

Front Range Tree Recommendation List®

This revised Front Range Tree Recommendation List was developed through the collaborative efforts of 16 individuals each representing a different aspect of Colorado's Green Industry. Green Industry organizations represented included American Society of Landscape Architects (ASLA); Colorado Nursery and Greenhouse Association (CNGA); municipal arborists representing the Colorado Tree Coalition and International Society of Arboriculture, Colorado State University (CSU) Extension, Denver Botanic Gardens (DBG), Colorado State Forest Service (CSFS) and Colorado Arborists and Lawn Care Professionals (CALCP). Based on the committee's collective education, knowledge and experience over 211 trees or varieties were evaluated and rated, resulting in a single reference list for professionals to use and share with customers or residents.

The purpose of this project was to update and expand an original list creating a Front Range Tree list for use by Green Industry professionals based on decades of actual experience growing and caring for trees in our area. The list is intended to assist those involved in the buying, growing, selling, selection, siting and specification of trees, with the ultimate goal of a healthy, diverse and geographically appropriate landscape and urban forest. The ratings apply to the Colorado Front Range, generally defined as the region from Colorado Springs to the Wyoming border and from the foothills to the eastern plains.

The initial list of evaluated trees was based on a compilation of six 2023 Front Range Nursery Catalogs plus recommendations from committee members. The group evaluated each tree based upon five different critical factors and eight cautionary cultural factors along with three other categories. After evaluating each tree based on these critical, cautionary and other categories, each tree was placed in one of four categories or placed in a non-recommended list.

RECOMMENDED

A tree is recommended if it has consistently displayed no serious vitality issues related to any of the critical factors.

RECOMMENDED FOR MOST SITES

A tree in this category is generally recommended for most sites but may have one vitality issue to one of the critical factors or have a cautionary problem.

CONDITIONALLY RECOMMENDED

A tree is conditionally recommended if it has consistently displayed serious vitality issues related to one or more critical factors and one or more cautionary factors. Some of these critical and cultural factors can be mitigated through proper horticultural care.

TREES WITH POTENTIAL

A tree with potential is often offered for sale and has the potential to do well here (USDA Hardiness Zone Rating of 5 or below) but the committee felt it has less than ten years of experience growing and maintaining a significant population of the trees in this area. The intention is to move these trees into one of the other categories based upon collective experience of list users.

NOT RECOMMENDED

A tree is not recommended if it has consistently displayed overwhelming vitality issues related to several of the critical factors or can be expected to do poorly under normal circumstances.

Also added to this revised list is the category of Colorado Native. Under water use, low water use would designate it is a xeric or water wise woody plant.

When using this list to assist in tree selection for a specific planting location, a site analysis relating to cultural factors,

including a soil test to determine pH, texture and composition should be performed. We assume the list users are aware of the physical attributes of these trees (mature size, fall color, growth habit, texture, flowers, fruit etc.) or have access to that information.

The Front Range Tree Recommendation List® is downloadable on the websites of CNGA, ASLA, CTC, CALCP, ISA, CSU Extension, and Colorado State Forest Service, the hard copy document was paid for with contributions from some of the collaborating organizations and nurseries.

COMMITTEE MEMBERS:

Landscape Architects – ASLA – Don Godi

Nursery person – CNGA – Stan Brown, Matt Ruud, Keith Williamson, David Dickey, Debi Borden-Miller

CSU Representatives – CSU Extension – Jim Klett, David Staats, Eric A. Hammond, Alison O'Connor and Daniel Burcham

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COLORADO STATE UNIVERSITY
EXTENSION

DENVER BOTANIC
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ROCKY MOUNTAIN CHAPTER
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DECIDUOUS ALPHA — BOTANICAL		RecommendedRecommended for Most SitesConditionally RecommendedTrees With PotentialSoil ChemistrySoil TextureInsects & DiseasesCold HardinessSalt ToleranceTree Wrap/Sun ScaldWeak WoodShort LivedSuckersRe-seedsTransplantsLeaf ScorchExposureWater NeedsColorado NativeLimited Availability																		
Plant Nomenclature from World Flora Online																				
Botanical Name	Variety or Common Name	RATING		CRITICAL				CAUTIONARY								OTHER		COMMENTS		
Acer		Maple																		
Acer campestre	Hedge	X					X										I-m	X	Variable hardiness from seed; prone to winter dieback in hard early freezes	
Acer tataricum subsp. ginnala	Amur/Ginnala – ‘Flame’	X			X			X		X				X			I-m		Can develop chlorosis in alkaline soils	
Acer glabrum	Rocky Mountain	X				X											m-h	X	Prefers more moisture	
Acer grandidentatum	Bigtooth	X															I-m	X	X	
Acer saccharum subsp. grandidentatum	Bigtooth – ROCKY MOUNTAIN GLOW®, HIGHAND PARK®	X					X										I-m	X	Tree forms	
Acer griseum	Paperbark				X			X						X		X	m	X	Needs a protected site; does not transplant well when bare-rooted	
Acer miyabei	Miyabe		X				X			X							I-m		Variable hardiness	
Acer negundo	Boxelder ‘Sensation’	X								X							I-m	X	Tolerant of alkaline soils; male tree so no boxelder bugs	
Acer platanoides	Norway – ‘Columnare’, ‘Crimson King’, ‘Crimson Sentry’, ‘Deborah’, EMERALD LUSTER®, ‘Emerald Queen’, ‘Fairview’, ‘Royal Red’		X							X					X		m		Acer platanoides is prone to sunscald and leaf scorch in hot dry sites	
Acer rubrum	Red – ‘Autumn Flame’, REDPOINTE®, RED SUNSET®			X		X		X	X								m		Chlorosis; Acer rubrum needs an acidic soil	
Acer saccharum	Sugar – GREEN MOUNTAIN®, LEGACY®, FALL FIESTA®		X			X	X		X	X							m		Acer saccharum prefers well drained, neutral to acidic soils	
Acer saccharum	Sugar – Caddo ‘John Pair’, ‘Autumn Splendor’, FLASH FIRE®	X						X		X						X	I-m		Tolerant of alkaline soils	
Acer tataricum	Tatarian	X									X			X			I-m		X	
Acer tataricum	Tatarian HOT WINGS®	X									X			X			I-m		Plant Select®	
Acer truncatum x platanoides	NORWEGIAN SUNSET®, CRIMSON SUNSET®, PACIFIC SUNSET®				X			X		X							I-m	X	Prone to winter dieback and early hard freezes	
Aesculus		Buckeye/Horsechestnut																		
Aesculus glabra var. arguta	Texas Buckeye (Western Buckeye)			X													I-m	X	More heat tolerant than the species	
Aesculus glabra	Ohio Buckeye		X					X					X		X		m		Some chlorosis; prone to leaf scorch in hot dry sites	
Aesculus hippocastanum	Common Horsechestnut	X						X	X						X		m	X		
Aesculus flava	Yellow Buckeye		X												X		m	X		
Aesculus x carnea	‘Briotti’, ‘Fort McNair’				X			X	X	X					X		m	X		
Alnus		Alder																		
Alnus glutinosa	European				X			X									m-h		X	
Alnus incana subsp. tenuifolia	Thinleaf/ Mountain	X						X					X		X		m-h	X	Leaf miner; leaf scorch in hot dry sites	
Amelanchier		Serviceberry																		
Amelanchier alnifolia	Saskatoon	X											X				I-m		Large shrub; best used as multi-stem	
Amelanchier canadensis	Shadblow	X											X				I-m	X	Best used as multi-stem	
Amelanchier laevis	Allegheny				X								X				m	X	Available in tree or shrub form	
Amelanchier x grandiflora	‘Autumn Brilliance’		X			X							X				m		Available in tree or shrub form; prefers acid soil; develops chlorosis in alkaline soils; prone to basal suckering.	
Betula		Birch		All species winter watering recommended																
Betula nigra	River – HERITAGE®			X		X		X		X			X				m-h		Develops chlorosis in alkaline soils; bronze birch borer	
Betula occidentalis	Rocky Mountain/ Water		X				X					X					m-h	X	Best as a multi-stem	
Betula pendula	European White – ‘Gracilis’			X			X					X					m-h		Bronze birch borer	
Betula platyphylla	Asian White – ‘Whitespire’, DAKOTA PINNACLE®, PARKLAND PILLAR®			X			X					X					m-h		Bronze birch borer	

DECIDUOUS ALPHA — BOTANICAL

Recommended
Recommended for Most Sites
Conditionally Recommended
Trees With Potential
Soil Chemistry
Soil Texture
Insects & Diseases
Cold Hardiness
Salt Tolerance
Tree Wrap/Sun Scald
Weak Wood
Short Lived
Suckers
Re-seeds
Transplants
Leaf Scorch
Exposure
Water Needs
Colorado Native
Limited Availability

Plant Nomenclature from World Flora Online																					
Botanical Name	Variety or Common Name	RATING				CRITICAL				CAUTIONARY						OTHER		COMMENTS			
Carpinus	Hornbeam																				
Carpinus betulus	European – ‘Frans Fontaine’				X					X						X	m			Needs protected site	
Carpinus betulus	‘Fastigiata’		X							X						X	m			Needs protected site	
Carpinus caroliniana	American hornbeam				X					X						X	m		X	Moderate water,needs protected site	
Carya	Hickory																				
Carya illinoensis	Pecan				X										X		X	m		X	Not reliable fruit set
Catalpa	Catalpa	Fall cleanup consideration for all species																			
Catalpa ovata	Chinese				X					X							I-m		X		
Catalpa speciosa	Northern/ Western, HEARTLAND®	X								X							I-m				
Celtis	Hackberry																				
Celtis occidentalis	Common Hackberry, PRAIRIE SENTINEL®	X								X			X				I-m			Weak Wood; Animal Damage; Nipple Gall cosmetic	
Cercis	Redbud	All species need protected site																			
Cercis canadensis	Eastern	X								X						X	m			Northern seed source	
Cercis canadensis	Eastern – ‘Alba’, ‘Forest Pansy’				X				X							X	m		X		
Cercis canadensis	‘Ruby Falls’				X					X						X	m				
Cercidiphyllum	Katsura																				
Cercidiphyllum japonicum	Katsura Tree				X												m		X	Needs protected site	
Cladrastis	Yellowwood																				
Cladrastis kentukea	American Yellowwood		X							X	X					X	m		X		
Cornus	Dogwood																				
Cornus controversa	Giant – ‘June Snow’				X											X	m		X		
Cornus mas	Cornelian Cherry, ‘Golden Glory’	X															m		X	Best used as multi-stem	
Corylus	Hazelnut																				
Corylus colurna	Turkish Filbert/Hazelnut		X											X			I-m		X		
Crataegus	Hawthorn																				
Crataegus crus-galli	Cockspur var. inermis	X						X									I-m			Plant Select®	
Crataegus ambigua	Russian	X						X									I				
Crataegus douglasii	River/Douglas		X					X				X					m	X	X	Rust is an issue	
Crataegus laevigata	English – ‘Crimson Cloud’		X					X									m		X	Fire blight	
Crataegus mollis	Downy		X					X									I-m		X	Rust	
Crataegus x mordenensis	‘Toba’		X					X			X						m				
Crataegus phaenopyrum	Washington	X						X									m			Fire blight	
Crataegus viridis	Green – ‘Winter King’	X															I-m			Preferred Hawthorn for CO	
Fagus	Beech																				
Fagus sylvatica	European Beech, ‘Riversii’, ‘Dawyck Purple’			X				X		X						X	m		X	Best in well drained soils	
Ginkgo	Ginkgo																				
Ginkgo biloba	Ginkgo/ Maidenhair Tree, ‘Princeton Sentry’, ‘Autumn Gold’		X					X						X		X	m		X	Plant male cultivar; slow to establish	
Gleditsia	Honeylocust																				
Gleditsia triacanthos	Thornless Common – NORTHERN ACCLAIM®		X					X		X							I-m		X	Wrap young trees	
Gleditsia triacanthos	Thornless Common – IMPERIAL®, SHADEMASTER®, SKYLINE®	X						X		X							I-m			Wrap young trees	
Gleditsia triacanthos	Thornless Common – SUNBURST®		X					X		X							I-m			Wrap young trees; overplanted variety	

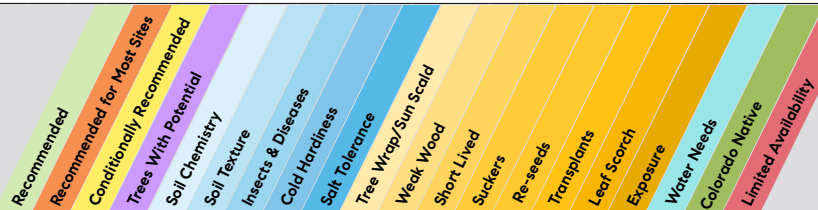
DECIDUOUS ALPHA — BOTANICAL

Plant Nomenclature from World Flora Online																							
Botanical Name	Variety or Common Name	RATING				CRITICAL				CAUTIONARY						OTHER		COMMENTS					
Gymnocladus	Coffeetree																						
Gymnocladus dioicus	Kentucky Coffeetree	X															I-m		Pods on female messy				
Gymnocladus dioicus	Kentucky Coffeetree – ESPRESSO®, DECAF®, SKINNY LATTE™, PRAIRIE TITAN™	X															I-m		Seedless cultivars				
Koelreuteria	Chinese lantern tree																						
Koelreuteria paniculata	Goldenraintree	X								X			X				I		Reseeds aggressively				
Liquidambar	Sweetgum																						
Liquidambar styraciflua	American Sweetgum				X	X	X		X								m	X	Needs a well drained soil; Protected placement				
Liriodendron	Tuliptree																						
Liriodendron tulipifera	Tuliptree		X					X		X							m	X					
Liriodendron tulipifera	Tuliptree, EMERALD CITY®				X			X		X							m						
Maackia	Maackia																						
Maackia amurensis	Amur Maackia			X													I-m	X					
Maclura																							
Maclura pomifera	Osage Orange ‘White Shield’				X			X						X			I-m	X	Use thornless, seedless variety; dieback can be an issue				
Magnolia	Magnolia																						
Magnolia acuminata	Cucumbertree				X					X							m	X					
Magnolia x soulangiana	Saucer			X						X						X	m		Exposure & elevation affect flowering; needs protected placement				
Malus	Fruit Apple																			All varieties subject to codling moth & fireblight			
Malus varieties	HoneyCrisp, McIntosh, Red Delicious, Sweet Sixteen, Zestar	X						X									m						
Malus	Crabapple																			Fireblight possible in all varieties			
Malus ‘Adirondack’	Adirondack		X					X									I-m	X	Upright branching				
Malus x ‘Branzam’	BRANDYWINE®		X					X									I-m		Large messy fruits				
Malus x ‘Coralcole’	CORALBURST®	X															I-m		Disease resistant				
Malus ‘Dolgo’	Dolgo		X					X									I-m	X	Messy fruit				
Malus ‘Gladiator’	Gladiator		X					X									I-m		Columnar form; purple leaf				
Malus ‘Indian Magic’	Indian Magic	X						X			X						I-m		Poor structure				
Malus ‘Louisa’	Louisa		X					X									I-m		Weeping form				
Malus ‘Prairiefire’	Prairiefire		X					X									I-m						
Malus ‘Prairie Rose’	Prairie Rose				X			X									I-m	X	Fruitless				
Malus ‘Radiant’	Radiant	X															I-m						
Malus ‘Red Barron’	Red Barron	X						X									I-m		Upright form				
Malus ‘JFS-KW5’	ROYAL RAINDROPS®	X															I-m						
Malus sargentii	Sargent	X						X									I-m		Shrubby form; higher resistance to fireblight				
Malus sargentii ‘Tina’	Sargent Tina	X															I-m		Dwarf form; higher resistance to fireblight				
Malus ‘Spring Snow’	Spring Snow	X						X									I-m		Fruitless				
Malus ‘Thunderchild’	Thunderchild	X															I-m						
Morus	Mulberry																						
Morus alba	White Mulberry ‘Chaparral’		X					X		X							m		Weeping form; some dieback				

DECIDUOUS ALPHA — BOTANICAL

Plant Nomenclature from World Flora Online																							
Botanical Name	Variety or Common Name	RATING				CRITICAL				CAUTIONARY						OTHER		COMMENTS					
Ostrya	Hophornbeam																						
Ostrya virginiana	American Hophornbeam				X										X			I-m	X				
Phellodendron	Corktree																						
Phellodendron amurense	Amur corktree				X			X										m	X				
Platanus	Planetree																						
Platanus x acerifolia	London Planetree 'EXCLAMATION!®'		X					X	X	X						X		m-h		Anthracnose			
Platanus occidentalis	American sycamore		X					X	X	X						X		m-h	X	Anthracnose			
Populus	Poplar (cottonwood)																						
Populus angustifolia	Narrowleaf		X					X			X	X	X					I-m	X	Vigorous suckering; forms colonies. Use in native areas only			
Populus deltoides	Eastern		X					X			X	X	X					m-h		Too big for small yards; Choose male cultivar			
Populus deltoides subsp. monilifera	Plains 'Jeronimus'	X																m	X	Too big for small yards; Choose male cultivar			
Populus tremula 'Erecta'	Upright European, Aspen			X				X				X	X					m		Unique form; prone to many diseases and insects			
Populus tremuloides	Quaking Aspen			X				X				X	X					m	X	Better at 7800' +; chlorosis at lower elevations; prone to many diseases & insects			
Populus tremuloides	PRAIRIE GOLD®				X			X				X	X					m		Reported to do better at lower elevations			
Populus x acuminata	Lanceleaf	X									X		X					m	X	Too big for small yards; Plant male cultivar			
Populus x acuminata x sargentii	Highland		X					X			X		X					m	X	Too big for small yards			
Prunus	Fruiting types																						
Prunus armeniaca	Apricot-Chinese	X															X	m	X	Great ornamental; seldom sets fruit along the Front Range			
Prunus armeniaca	Apricot 'Moongold', 'Moorpark'	X																m	X	Great fall color; seldom sets fruit along the Front Range			
Prunus cerasus 'Evans Bali'	Sour Cherry- Evans Bali		X															m		Sour cherry			
Prunus avium 'Bing'	Bing		X					X									X	m	X	Seldom sets fruit along the front range; needs a cross pollinizer			
Prunus avium 'Stella Compact'	Stella Compact		X					X									X	m	X	Seldom sets fruit along the front range			
Prunus cerasus	Cherry – 'Montmorency', 'North Star'	X						X										m		North Star = dwarf form 10' x 10'			
Prunus persica 'Elberta', 'Polly', 'Red Haven'	Peach – Elberta, Polly, Red Haven		X					X									X	m		Unreliable fruit set along the front range			
Prunus persica 'Reliance','Veteran', 'Contender'	Peach – Reliance, Veteran, Contender		X					X									X	m		Later blooming; more reliable fruit set			
Prunus 'Mount Royal'	Plum – Mount Royal	X																m		Self fruitful plum			
Prunus salicina 'Santa Rosa'	Plum – Santa Rosa	X						X									X	m		Needs a cross pollinizer			
Prunus 'Stanley'	Plum- Stanley	X						X									X	m		Self-fertile plum			
Prunus 'Superior'	Plum-Superior	X						X									X	m		Needs a cross pollinizer			
Prunus 'Toka'	Plum – Toka		X					X									X	m		Needs a cross pollinizer			
Prunus	Ornamental types																						
Prunus cerasifera 'Newport'	Newport Plum (Kankakee strain)		X					X				X						m		Upright form; borers			
Prunus cerasifera 'Newport'	Newport Plum		X					X				X						m		Rounded form; borers			
Prunus cerasifera 'Frankthrees'	Plum – MT. ST. HELENS®		X					X				X						m		Sport of 'Newport'			
Prunus maackii	Amur Chokecherry			X				X									X	m	X	Root diseases if too wet; Susceptible to frost cracking			
Prunus nigra 'Princess Kay'	Plum 'Princess Kay'		X									X						I-m		Plant Select® variety; suckers when mature			
Prunus padus	European Birdcherry	X									X				X			m		Some breakage after storms; prolific flowering			

DECIDUOUS ALPHA — BOTANICAL



Plant Nomenclature from World Flora Online																					
Botanical Name	Variety or Common Name	RATING			CRITICAL				CAUTIONARY							OTHER		COMMENTS			
Prunus	Ornamental types																				
Prunus padus	European Birdcherry – SUMMER GLOW®, 'Merlot'		X							X							m	X	Red leaf form; good alternative to Canada Red; some breakage after storms;		
Prunus sargentii 'Pink Flare'	PINK FLAIR®				X										X		m				
Prunus virginiana	Common Chokecherry – 'Canada Red', 'Schubert'		X				X			X	X	X					l-m		Tree form suckers; best as shrub		
Prunus x fontanesiana	Plum – Des Fontaines				X												m	X	Zone 3 ornamental cherry; long lived for a Prunus		
Prunus x 'P002S' (PP25,767)	Prunus- SUCKER PUNCH®		X														l-m	X	Plant Select® variety; suckers less than Canada Red		
Pyrus	Pear																		All Pyrus subject to Fireblight		
Pyrus	Pear – 'Bartlett', 'Early Gold', 'Golden Spice', 'Luscious', 'Parker', 'Summercrisp'		X				X										l-m		Fruiting varieties; Needs a cross pollinizer.		
Pyrus calleryana	Callery – 'Aristocrat', CHANTICLEER® (aka 'Cleveland Select'), 'Autumn Blaze', 'Redspire'	X															l-m		Ornamental varieties		
Pyrus calleryana	Jack™	X					X										l-m		Rounded, compact habit		
Pyrus calleryana	Callery – 'Capital', JAVELIN®	X					X										l-m		Narrow form		
Pyrus ussuriensis	Ussurian – 'Prairie Gem', 'Mt. Frost'		X				X										l-m	X	More cold hardy than P. calleryana		
Quercus	Oak																				
Quercus acutissima	Sawtooth				X	X											l-m	X			
Quercus alba	White			X		X	X			X					X		l-m	X	Develops chlorosis in alkaline soils		
Quercus bicolor	Swamp White		X			X				X							m		Can develop some chlorosis in alkaline soils		
Quercus buckleyi	Texas Red		X						X								l	X	Many seed sources not predictably hardy		
Quercus gambelii	Gambel	X						X					X				l	X	Shrubby habit; susceptible to galls.		
Quercus imbricaria	Shingle				X	X			X								l-m	X	X	Devolops chlorosis in alkaline soils	
Quercus macrocarpa	Bur	X						X									l-m		Susceptible to galls		
Quercus macrocarpa 'Urban Pinnacle'	'Urban Pinnacle'	X						X									l-m		Narrow form; susceptible to gamble oak borer		
Quercus muehlenbergii	Chinkapin	X															l-m	X			
Quercus robur	English		X					X									l-m		Susceptible to gamble oak borer		
Quercus robur	English 'Columnaris'		X					X	X								l-m		Susceptible to gamble oak borer		
Quercus robur x macrocarpa	HERITAGE®		X														l-m		Most resistant to galls; vigorous growth		
Quercus rubra	Red		X			X		X									m		Develops chlorosis in alkaline soils		
Quercus shumardii	Shumard		X														l-m		From a northern source		
Quercus undulata	Wavyleaf		X														l	X	X	Shrubby habit	
Quercus alba x robur	CRIMSON SPIRE®, STREETSPIRE®	X															l-m		Columnar forms		
Quercus robur x bicolor	REGAL PRINCE®, KINDRED SPIRIT®		X														l-m		KINDRED SPIRIT® most narrow columnar oak		
Salix	Willow																		All species susceptible to aphids and cankers		
Salix alba	Niobe Weeping – 'Tristis'		X					X			X						h				
Salix alba	Russian Golden – 'Vitellina'		X					X			X						h		X		
Salix amygdaloides	Peachleaf		X					X			X						l-m	X	X	More common as a multistem	
Salix x 'Prairie Cascade'	Prairie Cascade, Weeping		X								X						h				
Styphnolobium (Sophora)	Pagodatree																				
Styphnolobium (Sophora) japonica	Japanese Pagodatree, Millstone™		X					X	X		X	X					X	m	X	Canker	

DECIDUOUS ALPHA — BOTANICAL

Recommended
Recommended for Most Sites
Conditionally Recommended
Trees With Potential
Soil Chemistry
Soil Texture
Insects & Diseases
Cold Hardiness
Salt Tolerance
Tree Wrap/Sun Scald
Weak Wood
Short Lived
Suckers
Re-seeds
Transplants
Leaf Scorch
Exposure
Water Needs
Colorado Native
Limited Availability

Plant Nomenclature from World Flora Online																						
Botanical Name	Variety or Common Name	RATING			CRITICAL			CAUTIONARY						OTHER		COMMENTS						
Sorbus	Mountain-ash	Fireblight possible on all species																				
Sorbus intermedia	Swedish Whitebeam			X				X								m	X					
Sorbus aucuparia	European	X				X		X								m						
Sorbus aucuparia	European – CARDINAL ROYAL®	X				X		X								m						
Sorbus x hybrida	Oak Leaf			X				X								m	X	More resistant to fireblight				
Syringa	Lilac																					
Syringa reticulata subsp. pekinensis	Peking – ‘Summer Charm’	X														I-m		Attractive copper-colored peeling bark				
Syringa reticulata	Japanese – ‘Ivory Silk’	X														I-m						
Tilia	Linden																					
Tilia americana	American- American Sentry™, ‘Redmond’	X						X						X		m		Less preferred by Japanese beetle				
Tilia cordata	Littleleaf – GREENSPIRE®	X				X		X						X		m		Preferred by Japanese beetle				
Tilia cordata x mongolica	‘Harvest Gold’			X				X						X		m	X					
Tilia tomentosa	Silver – ‘Sterling Silver’	X						X						X		m		More resistant to Japanese beetle				
Tilia x flavescens	‘Glenleven’	X						X						X		m						
Ulmus	Elm																		Selected for Dutch Elm Disease resistance			
Ulmus americana	American – ‘Valley Forge’, ‘New Harmony’, ‘Princeton’			X			X									I-m		Scale				
Ulmus davidiana	David, GREENSTONE®, CHOICECITY®	X														I-m	X	Elm leaf beetle resistant				
Ulmus davidiana var. japonica	ACCOLADE® (‘Morton’)	X					X									I-m		No scale; elm leaf beetle resistant				
Ulmus davidiana var. japonica	NORTHERN EMPRESS®				X											I-m	X	Hardy; dwarf; purple fall color				
Ulmus davidiana var. japonica	‘Prospector’			X												I-m	X	Holds leaves late				
Ulmus japonica x U. pumila ‘New Horizon’	‘New Horizon’				X											I-m		Fast grower				
Ulmus minor x U. parvifolia	‘Frontier’			X			X									I-m	X	Subject to early fall frost				
Ulmus x ‘Morton Glossy’	TRIUMPH® Elm		X				X									I-m		Elm leaf beetle; No scale				
Xanthoceras	Yellowhorn																					
Xanthoceras sorbifolium	Yellowhorn- CLEAR CREEK™				X											I-m	X	Plant Select®				
Zelkova	Zelkova																					
Zelkova serrata	Japanese Zelkovia ‘Musashino’				X			X								X	m	X				

Recommended	Recommended for Most Sites	Conditionally Recommended	Trees With Potential	Soil Chemistry	Soil Texture	Insects & Diseases	Cold Hardiness	Salt Tolerance	Tree Wrap/Sun Scald	Weak Wood	Short Lived	Suckers	Re-seeds	Transplants	Leaf Scorch	Exposure	Water Needs	Colorado Native	Limited Availability
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CONIFER ALPHA — BOTANICAL		CONIFER ALPHA — ECOLOGICAL																			
		Recommended	Recommended for Most Sites	Conditionally Recommended	Trees With Potential	Soil Chemistry	Soil Texture	Insects & Diseases	Cold Hardiness	Salt Tolerance	Tree Wrap/Sun Scald	Weak Wood	Short Lived	Suckers	Re-seeds	Transplants	Leaf Scorch	Exposure	Water Needs	Colorado Native	Limited Availability
Plant Nomenclature from <i>World Flora Online</i>																					
Botanical Name	Variety or Common Name	RATING				CRITICAL				CAUTIONARY								OTHER		COMMENTS	
<i>Pinus heldreichii</i>	Bosnian	X																m			
<i>Pinus heldreichii</i>	Bosnian – ‘Emerald Arrow’	X																m		Narrow form; often listed as <i>P. leucodermis</i> (synonym)	
<i>Pinus monophylla</i>	Singleleaf Pinyon		X															l	X		
<i>Pinus mugo</i>	Mugo – ‘Tannenbaum’	X																l–m			
<i>Pinus nigra</i>	Austrian ‘Oregon Green’	X																m		Some Zimmerman pine moth	
<i>Pinus nigra</i>	Austrian – ‘Arnold’s Sentinel’, ‘Frank’		X															m		Columnar forms	
<i>Pinus ponderosa</i>	Ponderosa	X							X									l–m	X		
<i>Pinus strobus</i>	Eastern White			X		X		X									X	m	X	Soil chlorosis; wind damage	
<i>Pinus strobiformis</i>	Southwestern White	X																l–m	X		
<i>Pinus sylvestris</i>	Scotch		X				X											m		Pine wilt nematode (PWN)	
<i>Pseudotsuga</i>	Douglas–fir																				
<i>Pseudotsuga menziesii</i> var. <i>glauca</i>	Rocky Mountain Douglas fir	X							X									m	X		
<i>Sequoiadendron</i>	Giant Sequoia																				
<i>Sequoiadendron giganteum</i>	Giant Sequoia – ‘Hazel Smith’				X		X	X									X	m–h		X	
<i>Taxodium</i>	Baldcypress																				
<i>Taxodium distichum</i> ‘Mickelson’	Baldcypress – SHAWNEE BRAVE™		X					X										m–h		X	
<i>Thuja</i>																					
<i>Thuja occidentalis</i>	Eastern Arborvitae – ‘Emerald’, ‘Techny’, ‘Degroots Spire’, ‘North Pole’		X					X									X	m–h		Needs protected area; susceptible to winter burn	
<i>Thuja standishii</i> x <i>Thuja plicata</i>	Green Giant		X														X	m–h	X	Needs protected area	

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