

ZONING

550 Attachment 6

City of Watertown

Appendix F

Detailed Classification of Plant Species

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

KEY:

* Wisconsin native

S = Slow

M = Medium

F = Fast

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	S		Native and very adaptable, salt-sensitive, fruit-nut, lawn tree
Ginkgo bilboa	Ginkgo		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
*Quercus macrocarpa ^{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

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Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
* <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

ZONING

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

KEY:

*Wisconsin native

S = Slow

M = Medium

F = Fast

Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
Acer nigrum	Black Maple	M	Oval	Does well in poor, dry soils; red to bright gold fall color; excellent for lawn, shade or street
Acer platanoides	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-foot height
"Greenlace"			Round	Deeply divided, fine-textured leaves
"Royal Red"		S	Round	Best for purple summer foliage
"Shwedleri"			Round	New foliage reddish; bronze by summer
"Summershade"		F		Rapidly growing cultivar; deep green, large, leathery leaves
*Acer rubrum ^{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"			Fastigiate	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

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Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
*Acer saccharinum ^{RF}	Silver Maple Soft Maple White Maple River Maple	F	Vase	Hearty 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
Aesculus hippocastanum	Horsechestnut	M	Round	Urban; coarse; showy, white May flowers; litter problem; no fall color; difficult to transplant; pest or disease problems may limit use
Alnus glutinosa	European Alder Black Alder	F	Oval	Rich or wet soils; produces catkins; possible winterkill
Betula lutea ^{RF}	Yellow Birch	M	Round	Drooping branches; moist well-drained soils; yellow-orange bark; rusty yellow fall color
Catalpa speciosa	Northern Catalpa	F	Oval	Poor, dry soil; showy, white June flowers; coarse; litter problem; no fall color
*Celtis occidentalis ^{RF}	Common Hackberry	M	Vase	Tolerates alkaline soils; "pebbled" bark; yellowish fall color; pest or disease problem may limit use
*Fagus grandifolia ^{RF}	American Beech	S	Oval	Moist, rich soil; smooth gray bark; yellow-bronze fall color; difficult to transplant; salt-sensitive; sensitive to soil compaction
Fagus sylvatica	European Beech	S	Round	Moist, rich soil; less difficult to transplant than American Beech; several cultivars available; excellent lawn tree
*Fraxinus americana ^{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
Fraxinus excelsior	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

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Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
"Hesseri"	Hesse European Ash		Round	Simple leaves
Fraxinus nigra ^{RF}	Black Ash	M	Irregular	Deep, rich, moist soils; tolerates wet soils; yellow fall color; scaly bark
Fraxinus pennsylvanica ^{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
*Gleditsia triacanthos inermius	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 may limit use
"Shademaster"			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
*Gymnocladus dioica	Kentucky Coffeetree	M	Upright	Moist, rich soil; coarse and rugged; dioecious; yellowish fall color
Juglans cinerea ^{RF}	Butternut	S		Needs good soil and consistent moisture; fairly good shade tree; susceptible to butternut decline
Larix decidua	European Larch	F	Pyramidal	Full sun; graceful, fine-textured; transplant in spring before buds open; yellow fall color
"Pendula"				Interesting weeping branches
Larix kaempferi	Japanese Larch	F	Wide-Pyramidal	Similar to European Larch, more picturesque
Larix laricina ^{RF}	American Larch Tamarack	M	Narrow-Pyramidal	Hardy; drought-tolerant; used in shelterbelts
Liriodendron tulipifera	Tuliptree	F	Upright	Rich, moist soil; unique leaves and interesting June flowers; yellow fall color; purchase from northern source

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Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
*Platanus occidentalis	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
Populus alba "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
Populus deltoides ^{RF}	Eastern Poplar	Very fast	Fastigate	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

ZONING

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

KEY:

* Wisconsin native

S = Slow

M = Medium

F = Fast

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

ZONING

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

KEY:

* Wisconsin native

S = Slow

M = Medium

F = Fast

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

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Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
*Crataegus punctata	Dotted Hawthorn	S	Spreading	Moist heavy soil; sun; picturesque; pest or disease problem may limit use
Crataegus x "Toba"	Toba Hawthorn	S		Sun; double pink fragrant flowers; glossy leaves; red fruits; dwarf-15
Elaeagnus angustifolia	Russianolive	F	Round	Dry alkaline soil; sun; fragrant inconspicuous flowers; silver-gray foliage; no fall color; pest or disease problem may limit use
Magnolia x loebneri "Merrill"	Dr. Merrill Magnolia	M	Pyramidal	Rich soil; sun; white many-petaled flowers; difficult to transplant
Magnolia x soulangiana	Saucer Magnolia	S	Round	Rich soil; sun; large pink flowers; difficult to transplant
Malus species and cultivars	Flowering Crabapples			All require sun and well-drained soil. They all possess a high degree of resistance to the apple scab disease
Malus "Adams"	Adams Flowering Crabtree	M	Spreading	Slightly susceptible to fire blight; rose-red flowers; 5/8-inch diameter, persistent, deep red fruits
Malus baccata jackii	Jack Flowering Crabtree	M	Upright spreading	Slightly susceptible to fire blight; white flowers; tiny 1/3- to 1/2-inch diameter, dark red fruits
Malus "Bob White"	Bob White Flowering Crabtree	M	Rounded	Moderately susceptible to fire blight; white flowers; 5/8-inch diameter, persistent yellow fruits
Malus "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
Malus "Centurian"	Centurian Flowering Crabtree		Narrow-Upright	Disease resistant; rose-red flowers; 5/8-inch diameter, persistent cherry-red fruits
Malus "David"	David Flowering Crabapple	M	Rounded	Slightly susceptible to fire blight and scab; white flowers; 1/4- to 1 1/2-inch diameter, reddish fruits in alternate years
Malus "Dolgo"	Dolgo Flowering Crabtree	M	Upright-Spreading	Slightly susceptible to fire blight and scab; white flowers; 1 1/4- to 1 1/2-inch diameter, persistent red fruits
Malus "Donald Wyman"	Donald Wyman Flowering Crabtree	M	Rounded	Disease-resistant; white flowers; 3/8-inch diameter; persistent red fruits
Malus "Dorothea"	Dorothea Flowering Crabtree	S	Horizontal	Moderately susceptible to scab; clear pink semi-double flowers; 1/2-inch diameter, yellow fruits

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Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
Malus "Gibb's Golden Gage"	Gibb's Golden Gage Flowering Crabtree		Rounded	Disease-resistant; white flowers; 1-inch diameter, persistent, yellow fruits
Malus "Indian Summer"	Indian Summer Flowering Crabtree		Rounded	Disease-resistant; rose-red flowers; 5/8- to 3/4-inch diameter, red fruits
Malus "Mary Potter"	Mary Potter Flowering Crabtree	S	Horizontal	Moderately susceptible to fire blight and scab; white flowers; 1/2-inch diameter, red fruits; 10-foot height
Malus "Ormiston Roy"	Ormiston Roy Flowering Crabtree	M	Rounded	Slightly susceptible to fire blight; white flowers, 3/8-inch diameter, persistent, yellow fruits
Malus "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
Malus "Red Jewel"	Red Jewel Flowering Crabtree		Horizontal	Moderately susceptible to scab; white flowers; 1/2-inch diameter, persistent, bright red fruits
Malus "Robinson"	Robinson Flowering Crabtree		Upright-Spreading	Disease resistant; rose-red flowers; 3/8-inch diameter persistent bright red fruits; bronze-green foliage
Malus "Sentinel"	Sentinel Flowering Crabtree		Narrow-upright	Slightly susceptible to fire blight and scab; pale pink flowers; 1/2-inch diameter persistent bright red fruits
Malus "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, infertile soil; 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

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Botanical Name	Common Name	Growth Rate	Form	Adaptation and Remarks
Salix pentandra	Laurel Willow	M	Round	Wet soil; sun; foliage, glossy, dark green; dense habit
Sorbus alnifolia	Korean Mountainash	S	Oval	Cool soil; simple leaves; small flowers and fruits; orange to red fall color; pest or disease problem
Sorbus aucuparia and cultivars	European Mountainash	M	Oval	Cool soil; orange fruits; pest or disease problem
*Sorbus decora	Showy Mountainash	S	Upright	Cool soil; large, reddish fruits; pest or disease problem
Syringa reticulata	Japanese Tree Lilac	S	Horizontal	Sun; large pyramidal cream-white flower clusters in June; tan fruits

ZONING

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

KEY:

* Wisconsin native

S = Slow

M = Medium

F = Fast

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

WATERTOWN CODE

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

KEY:

* Wisconsin native

S = Slow

M = Medium

F = Fast

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

ZONING

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

KEY:

* Wisconsin native

S = Slow

M = Medium

F = Fast

Botanical Name	Common Name	Growth Rate	Height	Adaptation and Remarks
Juniperus chinensis "Keteleeri"	Keteleer Juniper	S	20 feet	Dry soil; sun; green foliage; large fruits
Juniperus chinensis "Mountbatten"	Mountbatten Juniper	S	20 feet	Dry soil; sun; narrow, columnar form; large fruits
*Juniperus virginiana ^{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
*Picea glauca ^{RF} "Densata"	Black Hills Spruce	S	20 feet	Dry soil; sun; narrow, dense habit
Taxus cuspidata	Japanese Yew	S	20 feet	Shade; urban, deep green needles; often sold as Taxus cuspidata "Capitata"
*Thuja occidentalis ^{RF} "Fastigiata"	Pyramidal Arborvitae	M	25 feet	Narrow columnar form
*Thuja occidentalis ^{RF} "Techny"	Techny Arborvitae	S	20 feet	Deep green foliage, year-round

WATERTOWN CODE

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

KEY:

* Wisconsin native

Botanical Name	Common Name	Form	Adaptation and Remarks
*Amelanchier sp. (See also low trees)	Serviceberry	Upright	Shade; alkaline soil; white flowers; edible purple fruits; smooth, gray bark; yellow to orange fall color; fireblight a problem
Caragana arborescens	Siberian Peashrub	Erect, Oval	Dry, alkaline soils; yellow flowers; green twig
Chionanthus virginicus	Fringetree	Spreading	Moist soil; shade; white flowers; blue fruits; coarse
*Cornus alternifolia	Pagoda Dogwood	Spreading	Moist soil; shade; white flowers; blue fruits; horizontal branches; early maroon fall color
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	Redosier Dogwood	Spreading	Wet, moist soils; tolerates poor drainage; white flowers; white fruits; red twigs; often sold as C. stolonifera
Cornus sericea baileyi	Bailey Redosier Dogwood	Erect	
Cotoneaster multiflora	Manyflowered Cotoneaster	Mounded	Sun; well-drained soil; white flowers; red fruits; very wide-spreading; pests/diseases
Elaeagnus umbellata	Autumnolive	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

ZONING

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

WATERTOWN CODE

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

ZONING

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

KEY:

* Wisconsin native

Botanical Name	Common Name	Form	Adaptation and Remarks
<i>Aronia arbutifolia</i>	Red Chokeberry	Erect	Wet soil; shade; tolerates poor drainage; white flowers; red fruits; red fall color
<i>Cornus alba</i> "Argenteomarginata"	Creamedge Dogwood	Mounded	Moist soil; white flowers; white fruit; variegated foliage
* <i>Corylus Americana</i>	American Filbert or Hazelnut	Rounded	Dry soil; shade; catkins in March; orange fall color
<i>Cotoneaster divaricatus</i>	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
<i>Cotoneaster lucidus</i>	Hedge Cotoneaster	Upright	Dry soil; shade; black fruits; orange to maroon fall color; good hedge plant; <i>C. acutifolius</i> is similar
<i>Euonymus alatus</i> "Compacta"	Dwarf Winged Euonymus	Spreading	Sun or shade; pink and orange fruits; red fall color
<i>Forsythia x intermedia</i> cvs.	Border Forsythia	Vase	Sun; urban; large, pale to yellow flowers; flower buds may be injured or killed at temperatures lower than -14° F.
<i>Forsythia ovata</i>	Early Forsythia	Mounded	Sun; urban; smaller, earlier yellow flowers; flower buds may be injured or killed at temperatures lower than -25° F.
<i>Forsythia suspensa</i>	Weeping Forsythia	Mounded	Sun; urban; yellow flowers; slender, drooping twigs; flower buds may be injured or killed at temperatures lower than -15° F
* <i>Ilex verticillata</i>	Winterberry	Upright	Wet, acid soil; tolerates poor drainage; dioecious; red fruits
<i>Ligustrum obtusifolium</i> <i>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

WATERTOWN CODE

Botanical Name	Common Name	Form	Adaptation and Remarks
Rhodotypos scandens	Jetbead	Spreading	Dry soil; shade; white flowers; sparse red fruits; fine texture
Rosa hugonis	Father Hugo Rose	Vase	Poor soil; sun; yellow flowers; sparse red fruits; fine texture
Rosa rugosa cvs.	Rugosa Rose	Rounded	Dry soil; sun; white, yellow, pink or red flowers; large edible red fruits; fall color; wrinkled leaves; tolerant of salt
*Rosa setigera	Prairie Rose	Sprawling - mounded	Sun; pink flowers in July; red fruits; orange fall color; can be used as a climber
Spiraea prunifolia	Bridalwreath Spirea	Upright	Sun; double white flowers; orange to red fall color
Spiraea thunbergii	Thunberg Spirea	Vase	Sun; white flowers; yellow to orange fall color; fine-textured
Spiraea x vanhouttei	Vanhoutte Spirea	Vase	Sun; white flowers; arching branches
Syringa meyeri "Palibin"	Palibin Lilac	Rounded	Sun; purple flowers; dense; fine-textured; good informal hedge plant often sold as S. palibiniana
Viburnum carlesii	Koreanspice Viburnum	Rounded	Shade; urban; pink to white fragrant flowers; blue-black fruits; red fall color
*Viburnum cassinoides	Witherod Viburnum	Rounded	Wet, acid soil; tolerates poor drainage; white flowers; pink to red to blue fruits; red fall color
Weigela florida	Old-fashioned Weigela	Spreading	Well-drained soil; pink, funnel-shaped flowers
Weigela x 'Vanicekii'	Vanicek Weigela	Spreading	Well-drained soil; red flowers

ZONING

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

KEY:

* Wisconsin native

Botanical Name	Common Name	Form	Adaptation and Remarks
Acanthopanax sieboldianus	Fiveleaf Aralia	Upright	Dry soil; shade; urban; leaves palmately compound; thorny
*Amelanchier stolonifera	Running Serviceberry	Suckering	Dry soil; shade; white flowers; edible fruits; orange fall color
*Aronia melanocarpa	Black Chokeberry	Suckering	Wet soil; shade; white flowers; black fruits; red fall color
Berberis thunbergii	Japanese Barberry	Mounded	Dry soil; shade; red fruits; orange fall color; thorns; good hedge plant
"Atropurpurea"	Redleaf Japanese Barberry		Sun; red summer foliage
"Crimson Pygmy"	Crimson Japanese Barberry	Low-mound	Sun; red summer foliage; 2-foot tall
Buxus microphylla koreana	Korean Littleleaf Box	Rounded	Shade; broadleaf evergreen; good hedge plant
Chaenomeles japonica alpina	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
Cotoneaster apiculatus	Cranberry Cotoneaster	Mounded	Dry soil; red fruits; red fall color
Deutzia x lemoinei "Compacta"	Compact Lemoine Deutzia	Rounded	Well-drained soil; white flowers
*Diervilla lonicera	Dwarf Bushhoneysuckle	Mounded	Dry soil; shade; yellow flowers; good bank cover
Forsythia viridissima "Bronxensis"	Bronx Forsythia	Low-mound	Sun; small yellow flowers; fine texture; purple fall color
Hydrangea arborescens "Annabelle"	Annabelle Hydrangea	Mounded	Moist soil; shade; white, clustered flowers; dense; blooms on new wood
Hydrangea arborescens "Grandiflora"	Snowhill Hydrangea	Mounded	Smaller flower clusters and less dense than Hydrangea arborescens "Annabelle"
*Hypericum kalmianum	Kalm's St. Johnswort	Rounded	Dry soil; sun; yellow flowers; shiny brown twigs
Lonicera x xylosteoides "Clavey's Dwarf"	Clavey's Dwarf Honeysuckle	Rounded	Dense growth; good hedge or screening plant
Lonicera xylosteum "Nanum"	Emerald Mound Honeysuckle	Mounded	Lower growing than preceding; 2-foot to 3-foot
Mahonia aquifolium "Mayhan"	Mayhan Oregongrape	Suckering	Shade; urban; yellow flowers; blue fruits; holly-like evergreen foliage; not fully hardy in zone - need special site or ideal conditions

WATERTOWN CODE

Botanical Name	Common Name	Form	Adaptation and Remarks
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 Flowering almond	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 "Froebelii"	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
Symphoricarpos orbiculatus	Indian currant Coralberry	Suckering	Dry soil; shade; pink fruits; good bank cover
Viburnum opulus "Compactum"	Compact European Cranberrybush	Rounded	Shade; white flowers; persistent red fruit; dense habit
Viburnum opulus "Nanum"	Dwarf European Cranberrybush Viburnum	Globe	Shade; no flowers or fruits; twiggy

ZONING

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

KEY:

* Wisconsin native

Botanical Name	Common Name	Height	Form	Adaptation and Remarks
Juniperus chinensis				
"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
*Juniperus communis depressa	Oldfield Common Juniper	4 feet	Spreading	Dry soil; sun; light green; brownish in winter
Juniperus sabina "Von Ehren"	Von Ehren Savin Juniper	4 feet	Spreading	Dry soil; sun; light green; brownish in winter
Juniperus squamata "Meyeri"	Meyer Singleseed Juniper	5 feet	Picturesque	Sun; blue foliage
Picea glauca ^{RF} "Conica"	Dwarf Alberta Spruce	7 feet	Pyramidal	Shelter from winter sun; light green foliage
Pinus mugo	Mugo Pine	4 feet	Mounded	Dry soil; sun; green foliage
Taxus cuspidata "Expansa"	Spreading Japanese Yew	6 feet	Spreading	Shade; urban; dark green foliage; needs ideal conditions
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

WATERTOWN CODE

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

KEY:

* Wisconsin native

Botanical Name	Common Name	Height	Form	Adaptation and Remarks
<i>Juniperus chinensis procumbens</i>	Japanese Garden Juniper	2 feet	Creeping	Sun; blue-green, year-round foliage
<i>Juniperus chinensis sargentii</i>	Sargent Juniper	1 feet	Creeping	Sun; green; or blue-green in cv. "Glauca"
* <i>Juniperus horizontalis</i>	Creeping Juniper	1 feet	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 to 6 inches	Prostrate	Dry soil; sun; bright green; bronzed in winter
"Wiltonii"	Blue Rug Juniper	4 to 6 inches	Flat-trailing	Dry soil; sun; silvery blue
"Youngstown"	Youngstown Juniper	18 inches	Radial-creeping	Dry soil; sun; gray-green; purplish in winter
<i>Juniperus sabina</i>				
"Arcadia"	Arcadia Savin Juniper	18 inches	Low-spreading	Sun; green
"Broadmoor"	Broadmoor Savin Juniper	2 feet	Mounded	Sun; soft grayish green; fine textured
"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

ZONING

Detailed Classification of Plant Species: Non-Contributing Species (0 points)

KEY:

* Wisconsin native

S = Slow

M = Medium

F = Fast

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

NOTES:

^{RF} Refers to reforestation. Marked species are native to Wisconsin and recommended for reforestation efforts by the Wisconsin DNR. (See § 550-98.)

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

- Department of Natural Resources. Forest Trees of Wisconsin: How to Know Them. Madison, Wisconsin:
- Department of Natural Resources, 1987.
- Hasselkus, E.R. A Guide to Selecting Landscape Plants for Wisconsin. Madison, Wisconsin: College of Agricultural and Life Sciences University of Wisconsin - Extension, Cooperative Extension Programs, 1982.
- Hightshoe, Gary L. Native Trees, Shrubs, and Vines for Urban and Rural America: A Planting Design Manual for Environmental Designers. New York: Van Nostrand Reinhold, 1988.
- Iowa State University. Landscape Plants for Iowa. Ames, Iowa: Iowa State University Cooperative Extension Service, May 1984.