

City of Thornton Deciduous Tree List

Nomenclature		Characteristics					Uses					Specifics		
Botanical Name	Common Name	Size Group	Water Demand (Kc)	Design Size (H'xW")	Salt Tolerant	Needs Protected Site	Median & Back of Curb	Back of Street	Parking Lot Islands	Drainages	Dry Uplands	Parks	Suggested Cultivars & Hybrids	Notes
Acer x freemanii	Freeman's Maple (i.e. 'Autumn Blaze')	Shade	Moderate	30x35				X						No Cultivars Permitted in Development Project Landscapes (example: 'Autumn Blaze', 'Autumn Fantasy', 'Sienna Glen' and 'Celebration')
Acer campestre	Hedge Maple	Shade	Moderate to Min	25x25, 30x30	X			X				X		Tolerates dry soil, Intolerant of soil compaction
Acer campestre	Panacek, Metro Gold Hedge Maple		Min	30x15	X									Tolerates dry soil, Intolerant of soil compaction
Acer campestre	JFS Shichtel2, Streetside Maple		Min	32x15	X									Tolerates dry soil, Intolerant of soil compaction. Availability may be limited
Acer ginnala	Ginnala (Amur) Maple	Ornamental	Low	15x15	X		X	X	X		X	X		Chlorosis issues <u>use sparingly</u> . Avoid in alkaline soils.
Acer glabrum	Rocky Mountain Maple	Ornamental	Low to Mod	10x8, 20x13		X	X	X	X		X	X		Heat tolerance can be a concern
Acer grandidentatum	Wasatch Maple	Ornamental	Low	20x15, 25x25	X		X	X	X		X	X	Rocky Mountain Glow, Manzano, Big Tooth	Trees for xeriscapes
Acer grandidentatum x saccharum	Hipzam, Highland Park Maple		Min	35x22									Orbit, Canyon Treasure Bigtooth Maple	Faster growing and more upright. More heat and drought tolerant . Orbit very cold hardy limited availability
Acer griseum	Paperbark Maple	Ornamental	Moderate	15x20, 25x20				X				X		Very slow growing, attractive exfoliating bark. Intolerant of extended drought. Not recommended for planting in or near hardscape. Availability limited
Acer griseum	JFS KW8AGRI, Fireburst Paperbark Maple			22x15										Fast growing, intolerant of extended drought, not recommended to plant in or near hardscapes.
Acer miyabei	Miyabe Maple	Shade	Moderate	25x20, 45x35				X				X	State Street, Rugged Ridge	Unique, thick bark resists frost cracking, drought tolerant, chlorosis resistant; pest free
Acer negundo	Sensation Box Elder	Shade	Low	40x30	X			X		X	X	X	Sensation	
Acer platanoides	Norway Maple	Shade	Moderate	30x35	X		X	X				X	Emerald Queen, Hybrids - Norwegian Sunset, Pacific Sunset, Columnar, Schwedler	Emerald Queen is very tough; Purple leaf varieties do not do well so do not use. Drought Tolerant
Acer pseudosieboldianum	Northern Spotlight,		Mod	15x20										Cold hardy maple, leaves resistant to scorch, persist through winter. Thin bark maybe easily damaged. Availability may be limited
Acer rubrum	Red Maple	Shade	Moderate	40x30				X				X	Red Sunset, Armstrong	Avoid very alkaline soils. Needs to be planted in irrigated location.
Acer saccharum	Sugar Maple	Shade	Moderate	50x30				X				X	Legacy, Green Mountain, Fall Fiesta, John Pair Caddo Maple, Autumn Splendor Caddo Maple, Flashfire Caddo Maple, Oregon Trail Maple, Northern Flare Sugar Maple	Drought tolerant, heat tolerant, alkaline soil tolerant cultivars, and good scorch resistance
Acer tataricum	Tatarian Maple	Ornamental	Low	15x15	X		X	X	X		X	X	Hot Wings, Pattern Perfect, Rugged Charm	Hot Wings is outstanding in Thornton...better choice than ginnala rarely suckers
Acer truncatum x platanoides	Urban Sunset Maple		Min	35x20										Minimal pruning is required. Produces few seeds
Acer truncatum x platanoides	Crimson Sunset Maple		Min	30x20										More heat and drought tolerant than parent species. Thin bark may be easily damaged.
Acer truncatum x platanoides	Norwegian Sunset Maple		Min	30x20										More heat and drought tolerant than parent species. Thin bark may be easily damaged. Japanese beetle resistant.
Acer truncatum x platanoides	Pacific Sunset Maple		Min	27x20										More heat and drought tolerant than parent species. Thin bark may be easily damaged. Japanese beetle resistant.
Aesculus glabra	Ohio Buckeye	Shade	Moderate	30x35								X		Tough to transplant, intolerant of excess heat and drought. Powdery mildew, leaf scorch, and leaf drop may be issues. Heavy Losses in Thornton

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Aesculus hippocastanum	Horse Chestnut	Shade	Moderate	30x35, 60x40	X			X				X		Tolerant of restricted growing areas. Intolerant of excess heat and drought. Powdery mildew, leaf scorch, and leaf drop may be issues. May be subject to storm breakage; avoid planting in high wind areas. Best used in large open lawn areas.
Aesculus hippocastanum	Baumann		MOD	45x36										Recommended over standard horsechestnut Tolerant of restricted growing areas. Intolerant of excess heat and drought. Powdery mildew, leaf scorch, and leaf drop may be issues. May be subject to storm breakage; avoid planting in high wind areas.
Amelanchier alnifolia	Saskatoon Serviceberry													Best used as multistem. Difficult to establish, not drought tolerant. Plant in beds only.
Amelanchier canadensis	Shadblow Serviceberry	Ornamental	Moderate	20x15	X					X		X		Difficult to establish, not drought tolerant. Plant in beds only. Thin bark may be easily damaged.
Amelanchier grandiflora	Apple Serviceberry	Ornamental	Min to Mod	15x15	X			X		X		X	Autumn Brilliance	Difficult to establish, not drought tolerant. Plant in beds only. Cold hardy, Thin bark may be easily damaged. *Robin Hill best single stem form.
Catalpa speciosa	Western Catalpa	Shade	Low	40x20, 50x35	X			X	X		X	X		Not in medians due to fruit. Heat, drought, and alkaline soil tolerant. Decay when wounded or as tree ages may be an issue.
Celtis occidentalis	Hackberry	Shade	Low	35x30	X		X	X	X		X	X	Prairie Pride, Chicagoland	Transplant in spring (B&B), Drought Tolerant
Celtis occidentalis	Prairie Sentinel Hackberry		Xeric to Min	45x12										Columnar cultivar of parent species. Tolerant of urban growing conditions, including confined planting species. Intolerant of mechanical damage. Transplant in spring (B&B)
Cercis canadensis	Eastern Redbud	Ornamental	Moderate	20x20		X		X				X		Tolerant of partial shade. Plant in protected area.
Cercis canadensis	Forest Pansy Redbud		Min to Mod	15x20										Tolerant of partial shade. Plant in protected area.
Cercis canadensis	Northern Herald Redbud		Min to Mod	22x28										Cold hardy variety of parent species. Tolerant of urban conditions.
Cercis canadensis	Rising Sun Redbud		Min to Mod	13x18										Tolerant of partial shade. Plant in protected area.
Cornus alternifolia	Pagoda Dogwood	Ornamental	Moderate	20x15		X		X				X		Needs good soil; Part sun to shade
Cornus mas	Cornelian Cherry Dogwood	Ornamental	Moderate	15x10				X				X		Flowers emerge before leaves. Highly resistant to storm damage due to hard, dense wood.
Crataegus ambigua	Russian Hawthorn	Ornamental	Ultra Low	15x20	X		X	X	X		X	X		Greater leaf blotch resistance and less leaf drop than other Aesculus species. Leaf scorch may be an issue in windy, exposed sites.
Crataegus crus-galli	Cockspur Hawthorn		Low	20x15										Snowy white flowers and red fruit Glossy. Native areas only
Crataegus crus-galli inermis	Thornless Cockspur Hawthorn	Ornamental	Low	12x10	X		X	X	X		X	X		Thornless,extensive fruit litter may be an issue.
Crataegus douglasii	Douglas Hawthorn													Drought Tolerant
Crataegus laevigata	English Hawthorn	Ornamental	Low	18x12			X	X	X			X	Crimson Cloud	Thorns
Crataegus mollis	Downy Hawthorn	Ornamental	Low	25x25			X	X	X		X	X		Thorns, Snowy white flowers in spring. Red fruit late summer. Bronze fall color.
Crataegus phaenopyrum	Washington Hawthorn	Ornamental	Low	15x12	X		X	X	X		X	X		Thorns

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<i>Crataegus viridis</i>	Winter King Hawthorn	Ornamental	Low	12x15	X		X	X	X		X	X	Winter King	More disease resistant cultivar. Mostly spineless.
<i>Crataegus x carrierei</i>	Lavalle Hawthorn	Ornamental	Ultra Low	15x15	X		X	X	X			X		Very tough; persistent red fruit
<i>Gleditsia triacanthos inermis</i>	Thornless Honeylocust	Shade	Low	35x30	X		X	X	X		X	X	Imperial, Halka	Do not use in irrigated turf - well drained beds only
<i>Gleditsia triacanthos inermis</i>	Moraine Honeylocust		Xeric	40x40	X									Thornless and fruitless cultivar. Genus overplanted in Denver Region, Beds only not allowed in turf.
<i>Gleditsia triacanthos inermis</i>	Northern Acclaim Honeylocust		Xeric	40x30	X									Thornless and fruitless cultivar. Genus overplanted in Denver Region, Beds only not irrigated turf.
<i>Gleditsia triacanthos inermis</i>	Shademaster Honeylocust		Xeric	40x30	X									Thornless and fruitless cultivar. Central leader less present than Skyline. Genus overplanted in Denver Region. Drought Tolerant. Use in beds only not in irrigated
<i>Gleditsia triacanthos inermis</i>	Skyline Honeylocust		Xeric	40x30	X									Thornless and fruitless cultivar. Tree features strong central leader. Form is more upright than Shademaster. Genus overplanted in Denver Region. Drought Tolerant. Use in beds only not in irrigated turf.
<i>Gleditsia triacanthos inermis</i>	Street Keeper Honeylocust		Xeric	40x15	X									Columnar cultivar of parent species. Thornless and fruitless. Genus overplanted in Denver region. Use in Shrub beds not in irrigated turf.
<i>Gleditsia triacanthos inermis</i>	True shade Honeylocust		Xeric	40x30	X									Thornless and fruitless cultivar. Faster growth rate and better branch angles than other cultivars. Genus overplanted in Denver region. Use in shrub beds not in irrigated turf.
<i>Gymnocladus dioicus</i>	Kentucky Coffeetree	Shade	Ultra Low	45x35, 60x40	X		X	X	X		X	X	Espresso (seedless), Prairie Titan (seedless), Stately manor (seedless, narrow upright)	Slow to establish. Tolerant of urban growing conditions. No known insect or disease issues. Drought Tolerant. Use in shrub beds not in irrigated turf.
<i>Hibiscus syriacus</i>	Rose of Sharon		mod	12x6										Should be planted in protected site. Use in shrub beds not irrigated turf.
<i>Koelreuteria paniculata</i>	Goldenrain Tree	Ornamental	Low	20x20	X		X	X	X		X	X	Panicled	Volunteer seedlings could be an issue in mulched areas.
<i>Koelreuteria paniculata</i>	Summer Burst Goldenraintree		Xeric	30x30										Cultivar more heat resistant than parent species. Volunteer seedlings could be an issue in mulched areas.
<i>Maackia amurensis</i>	Amur Maackia		Xeric	25x20									Maackia Nifent Amur Maackia	Tolerant of urban conditions, including drought.
<i>Maackia amurensis</i>	Summertime Amur Maackia		Xeric	20x17									Starburst Amur Maackia	Smaller cultivar of parent species. Tree displays low branching habit. Plant where overhead clearance is not an issue.
<i>Malus spp.</i>	Crabapple	Ornamental	Moderate	15x15	X		X	X				X	Spring Snow, Red Splendor, Radiant,... multiple varieties. Refer to notes.	Use any Crab listed on CSU's disease resistant list except 'Prairiefire' due to poor form and hardiness
<i>Morus alba</i>	White - 'Chaparral'													some die back.
<i>Ostrya virginiana</i>	American Hophornbeam	Ornamental	Low	40x20, 30x30, 25x15	X		X	X	X			X	Sun Beam American (camdale) <u>Availability may be limited.</u> Ironwood	Tolerant of urban conditions. Tree is slow to establish, plant in early spring. Shallow root system.

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Parrotia persica	Persian Ironwood		Min	30x30										Few issues once established. <u>Availability may be limited.</u>	
Platanus x acerifolia	London Planetree	Shade	Moderate	50x40				X				X	Bloodgood, Exclamation, Morton Circle	May have anthracnose issues in wet springs. Large root system requires large tree lawn.	
Populus x acuminata	Lanceleaf Cottonwood	Shade	Moderate	60x20						X	X	X	Highland	Not within 25 ft. of ROW Too big for residential use. Populus species discouraged	
Populus angustifolia	Narrowleaf Cottonwood													Use with permission of Senior LA only Vigorous suckering; forms colonies. <u>Use in native areas only.</u>	
Populus sargentii	Plains Cottonwood	Shade	Moderate	60x40						X	X	X	Jeronimus, Highland	Not within 25 ft. of ROW. Use with permission of Senior LA only. Populus species discouraged	
Populus tremula erecta	Swedish Columnar Aspen	Shade	Moderate	40x10	X			X				X	Erecta, Upright European Aspen		
Prunus americana	American Wild Plum	Ornamental	Ultra Low	10x8							X			Thicket-forming; thorny; native areas only	
Prunus ceracifera	Purple-leaf Plum	Ornamental	Moderate	15x15				X				X	Newport, Crimson Pointe, 'Atropurpurea'	Limit to 5%; borers. <u>Avoid wet sites.</u>	
Prunus maackii	Chokecherry, Amur		Mod	25x20										Striking, shiny orange-red bark. White flowers.	
Prunus padus	Cherry, European Bird		Mod	30x20										Fragrant chains of white flowers in spring. Fruit good for jellies.	
Prunus virginiana	Native Choke Cherry	Ornamental	Low	15x10	X					X	X		P002's Sucker Punch (No Shubert to be used)	Sucker Punch variety only to be used. Non-suckering cultivar of Parent species. <u>Availability may be limited.</u>	
Pyrus calleryana	Callery Pear	Ornamental	Low	20x15	X		X	X	X			X	X	Chanticleer, Autumn Blaze, Aristocrat, Capital, Redspire	Tolerant of urban conditions, Greater fireblight resistance than other cultivars (Chanticleer)
Pyrus calleryana	Jack Pear		Min to Mod	12x8										Dwarf cultivar of parent species.	
Pyrus fauriei	Korean Sun Pear	Ornamental	Low	12x12	X		X	X	X			X	Korean Sun	Fast growing dwarf. Cultivar is more cold hardy than parent species.	
Pyrus ussuriensis	Ussurain Pear	Shade	Low	20x15	X		X	X	X			X	Prairie Gem, Mountain Frost Ussurian Pear	Greatest cold hardiness among pear species. Fireblight resistant. (Fruiting is typically sparse Mountain Frost Ussurian Pear) (Fruiting may be abundant if planted adjacent to other pear cultivars)	
Quercus alba	White Oak	Shade	Low	50x35, 60x60	X			X				X		Difficult to find, Relatively slow growing. Maybe intolerant of alkaline soils. Chlorosis may be an issue.	
Quercus alba x robur	Crimson Spire Oak	Ornamental	Low	35x12	X		X	X	X			X	Crimson Spire	Best upright oak	
Quercus bicolor	Swamp White Oak	Shade	Low	50x35	X			X		X		X	American Dream Oak	Chlorosis issues use sparingly. Tolerant of urban conditions including periodic flooding, soil compaction, and drought. May be susceptible to bullet gall.	
Quercus bicolor	Beacon Oak		Mid to Mod	35x12										Tolerant of urban conditions including periodic flooding, soil compaction, and drought. May be susceptible to bullet gall. Chlorosis may be an issue.	
Quercus x bimundorum	Prairie Stature Oak	Shade	Low	50x35	X		X	X	X		X	X	Prairie Stature	Difficult to find. Quercus robur x alba, Cold hardy hybrid of English and white oak. Tolerant of alkaline soils.	
Quercus buckleyi	Texas Red Oak	Shade	Low	50x35	X		X	X	X		X	X		aka - Q. texana, Tolerant of alkaline soils and drought. <u>Check seed source for hardiness and soil tolerance.</u>	
Quercus coccinea	Scarlet Oak	Shade	Moderate	50x35			X	X	X			X		Better in Thornton than Q. rubra; needs good soil.	
Quercus gambelii	Gamble Oak	Ornamental	Ultra Low	15x10	X						X	X		Transplant issues. Root suckers may be an issue. Prune to develop single stem form. Kermes scale is an increasing issue. Spreads by root sprouts; often shrubby. Needs acid, well-drained soils to do well.	
Quercus imbricaria	Shingle Oak	Shade	Moderate	50x35				X				X		Difficult to find but does well in Thornton. May be intolerant of alkaline soils. Transplant in the spring for best survivability. Large root system requires large tree lawn. Chlorosis may be an issue.	

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Quercus macrocarpa	Bullet Proof Bur Oak		Xeric	70x60	X		X	X	X		X	X		Tolerant of urban conditions. High resistance to bullet gall. Large root system requires large tree lawn.
Quercus macrocarpa	Cobblestone Oak		Xeric	50x40										Bark displays more cork-like features than parent species.
Quercus macrocarpa	Urban Pinnacle Oak		Xeric	50x20										Tree features strong central leader
Quercus x macdanielii	Heritage Oak	Shade	Low	50x35	X		X	X	X		X	X	Heritage	Difficult to find; Quercus robur x macrocarpa. More cold hardy than English Oak
Quercus muehlenbergii	Chinkapin Oak,	Shade	Low	50x35	X		X	X	X		X	X	Red Autumn Chinkapin Oak (open to try unproven area)	Proven tough in Thornton. Tolerant of alkaline soils. Transplant in spring for best survival.
Quercus robur	English Oak	Shade	Low	50x35	X		X	X	X			X	Skymaster	Best oak for ROW; Proven tough in Thornton, Tolerant of urban conditions. Kermes scale is an increasing issue. Drought Tolerant
Quercus robur 'Fastigiata'	Columnar English Oak		Mod	50x20										
Quercus robur	Rosehill Oak		Xeric to Min	40x20										Columnar hybrid of English Oak. Tolerant of urban conditions. Kermes scale may be an issue
Quercus robur	Skyrocket Oak		Xeric to Min	45x15										Columnar cultivar of English Oak. Tighter growth habit than species. Tolerant of urban conditions. Kermes scale may be an issue.
Quercus robur x alba	Crimson Spire Oak		Xeric to Min	45x15										Columnar hybrid of English and White Oak. Tolerant of urban conditions. Proven in Denver region. Kermes scale may be an issue.
Quercus robur x alba	Forest Knight Oak		Xeric to Min	45x35										Columnar hybrid of English and White Oak. Tolerant of urban conditions. Kermes scale may be an issue.
Quercus robur x alba	Skinny Genes Oak		Xeric to Min	45x10										Narrowest form of columnar English and White Oak hybrids. Tolerant of urban conditions. Kermes scale may be an issue.
Quercus robur x alba	Streetspire Oak		Xeric to Min	45x12										Columnar hybrid of English and White Oak. Tolerant of urban conditions. Leaves are not persistent. Highly resistant to storm damage. Kermes scale may be an issue.
Quercus robur x warei	Regal Prince Oak	Ornamental	Low	45x18	X		X	X	X			X	Long' Regal Prince	Columnar hybrid of English and Swamp White Oak. Tolerant of urban conditions
Quercus robur x bicolor	Kindred Spirit Oak		Xeric to Min	30x6										Columnar hybrid of English and Swamp White Oak. Tolerant of urban conditions. Kermes scale may be an issue.
Quercus robur x macrocarpa x muehlenbergii	Triple Crown Oak		Xeric to Min	60x35										Hybrid of English, Chinkapin, and bur Oak. Tolerant of urban conditions. <u>Availability may be limited.</u> Kermes scale may be an issue.
Quercus rubra	Red Oak	Shade	Moderate	50x35	X		X	X	X			X		Chlorosis issues use sparingly. Avoid very alkaline soils.
Quercus x mazei	Colorado Foothills Oak		Xeric	35x35										Hybrid of Gambel and Bur Oak. Root suckers may be an issue. Prune to develop single stem form.
Quercus undulata	Wavy Leaf Oak		Xeric to Min	20x16										Natural hybrid of Q. gambelli x Q. turbinella. Small, slow growing oak with similar form as Gambel Oak
Salix amygdaloides	Peachleaf Willow	Shade	High	50x35						X				Wet, native only. It is discouraged to use.
Salix 'Prairie Cascade'	Prairie Cascade Willow	Shade	High	35x35						X			Prairie Cascade	Salix alba var. Tristis x pentandra, hardy. It is discouraged to use.
Sophora japonica	Japanese Pagodatree	Shade	Moderate	35X30	X		X					X		
Sorbus intermedia	Swedish Whitebeam	Ornamental	Moderate	20x20			X					X		
Stphnolobium japonicum	Japanese Pagodatree		Min	50x50										Tolerant of urban conditions, including heat, drought, and compacted soils. Tranplant in spring for best survivability. Storm damage, canker, and twig blight may be issues. Formerly known as Sophora japonica. May be prone to storm damage.

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Sophora japonica	Japanese Pagodatree		Min	40x35									Regent', 'Halka'	Tolerant of urban conditions, including heat, drought, and compacted soils. Faster growing, improved growth habit, and greater disease resistance than parent species. Transplant in spring for best survivability. Storm damage may be an issue.
Syringa pekinensis	Pekin Lilac	Ornamental	Low	15x15	X		X	X	X			X	China Snow, Beijing Gold, Summer Charm, Great Wall Tree Lilac	Tolerant of urban conditions, including alkaline soils. Intolerant of poorly drained soils.
Syringa reticulata	Japanese Tree Lilac	Ornamental	Low	20x15	X			X				X	Ivory Silk	Difficult to establish. Tolerant of urban conditions, including alkaline and clay soils. Showy, reddish-brown bark. Prune to develop single stem form and overhead clearance.
Syringa reticulata ssp pekinensis	Copper Curls Peking Tree Lilac		Xeric to Min	25x20	X									Tolerant of urban conditions, including alkaline soils. Growth habit is more open than parent species. Exfoliating copper-colored bark. Prune to develop single stem form and overhead clearance. NDSU introduced - Availability may be limited.
Tilia americana	American Linden	Shade	Moderate	40x30				X				X	Legend, Boulevard, Continental Appeal, American Sentry, Lincoln	<u>Salt sensitive.</u> Flowers are significant source of nectar for bees. Intolerant of urban conditions, particularly heat. <u>Not recommended for planting in or near hardscapes.</u>
Tilia americana x euchlora	Redmond		Moderate	40x30										Flowers are significant source of nectar for bees. Intolerant of heat. Not recommended for planting in or near hardscapes.
Tilia x euchlora	Crimean Linden		Moderate	30x30										Flowers are significant source of nectar for bees. Intolerant of heat. Not recommended for planting in or near hardscapes. Narrow crotch branch habit may result in storm breakage.
Tilia cordata	Littleleaf Linden	Shade	Moderate	40x30				X				X	Greenspire, Shamrock, Chancellor, Corinthian, Golden Cascade, Glenleven	Salt Sensitive. Flowers are significant source of nectar for bees. Intolerant of heat. Not recommended for planting in or near hardscapes.
Tilia cordata	Summer Sprite		Moderate	20x15										Dwarf cultivar of species. Flowers are a significant source of nectar for bees. Intolerant of heat. Not recommended for planting in or near hardscapes.
Tilia cordata x mongolica	Harvest Gold Linden	Shade	Moderate	40x30				X				X	Harvest Gold	Salt sensitive, Hybrid of Mongolian and Littleleaf Linden. Flowers are significant source of nectar for bees. Hardier and faster growing than parents species. Intolerant of heat, not recommended for planting in or near hardscapes.
Tilia x flavescens	Glenleven Linden		Moderate	45x25										Faster growing and more open growth habit than Greenspire. Flowers are significant source of nectar for bees. Intolerant of heat, not recommended for planting in or near hardscapes.
Tilia tomentosa	Silver Linden	Shade	Moderate	40x30				X				X	Sterling, Green mountain	Salt sensitive. Flowers are significant source of nectar for bees. Intolerant of heat, not recommended for planting in or near hardscapes.
Ulmus americana	American Elm	Shade	Moderate	50x35	X		X	X	X		X	X	New Harmony, Princeton, Jefferson Elm, Prairie Expedition American Elm,	Only Use Dutch Elm Disease Resistant varieties. Fast growth rate. Shallow root system.
Ulmus x spp.	Hybrid Elms	Shade	Low	50x25				X				X	Accolade, Commendation, Homestead, Prospector, Triumph, Denada Charm, New Horizon Elm	Many disease resistant hybrids of various parentage. Cold hardy, slower growing cultivar. Tolerant of urban conditions.

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Ulmus glabra x carpinifolia	Pioneer		Moderate	50x45										Resistant to Dutch elm disease. Highly susceptible elm leaf beetle. Per CSU trials, tree may be susceptible to scale.
Ulmus davidiana	David Elm , Green stone Elm		Moderate	50x30										Cold hardy. Resistant to Dutch elm disease and elm leaf beetle. Scale resistance unknown.
Ulmus davidiana var japonica	Discovery, Freedom, Northern Empress Japanese		Moderate	30x30										Cold hardy variety. Resistant to Dutch Elm disease and elm leaf beetle. Availability may be limited.
Ulmus (japonica x wilsoniana Morton) x (Pumila x carpinifolia)	Commendation Elm		Min to Mod	50x40										Fast growth rate, but easier to maintain good branching form than other hybrids. Resistant to Dutch elm disease. Susceptible to elm leaf beetle. Tolerant of urban conditions. Large root system requires large tree lawn.
Ulmus parvifolia	Allee Lacebark Elm, Central Park Splendor		Mod	45x30									Evergreen Elm	High resistance to Dutch elm disease and elm leaf beetle. Resistance to scale unknown.
Ulmus (wilsoniana x pumila Accolade) x carpinifolia x glabra	Partriot Elm		Moderate	45x35	x									Fast growth rate. Highly resistant to Dutch elm disease. May be susceptible to scale. Not as drought tolerant as other hybrids.
Zelkova serrata	City Sprite		xeric to mod	20x15										Dwarf cultivar of species. Tolerant of urban conditions. Susceptible to canker from mechanical injury. Plant in spring where overhead clearance is not an issue. Prune in the fall to develop strong branching structure.
Zelkova serrata	Village Green		xeric to mod	45x30									Japanese Zelkova	Faster growth rate. Tolerant of urban conditions. Susceptible to canker from mechanical injury. Village green is the most cold hardy.
Zelkova sinica	Chinese Zelkovia		xeric to mod	35x35										Resistant to elm leaf beetle. Exfoliation cinnamon-colored bark.

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City of Thornton Evergreen Tree List

Nomenclature		Characteristics					Uses					Specifics		
Botanical Name	Common Name	Size Group	Water Demand (Kc)	Design Size (H'xW")	Salt Tolerant	Needs Protected Site	Median & Back of Curb	Back of Sidewalk	Parking Lot Islands	Drainages	Dry Uplands	Parks	Suggested Cultivars & Hybrids	Notes
Abies concolor	White Fir	Large	Moderate	50x20								X	Blue Cloak (smaller)	Roots need constant moisture so use in sod. May perform poorly in clay soils.
Cupressus arizonica	Arizona Cypress	Small	Low	20x8				X			X	X		
Juniperus chinensis	Chinese Juniper												Torulosa, Kaizuka	Drought-tolerant
Juniperus communis	Common Juniper		Low	2x6										
Juniperus monosperma	Oneseed juniper		Xeric	20x20										Among the most drought-enduring evergreens.
Juniperus osteosperma	Utah Juniper													Drought tolerant needs a dry site
Juniperus scopulorum	Rocky Mountain Juniper	Small	Ultra Low	20x10					X		X		Blue Point, Gray Gleam, Medora, Moonglow, Skyrocket, Blue Heaven, Cologreen, Pathfinder, Sutherland, Welchli, Wichita Blue.	
Metasequoia glyptostroboides	Dawn Redwood	Large	Moderate	40x25		X						X		Deciduous
Picea abies	Norway Spruce	Large	Moderate	50x20								X		
Picea engelmannii	Englemann Spruce													
Picea glauca	White Spruce		Moderate	40x15										Tree is adaptable
Picea glauca var. densata	Black Hills Spruce	Medium	Moderate	25x15	X					X	X			
Picea glauca 'Pendula'	Weeping White Spruce	Medium	Moderate	25x6				X		X	X		Pendula	Plant Select
Picea omorika	Serbian Spruce			55x25										This spruce has a narrow and pyramidal mature form. Needles are dark green with a silvery underside giving the tree a blended appearance of gray and green. Tree will bear a small 1-1/2" cone. Tree is native to limestone mountain areas of Yugoslavia.
Picea pungens	Colorado Spruce	Large	Moderate	50x20								X	Bakeri, Fat Albert, Hoopsii, Iseli Fastigiata	
Picea pungens glauca	Colorado Blue Spruce		High	60x25									Hoopsli, Koster, Moorheim	
Pinus aristata.	Bristlecone Pine, Rocky Mountain	Medium	Low	25x15					X		X			Dark green, dense foliage; must have good drainage.
Pinus cembra	Swiss Stone Pine	Medium	Low	25x15					X					
Pinus bungeana	Lacebark Pine		Low	60x30										ounded to pyramidal tree, often with multiple trunks. It makes an exceptional specimen pine, due to its interesting bark that flakes off in patches to reveal interesting puzzle pieces of gray, green and cream colors. Needles remain on the tree for several years. Small cones are yellowish brown.
Pinus densiflora	Japanese Red Pine, Tanyosho Pine		Very Low	60x25										The form of Japanese Red Pine is irregular with a flat top, but it remains attractive. Orange-red bark is a striking feature. Blue-green needles change color in winter to a yellow-green or pale green. Accepts sandy to heavy clay soils, and poor soils.
Pinus edulis	Pinyon Pine	Small	Ultra Low	12x12					X		X		cembroides, monophylla	Not in turf; scale becoming a problem. Must have good drainage.
Pinus flexilis reflex	Border Pine		Low to med	40x20										Blue-green needles, very similar to Limber Pine, <u>Not readily available</u> , should be used more.
Pinus heldreichii	Bosnian Pine	Small	Low	15x10					X		X			

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Pinus mugo	Mugo Pine		Low to med	12x 12										Some tree-like to shrubby; dwarf forms sold commonly.
Pinus nigra	Austrian Pine	Large	Low	50x20	X						X	X		Best choice for Thornton. Tolerates many soil types and urban pollution.
Pinus strobiformis	Southwestern White Pine, Mexican white pine, Chihuahua white pine	Large	Low	50x30		X								Needs winter watering. Best in protected sites.
Pseudotsuga menziesii	Douglas Fir	Large	Moderate	50x18	X							X		More wind tolerant and soil adaptable than true firs.
Taxodium distichum	Bald Cypress	Large	Moderate	40x20					X			X		Deciduous; good for soggy spots

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City of Thornton Deciduous Shrub List

Nomenclature		Characteristics					Uses					Specifics		
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Amelanchier alnifolia	Serviceberry	Large	Low	10x6			X	X	X		X	X	Regent	B & B only; difficult to establish
Amelanchier utahensis	Utah Serviceberry	Medium		12x12										Utah Serviceberry is a Colorado native that grows as a rounded shrub. Flowers in early spring precede the woolly gray-green leaves. Heat and drought tolerant. Accepts a wide range of soils. They stay small.
Amorpha Canescens	Leadplant	Medium	Ultra Low	4x4						X			nana	Silvery-gray foliage; purple flowers in summer; fruticosa has greener foliage and up to 10 feet tall.
Aronia melanocarpa var. elata	Black Chokeberry	Medium	Low	5x5			X	X	X		X	X		
Aronia melanocarpa 'Morton'	Iriquois Beauty Dwarf Black Chokeberry	Small	Low	3x3			X	X	X	X	X	X	Iriquois Beauty	
Atriplex canescens	Four-Winged Saltbush	Medium	Ultra Low	4x4	X						X			Native only, Tolerates very high salts.
Berberis thunbergii	Japanese Barberry	Medium	Low	4x4			X	X	X		X	X	Crimson Pygmy, Atropurpurea, Golden Nugget, x Emerald Carousel	Thorns; many sizes, shapes and colors; limit use due to overuse. Shade tolerant. NO TE credit for Crimson Pygmy.
Buddleia alternifolia 'Argentea'	Alternate-Leaf Butterfly Bush	Large	Low	6x6				X			X	X	Argentea	
Caragana arborescens	Siberian Peashrub	Large	Low	12x8	X						X		microphyllus, pygmaea, arborescens	Makes a good screen or windbreak
Caragana Frutex 'Globosa'	Russian Globe Peashrub		Low	4x3										
Caragana pygmaea	Pygmy Caragana		Low	3x3										Useful as a low hedge
Caryopteris x clandonensis	;	Medium	Low	3x3			X	X	X		X	X	Dark Knight, First Choice	Cut back in spring
Ceratoides lanata	Winterfat	Small	Ultra Low	2x3	X						X			Native only
Cercocarpus montanus	Mountain Mahogany	Medium	Low	4x4							X			Native only
Cercocarpus ledifolius	Curl-leaf Mountain Mahogany													Native only
Chaenomeles speciosa	Flowering Quince	Medium	Ultra Low	4x4				X			X		Texas Scarlet	
Cornus alba	Variegated Dogwood	Medium	Mod	5x5				X		X		X	Ivory Halo, 'Argenteo-marginata Taterian dogwood.	
Cornus mas	Cornelian Cherrywood Dogwood	Medium to Large	Min to Mod	20x15										
Cornus sericea	Redtwig Dogwood	Large	Low to Mod	8x8				X		X		X	Isanti, Bailey, Cardinal, artic fire	Salt Intolerant
Cornus sericea 'Kelsey'	Dwarf Redtwig Dogwood	Small	Low to Mod	2x2				X				X	Kelsey	
Cotoneaster apiculatus	Cranberry Cotoneaster	Small	Low	4x4		X		X			X			Difficult to establish, limit use
Cotoneaster divaricatus	Spreading Cotoneaster	Medium	Low	4x4			X	X	X		X	X		Difficult to establish

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Cotoneaster ignavus	Szechuan Fire Cotoneaster	Large	Low to Mod	7x5										
Cotoneaster lucidus	Peking Cotoneaster	Large	Low	7x5				X			X	X		Very tough; does well in Thornton
Cotoneaster multiflorus	Many Flowered Cotoneaster		low	12x15										Difficult to find.
Cotoneaster racemiflous var. soongoricus	Sungari Redbead Contoneaster	Large	Low	8x8										
Cotinus coggygria	Purple Smoke Tree	Large	low	12x8				X				X	Royal Purple, Grace	Useful for screening
Daphne x burkwoodii	Carol Mackie Daphne	Medium	Moderate	4x4		X		X				X	Carol Mackie	Expensive
Ericameria nauseosa nauseosa speciosa (Chrysothamnus nauseosus albicaulis)	Tall Blue Rabbitbrush	Medium	Ultra Low	4x4	X		X	X	X		X			Tolerate salty soils
Ericameria nauseosa nauseosa glabrata (Chrysothamnus nauseosus graveolens)	Tall Green Rabbitbrush	Medium	Ultra Low	4x4	X		X	X	X		X			Tolerate salty soils
Ericameria nauseosa nauseosa nauseosa (Chrysothamnus nauseosus nauseosus)	Dwarf Blue Rabbitbrush	Small	Ultra Low	2x2	X		X	X	X		X	X		Tolerate salty soils
Euonymus alatus	Burning Bush	Medium	Moderate	8x8				X				X	Compactus	Heat Intolerant; don't shear, limit use due to slow growth. Overused
Euonymus europaeus	European Euonyus		Low to Mod	12x15										Red fall color, red fruit.
Fallugia paradoxa	Apache Plume	Medium	Ultra Low	4x4	X						X			Graceful arching stems; large showy flowers; plummy seed heads.
Fendlera rupicola	Cliff fendlerbush		Xeric	5x6										White to rose-pink followers; arching shrub.
Forestiera neomexicana	New Mexico Privet	Large	Low	8x6				X			X	X	Desert Olive	Useful as hedge
Forsythia spp.	Garden Forsythia	Medium	Moderate	6x6	X			X				X	intermedia	
Frangula alnus 'Columnaris'	Alder Buckthorn													Protected location only and support next to wall or trelles.
Heptacodium miconioides	Seven Son Flower	Large	Moderate	10x10				X				X		Slow growing in clay soil
Hibiscus syriacus	Rose of Sharon	Large	Moderate	8x8				X			X	X	many varieties	
Hippophae rhamnoides	Sea buckthorn			5x5										Grayish foliage; female plants have attractive red-orange fruit. <u>Difficult to find.</u>
Holodiscus dumosus*	Rock Spirea			4x4										Graceful arching shrub; creamy white flowers; well-drained soils only. <u>Difficult to find.</u>
Hypericum frondosum	St. John's Wort	Small	Moderate	3x3				X			X	X	Sunburst	
Kolkwitzia amabilis	Beauty Bush	Large	Low	12x12				X			X	X	many smaller varities	
Lespedeza thunbergii	Bush Clover		Moderate	5x8										Difficult to find.
Ligustrum x vicaryi	Golden Vicary Privet	Medium	Moderate	4x4				X				X		Marginal hardiness, limit use
Ligustrum vulgare 'Lodense'	Lodense Privet	Small	Low	3x2			X	X	X		X	X	Lodense	Useful as hedge

City of Thornton Evergreen Shrub List

Nomenclature		Characteristics					Uses					Specifics		
Botanical Name	Common Name	Size Group	Water Demand (Kc)	Design Size (H'xW")	Salt Tolerant	Delicate Plant	Median & Back of Curb	Back of Street	Parking Lot Islands	Drainages	Dry Uplands	Parks	Suggested Cultivars & Hybrids	Notes
Arctostaphylos x coloradoensis	Pine Mat Manzanita	Small	Low	0.5x3		X	X				X	X	Panchito Manzanita	No TE credit given for this plant. Very hard to establish in heavy clay. Not successful in Thornton
Arctostaphylos x uva ursi	Bearberry	Small	Low	0.5x3		X	X				X	X		No TE credit given for this plant. Needs acid soil
Artemesia tridentata	Western Sage	Medium	Ultra Low	4x4							X			Course; Native seed areas only. Silvery foliage; A. schmidtiana (silvermound sage) most
Ephedra viridis	Mormon Tea		Low	3x3										
Euonymus fortunei 'Coloratus'	Wintercreeper	Small	Low	2x3			X	X	X			X	Coloratus	Good alternative to Juniper groundcover
Euonymus kiautschovicus	Spreading Euonymus	Medium	Moderate	5x5				X				X	Manhattan	Tips burn in winter
Hesperaloe parviflora	False Red Yucca	Medium	Ultra Low	2x2			X	X	X		X			Plant only in One Gallon Containers. Treat like a perennial
Juniperus chinensis	Chinese Juniper	Medium	Low	5x5	X			X			X		Armstrong, Holbert, Blue Point (upright),	Sizes vary
Juniperus communis	Common Juniper	Small	Moderate	3x3	X		X	X	X		X	X	Effusa, Alpine Carpet, Green Carpet	
Juniperus horizontalis	Creeping Juniper	Small	Low	3x3			X	X	X		X	X	Bar Harbor, Blue Chip, Hughes, Icee Blue, Prince of Wales, Wiltonii, Webberi	Perhaps the best year-round cover; many clones and foliage hues available.
Juniperus x media	Chinese Hybrid Juniper	Medium	Low	4x4			X	X	X		X		OldGold, Pfitzer, Sea Green	
Juniperus sabina	Savin Juniper, Sabin Juniper	Medium	Low	4x4			X	X	X		X	X	Broadmoor, Buffalo, Calgary Carpet, Scandia, Tamariscifolia	
Juniperus squamata	Singleseed Juniper	Small	Low	1x3			X	X	X		X	X	Blue Star	Difficult to establish; too delicate for commercial projects
Juniperus virginiana	Eastern Red-cedar	Large	Low	12x6				X	X		X		Skyrocket, taylor- less prone to snow damage the skyrocket	May need staking when young to withstand snow load
Mahonia aquifolium	Oregon Grape Holly	Medium	Low	4x3				X			X	X		Tips burn in winter; Likely to not survive if planted in fall
Mahonia aquifolium 'Compacta'	Compact Oregon Grape Holly	Small	Low	2x2				X	X		X	X		Likely to not survive if planted in fall
Mahonia fremontii	Fremont's Desert Holly	Medium	Ultra Low	3x3				X			X	X		Difficult to find

City of Thornton Evergreen Shrub List

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Mahonia repens	Creeping Oregon Grape Holly	Small	Low	1x3				X	X		X	X	Does not survive winter if planted in fall	
Picea pungens 'Glauca Globosa'	Dwarf Globe Blue Spruce		Low to Mod	5x6										
Picea pungens 'Montgomery'	Montgomery Colorado Spruce		Low to Mod	3x3										Slow growing but has potential to get up to 8' tall
Pinus mugo	Mugo Pine	Medium	Low	4x4	X			X	X		X	X	Mops, Tannenbaum (tree form), White Bud	Slowmound' difficult to establish
Pyracantha angustifolia	Narrowleaf Firethorn		Low	10x8										
Yucca filamentosa	Adam's Needle	Small	Ultra Low	3x3				X			X	X		protected area

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City of Thornton Ornamental Grass List

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Achnatherum hymenoides	Indian Ricegrass		Very Low	2x2										
Andropogon gerardii	Big Bluestem	Large	Low	5x3				X			X			
Bouteloua curtipendula	Sideoats Grama	Small	Ultra Low	2x1	X		X	X	X		X			
Bouteloua gracilis	Blue Grama	Small	Ultra Low	2x2	X		X	X	X		X	X	Blonde Ambition	CO state grass
Calamagrostis acutiflora	Feather Reed Grass	Medium	Low	4x1.5	X		X	X	X	X	X	X	Karl Foerster, Overdam (smaller -variegated), Avalanche (variegated)	
Calamagrostis brachytricha	Korean Feather Reed Grass	Medium	Low	3x2							X			Somewhat invasive
Chasmanthium latifolium	Sea Oats, Bamboo grass		Moderate	4x2										
Erianthus ravennae	Hardy Pampas Grass	Large	Moderate	10x3	X			X		X	X	X		
Festuca glauca	Blue Fescue	Small	Low	1x1			X	X	X	X	X	X	Boulder Blue, Elijah Blue	1 gallon only; No T.E. credit
Festuca idahoensis	Idaho Fescue Grass		Low	1x2										
Helictotrichon sempervirens	Blue Avena	Small	Low	2x2			X	X	X	X	X	X		
Imperata cylindrica	Japanese Bloodgrass	Small	Moderate	1x1.5				X		X	X		Red Baron (marginally hardy)	Spreads; No T.E. credit
Miscanthus 'Giganteus'	Giant Schinese Silvergrass		Moderate	8x4										
Miscanthus sinensis	Maiden Grass	Large	Moderate	5x4				X		X	X	X	Adagio, Cabaret, Gracillimus, Morning Light, Yaku Jima, Japanese Silver Grass	Size varies, hardiness and water need varies, many variegated forms
Muhlenbergia capillaris	Pink Muhly		Moderate	3x4										
Muhlenbergia reverchonii 'Undaunted'	Undaunted Ruby Muhly Grass	Medium	Low	2x2.5		X		X	X		X	X	Undaunted	Other Muhly grasses are less hardy
Panicum virgatum	Switchgrass	Medium	Low	4x2	X		X	X	X	X	X	X	Shenandoah, many blue-leaved choices	Under used
Pennisetum alopecuroides	Dwarf Fountain Grass	Small	Low	2x2			X	X	X		X	X	Hamel	
Schizachyrium scoparium	Little Blustem	Medium	Ultra Low	3x1.5	X		X	X	X		X	X	Blaze, The Blues	Excellent fall color
Sorghastrum nutans	Indian Grass	Large	Low	5x3			X	X			X		Indian Steel	
Sporobolus wrightii	Giant Sacaton	Large	Low	6x5	X		X	X			X	X		
Stipa gigantea	Giant Needlegrass, Giant Feathergrass		Low to Mod	3x4										

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