

Appendix C

Approved Street Tree Planting List - Carlisle Parks and Recreation, 243-3318

Species	Mature plant form	Site requirements	Plant interests	Miscellaneous notes
Small Trees				
Chinese fringetree (<i>Chionanthus retusus</i>)	Rounded crown	Transplant in spring; highly adaptable	Showy white flowers in spring	Choose single-stem only; no serious pests; air pollution tolerant
Cherry				
Okame Cherry (<i>Prunus</i> 'Okame')	Branching habit tends to be more upright than most cherries	Can tolerate poor dry soils	Pale pink flowers in early spring; one of the first trees to flower	
Crabapple				
Adirondack crabapple (<i>Malus</i> 'adirondack')	Columnar, upright habit	Requires full sun	Showy white flowers with hint of red appear in spring	No serious pest problems
Prairiefire crabapple (<i>Malus</i> 'prairiefire')	Rounded crown; may have more upright crown as a juvenile	Requires full sun; will tolerate wide range of soil moisture	Dark red purple fruit in fall; showy purplish – red flowers in spring	Tends to sucker; drops fruit
Dogwood				
Kousa dogwood (<i>Cornus</i> <i>kousa</i>)	Vase shaped as young plant developing more rounded crown at maturity	Requires 4' or wider planting strip and full sun; can tolerate shade, but flowers may not be abundant	Exfoliating bark creates winter interest; showy white flowers appear in June	No serious pest problems; choose higher branch trees; requires 4' or wider planting strip
Hawthorn				
Thornless cockspur hawthorn (<i>Crataegus crusgalli</i> var <i>inermis</i>)	Broad spreading tree	Requires full sun and moist soils; tolerates urban stress well	Showy white flowers appear in May and can last up to 7-10 days; deep red fruit ripens Sept.-Oct.	Fireblight and rust may be problematic
Winterking hawthorn (<i>Crataegus viridis</i> 'winterking')	Rounded crown	Requires full sun; tolerates urban stresses well	Light gray bark proves interesting; deep red fruit persists well into winter	Tree does have thorns
Maple				
Tatarian maple (<i>Acer</i> <i>tataricum</i>)	Rounded wide-spreading tree	Requires full sun or partial shade; will tolerate alkaline soils		No serious insect or disease problems
Trident maple (<i>Acer</i> <i>buegeranum</i>)	Oval rounded or rounded crown	Requires full sun, can tolerate drought reasonably well	Emerging growth may appear bronze to purple	May require early structure pruning to help influence strong central leader
Redbud				
Eastern redbud (<i>Cercis</i> <i>canadensis</i>)	Spreading to rounded crown	Requires partial shade with moist soils	Brilliant purple flowers appear in early spring; leaf may have heart-shaped appearance	Botryosphaeria canker may be an issue; may require street lawn of at least 4'
Forest pansy redbud (<i>Cercis</i> <i>canadensis</i> 'forest pansy')	Spreading to rounded crown	Requires partial shade with moist soils	Showy purple flowers in early spring; emerging foliage is purple and remains purple through June	Botryosphaeria canker may be an issue; may require street lawn of at least 4 feet; may not be as cold hardy as species
Hearts of Gold redbud (<i>Cercis</i> <i>canadensis</i> 'hearts of gold')	Spreading to rounded crown	Requires partial shade with moist soils	Leaves emerge yellow with a purplish tint; will eventually turn green; yellow color will persist longer if watered thoroughly, but will be green by August	Botryosphaeria canker may be an issue; may require street lawn of at least 4 feet
White flowering redbud (<i>Cercis</i> <i>canadensis</i> 'alba')	Spreading to rounded crown	Requires partial shade with moist soils	Showy white flowers in early spring	Botryosphaeria canker may be an issue; may require street lawn of at least 4'

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Serviceberry				
Autumn brilliance serviceberry (<i>Amelanchier x grandifolia</i> 'autumn brilliance')	Rounded crown	Requires partial shade with moist soils	Brilliant orange to red foliage in fall; showy white flowers in spring; and small black berries in fall	Cedar apple rust may be problematic
Princess Diana serviceberry (<i>Amelanchier x g.</i> 'Princess Diana')	Rounded crown	Requires partial shade with moist soils	Foliage tends to be more red during fall season than Autumn brilliance	Cedar apple rust may be problematic
Tree Lilac				
Ivory silk tree lilac (<i>Syringa reticulata</i> 'Ivory silk')	Oval to rounded crown	Requires full sun	Showy white flowers in late spring-early summer; may persist for 2 weeks; have a fragrance	Powdery mildew can be a problem
Regent tree lilac (<i>Syringa reticulata</i> 'regent')	More upright than ivory silk tree lilac	Requires full sun	Showy white flowers in late spring-early summer; may persist for 2 weeks; have a fragrance	Powdery mildew can be a problem;
Medium Trees				
Cleveland Select Pear (<i>Pyrus Calleryana</i>)	Upright oval form	Strong branch structure withstands ice and wind	White flowers in early spring; red leaves in fall	Few pest problems, tolerates urban conditions; good alternative to Bradford Pear
Korean Mountain-ash (<i>Sorbus alnifolia</i>)	Pyramidal crown at youth developing oval crown	Best suited to southern exposure; pH adaptable	White flowers in May; red-orange fruit persisting through winter	Fireblight may be problematic
Amur Maackia (<i>Maackia amurensis</i>)	Round-headed crown	Transplants easily; tolerates severe dryness, cold; pH adaptable	Blooms in June and July; late summer flowers	Disease and insect resistant; may not bloom well every year
Persian Ironwood (<i>Parrotia persica</i>)	Rounded, wide-spreading crown	Prefers slightly acidic soil; very tolerant, withstanding heat, drought, wind, cold	Flowers before leaf in early spring; flowers may be 1/2" in diameter	Virtually free of pests and diseases; good urban tree
Birch				
Dura-heat river birch (<i>Betula nigra</i> 'dura heat')	Pyramidal crown as juvenile, developing more rounded head at maturity	Tolerates wide range of site conditions	Flaky bark producing colors that range from cream to dark reddish brown	Choose single-stem only; may develop iron chlorosis; resistant to bronze birch borer
Cherry				
Sargent's cherry (<i>Prunus sargentii</i>)	Round headed crown	Requires full sun, but will tolerate dry soils	Pink flowers emerging in spring	May not live long
Hornbeam				
American hornbeam (<i>Carpinus caroliniana</i>)	Pyramidal in youth, and rounded at maturity	Prefers moist soils leaning towards lower pH; sensitive to drought	Slate gray bark that resembles muscles; a common name includes musclewood for bark characteristics	Fall planting hazard; should specify tree form
European hornbeam (<i>Carpinus betulus</i>)	Pyramidal in youth, and rounded at maturity	Tolerates all types of site conditions; does the best in full sun	Slate gray bark that resembles muscles	Fall planting hazard; should specify tree form
Ironwood				
Ironwood (<i>Ostrya virginiana</i>)	Pyramidal in youth developing rounded crown	Plant in full sun or partial shade; prefers slightly acidic soils	Performs well in narrow street lawns	May be sensitive to road salts

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Maple				
Hedge maple (<i>Acer campestre</i>)	Forms dense rounded crown	Adapts well to most site, but prefers high pH soils; will tolerate compaction and drought well	Yellow foliage in fall, but one of last trees to turn color	Can create a tremendous amount of shade
Metro gold hedge maple (<i>Acer campestre</i> 'panacek')	Tight upright growth habit	Adapts well to most site, but prefers high pH soils; will tolerate compaction and drought well	Yellow foliage in fall, but one of last trees to turn color; turns brighter yellow in fall	Can create a tremendous amount of shade; not as abundant fruit set
Queen Elizabeth hedge maple (<i>Acer campestre</i> 'Queen Elizabeth')	Forms dense rounded crown; tends to be more upright than the species listed above	Adapts well to most site, but prefers high pH soils; will tolerate compaction and drought well	Yellow foliage in fall, but one of last trees to turn color	Can create a tremendous amount of shade;
Yellowwood				
Yellowwood (<i>Cladrastis kentuckea</i>)	Vase-shaped plant when young, tends to spread as it reaches maturity	Tolerates a wide range of soil pH and prefers full sun	Showy white flower produced may - June	Requires early structural pruning to help develop proper form; drought sensitive; flowers can attract bees
Large Trees				
Elm				
Chinese lacebark elm (<i>Ulmus parvifolia</i>)	Pyramidal crown	Will tolerate wide range of soil pH; easy to transplant	Mottled bark is extremely attractive	Good dutch elm disease resistance
Liberty American Elm (<i>Ulmus americana</i> 'Liberty')	Pyramidal to spreading crown	One of most tolerant trees of urban conditions		Availability may be an issue; Dutch elm disease resistant; susceptible to elm yellows
Valley Forge American elm (<i>Ulmus americana</i> 'valley forge')	Pyramidal to spreading crown; crown outline more resembles species than other cultivars	One of most tolerant trees of urban conditions		Availability may be an issue; Dutch elm disease resistant; susceptible to elm yellows
Kentucky coffeetree				
Kentucky coffeetree (<i>Gymnocladus dioica</i>)	Broad crown	Plant in full sun; will tolerate urban conditions	Bi-pinnately compound leaves can be interesting	Pods can be a nuisance on female plants; may be difficult to establish
Linden				
Greenspire little-leaf linden (<i>Tilia cordata</i> 'greenspire')	Pyramidal crown; crown more uniform than species	Plant full sun of partial shade; tolerant of compacted soils	Yellowish fragrant flowers in late spring	Sensitive to salt and air pollution
Little-leaf linden (<i>Tilia cordata</i>)	Pyramidal crown	Plant full sun or partial shade	Yellowish fragrant flowers in late spring	Japanese beetle problems; aphids produce honeydew
Locust				
Imperial honey locust (<i>Gleditsia triacanthos</i> 'imperial')	Broad spreading crown	pH adaptable; soil moisture tolerant		Usually fruitless; susceptible to plant bug
Shademaster honey locust (<i>Gleditsia triacanthos</i> 'shademaster')	Broad spreading crown	pH adaptable; soil moisture tolerant		Usually fruitless, susceptible to mimosa webworm and borers
Sunburst honey locust (<i>Gleditsia triacanthos</i> 'sunburst')	Broad spreading crown	pH adaptable; soil moisture tolerant	New growth emerges yellow	Usually fruitless, susceptible to mimosa webworm, borers, and nectria canker

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Maple				
Autumn Blaze hybrid maple (<i>Acer x freeman</i> 'autumn blaze')	Rounded crown	Will tolerate full sun to partial shade; dry or wet soils; and urban stresses	Brilliant orange to red fall color	This particular variety has been selected for its superior fall color; may be susceptible to salt injury
Autumn Flame red maple (<i>Acer rubrum</i> 'Autumn Flame')	Rounded crown	Will tolerate dry or wet sites; will be chlorotic in high pH soils	Nice fall color; flowers in red clusters before leaves appear	Shallow root system; this particular variety has been selected for its good form
Red sunset red maple (<i>Acer rubrum</i> 'red sunset')	Rounded crown	Will tolerate dry or wet sites; will be chlorotic in high pH soils	Nice fall color; flowers in red clusters before leaves appear	Shallow root system; this particular variety has been selected for its good form
Oak				
Bur oak (<i>Quercus macrocarpa</i>)	Broad spreading crown	Plant in full sun; wet or dry soils; will tolerate compacted soils		Will tolerate high pH soils; bacterial leaf scorch can be a problem
Chestnut oak (<i>Quercus prinus</i>)	Broad-spreading crown	Plant in full sun; dry soils		Very drought tolerant
Sawtooth oak (<i>Quercus acutissima</i>)	Pyramidal to broad crown; more narrow than most oaks	Plant in full sun; tolerable of wet or dry soils	Interesting acorn cap; narrow pointed leaf	Fruit may be problematic
Shumard oak (<i>Quercus shumardii</i>)	Pyramidal crown	Plant in full sun; will tolerate dry soils		More tolerable of alkaline soils than red and pin oaks
Swamp white oak (<i>Quercus bicolor</i>)	Broad crown	Will tolerate compacted soils; pH adaptable; good salt tolerance		Fruit may be problematic
Planetree				
Bloodgood london planetree (<i>Platanus x acerfolia</i> 'bloodgood')	Broad spreading crown	Will tolerate urban stress; plant in wet or dry soils; good salt tolerance	Nice exfoliating bark	Good substitute for American sycamore: resistant to anthracnose; fruit can be problematic
Sweetgum				
Rotundiloba sweetgum (<i>Liquidambar styraciflua</i> 'rotundiloba')	Pyramidal	Plant in full sun	Interesting leaf shape; attractive fall color	No fruit; may require larger area for root development
Sweetgum (<i>Liquidambar styraciflua</i>)	Pyramidal	Plant in full sun	Interesting leaf shape; attractive fall color	Fruit may be a nuisance; may require larger area for root development
Zelkova				
Green Vase Zelkova (<i>Zelkova serrata</i> 'green vase')	Pyramidal crown	Transplants easily; tolerates wide range of pH; requires moist soils	Nice foliage and bark characteristics	May be a good replacement for elms