	Cool, moist soil; white, peeling bark; golden yellow fall color; pest or disease problem
<i>Betula pendula</i> "Gracilis"	Cutleaf European Birch	M	Weeping	Cool, moist soil; dissected leaves; yellow fall color; pests & disease
<i>Betula platyphylla japonica</i>	Japanese White Birch	M	Pyramidal	White bark; some resistance to bronze birch borer
<i>Cercidiphyllum japonicum</i>	Katsuratreer	M	Columnar	Moist soil; dioecious; form controlled by pruning, wide spreading if multi-trunked; yellow to red fall color
<i>Cladrastis lutea</i>	American Yellowwood	S	Round	Moist, rich soil; smooth, light gray bark; fragrant, white June flowers in large clusters; yellow fall color
<i>Magnolia acuminata</i>	Cucumbertree	F	Pyramidal	Inconspicuous, greenish flowers; pink to red fruits; coarse foliage; no fall color
* <i>Nyssa sylvatica</i>	Black Gum	S	Pyramidal	Moist soil; tolerates poor drainage; dense habit; dioecious; orange to scarlet fall color; difficult to transplant
<i>Phellodendron amurense</i>	Amur Corktree	M	Round	Urban; dry soil; dioecious; compound leaves; corky bark; yellow fall color
<i>Prunus maackii</i>	Amur Chokecherry	M	Round	Amber exfoliating bark; does well in containers
<i>Prunus padus commutata</i>	Harbinger European Bird Cherry	S	Round	Sun; early to leaf out in spring; pest or disease problem

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Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
*Prunus pennsylvanica ^{RF}	Pin Cherry	M	Upright	Poor, dry soil; sun; graceful; short-lived; suckering; red fruits; orange to red fall color
Prunus sargentii	Sargent Cherry	M	Upright	Sun, well-drained soil; early, pink flowers; red fall color
Salix alba tristis	Golden Weeping Willow	F	Weeping	Wet soil; tolerates poor drainage; bright yellow twigs; fine-textured; litter problem
Ulmus parvifolia	Chinese Elm	M	Vase	Disease resistant; exfoliating bark

Detailed Classification of Plant Species: Low Deciduous Trees (10 landscaping points)

Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
Acer ginnala	Amur Maple	M	Round	Sun, shade; red fruit; red fall color
*Alnus rugosa	Speckled Alder	F	Round	Wet soil; tolerates poor soil; lenticeled bark
*Amelanchier arborea ^{RF}	Downy Serviceberry	S	Upright	Dry soil; shade; gray bark; white flowers; yellow to red fall color; edible fruits
Amelanchier x grandiflora	Apple Serviceberry	S	Spreading	Semi-shade; large, white flowers, edible fruits
*Amelanchier laevis	Allegany Serviceberry	S	Upright	Moist soil; shade; white flowers; orange to red fall color, edible fruits
*Carpinus caroliniana ^{RF}	American Hornbeam	S	Spreading	Moist soil; shade; smooth, gray muscle-like trunks; orange fall color
Cercis canadensis	Eastern Redbud	M	Spreading	Sun or shade; purplish-pink flowers; yellow fall color; purchase form northern source
*Cornus alternifolia	Pagoda Dogwood	M	Spreading	Cool, moist soil; shade; blue-black berries on red stalks; early, maroon fall color
*Crataegus crus-galli "Inermis"	Thornless Cockspur Hawthorn		Spreading	Urban; sun; persistent, brick red fruits; orange to red fall color; no thorns
Crataegus laevigata "Paulii"	Paul's Scarlet Hawthorn	S	Upright	Heavy soil; sun; double, scarlet flowers in late May; no fall color; pest or disease problem
"Superba"	Crimson Cloud			Single, scarlet flowers; resistant

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Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
	Hawthorn			to leaf spot
<i>Crataegus x lavalleyi</i>	Lavalle Hawthorn	S	Upright	Urban; sun; glossy foliage; bronzy-red fall color
* <i>Crataegus mollis</i>	Downy Hawthorn	S	Upright	Sun; large, red, early-ripening fruit; yellow fall color; pest or disease problem
<i>Crataegus phaenopyrum</i>	Washington Hawthorn	M	Upright	Urban; sun; latest blooming; small, persistent, orange-red fruits in clusters; orange fall color
* <i>Crataegus punctata</i>	Dotted Hawthorn	S	Spreading	Moist, heavy soil; sun; picturesque; pest or disease problem may limit use
<i>Crataegus x</i> "Toba"	Toba Hawthorn	S		Sun; double, pink, fragrant flowers; glossy leaves; red fruits; dwarf-15
<i>Elaeagnus angustifolia</i>	Russianolive	F	Round	Dry, alkaline soil; sun; fragrant, inconspicuous flowers; silver-gray foliage; no fall color; pest or disease problem may limit use
<i>Magnolia x loebneri</i> "Merrill"	Dr. Merrill Magnolia	M	Pyramidal	Rich soil; sun; white, many-petaled flowers; difficult to transplant
<i>Magnolia x soulangiana</i>	Saucer Magnolia	S	Round	Rich soil; sun; large pink flowers; difficult to transplant
<i>Malus</i> species and cultivars	Flowering Crabapples			All require sun and well-drained soil; all possess a high degree of resistance to the apple scab disease
"Adams"	Adams Flowering Crabtree	M	Spreading	Slightly susceptible to fire blight; rose-red flowers; 5/8-inch dia., persistent, deep red fruits
<i>Malus baccata jackii</i>	Jack Flowering Crabtree	M	Upright spreading	Slightly susceptible to fire blight; white flowers; tiny 1/3- to 1/2-inch dia., dark red fruits
"Bob White"	Bob White Flowering Crabtree	M	Rounded	Moderately susceptible to fire blight; white flowers; 5/8-inch diameter persistent, yellow fruits
"Candied Apple"	Weeping Candied Apple Flowering Crabtree		Weeping	Slightly susceptible to scab; pink flowers; 5/8-inch diameter persistent cherry-red fruits; foliage tinged with red

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Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
“Centurian”	Centurian Flowering Crabtree		Narrow-upright	Disease resistant; rose-red flowers; 5/8-inch diameter persistent, cherry-red fruits
“David”	David Flowering Crabapple	M	Rounded	Slightly susceptible to fire blight and scab; white glowers; ¼- to 1 ½-inch diameter reddish fruits in alternate years
“Dolgo”	Dolgo Flowering Crabtree	M	Upright-Spreading	Slightly susceptible to fire blight and scab; white flowers; 1 ¼ to 1 ½-inch diameter persistent red fruits
“Donald Wyman”	Donald Wyman Flowering Crabtree	M	Rounded	Disease-resistant; white flowers; 3/8-inch diameter; persistent red fruits
“Dorothea”	Dorothea Flowering Crabtree	S	Horizontal	Moderately susceptible to scab; clear pink semi-double flowers; ½-inch diameter, yellow fruits
“Gibb’s Golden Gage”	Gibb’s Golden Gage Flowering Crabtree		Rounded	Disease resistant; white flowers; 1-inch diameter persistent, yellow fruits
“Indian Summer”	Indian Summer Flowering Crabtree		Rounded	Disease resistant; rose-red flowers; 5/8- to ¾-inch diameter, red fruits
“Mary Potter”	Mary Potter Flowering Crabtree	S	Horizontal	Moderately susceptible to fire blight and scab; white flowers; ½-inch diameter, red fruits; 10 foot height
“Ormiston Roy”	Ormiston Roy Flowering Crabtree	M	Rounded	Slightly susceptible to fire blight; white flowers, 3/8-inch diameter, persistent, yellow fruits
“Profusion”	Profusion Flowering Crabtree	M	Rounded-Spreading	Slightly susceptible to fire blight; rose-red flowers; 1/2-inch diameter, deep red fruits; bronze green foliage
“Red Jewel”	Red Jewel Flowering Crabtree		Horizontal	Moderately susceptible to scab; white flowers; 1/2-inch diameter, persistent, bright red fruits
“Robinson”	Robinson Flowering Crabtree		Upright-Spreading	Disease resistant; rose-red flowers; 3/8-inch diameter, persistent, bright red fruits, bronze-green foliage

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Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
“Sentinel”	Sentinel Flowering Crabtree		Narrow-upright	Slightly susceptible to fire blight and scab; pale pink flowers; 1/2-inch diameter, persistent, bright red fruits
“White Cascade”	White Cascade Flowering Crabtree	S	Weeping	Disease-resistant; white flowers, 1/2-inch diameter, yellowish fruits
* <i>Ostrya virginiana</i> ^{RF}	Hophornbeam	S	Pyramidal	Dry soil; shade; catkins; elm-like leaves; yellow fall color
* <i>Prunus americana</i> ^{RF}	American Plum	F	Horizontal	Dry soil; sun; suckering habit; white flowers; yellow to orange fall color
* <i>Prunus cerasifera</i> “Newportii”	Newport Plum	M	Round	Sun; reddish-purple summer foliage
* <i>Prunus virginiana</i> ^{RF}	Chokecherry	M	Upright	Dry soil; sun; suckering habit; white flowers; yellow to orange fall color
“Canada Red” or “Shubert”	Shubert Chokecherry			Sun; foliage changes from green to purple in early summer
<i>Pyrus calleryana</i> and cultivars	Callery Pear	M	Oval	Sun; early, white flowers; late red fall color
<i>Salix matsudana</i> “Tortuosa”	Corkscrew or Contorted Willow	F	Upright	Wet soil; tolerates poor drainage; sun; twisted branches; pest or disease problem may limit use
<i>Salix pentandra</i>	Laurel Willow	M	Round	Wet soil; sun; foliage glossy, dark green; dense habit
<i>Sorbus alnifolia</i>	Korean Mountainash	S	Oval	Cool soil; simple leaves; small flowers and fruits; orange to red fall color; pest or disease problem
<i>Sorbus aucuparia</i> and cultivars	European Mountainash	M	Oval	Cool soil; orange fruits; pest or disease problem
* <i>Sorbus decora</i>	Showy Mountainash	S	Upright	Cool Soil; large, reddish fruits; pest or disease problem
<i>Syringa reticulata</i>	Japanese Tree Lilac	S	Horizontal	Sun; large, pyramidal, cream-white flower clusters in June; tan fruits

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Detailed Classification of Plant Species: Tall Evergreen Trees (40 landscaping points)

Botanical Name	Common Name	Growth Rate	Height	Adaptation and Remarks
<i>Abies concolor</i>	White Fir	M	70 feet	Dry soil; heat; gray-green foliage
<i>Picea abies</i>	Norway Spruce	F	75 feet	Deep soil; dark green foliage; long cones; pendulous branchlets
* <i>Picea glauca</i> ^{RF}	White Spruce	M	50 feet	Moist soil; sun; light green needles
<i>Picea omorika</i>	Serbian Spruce	S	50 feet	Sun; narrow habit; pendulous branchlets
<i>Picea pungens glauca</i>	Blue Colorado Spruce	S	60 feet	Sun; urban; blue needles; stiff, formal habit
<i>Pinus cembra</i>	Swiss Stone Pine	S	50 feet	Sun; narrow habit
<i>Pinus nigra</i>	Austrian pine	M	50 feet	Sun; urban; stout, dark green needles, pest or disease problem
* <i>Pinus resinosa</i> ^{RF}	Red Pine	F	50 feet	Dry soil; sun; reddish bark; yellow-green winter color
* <i>Pinus strobus</i> ^{RF}	Eastern White Pine	M	75 feet	Moist soil; sun; picturesque; soft, green foliage, pest or disease problem
<i>Pinus sylvestris</i>	Scots Pine	F	50 feet	Dry soil; sun; orange bark; bluish needles
<i>Pseudotsuga menziesii</i>	Douglas Fir	M	70 feet	Half-shade; flat, dark green needles
* <i>Tsuga Canadensis</i> ^{RF}	Canada Hemlock	M	75 feet	Moist soil; soft, feathery foliage

Detailed Classification of Plant Species: Medium Evergreen Trees (20 landscaping points)

Botanical Name	Common Name	Growth Rate	Height	Adaptation and Remarks
* <i>Thuja occidentalis</i> ^{RF}	American Arborvitae	M	40 feet	Wet soil; half-shade; light green, soft, scale-like foliage

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Detailed Classification of Plant Species: Low Evergreen Trees (12 landscaping points)

Botanical Name	Common Name	Growth Rate	Height	Adaptation and Remarks
<i>Juniperus chinensis</i> "Keteleeri"	Keteleer Juniper	S	20 feet	Dry soil; sun; green foliage; large fruits
<i>Juniperus chinensis</i> "Mountbatten"	Mountbatten Juniper	S	20 feet	Dry soil; sun; narrow, columnar form; large fruits
* <i>Juniperus virginiana</i> ^{RF}	Eastern Red Cedar	S	20 feet	Dry soil; sun; brownish winter color
"Burkii"	Burke Eastern Red Cedar			Fine-textured, gray-green foliage
"Canaertii"	Canaert Eastern Red Cedar			Dark green, tufted foliage
"Glauca"	Silver Eastern Red Cedar			Silver-gray foliage; informal habit
"Hillii"	Hill Dundee Eastern Red Cedar			Gray-green foliage turns purple in winter, no fruits
* <i>Picea glauca</i> ^{RF} "Densata"	Black Hills Spruce	S	20 feet	Dry soil; sun; narrow, dense habit
<i>Taxus cuspidata</i>	Japanese Yew	S	20 feet	Shade; urban, deep green needles; often sold as <i>Taxus cuspidata</i> "Capitata"
* <i>Thuja occidentalis</i> ^{RF} "Fastigiata"	Pyramidal Arborvitae	M	25 feet	Narrow columnar form
* <i>Thuja occidentalis</i> ^{RF} "Techny"	Techny Arborvitae	S	20 feet	Deep green foliage, year round

Detailed Classification of Plant Species: Tall Deciduous Shrubs (5 landscaping points)

Botanical Name	Common Name	Form	Adaptation and Remarks
* <i>Amelanchier</i> sp (See also low trees)	Serviceberry	Upright	Shade; alkaline soil; white flowers; edible purple fruits; smooth, gray bark; yellow to orange fall color; fire blight a problem
<i>Caragana arborescens</i>	Siberian Peashrub	Erect, Oval	Dry, alkaline soils; yellow flowers; green twig
<i>Chionanthus virginicus</i>	Fringetree	Spreading	Moist soil; shade; white flowers; blue fruits; coarse
* <i>Cornus alternifolia</i>	Pagoda Dogwood	Spreading	Moist soil; shade; white flowers; blue fruits; horizontal branches; early, maroon fall color

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Botanical Name	Common Name	Form	Adaptation and Remarks
Cornus mas	Corneliancherry Dogwood	Oval	Shade; urban; yellow flowers in April; flower buds may be injured or killed during some winters; edible red fruits
*Cornus racemosa	Gray Dogwood	Erect	Dry or wet soils; shade; white flowers; white fruits; purple fall color
Cornus sericea	Red Osier Dogwood	Spreading	Wet, moist soils; tolerates poor drainage; white flowers; white fruits; red twigs; often sold as C. stolonifera
Cornus sericea baileyi	Bailey Red Osier Dogwood	Erect	
Cotoneaster multiflora	Many-flowered Cotoneaster	Mounded	Sun; well-drained soil; white flowers; red fruits; very wide-spreading; pests/diseases
Elaeagnus umbellata	Autumn olive	Spreading	Poor, dry soil; sun; fragrant flowers; edible, red fruits; twiggy
Euonymus alata	Winged Euonymus	Spreading	Sun or shade; well-drained soil; corky, winged twigs; pink to rose fall color
*Euonymus atropurpurea	Eastern Wahoo	Tree-like	Moist soil; shade; tiny, purplish flowers; orange to purple fall color
Euonymus europaea	Spindletree of European Euonymus	Tree-like	Dry-soil; urban, striped bark; persistent pink fruit; orange to purple fall color
“Aldenhamensis”	Aldenham European Euonymus		Bright pink fruit; shrubby form
“Redcap”	Redcap European Euonymus		Bright red fruit
Exochorda racemosa	Pearlbush	Leggy	Sun; pearl-like flower buds; tan fruit capsules
*Hamamelis virginiana	Common Witchhazel	Spreading	Shade; yellow October flowers
Hydrangea paniculata “Grandiflora”	Peegee Hydrangea	Upright	Moist soil; white to pink flowers in August; persistent, tan flower clusters
Kolkwitzia amabilis	Beautybush	Upright	Alkaline soil; sun; pink flowers in June; shredded bark; leggy
Ligustrum amurense	Amur Privet	Erect	Dry soil; white flowers; black fruits; hedge plant
Ligustrum vulgare “Cheyenne”	Cheyenne Privet	Erect	Dry soil; urban; white flowers; black fruits; hedge plant
Lonicera x bella “Candida”	White Belle Honeysuckle	Upright- mounded	Dry soil; white flowers; red fruits; may become weedy, pest problem

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Botanical Name	Common Name	Form	Adaptation and Remarks
<i>Lonicera tatarica zabelii</i>	Zabel Honeysuckle	Rounded	Dry soil; urban; red flowers; dense, red fruits; may become weedy, pest or disease problem, may be sold as <i>L. korolkowii zabelii</i>
<i>Magnolia stellata</i>	Star Magnolia	Rounded	Rich soil; white flowers; orange fruits; finest textured magnolia
* <i>Physocarpus opulifolius</i>	Eastern Ninebark	Vase	Dry soil; semi-shade; white flowers; red, capsular fruit; shredded bark; course
<i>Prunus tomentosa</i>	Manchu Cherry	Rounded	Dry soil; sun; white flowers; edible, red fruits
<i>Prunus triloba</i>	Double Flowering Plum	Rounded	Sun; double, pink flowers; no fruit
<i>Rhamnus frangula</i> "Columnaris"	Tallhedge Glossy Buckthorn	Columnar	Moist soil; shade; red to black fruits; holds leaves late
* <i>Rhus glabra</i>	Smooth Sumac	Suckering	Dry soil; sun; persistent red fruits; smooth stems; scarlet fall color
<i>Rhus typhina</i>	Staghorn Sumac	Suckering	Dry soil; sun; persistent red fruits; felty stems; orange to red fall color
<i>Rhus typhina</i> "Dissect"	Shredleaf Staghorn Sumac	Picturesque	Dry soil; sun; red fruits; dissected leaves, orange to red in fall
<i>Salix caprea</i>	Goat Willow or French Pussy Willow	Oval	Wet or dry soil; sun; large silver catkins in early spring
<i>Shepherdia argentea</i>	Buffaloberry	Irregular	Dry soil; sun; yellowish flowers; dioecious; edible red fruits; silvery foliage
* <i>Staphylea trifolia</i>	American Bladdernut	Upright	Moist soil; shade; whitish flowers; green to brown, bladder-like fruits; white-striped bark
<i>Syringa x chinensis</i>	Chinese Lilac	Vase	Dry, alkaline soil; purple-lilac flowers; fine texture
<i>Syringa x hyacinthiflora</i> cvs	Hyacinth Lilacs	Upright	Sun; white, pink, lilac, purple flowers; early blooming
<i>Syringa x prestoniae</i> cvs	Preston Lilacs	Rounded	Sun; pink to purple flowers; late-blooming; coarse textured
<i>Syringa reticulata</i>	Japanese Tree Lilac	Tree-like	Sun; white flowers in June; tan fruits; cherry-like bark; often sold as <i>S. amurensis japonica</i>
<i>Syringa vulgaris</i> cvs	Common Lilac	Upright	Well-drained soil; sun; white, pink, lilac, purple, fragrant flowers; pest or disease problem may limit use
<i>Tamarix ramosissima</i>	Tamarisk	Irregular	Dry soil; sun; tiny, pink flowers; very fine texture; often sold as <i>T. pentandra</i>

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Botanical Name	Common Name	Form	Adaptation and Remarks
Viburnum dentatum	Arrowwood Viburnum	Vase	Moist soil; shade; white flowers in June; blue fruits; maroon fall color
Viburnum lantana	Wayfaringtree Viburnum	Upright	Dry soil; shade; white flowers; red to black fruits; late maroon fall color
*Viburnum lentago	Nannyberry Viburnum	Upright	Moist or dry soil; sun or shade; white flowers; black fruits; leggy; maroon fall color; pest or disease problem
*Viburnum prunifolium	Blackhaw Viburnum	Spreading	Dry soil; shade; white flowers; black fruits; single or multi-trunked; maroon fall color
Viburnum sieboldii	Siebold Viburnum	Tree-like	Rich soil; white flowers; red to black fruits; large, coarse leaves
Viburnum trilobum	American Cranberrybush Viburnum	Upright	Moist soil; shade; lacy, white flowers; persistent, edible fruits

Detailed Classification of Plant Species: Medium Deciduous Shrubs (3 landscaping points)

Botanical Name	Common Name	Form	Adaptation and Remarks
Aronia arbutifolia	Red Chokeberry	Erect	Wet soil; shade; tolerates poor drainage; white flowers; red fruits; red fall color
Cornus alba "Argenteomarginata"	Creamedge Dogwood	Mounded	Moist soil; white flowers; white fruit; variegated foliage
*Corylus americana	American Filbert or Hazelnut	Rounded	Dry soil; shade; catkins in March; orange fall color
Cotoneaster divaricatus	Spreading Cotoneaster	Mounded	Dry alkaline soil; red fruits; fine texture; late maroon fall color; not fully hardy in zone indicated—needs a special site or ideal conditions
Cotoneaster lucidus	Hedge Cotoneaster	Upright	Dry soil; shade; black fruits; orange to maroon fall color; good hedge plant; C. acutifolius is similar
Euonymus alatus "Compacta"	Dwarf Winged Euonymus	Spreading	Sun or shade; pink and orange fruits; red fall color
Forsythia x intermedia cvs	Border Forsythia	Vase	Sun; urban; large, pale to yellow flowers; flower buds may be injured or killed at temperatures lower than – 14° F.
Forsythia ovata	Early Forsythia	Mounded	Sun; urban; smaller, earlier, yellow flowers; flower buds may be injured or killed at temperatures lower than – 25° F.
Forsythia suspensa	Weeping Forsythia	Mounded	Sun; urban; yellow flowers; slender, drooping twigs; flower buds may be injured or killed at temperatures lower than -15° F.

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Botanical Name	Common Name	Form	Adaptation and Remarks
* <i>Ilex verticillata</i>	Winterberry	Upright	Wet, acid soil; tolerates poor drainage; dioecious; red fruits
<i>Ligustrum obtusifolium regelianum</i>	Regel's Border Privet	Spreading	Dry soil; shade; white flowers; blue-black fruits; late, purple fall color
<i>Malus sargentii</i> "Tina"	Sargent Crabapple	Spreading	Disease resistant; 5-foot mature height
<i>Myrica pensylvanica</i>	Bayberry	Upright	Dry soil; sun; gray, fragrant fruits; dioecious; semi-evergreen; suckering
<i>Philadelphus x virginalis</i> "Glacier"	Glacier Mockorange	Rounded	Sun; double, white, fragrant flowers
<i>Prunus x cistena</i>	Purple-leaved Sand Cherry	Rounded	Dry soil; sun; white flowers; purple foliage all season
<i>Rhodotypos scandens</i>	Jetbead	Spreading	Dry soil; shade; white flowers; sparse red fruits; fine texture
<i>Rosa hugonis</i>	Father Hugo Rose	Vase	Poor soil; sun; yellow flowers; sparse red fruits; fine texture
<i>Rosa rugosa</i> cvs	Rugosa Rose	Rounded	Dry soil; sun; white, yellow, pink, or red flowers; large edible red fruits; fall color; wrinkled leaves; tolerant of salt
* <i>Rosa setigera</i>	Prairie Rose	Sprawling-mounded	Sun; pink flowers in July; red fruits; orange fall color; can be used as a climber
<i>Spiraea prunifolia</i>	Bridalwreath Spirea	Upright	Sun; double, white flowers; orange to red fall color
<i>Spiraea thunbergii</i>	Thunberg Spirea	Vase	Sun; white flowers; yellow to orange fall color; fine-textured
<i>Spiraea x vanhouttei</i>	Vanhoutte Spirea	Vase	Sun; white flowers; arching branches
<i>Syringa meyeri</i> "Palibin"	Palibin Lilac	Rounded	Sun; purple flowers; dense; fine-textured; good informal hedge plant often sold as <i>S palibiniana</i>
<i>Viburnum carlesii</i>	Koreanspice Viburnum	Rounded	Shade; urban; pink to white, fragrant flowers; blue-black fruits; red fall color
* <i>Viburnum cassinoides</i>	Witherod Viburnum	Rounded	Wet, acid soil; tolerates poor drainage; white flowers; pink to red to blue fruits; red fall color
<i>Weigela florida</i>	Old-fashioned Weigela	Spreading	Well-drained soil; pink, funnel-shaped flowers
<i>Weigela x "Vanicekii"</i>	Vanicek Weigela	Spreading	Well-drained soil; red flowers

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Detailed Classification of Plant Species: Low Deciduous Shrubs (1 landscaping point)

Botanical Name	Common Name	Form	Adaptation and Remarks
<i>Acanthopanax sieboldianus</i>	Fiveleaf Aralia	Upright	Dry soil; shade; urban; leaves palmately compound; thorny
* <i>Amelanchier stolonifera</i>	Running Serviceberry	Suckering	Dry soil; shade; white flowers; edible fruits; orange fall color
* <i>Aronia melanocarpa</i>	Black Chokeberry	Suckering	Wet soil; shade; white flowers; black fruits; red fall color
<i>Berberis thunbergii</i>	Japanese Barberry	Mounded	Dry soil; shade; red fruits; orange fall color; thorns; good hedge plant
“ <i>Atropurpurea</i> ”	Redleaf Japanese Barberry		Sun; red summer foliage
Crimson Pygmy”	Crimson Japanese Barberry	Low-mound	Sun; red summer foliage; 2-foot tall
<i>Buxus microphylla koreana</i>	Korean Littleleaf Box	Rounded	Shade; broadleaf evergreen; good hedge plant
<i>Chaenomeles japonica alpina</i>	Dwarf Japanese Floweringquince	Spreading	Dry soil; urban; orange flowers; yellow, edible fruits; dense; 1-foot tall; flower buds may be injured or killed during some winters
<i>Cotoneaster apiculatus</i>	Cranberry Cotoneaster	Mounded	Dry soil; red fruits; red fall color
<i>Deutzia x lemoinei</i> “ <i>Compacta</i> ”	Compact Lemoine Deutzia	Rounded	Well-drained soil; white flowers
* <i>Diervilla lonicera</i>	Dwarf Bushhoneysuckle	Mounded	Dry soil; shade; yellow flowers; good bank cover
<i>Forsythia viridissima</i> “ <i>Bronxensis</i> ”	Bronx Forsythia	Low-mound	Sun; small yellow flowers; fine texture; purple fall color
<i>Hydrangea arborescens</i> “ <i>Annabelle</i> ”	Annabelle Hydrangea	Mounded	Moist soil; shade; white, clustered flowers; dense; blooms on new wood
<i>Hydrangea arborescens</i> “ <i>Grandiflora</i> ”	Snowhill Hydrangea	Mounded	Smaller flower clusters and less dense than <i>Hydrangea arborescens</i> “ <i>Annabelle</i> ”
* <i>Hypericum kalmianum</i>	Kalm’s St Johnswort	Rounded	Dry soil; sun; yellow flowers; shiny brown twigs
<i>Lonicera x xylosteoides</i> “ <i>Clavey’s Dwarf</i> ”	Clavey’s Dwarf Honeysuckle	Rounded	Dense growth; good hedge or screening plant
<i>Lonicera xylosteum</i> “ <i>Nanum</i> ”	Emerald Mound Honeysuckle	Mounded	Lower growing than preceding; 2 to 3 feet

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Botanical Name	Common Name	Form	Adaptation and Remarks
Mahonia aquifolium "Mayhan"	Mayhan Oregongrape	Suckering	Shade; urban; yellow flowers; blue fruits; hollylike evergreen foliage; not fully hardy in zone, need special site or ideal conditions
Philadelphus coronarius "Aureus"	Golden Mockorange	Rounded	Sun; white flowers; yellow summer foliage
Philadelphus x lemoinei "Mont Blanc"	Mont Blanc Mockorange	Mounded	Sun; single; white, fragrant flowers; dense
Physocarpus opulifolius "Nanus"	Dwarf Common Ninebark	Rounded	Dry soil; shade; creamy-white flowers; red capsular fruits; shredded bark
*Potentilla fruticosa cvs	Bush Cinquefoil	Mounded	Dry soil; sun; yellow and white flowers; blooms all summer
Prunus glandulosa "Sinensis"	Pink Dwarf Floweringalmond	Rounded	Sun; light soil; double, pink flowers; no fruits; narrow leaves
Rhododendron x kosteranum	Mollis Hybrid Azaleas	Spreading	Moist, acid soil; pink flowers; red fall color
Rhododendron x "PJM Hybrid"	PJM Hybrid Rhododendron	Rounded	Moist, acid soil; shade; lavender flowers; evergreen leaves turn purple in autumn
*Rhus aromatica	Fragrant Sumac	Mounded	Dry soil; sun; red fruits; fragrant foliage; turns orange-maroon in fall
"Gro-Low"	Gro-low Fragrant Sumac		Uniform 2 ½-foot height; glossy leaves
Ribes alpinum	Alpine Currant	Rounded	Shade; urban; good hedge plant
Rosa virginiana	Virginia Rose	Suckering	Dry soil; pink flowers; red fruits; red stems; good bank cover
Salix repens argentea	Silver Creeping Willow	Spreading	Moist soil; sun; silvery foliage
Spiraea x arguta "Compacta"	Compact Garland Spirea	Mounded	Sun; white flowers; fine texture
Spiraea x billiardii	Billiard Spirea	Upright	Sun; pink flowers in July and August
Spiraea x bumalda "Anthony Waterer"	Anthony Waterer Spirea	Rounded	Dry soil; sun; raspberry red flowers; unattractive fruits
Spiraea x bumalda "Froebelli"	Froebel Spirea	Rounded	Dry soil; sun; raspberry red flowers; orange to maroon fall color
Spiraea japonica alpina	Daphne Spirea	Low-mound	Sun; pale pink flowers in July; 10-inch height
Spiraea nipponica "Snowmound"	Snowmound Spirea	Mounded	Sun; white flowers; blue-green foliage; possible disease problem
Symphoricarpos rivularis	Snowberry	Vase	Dry soil; shade; tiny pink flowers; showy white fruits; often sold as S. albus laevigatus

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Botanical Name	Common Name	Form	Adaptation and Remarks
<i>Symphoricarpos orbiculatus</i>	Indiancurrant Coralberry	Suckering	Dry soil; shade; pink fruits; good bank cover
<i>Viburnum opulus</i> "Compactum"	Compact European Cranberrybush Viburnum	Rounded	Shade; white flowers; persistent, red fruit; dense habit
<i>Viburnum opulus</i> "Nanum"	Dwarf European Cranberrybush Viburnum	Globe	Shade; no flowers or fruits; twiggy

Detailed Classification of Plant Species: Tall to Medium Evergreen Shrubs (5 landscaping points)

Botanical Name	Common Name	Height	Form	Adaptation and Remarks
<i>Juniperus chinensis</i>				
"Ames"	Ames Juniper	9 feet	Broad pyramid	Sun; bluish green foliage
"Blaauw"	Blaauw Juniper	4 feet	Upright-vase	Sun; grayish blue foliage
"Herzii"	Herz Blue Juniper	15 feet	Ascending-spreading	Sun; silvery blue foliage
"Maney"	Maney Juniper	6 feet	Upright, bushy	Sun; bluish green foliage
"Old Gold"	Old Gold Juniper	4 feet	Spreading	Sun; green with gold tips
"Pfitzerana"	Pfitzer Juniper	6 feet	Wide-spreading	Sun; green foliage; no fruits
"Pfitzerana Glauca"	Blue Pfitzer Juniper	5 feet	Spreading	Sun; blue-gray foliage
* <i>Juniperus communis depressa</i>	Oldfield Common Juniper	4 feet	Spreading	Dry soil; sun; light green; brownish in winter
<i>Juniperus sabina</i> "Von Ehren"	Von Ehren Savin Juniper	4 feet	Spreading	Dry soil; sun; light green; brownish in winter
<i>Juniperus squamata</i> "Meyeri"	Meyer Singleseed Juniper	5 feet	Picturesque	Sun; blue foliage
<i>Picea glauca</i> ^{RF} "Conica"	Dwarf Alberta Spruce	7 feet	Pyramidal	Shelter from winter sun; light green foliage
<i>Pinus mugo</i>	Mugo Pine	4 feet	Mounded	Dry soil; sun; green foliage
<i>Taxus cuspidata</i> "Expansa"	Spreading Japanese Yew	6 feet	Spreading	Shade; urban; dark green foliage; needs ideal conditions

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Botanical Name	Common Name	Height	Form	Adaptation and Remarks
Taxus cuspidata “Nana”	Dwarf Japanese Yew	4 feet	Mounded	Shade; urban very dark green foliage; needs ideal conditions
Taxus x hunnewelliana	Hunnewell Yew	6 feet	Spreading	Shade; green
Taxus x media cvs	Anglojapanese Yew	1-10 feet	Round or upright	Shade; very dark green; needs ideal conditions
Thuja occidentalis ^{RF} “Robusta”	Ware American Arborvitae	8 feet	Broad Pyramid	Wet soil; half-shade; dark green foliage; often sold as T. o. “Wareana”
Thuja occidentalis ^{RF} “Woodwardii”	Woodward Globe American Arborvitae	6 feet	Globe	Wet soil; half-shade; bright green

Detailed Classification of Plant Species: Low Evergreen Shrubs (3 landscaping points)

Botanical Name	Common Name	Height	Form	Adaptation and Remarks
Juniperus chinensis procumbens	Japanese Garden Juniper	2 feet	Creeping	Sun; blue-green, year-round foliage
Juniperus chinensis sargentii	Sargent Juniper	1 foot	Creeping	Sun; green; or blue-green in cv “Glauca”
*Juniperus horizontalis	Creeping Juniper	1 foot	Creeping	Dry soil; sun; variable color-brown in winter
“Bar Harbor”	Bar Harbor Juniper	8 inches	Creeping	Dry soil; sun; bluish green foliage; slaty in winter
“Douglasii”	Waukegan Juniper	18 inches	Creeping	Dry soil; sun; steel blue; purplish in winter
“Plumosa”	Andorra Juniper	18 inches	Radial- creeping	Dry soil; sun; gray-green; purplish in winter
“Prince of Wales”	Prince of Wales Juniper	4-6 inches	Prostrate	Dry soil; sun; bright green; bronzed in winter
“Wiltonii”	Blue Rug Juniper	4-6 inches	Flat-trailing	Dry soil; sun; silvery blue
“Youngstown”	Youngstown Juniper	18 inches	Radial- creeping	Dry soil; sun; gray-green; purplish in winter
Juniperus sabina				
“Arcadia”	Arcadia Savin Juniper	18 inches	Low- spreading	Sun; green
“Broadmoor”	Broadmoor Savin Juniper	2 feet	Mounded	Sun; soft grayish green; fine textured

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Botanical Name	Common Name	Height	Form	Adaptation and Remarks
“Skandia”	Skandia Savin Juniper	12 inches	Low-spreading	Sun; grayish blue
“Tamariscifolia”	Tamarix Savin Juniper	2 feet	Dense, spreading	Sun; bluish green; pest or disease problem

Detailed Classification of Plant Species: Noncontributing Species (0 points)

Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
Acer negundo	Boxelder			Weed tree
	Buckthorn			Invasive
	Crown Vetch			Invasive ground cover; aggressive
Crataegus crus-galli	Cockspur Hawthorn	S	Spreading	Urban; sun; persistent, brick red fruits; orange to red fall color; evil thorns
*Gleditsia triacanthos ^{RF}	Common Honeylocust	F	Vase	Urban; tolerates poor drainage; salt tolerant; dioecious, females produce pods; fine-textured foliage; wicked thorns; yellow fall color; pest or disease problems may limit use
Lonicera x bella	Belle Honeysuckle			Dry soil, white flowers; red fruits; may become weedy, pest problem
Lonicera tatarica	Tatarian Honeysuckle			Dry soil; Urban, pink to white flowers; dense, red fruits; may become weedy, pest or disease problem
Lonicera morrowi	Morrow Honeysuckle			Urban, dense, white flowers, pest and disease problem, weedy
	Purple Loosestrife			Perennial, common marsh plant, may choke out native plants
Rhamnus cathartica	Common Buckthorn			Becomes weak
Rhamnus frangula	Glossy Buckthorn			Becomes weak

The following sources were used in compiling the preceding lists of plant species:

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