City of Pullman, Parks & Recreation
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Street Tree Selection Guide

Criteria for Selecting a Street Tree

- Know your micro-climate—Pullman zone range 6 USDA
- Sight clearance—intersections, signs, driveways
- City street and sidewalk height requirements (7ft for sidewalks, 16 ft for street clearance)
- Soil and water requirements

Factors to consider

- Spatial constraints, i.e. overhead wires, narrow setbacks, signage, or frequent truck traffic
- Limited soil volume
- Screening of sight or sounds, wind break or heavy shade desired
- Trees growing with or near other plants such as turf/grass or flower beds
- Canopy and formal effect desired

Recommendations

- May require offset or trees with narrower crown shapes such as oval or vase
- Small trees
- Dense branching, possibly large trees where practical
- Open less dense branching
- Vase-shaped crowns
- Columnar crowns

Ideally, any one species should not make up more than 5-10% of the total tree population for a neighborhood. In general, the greater the number of genera used the lower the risk of serious pest or disease problems.



In addition to cold hardiness zones, all trees have been designated using the following site characteristics typically found in urban areas:

KEY:

Moisture

W .....Tolerates poorly-drained soil
MWD ...Requires moist, well-drained soil
MD.....Tolerates moderate drought
SD .....Tolerates severe drought

Size

Size .....Height/Width in feet
Note: actual size may differ from the values presented due to natural variations

Climate Zone Minimum Temperature Ranges

2a..... -50 to –45 °F
2b..... -45 to –40 °F
3a..... -40 to –35 °F
3b..... -35 to –30 °F
4a..... -30 to –25 °F
4b..... -25 to –20 °F
5a..... -20 to –15 °F
5b..... -15 to –10 °F

The following lists include the primary and secondary characteristics previously discussed for size, shape, and foliar texture.

Large Trees with Round Canopies, Dense Branching, and Coarse Textured Foliage

Emerald Queen Norway Maple	Acer platanoides 'Emerald Queen'	4a	MD	55/40 ft
Summershade Norway Maple	Asher platanoides 'Summershade'	4a	MD	55/40 ft
Superform Norway Maple	Acer platanoides 'Superform'	4a	MD	55/40 ft
Autumn Flame Red Maple	Acer rubrum 'Autumn Flame'	3b	W	45/45 ft
Northwood Red maple	Acer rubrum 'Northwood'	3b	W	55/40 ft
October Glory Red maple	Acer rubrum 'October Glory'	3b	w	35/30 ft

Large Trees with Round Canopies, Open Branching, and Fine Textured Foliage

The trees in this group may be used in any combination but have been presented in three subgroups which work particularly well together. The first, second and third groups contain trees with simple, compound, and very fine compound leaves respectively.

1	Prairie Pride Hackberry	Celtis occidentalis 'Prairie Pride'	3b	SD	35/40 ft
1	Faurei Callery Pear	Pyrus calleryana 'Faurei'	5a	W/SD	20/20 ft
2	Yellowood	Cladrastis kentukea (lutea)	4b	MD	60/40 ft
2	Autumn Purple White Ash	Fraxinus americana 'Autumn Purple'	4a	W/MD	60/40 ft
2	Emerald Green Ash	Fraxinus pennsylvanica 'Emerald'	3a	W/MD	45/40 ft
2	Kentucky Coffee Tree	Gymnocladus dioicus	4a	SD	70/50 ft
2	Amur Cork Tree	Phellodendron amurensis	4b	MWD	35/40 ft
2	Macho Amur Corktree	Phellodendron amurensis 'Macho'	4b	MWD	35/40 ft
3	Thornless Honey Locust	Gleditsia triacanthos var. inermis	4b	MD	55/55 ft
3	Halka Honey Locust	Gleditsia triacanthos var. inermis 'Halka'	4b	MD	45/40 ft
3	Moraine Honey Locust	Gleditsia triacanthos var. inermis 'Moraine'	4b	MD	65/55 ft
3	Shademaster Honey Locust	Gleditsia triacanthos var. inermis 'Shademaster'	4b	MD	65/50 ft
3	Princeton Upricht Scholar Tree	Sophora japonica 'Princeton Upright'	5b	SD	45/35 ft

Large Trees with Round Canopies, Open Branching, and Coarse -Textured Foliage

Bur Oak	Quercus macrocarpa	3a	W/SD	75/80 ft
Chinquapin Oak	Quercus muehlenbergii	5a	MD	75/75 ft
Red Oak	Quercus rubra	3b	MD	65/65 ft
English Oak	Quercus robur	5b	MD	75/75 ft

Large Trees with Oval Canopies, dense Branching, and Fine Textured Foliage

Bergeson Green Ash	Fraxinus pennsylvanica 'Bergeson'	2a	W/MD/SD	65/35 ft
Cimmaron Green Ash	Fraxinus pennsylvanica 'Cimmaron'	2a	W/MD/SD	60/35 ft
Newport Green Ash	Fraxinus pennsylvanica 'Newport'	2a	W/MD/SD	60/45 ft
Patmore Green Ash	Fraxinus pennsylvanica 'Patmore'	2a	W/MD/SD	65/45 ft
Summit Green Ash	Fraxinus pennsylvanica 'Summit'	2a	W/MD/SD	55/30 ft
Urbanite Green Ash	Fraxinus pennsylvanica 'Urbanite'	5b	W/MD/SD	55/40 ft
Tupelo	Nyssa sylvatica	5a	W	65/30 ft
American Hophornbeam	Ostrya virginiana	3b	MD	35/40 ft
Autumn Blaze Callery Pear	Pyrus calleryana 'Autumn Blaze'	5a	W/SD	40/30 ft
Whitehouse Callery Pear	Pyrus calleryana "Whitehouse'	5a	W/SD	45/15 ft
Korean Mountain Ash	Sorbus alnifolia	4b	MWD	45/20 ft
Chancellor Littleleaf Linden	Tilia cordata 'Chancellor'	3b	MD	45/20 ft
Glenleven Littleleaf Linden	Tilia cordata 'Glenleven'	3b	MD	55/45 ft
Greenspire Littleleaf Linden	Tilia cordata 'Greenspire'	3b	MD	50/35 ft
Olympic Littleleaf Linden	Tilia cordata 'Olympic'	3b	MD	40/30 ft
Rancho Littleleaf Linden	Tilia cordata 'Rancho'	3b	MD	45/30 ft
Crimean Linden	Tilia x euchlora	4b	MD	65/40 ft

Large Trees with Oval Canopies, Dense Branching, and Coarse Textured Foliage

Autumn Blaze Maple	Acer x freemanii 'Autumn Blaze'	4	W/MD	45/35 ft
Autumn Fantasy Maple	Acer x freemanii 'Autumn Fantasy	4	W/MD	40/30 ft
Celebration Maple	Acer x freemanii 'Celebration' ('Celzam')	4	W/MD	55/40 ft
Marmo Maple	Acer x freemanii 'Marmo'	4	W/MD	75/40 ft
Morgan Maple	Acer x freemanii 'Morgan'	4	W/MD	75/40 ft
Scarlet Sentinel Maple	Acer x freemanii 'Scarlet Sentinel'	4	W/MD	45/25 ft
Spaethii Sycamore Maple	Acer pseudoplatanus "Spaethii'	5b	MD	65/45 ft
Cleveland Norway Maple	Acer platanoides 'Cleveland'	4a	MD	70/40 ft
Parkway Norway Maple	Acer platanoides 'Parkway'	4a	MD	50/25 ft
Red Sunset Maple	Acer rubrum 'Red Sunset'	3b	W	50/50 ft
Caddo Sugar Maple	Acer saccharum 'Caddo'	3b	MWD	65/40 ft
Commemoration Sugar Maple	Acer saccharum 'Commemoration'	3b	MWD	60/45 ft
Green Mountain Sugar Maple	Acer saccharum 'Green Mountain'	3b	MWD	65/45 ft
Legacy Sugar Maple	Acer saccharum 'Legacy'	3b	MWD	60/50 ft
Majesty Sugar Maple	Acer saccharum 'Majesty'	3b	MWD	65/50 ft
Redmond Bass Wood	Tilia americana 'Redmond	3a	MD	70/40 ft
Silver Linden	Tilia tomentosa	5a	MD	70/50 ft

Large Trees with Oval Canopies, Open Branching, and Fine Textured Foliage

Pyramidal Black Alder	Alnus glutinosa “Pyramidalis’	4a	W	35/10 ft
Upright Black Alder	Alnus glutinosa ‘Fastigiata’	4a	W	40/30 ft
Heritage River Birch	Betula nigra ‘Heritage’	4a	W	45/30 ft
Asian White Birch	Betula platyphylla ‘Japonica’	2b	MWD	40/20 ft
Whitespire Birch	Betula platyphylla ‘Whitespire’	2b	MWD	40/15 ft
Autumn Applause White Ash	Faxinus americana ‘Autumn Applause’	4a	W/MD	65/30 ft
Champaign Country White Ash	Fraxinus americana ‘Champaign County’	4a	W/MD	55/35 ft
Rose Hill White Ash	Fraxinus americana ‘Rose Hill’	4a	W/MD	55/40 ft
Skyline White Ash	Fraxinus americana ‘Skyline’	4a	W/MD	50/35 ft
Hess European Ash	Fraxinus excelsior ‘Hessei’	4a	MD/SD	55/45 ft
Autumn Gold Ginkgo	Ginkgo biloba ‘Autumn Gold’	4b	SD	40/30 ft
Skyline Honey Locust	Gleditsia triacanthos var. inermis ‘Skyline’	4b	MD	65/55 ft
Aristocrat Callery Pear	Pyrus calleryana ‘Aristocrat’	5a	W/SD	35/30 ft
Black Locust	Robinia pseudoacacia	4b	W/MD	65/40 ft
Frontier Elm	Ulmus carpinifolia x parvifolia ‘Frontier’	5b	W	40/30 ft
Homestead Elm	Ulmus ‘Homestead’	5a	W	55/40 ft
Pioneer Elm	Ulmus ‘Pioneer’	5a	W	55/55 ft
Urban Elm	Ulmus ‘Urban’	5a	W	60/40 ft

Large Trees with Oval Canopies, Open Branching and Coarse Textured Foliage

Briotti Red Horse Chestnut	Aesculus x carnea ‘Briotti’	5a	MWD	40/30 ft
O’Neill Red Horse Chestnut	Aesculus x carnea O’Neill Red’	5a	MWD	35/25 ft
Catalpa	Catalpa speciose	4a	W	60/40 ft
Sweetgum	Liquidambar styraciflua	5b	MWD	60/45 ft
Moraine Sweetgum	Liquidambar styraciflua ‘Moraine’	5b	MWD	50/40 ft
Tulip Tree	Liriodendron tulipifera	5a	MWD	75/50 ft
Sawtooth Oak	Quercus accutissima	5b	MD	45/60 ft
Swamp White Oak	Quercus bicolor	4a	W	65/55 ft
Scarlet Oak	Quercus coccinea	5a	MD	65/45 ft
Shingle Oak	Quercus imbricaria	5	W	65/40 ft
Sovereign Pin Oak	Quercus palustris ‘Sovereign’	5a	W/MD	65/35 ft
Crownright Pin Oak	Quercus palustris ‘Crownright’	5a	W	60/40 ft
Schumard Oak	Quercus schumardii	5b	MD	80/45 ft

Large Trees with Vase-Shaped Canopies and Fine Textured Foliage

Upright Sargent Cherry	Prunus sargentii 'Columnaris'	5a	MD	30/20 ft
Delaware American Elm	Ulmus americana 'Delaware #2'	2b	W/MD	80/60 ft
New Harmony Elm	Ulmus americana 'New Harmony'	5	SE	70/70 ft
Princeton American Elm	Ulmus americana 'Princeton'	2b	W/MD	80/55 ft
Valley Forge Elm	Ulmus americana 'Valley Forge'	5	SD	70/60 ft
Washington American Elm	Ulmuis americana 'Washington'	2b	W/MD	65/60 ft
Dynasty Chinese Elm	Ulmus pavifolia 'Dynasty'	5b	W/SD	45/45 ft
Ohio Chinese Elm	Ulmus parvifolia 'Ohio'	5	W/SD	40/30 ft
Prospector Chinese Elm	Ulmus parvifolia 'Prospector'	4	W/SD	40/20 ft
Pathfinder Elm	Ulmus parvifolia 'Pathfinder'	5a	SD	40/35 ft
Patriot Elm	Ulmus x 'Patriot'	4	SD	60/40 ft
Sapporo Autumn Gold Hybrid Elm	Ulmus x 'Sapporo Autumn Gold'	5a	W/MD	55/55 ft
Green Vase Zelkova	Zelkova serrata 'Green Vase'	5b	SD	65/45 ft
Halka Zelkova	Zelkova serrata 'Halka'	5b	SD	55/40 ft
Villiage Green Zelkova	Zelkova serrata 'Village Green'	5b	SD	65/45 ft

Large Trees with Columnar Canopies

Armstrong Hybrid Maple	Acer x freemanii 'Armstrong'	4	W/MD	55/15 ft
Green Column Black Maple	Acer nigrum 'Green Column'	5	SD	60/25 ft
Columnar Norway Maple	Acer platanoides 'Columnare'	4a	MD	40/15 ft
Bowhall Red Maple	Acer rubrum 'Bowhall'	3b	W	45/15 ft
Columnar Red Maple	Acer rubrum 'Columnare'	3b	w	45/20 ft
Karpick Red Maple	Acer rubrum 'Karpick'	3b	W	45/20 ft
Upright European Hornbeam	Carpinus betulus 'Fastigiata'	5a	MD	40/20 ft
Lakeview Ginkgo	Ginkgo biloba 'Lakeview'	4b	SD	55/25 ft
Princeton Sentry Gingko	Ginkgo biloba 'Princeton Sentry'	4b	SD	60/20 ft
Capital Callery pear	Pyrus calleryana 'Capital'	5a	W	45/14 ft
Chanticleer Callery Pear	Pyrus calleryana 'Chanticleer'	5a	W	45/20 ft
Attention English Oak	Quercus robur 'Attention'	5a	MD	45/15 ft
Upright English Oak	Quercus robur 'Fastigiata'	5a	MD	65/15 ft

Small Trees with Vase Shaped Canopies

Adirondack Crabapple	Malus 'Adirondack'	4	MD	15/15 ft
Sentinel Crabapple	Malus 'Sentinel'	4	SD	20/15 ft
Strawberry Parfait Crabapple	Malus 'Strawberry Parfait'	4	SD	20/20 ft
Accolade Flowering Cherry	Prunus 'Accolade'	5	MD	25/25 ft

Large Round Trees for Severe Drought with Compound Leaves

Kentucky Coffee Tree	Gymnocladus dioicus	4a	SD	70/50 ft
Princeton Upright Scholar Tree	Sophora japonica 'Princeton Upright'	5b	SD	45/35 ft
Black Locust	Robinia pseudoacacia	4b	SD	65/40 ft

Small Trees for Severe Drought

Hedge Maple	Acer campestre	5a	SD	30/30 ft
Washington Hawthorn	Crataegus phaenopyrum	4b	SD	20/20 ft
Winter King Hawthorn	Crataegus viridis ‘Winter King’	5a	SD	20/30 ft
Goldenraintree	Koelreuterea paniculata	5b	SD	25/40 ft
Crabapple	Malus (all the recommended cultivars)	3-4	SD	Varies
Summer Snow Japanese Tree Lilac	Syringa reticulata ‘Summer Snow’	3a	SD	20/20 ft
Ivory Silk Japanese Tree Lilac	Syringa reticulata ‘Ivory Silk’	3a	SD	20/15 ft
Regent Japanese Tree Lilac	Syringa reticulata ‘Regent’	3a	SD	20/20 ft

Large Round Trees for Cold Climates (Zone 3b and lower)

Prairie Pride Hackberry	Celtis occidentatlis ‘Prairie Pride’	3b	SD	35/40 ft
Emerald Green Ash	Fraxinus pennsylvanica ‘Emerald’	2a	MD	45/40 ft
Bur Oak	Quercus macrocarpa	3a	SD	75/80 ft
Red Oak	Quercus rubra	3b	MD	65/65 ft
Autumn Flame Red Maple	Acer rubrum ‘Autumn Flame’	3b	W	45/45 ft
Northwood Red Maple	Acer rubrum ‘Northwood’	3b	W	45/35 ft

