Front Range Tree Recommendation List©

This Front Range Tree Recommendation List© was developed through the collaborative efforts of 12 individuals, three from each of the four participating professional groups: the American Society of Landscape Architects(ASLA), the Colorado Nursery & Greenhouse Association (CNGA), municipal arborists representing the Colorado Tree Coalition (CTC), and the Colorado State University (CSU) Extension. Based on the committee's collective education, knowledge, and experience over 250 trees or varieties were evaluated and rated, resulting in a single reference list for professionals to use and share with their customers or residents.

The purpose of this project was to create 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. This 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. We encourage industry professionals to prepare similar lists for other geographic regions using this as a template.

The initial list of evaluated trees was based on a compilation of six 2010 Front Range Nursery catalogs plus recommendations from committee members. The group evaluated each tree based upon 5 Critical and 8 Cautionary Cultural Factors, resulting in one of four ratings:

A - Generally Recommended.
A tree is Generally Recommended if it has consistently displayed no serious vitality issues related to any of the five Critical factors.

B - Conditionally Recommended. A tree is Conditionally Recommended if it has consistently displayed serious vitality issues related to one or more of the five Critical factors. Some cultural factors such as sun scald can be mitigated thru proper horticultural care, in this case using tree wrap.

C - Potential/Unproven. A tree is listed as Potential/Unproven if it is offered for sale locally and has the potential to do well here (a USDA Hardiness Zone Rating of 5 or below), but the committee has less than ten years of experience growing and maintaining a significant population of the tree in our area. As this list is periodically updated, the intention is to move trees with a C rating to one of the other categories based upon the collective experience of the list users.

D - Not Recommended. A tree is Not Recommended if it has consistently displayed overwhelming vitality issues related to one or more of the five Critical factors or can be expected to do poorly under normal circumstances.

When using this list to assist in tree selection for a specific planting location, a site analysis relating to the 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 this information.

The Front Range Tree Recommendation List© is downloadable on the websites of the CNGA, ASLA, CTC, and CSU Extension. This hardcopy document was paid for with contributions from the GreenCO Foundation and the Colorado Nursery Research and Education Foundation (CNREF). If you are interested in participating in future updates of this list, please provide your contact information on the CNGA website, coloradonga.org. Click on Resources and Tree List.

COMMITTEE MEMBERS

Landscape Architects - ASLA: Gail Barry; David Flaig; Don Godi
Nurserymen - CNGA: Stan Brown; Matt Edmundson; Gary Epstein
CSU Representatives: Robert Cox; Jim Klett, PhD; Alison O'Connor
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ASLA COLORADO

CNGA COLORADO NURSERY & GREENHOUSE ASSOCIATION

Colorado Tree Coalition

Colorado State University Extension

Botanical Name	Variety or Common Name	Rating	Cultural Factors															Comments:
Plant Nomenclature from *Manual of Woody Landscape Plants* by Michael A. Dirr 2009 edition.			Critical					Cautionary								Other		
			SC	ST	ID	CH	SA	TS	WW	SL	SU	RS	TR	LS	EX	WN	LA	
Acer	**Maple**																	
Acer campestre	Hedge	B				x										l-m	x	Variable hardiness from seed; prone to winter dieback in hard early freezes
Acer x freemanii	Freeman - 'Armstrong', Autumn Blaze®, Autumn Fantasy®, Celebration®, Sienna Glen®	B	x				x	x								m		Develops chlorosis in alkaline soils
Acer ginnala	Amur/ Ginnala - 'Flame'	B	x				x					x				l-m		Can develop chlorosis in alkaline soils
Acer glabrum	Rocky Mountain	B		x												m-h		Prefers more moisture
Acer grandidentatum	Big Tooth	A														l-m	x	
Acer grandidentatum	Big Tooth - Manzano™	C				x										l-m	x	More tree-like than A*cer grandidentatum*
Acer griseum	Paperbark	C				x							x		x	m	x	Needs a protected site; does not transplant well when bare rooted
Acer miyabei	Miyabe	C				x			x							l-m	x	Typically budded to *A.campestre* that shows variable hardiness from seed
Acer negundo	Boxelder/ Ash-leaved - 'Sensation'	C							x							l-m	x	Tolerant of alkaline soils; holds a strong dominate leader; male tree so no boxelder bugs
Acer palmatum	Japanese	B	x	x		x				x					x	m-h		Prefers well drained soils low in salt content with some protection
Acer platanoides	Norway - 'Columnare', 'Crimson King', 'Crimson Sentry', 'Deborah', Emerald Lustre®, 'Emerald Queen', Fairview®, 'Royal Red'	B						x						x		m		*Acer platanoides* is prone to sunscald and leaf scorch in hot dry sites
Acer pseudosieboldianum	Korean/Purplebloom	C						x							x	m	x	More tolerant of heavy soils than *Acer palmatum* , but still needs protection
Acer rubrum	Red - Autumn Flame®	B	x				x	x								m		Chlorosis; *Acer rubrum* needs an acidic soil
Acer rubrum	Red - Burgundy Belle®	C	x				x	x								m	x	Develops chlorosis in alkaline soils
Acer rubrum	Red - Northwood®	B	x				x	x								m		Develops chlorosis in alkaline soils
Acer rubrum	Red - October Glory®	B	x				x	x								m		Develops chlorosis in alkaline soils
Acer rubrum	Red - Redpointe®	C	x				x	x								m	x	Develops chlorosis in alkaline soils
Acer rubrum	Red - Red Sunset®	B	x				x	x								m		Develops chlorosis in alkaline soils
Acer saccharinum	Silver - 'Silver Queen'	B	x				x	x	x							m		Develops chlorosis in alkaline soils
Acer saccharinum	Silver - 'Skinner'	B	x				x	x	x							m	x	Develops chlorosis in alkaline soils
Acer saccharum	Sugar - Green Mountain®	B	x	x			x	x								m		*Acer saccharum* prefers well drained, neutral to acidic soils
Acer saccharum	Sugar - Legacy®	B	x	x			x	x								m	x	Can develop chlorosis in alkaline soils
Acer saccharum	Sugar - Caddo 'John Pair', 'Autumn Splendor'	C				x		x							x	l-m	x	Alkaline tolerant; needs protected site
Acer tataricum	Tartarian	A										x				l-m	x	
Acer tataricum	Tatarian -Hot Wings®	A										x				l-m		
Acer tataricum	Tatarian - Pattern Perfect™	A										x				l-m		
Acer truncatum x platanoides	Norwegian Sunset®	C				x										l-m	x	Prone to winter dieback in early hard freezes & possible death at -30°
Aesculus	**Buckeye/Horsechestnut**																	
Aesculus arguta	Texas	A														l-m	x	More heat tolerant than *A.glabra*
Aesculus glabra	Ohio	A												x		m	x	Some chlorosis; prone to leaf scorch in hot dry sites
Aesculus hippocastanum	Common Horsechestnut	A												x		m	x	
Aesculus octandra(flava)	Yellow	C												x		m	x	
Aesculus x carnea	'Briotti'	C												x		m	x	
Aesculus x carnea	'Fort McNair'	C												x		m		
Alnus	**Alder**																	
Alnus glutinosa	Common /Black	B			x									x		m-h		Leaf miner; leaf scorch in hot dry sites
Alnus tenuifolia	Thinleaf/ Mountain	A			x									x		m-h		Leaf miner; leaf scorch in hot dry sites
Amelanchier	**Serviceberry**																	
Amelanchier alnifolia	Saskatoon	A									x					l-m		Best used as multi-stem

KEY

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Amelanchier canadensis	Shadblow	A									x					l-m	x	Best used as multi-stem
Amelanchier laevis	Allegheny -'Snowcloud', Spring Flurry®	C									x					m	x	Best used as multi-stem
Amelanchier lamarckii	Lamarck	C									x					m	x	Best used as multi-stem
Amelanchier x grandiflora	Autumn Brilliance®, 'Princess Diana', 'Robin Hill'	B	x								x					m		Prefers acid soil; develops chlorosis in alkaline soils; prone to basal suckering; best used shrub.
Betula	**Birch**																	
Betula nigra	River - Heritage®	B	x		x		x									m-h		Develops chlorosis in alkaline soils and bronze birch borer
Betula occidentalis	Rocky Mountain/ Water	B			x											m-h		Bronze birch borer
Betula papyrifera	Paper	B			x											m-h		Bronze birch borer
Betula pendula	European White - 'Gracilis'	B			x											m-h		Bronze birch borer
Betula platyphylla	Asian White - 'Whitespire'	B			x					x						m-h		Bronze birch borer
Carpinus	**Hornbeam**																	
Carpinus betulus	European - 'Frans Fontaine'	C						x							x	m		Needs protected site
Carpinus betulus	'Fastigiata' ('Pyramidalis')	B						x							x	m	x	Needs protected site
Catalpa	**Catalpa**																	
Catalpa ovata	Chinese	A							x							l-m	x	
Catalpa speciosa	Northern/ Western	A							x							l-m		
Celtis occidentalis	**Common**	A										x				l-m		
Cercis	**Redbud**																	
Cercis canadensis	Eastern	A							x						x	h		Northern seed source
Cercis canadensis	Eastern - 'Alba'	C							x						x	m	x	
Cercis canadensis	Eastern - 'Forest Pansy'	B				x			x						x	m	x	
Cercis canadensis	Eastern -Lavender Twist™	C							x						x	m		
Cladrastis kentukea	**American Yellowwood**	C							x						x	m	x	
Cornus	**Dogwood**																	
Cornus controversa	Giant - 'June Snow'	C														m	x	Time will tell
Cornus mas	Cornelian Cherry	A														m	x	Best used as multi-stem
Corylus colurna	**Turkish Filbert/Hazelnut**	C											x			l-m	x	
Crataegus	**Hawthorn**																	
Crataegus crusgalli	Cockspur var. *inermis*	A														l-m		
Crataegus ambigua	Russian	A														l		
Crataegus douglasii	River/Douglas	B									x					m	x	
Crataegus laevigata	English - 'Crimson Cloud', 'Pauls Scarlet'	B			x											m	x	Fireblight
Crataegus mollis	Downy	B			x											l-m	x	Rust
Crataegus x mordenensis	'Toba'	B			x				x							m		
Crataegus phaenopyrum	Washington	A														m		
Crataegus viridis	Green - 'Winter King'	A														l-m		
Crataegus x lavallei	Lavalle	C														m	x	
Fagus sylvatica	**European Beech - 'Roseomarginata', 'Tricolor'**	B		x				x								m	x	Best in well drained soils
Fraxinus	**Ash**																	
Fraxinus americana	White - Autumn Purple®	D			x			x								m		EAB-found in Boulder in 2013. Spread to other areas is unknown at this time.
Fraxinus americana	White - 'Empire'	D			x			x								m	x	EAB-found in Boulder in 2013. Spread to other areas is unknown at this time
Fraxinus mandshurica	Manchurian - 'Mancana'	D			x											m	x	EAB-found in Boulder in 2013. Spread to other areas is unknown at this time

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Fraxinus nigra	Black - 'Fallgold'	D			x					x						m		EAB-found in Boulder in 2013. Spread to other areas is unknown at this time.
Fraxinus pennsylvanica	Green - 'Bergeson'	D			x											m	x	EAB-found in Boulder in 2013. Spread to other areas is unknown at this time.
Fraxinus pennsylvanica	Green -Cimmaron®	D			x											m	x	EAB-found in Boulder in 2013. Spread to other areas is unknown at this time.
Fraxinus pennsylvanica	Green - Dakota Centennial™	D			x											m	x	EAB-found in Boulder in 2013. Spread to other areas is unknown at this time.
Fraxinus pennsylvanica	Green -'Marshall's Seedless'	D			x											l-m		EAB-found in Boulder in 2013. Spread to other areas is unknown at this time.
Fraxinus pennsylvanica	Green - 'Patmore'	D			x											l-m		EAB-found in Boulder in 2013. Spread to other areas is unknown at this time.
Fraxinus pennsylvanica	Green - Prairie Spire®	D			x											l-m	x	EAB-found in Boulder in 2013. Spread to other areas is unknown at this time.
Fraxinus pennsylvanica	Green - 'Summit'	D			x											l-m		EAB-found in Boulder in 2013. Spread to other areas is unknown at this time.
Ginkgo biloba	**Ginkgo/ Maidenhair Tree**	B				x									x	m	x	
Gleditsia	**Honeylocust**																	
Gleditsia triacanthos v. *inermis*	Thornless Common -Halka™	B						x								l-m	x	Wrap young tree
Gleditsia triacanthos v. *inermis*	Thornless Common - Imperial®, Shademaster®, Skyline®	A						x								l-m		Wrap young tree
Gleditsia triacanthos v. *inermis*	Thornless Common - Sunburst®	B				x		x	x							l-m		Wrap young tree
Gymnocladus	**Kentucky Coffeetree**																	
Gymnocladus dioicus	Kentucky Coffeetree	A														l-m		
Gymnocladus dioicus	Kentucky Coffeetree - 'Espresso'	C														l-m	x	
Heptacodium miconioides	**Seven-Son Flower**	C				x										m	x	
Hibiscus syriacus	**Rose-of-Sharon - 'Aphrodite','Ardens','Coelistis', 'Lucy','Red Heart','Woodbridge'**	C														m	x	
Juglans nigra	**Black Walnut**	D			x											l	x	Thousand cankers disease
Koelreuteria paniculata	**Panicled Goldenraintree**	B							x			x				l		
Liquidambar styraciflua	**American Sweetgum**	C		x		x										m	x	Needs a well drained soil
Liriodendron tulipifera	**Tuliptree**	C				x										m	x	
Maackia amurensis	**Amur Maackia**	C														l-m	x	
Magnolia																		
Magnolia acuminata	Cucumbertree	C														m	x	
Magnolia x 'Galaxy'	Galaxy	C													x	m	x	
Magnolia x soulangiana	Saucer	A													x	m		
Malus	**Apple**																	
Malus 'Gala'	Gala	B			x											m		Not reliable fruit producer, fireblight
Malus 'Granny Smith'	Granny Smith	D			x	x	x									m	x	Considered zone 6, fireblight
Malus 'Haralred'	Haralred	B					x									m		Good northern apple, subject to codling moth
Malus 'Honeycrisp'	HoneyCrisp	C														m	x	Subject to codling moth
Malus 'Jonathan'	Jonathan	B			x											m		Fireblight, subject to codling moth
Malus 'Liberty'	Liberty	C														m		Subject to codling moth
Malus 'McIntosh'	McIntosh	B			x											m		Fireblight, subject to codling moth
Malus 'Red Delicious'	Red Delicious	A														m		Subject to codling moth
Malus 'Royal Gala'	Royal Gala	B			x											m		Fireblight, subject to codling moth
Malus 'Sweet Sixteen'	Sweet Sixteen	C														m		Northern selection, subject to codling moth
Malus 'Yellow Delicious'	Yellow Golden Delicious	A														m		Subject to codling moth
Malus 'Zestar'	Zestar	C														m	x	Subject to codling moth
Malus	**Crabapple**																	
Malus 'Adams'	Adams	A														l-m	x	
Malus x 'Branzam'	Brandywine®	B			x											l-m		Large messy fruits, fireblight

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Malus x 'Centzam'	Centurion®	A														l-m		Disease resistant
Malus x 'Coralcole'	Coralburst™	A														l-m		Disease resistant
Malus 'David'	David	A														l-m	x	
Malus 'Dolgo'	Dolgo	B			x											l-m	x	Messy fruit; fireblight
Malus x 'Schmidtcutleaf'	Golden Raindrops®	D			x											l-m	x	Some fireblight
Malus 'Hopa'	Hopa	B			x											l-m	x	Some fireblight, messy fruit
Malus 'Indian Magic'	Indian Magic	A							x							l-m		Poor structure
Malus 'Indian Summer'	Indian Summer	A														l-m		
Malus ioensis	Bechtel 'Plena'	D			x											l-m	x	Fireblight
Malus 'Prairiefire'	Prairiefire	B			x											l-m		Fireblight
Malus ' Prairie Rose'	Prairie Rose	C														l-m	x	
Malus ' Profusion', 'Radiant'	Profusion, Radiant	A														l-m		
Malus 'Red Barron'	Red Barron	C														l-m	x	Fireblight
Malus 'Red Jade', 'Royalty'	Red Jade, Royalty	D			x											l-m	x	Fireblight
Malus 'Robinson', 'Royal Raindrops'	Robinson, Royal Raindrops	C														l-m	x	
Malus sargentii	Sargent	A			x											l-m		
Malus sargentii 'Tina'	Sargent Tina	C														l-m		
Malus 'Spring Snow'	Spring Snow	A			x											l-m		Some fireblight
Malus 'Thunderchild'	Thunderchild	A														l-m		
Malus 'Velvetcole'	Velvet Pillar™	C														l-m	x	
Morus alba	**White - 'Chaparral'**	B				x			x							m		Some dieback
Phellodendron amurense	**Amur corktree**	C														m	x	
Platanus x acerifolia	**London Planetree -'Bloodgood'**	C			x	x									x	m-h		Anthracnose
Populus	**Poplar (cottonwood)**																	
Populus angustifolia	Narrowleaf	B			x				x	x	x					l-m		Vigorous suckering; forms colonies. Use in native areas only
Populus deltoides	Eastern	B			x				x	x	x					m-h		Too big for residential use
Populus sargentii	Plains	A							x							m-h		Too big for residential use
Populus sargentii	Sargent, Straight Plains 'Jeronimus'	A														m		Too big for residential use
Populus tremula 'Erecta'	Upright European, Aspen	B			x					x	x					m		Unique form; prone to many diseases and insects
Populus tremuloides	Quaking Aspen	B			x					x	x					m		Better at high elevations, chlorosis at lower elevations, prone to many diseases & insects
Populus x acuminata	Lanceleaf	A							x		x					m		Too big for residential use
Populus x acuminata x sargentii	Highland	B			x				x		x					m		Too big for residential use
Populus x canescens 'Tower"	Tower	D			x					x	x					m	x	Prone to many diseases and insects
Prunus	**Apricot**																	
Prunus armeniaca	Chinese	A													x	m	x	Seldom sets fruit along the front range
Prunus armeniaca	'Moongold', 'Moorpark'	A														m	x	Great fall color; seldom sets fruit along the front range
Prunus	**Plum, Cherry**																	
Prunus avium 'Bali'	Bali	C														m		Semi- sweet cherry
Prunus avium 'Bing'	Bing	B				x									x	m	x	Seldom sets fruit along the front range
Prunus avium 'Stella Compact'	Stella Compact	B				x									x	m	x	Seldom sets fruit along the front range
Prunus cerasifera	Newport (Kankakee)	B			x					x						m		Borers
Prunus cerasifera	Newport (Minnesota)	B			x					x						m	x	Borers
Prunus cerasus	Cherry -'Montmorency', 'North Star'	A														m		
Prunus 'Frankthrees'	Cherry - Mt. Saint Helens®	B			x	x				x					x	m		
Prunus maackii	Amur Chokecherry	B			x										x	m	x	Root diseases if too wet
Prunus 'Mount Royal'	Cherry -Mount Royal	A														m		Self fruitful plum

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Prunus padus	European Birdcherry	A							x				x			m		Some breakage after storms
Prunus padus	European Birdcherry Summer Glow®	A							x							m	x	Some breakage after storms; red leaf form
Prunus persica 'Elberta', 'Polly'	Peach - Elberta, Polly	B				x									x	m		Seldom sets fruit along the front range
Prunus persica 'Reliance'	Peach - Reliance	B				x									x	m	x	Seldom sets fruit along the front range
Prunus 'Santa Rosa'	Plum - Santa Rosa	A														m		Needs a cross pollinator
Prunus 'Stanley'	Plum - Stanley	A														m		Self fruitful plum
Prunus 'Superior'	Plum - Superior	A														m	x	Needs a cross pollinator
Prunus 'Toka'	Plum - Toka	A														m	x	Needs a cross pollinator
Prunus virginiana	Common Chokecherry - 'Canada Red', 'Schubert'	B			x				x	x	x					l-m		Tree form suckers, best as shrub
Prunus x fontanesiana	Plum - Des Fontaines	C														m	x	Zone 3 ornamental cherry; long lived for a *Prunus*
Ptelea trifoliata	**Wafer ash, Hoptree**	A							x			x				l-m	x	Best as a multi-stem
Pyrus	**Pear**																	
Pyrus	Pear - 'Bartlett', 'Early Gold', 'Golden Spice', 'Luscious', 'Parker'	B			x											l-m		Fireblight
Pyrus	Pear - 'Summercrisp'	B														l-m	x	
Pyrus calleryana	Callery - 'Bradford'	D				x			x	x						l-m		
Pyrus calleryana	Callery - 'Aristocrat', 'Chanticleer', 'Cleveland Select'	A														l-m		
Pyrus calleryana	Callery - 'Autumn Blaze'	B			x											l-m		Fireblight
Pyrus calleryana	Callery - 'Capital'	A			x											l-m		
Pyrus calleryana	Callery - 'Redspire'	A														l-m		
Pyrus ussuriensis	Ussurian - 'Prairie Gem', 'Burgandy'	B			x											l-m	x	More cold hardy then *P.calleryana* , fireblight
Pyrus ussuriensis	Ussarian - 'Mt. Frost'	B			x											l-m	x	Fireblight
Quercus	**Oak**																	
Quercus alba	White	B	x	x			x									l-m	x	Develops chlorosis in alkaline soils
Quercus bicolor	Swamp White	B	x				x									m		Develops chlorosis in alkaline soils
Quercus buckleyi	Texas Red	C				x										l	x	Many seed sources not predictably hardy
Quercus ellipsoidalis	Northern Pin	C	x													m	x	Develops chlorosis in alkaline soils
Quercus gambelii	Gambel	A									x					l		
Quercus macrocarpa	Bur	A														l-m		
Quercus muehlenbergii	Chinkapin	A														l-m	x	From northern seed source
Quercus robur	English	A														l-m		
Quercus robur	English 'Columnaris'	B				x										l-m		
Quercus robur	English 'Skyrocket', 'Skymaster'	C														l-m	x	
Quercus rubra	Red	B	x													m		Develops chlorosis in alkaline soils
Quercus shumardii	Shumard	B				x										l-m		From a northern source
Quercus undulata	Wavyleaf	A														l		
Quercus alba x robur	Crimson Spire®	A														l-m		
Quercus robur x bicolor	Regal Prince®	C														l-m		
Robinia pseudoacacia	**Black Locust - 'Purple Robe'**	D			x				x	x						l-m		Highly susceptible to borer damage
Salix	**Willow**																	
Salix alba	Niobe Weeping - 'Tristis'	B			x				x							h		Aphids and cankers
Salix alba	Russian Golden - 'Vitellina'	B			x				x							h	x	Aphids and cankers
Salix amygdaloides	Peachleaf	B			x				x							l-m	x	Aphids and cankers

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Botanical Name	Variety or Common Name	Rating	Cultural Factors															Comments:
Plant Nomenclature from *Manual of Woody Landscape Plants* by Michael A. Dirr 2009 edition.			Critical					Cautionary								Other		
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Salix matsudana	Globe - 'Navajo'	D			x	x			x							h	x	Aphids and cankers
Salix x 'Prairie Cascade'	Prairie Cascade	B							x							h		Aphids and cankers
Sophora japonica	**Japanese Pagodatree**	B				x		x	x						x	m	x	
Sorbus	**Mountain-ash**																	
Sorbus intermedia	Swedish Whitebeam	C						x								m	x	
Sorbus aucuparia	European	B			x			x								m	x	Fireblight
Sorbus aucuparia	European - Cardinal Royal®	B			x			x								m	x	Fireblight
Sorbus x hybrida	Oak Leaf	C						x								m	x	
Syringa	**Lilac**																	
Syringa pekinensis	Peking - 'Summer Charm'	C														l-m	x	
Syringa reticulata	Japanese -'Ivory Silk'	A														l-m		
Tilia	**Linden**																	
Tilia americana	American- 'Legend', 'American Sentry'	A														m		Not tolerant of road salts
Tilia cordata	Littleleaf - Greenspire®	A														m		Not tolerant of road salts
Tilia tomentosa	Silver - 'Sterling Silver'	A														m	x	Not tolerant of road salts
Tilia cordata x mongolica	'Harvest Gold'	C														m	x	
Tilia x flavescens	'Glenleven'	A												x		m		Not tolerant of road salts
Tilia x euchlora	'Redmond'	A												x		m		Not tolerant of road salts
Ulmus	**Elm**																	
Ulmus americana	American - 'Princeton'	C			x											l-m	x	Some susceptibility to DED, scale
Ulmus americana	American - 'Valley Forge' 'Triumph'	C														l-m		Good DED resistance, scale
Ulmus davidiana	David	C														l-m	x	
Ulmus propinqua	'Emerald Sunshine'	C														l-m	x	Holds leaves late
Ulmus wilsoniana	'Prospector'	C														l-m	x	Holds leaves late
Ulmus japonica x U. pumila	'Vanguard'	C														l-m	x	Not best growth habit
Ulmus japonica x U. wilsoniana	'Accolade' 'Triumph'	C														l-m	x	
Ulmus minor x U. parvifolia	'Frontier'	C				x										l-m	x	Subject to early fall frost
Ulmus 'Urban' x U. wilsoniana	'Patriot'	C														l-m	x	Narrower growth habit
Ulmus wilsoniana x U. pumila x U. minor	'Commendation'	C														l-m	x	Early frequent pruning needed when young
Xanthoceras sorbifolium	**Yellowhorn, Clear Creek®**	C														l-m	x	
Zelkova serrata	**Japanese Zelkova**																	
Zelkova serrata	'Musashino'	C				x										m		
Zelkova serrata	'Green Vase'	C				x										m		
Zelkova serrata	'Village Green'	C				x										m		

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Abies concolor	**White Fir**	B	x			x	x									m		Needs more moisture; needs well drained soil; chlorosis
Cedrus libani	**Cedar of Lebanon**	C		x												m	x	
Juniperus	**Juniper**																	
Juniperus chinensis	Chinese - 'Blue Point', 'Spartan', 'Spearmint'	B		x		x									x	l-m		
Juniperus chinensis	Chinese - 'Hetzi Columnaris'	A														l-m		
Juniperus monosperma	One-Seed	A														l	x	Needs a dry site.
Juniperus osteosperma	Utah	A														l	x	Needs a dry site.
Juniperus scopulorum	Rocky Mountain	A														l	x	
Juniperus scopulorum	Rocky Mountain - 'Welchii', 'Gray Gleam', ' Cologreen', 'Sky Rocket', 'Wichita Blue', 'Moonglow', 'Medora'	A														l		
Juniperus virginiana	Eastern Red Cedar - 'Hillspire', 'Idyllwild,' 'Blue Arrow', 'Taylor'	A													x	l-m		Will not take windy sites
Juniperus virginiana	Eastern Red - 'Manhattan Blue'	A													x	l-m	x	
Larix decidua	**European Larch**	B														m-h		
Metasequoia glyptostroboides	**Dawn Redwood**	C		x		x									x			
Picea	**Spruce**																	
Picea abies	Norway - 'Cupressina'	B													x	m-h		Will not take windy sites; needs a more protected area
Picea glauca	Black Hills 'Densata'	A														m-h	x	
Picea omorika	Serbian	B		x		x										m-h	x	
Picea pungens	Colorado	A			x											m-h		Tussock moth in large trees
Picea pungens glauca	Colorado Blue - 'Baby Blue Eyes', 'Bakeri', 'Fastigiata', 'Fat Albert', Hoopsii, 'Colorado Weeping' ,'Sester's Dwarf'	A			x											m-h		Possible IPS problem
Pinus	**Pine**																	
Pinus aristata	Bristlecone(foxtail)	B				x										l-m		Slow growing
Pinus bungeana	Lacebark	C														m-h	x	
Pinus cembra	Swiss Stone Pine	C		x												l-m		
Pinus contorta	Lodgepole	B			x											l-m	x	Chlorosis at lower elevations; susceptible to Mountain Pine Beetle
Pinus edulis	Pinyon	A			x											l-m		Pitch borer, tip moth, Pine Beetle.
Pinus flexilis	Limber	A														l-m		
Pinus flexilis	'Vanderwolf's Pyramid'	A														l-m		
Pinus heldreichii	Bosnian var. leucodermis	A													x	m	x	
Pinus heldreichii	Bosnian var. leucodermis - 'Emerald Arrow', 'Iseli Fastigiata'	C													x	m	x	
Pinus monophylla	Singleleaf Pinyon	C														l	x	
Pinus mugo	Mugo - ' Big Tuna','Tannenbaum'	A														l-m		
Pinus nigra	Austrian	A														m		Some Zimmerman Pine Moth
Pinus nigra	Austrian - 'Arnold's Sentinel'	B			x											m		
Pinus ponderosa	Ponderosa	B			x											l-m		Mountain Pine Beetle
Pinus strobus	Eastern White	B	x			x									x	m		Develops chlorosis in alkaline soils; will not take windy sites
Pinus strobiformis	Southwestern White	A														l-m		
Pinus sylvestris	Scotch	B			x			x								m	x	Mountain Pine Beetle
Sequoiadendron giganteum	**Giant Sequoia - 'Hazel Smith'**	C		x											x	m-h	x	
Taxodium distichum	**Baldcypress**																	
Taxodium distichum	Baldcypress - 'Frio River'	C		x												m-h	x	
Thuga occidentalis	**Eastern Arborvitae - 'Emerald', 'Techny', 'Degroots Spire'**	B													x	m-h		More protected area
Thuja standishii x Thuja plicata	Green Giant	B													x	m-h	x	More protected area

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