



City of Pullman

Street Tree Selection Guide

Criteria for Selecting a Street Tree

- Know your micro-climate—Pullman zone range 4-5 USDA.
- Sight clearance—intersections, signs, driveways
- City street and sidewalk height requirements (7 feet for sidewalks, 16 feet for street clearance)
- Overhead wires
- Planting community
- Soil and water requirements

Factors to consider	Recommendations
Spatial constraints such as overhead wires, narrow setbacks, signage, or frequent truck traffic	May require offset or trees with narrower crown shapes such as oval or vase.
Limited soil volume	Small trees
Screening of sight or sounds, wind break or heavy shade desired	Dense branching, possibly large trees where practical
Trees growing with or near other plants such as turfgrass or flower beds	Open less dense branching
Canopy effect desired	Vase-shaped crowns
Formal effect desired	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		Zone	Moisture	Size
Emerald Queen Norway Maple	Acer platanoides ‘Emerald Queen’	4a	MD	55/40
Summershade Norway Maple	Asher platanoides ‘Summershade’	4a	MD	55/40
Superform Norway Maple	Acer platanoides ‘Superform’	4a	MD	55/40
Autumn Flame Red Maple	Acer rubrum ‘Autumn Flame’	3b	W	45/45
Northwood Red maple	Acer rubrum ‘Northwood’	3b	W	45/35
October Glory Red maple	Acer rubrum ‘October Glory’	3b	Q	35/30
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
1 Faurei Callery Pear	Pyrus calleryana ‘Faurei’	5a	W/SD	20/20
2 Yellowwood	Cladrastis kentukea (lutea)	4b	MD	60/40
2 Autumn Purple White Ash	Fraxinus americana ‘Autumn Purple’	4a	W/MD	60/40
2 Emerald Green Ash	Fraxinus pennsylvanica ‘Emerald’	3a	W/MD	45/40
2 Kentucky Coffee Tree	Gymnocladus dioicus	4a	SD	70/50
2 Amur Cork Tree	Phellodendron amurense	4b	MWD	35/40
2 Macho Amur Corktree	Phellodendron amurense ‘Macho’	4b	MWD	35/40
3 Thornless Honey Locust	Gleditsia triacanthos var. inermis	4b	MD	55/55
3 Halka Honey Locust	Gleditsia triacanthos var. inermis ‘Halka’	4b	MD	45/40
3 Moraine Honey Locust	Gleditsia triacanthos var. inermis ‘Moraine’	4b	MD	65/55
3 Shademaster Honey Locust	Gleditsia triacanthos var. inermis ‘Shademaster’	4b	MD	65/50
3 Princeton Upright Scholar Tree	Sophora japonica ‘Princeton Upright’	5b	SD	45/35

Large Trees with Round Canopies, Open Branching, and Coarse-Textured Foliage		Zone	Moisture	Size
Bur Oak	Quercus macrocarpa	3a	W/SD	75/80
Chinquapin Oak	Quercus muehlenbergii	5a	MD	75/75
Red Oak	Quercus rubra	3b	MD	65/65
English Oak	Quercus robur	5b	MD	75/75
Large Trees with Oval Canopies, dense Branching, and Fine-Textured Foliage				
Bergeson Green Ash	Fraxinus pennsylvanica 'Bergeson'	2a	W/MD/SD	65/35
Cimmaron Green Ash	Fraxinus pennsylvanica 'Cimmaron'	2a	W/MD/SD	60/35
Newport Green Ash	Fraxinus pennsylvanica 'Newport'	2a	W/MD/SD	60/45
Patmore Green Ash	Fraxinus pennsylvanica 'Patmore'	2a	W/MD/SD	65/45
Summit Green Ash	Fraxinus pennsylvanica 'Summit'	2a	W/MD/SD	55/30
Urbanite Green Ash	Fraxinus pennsylvanica 'Urbanite'	5b	W/MD/SD	55/40
Tupelo	Nyssa sylvatica	5a	W	65/30
American Hophornbeam	Ostrya virginiana	3b	MD	35/40
Autumn Blaze Callery Pear	Pyrus calleryana 'Autumn Blaze'	5a	W/SD	40/30
Whitehouse Callery Pear	Pyrus calleryana 'Whitehouse'	5a	W/SD	45/15
Korean Mountain Ash	Sorbus alnifolia	4b	MWD	45/20
Chancellor Littleleaf Linden	Tilia cordata 'Chancellor'	3b	MD	45/20
Glenleven Littleleaf Linden	Tilia cordata 'Glenleven'	3b	MD	55/45
Greenspire Littleleaf Linden	Tilia cordata 'Greenspire'	3b	MD	50/35
Olympic Littleleaf Linden	Tilia cordata 'Olympic'	3b	MD	40/30
Rancho Littleleaf Linden	Tilia cordata 'Rancho'	3b	MD	45/30
Crimean Linden	Tilia x euchlora	4b	MD	65/40
Large Trees with Oval Canopies, Dense Branching, and Coarse-Textured Foliage				
Autumn Blaze Maple	Acer x freemanii 'Autumn Blaze'	4	W/MD	45/35
Autumn Fantasy Maple	Acer x freemanii 'Autumn Fantasy'	4	W/MD	40/30
Celebration Maple	Acer x freemanii 'Celebration' ('Celzam')	4	W/MD	55/40
Marmo Maple	Acer x freemanii 'Marmo'	4	W/MD	75/40
Morgan Maple	Acer x freemanii 'Morgan'	4	W/MD	75/40
Scarlet Sentinel Maple	Acer x freemanii 'Scarlet Sentinel'	4	W/MD	45/25
Spaethii Sycamore Maple	Acer pseudoplatanus 'Spaethii'	5b	MD	65/45
Cleveland Norway Maple	Acer platanoides 'Cleveland'	4a	MD	70/40
Parkway Norway Maple	Acer platanoides 'Parkway'	4a	MD	50/25
Red Sunset Maple	Acer rubrum 'Red Sunset'	3b	W	50/50
Caddo Sugar Maple	Acer saccharum 'Caddo'	3b	MWD	65/40
Commemoration Sugar Maple	Acer saccharum 'Commemoration'	3b	MWD	60/45
Green Mountain Sugar Maple	Acer saccharum 'Green Mountain'	3b	MWD	65/45
Legacy Sugar Maple	Acer saccharum 'Legacy'	3b	MWD	60/50
Majesty Sugar Maple	Acer saccharum 'Majesty'	3b	MWD	65/50
Redmond Bass Wood	Tilia americana 'Redmond'	3a	MD	70/40
Silver Linden	Tilia tomentosa	5a	MD	70/50

Large Trees with Oval Canopies, Open Branching, and fine-textured Foliage		Zone	Moisture	Size
Pyramidal Black Alder	<i>Alnus glutinosa</i> ‘Pyramidalis’	4a	W	35/10
Upright Black Alder	<i>Alnus glutinosa</i> ‘Fastigiata’	4a	W	40/30
Heritage River Birch	<i>Betula nigra</i> ‘Heritage’	4a	W	45/30
Asian White Birch	<i>Betula platyphylla</i> ‘Japonica’	2b	MWD	40/20
Whitespire Birch	<i>Betula platyphylla</i> ‘Whitespire’	2b	MWD	40/15
Autumn Applause White Ash	<i>Fraxinus americana</i> ‘Autumn Applause’	4a	W/MD	65/30
Champaign Country White Ash	<i>Fraxinus americana</i> ‘Champaign County’	4a	W/MD	55/35
Rose Hill White Ash	<i>Fraxinus americana</i> ‘Rose Hill’	4a	W/MD	55/40
Skyline White Ash	<i>Fraxinus americana</i> ‘Skyline’	4a	W/MD	50/35
Hess European Ash	<i>Fraxinus excelsior</i> ‘Hessei’	4a	MD/SD	55/45
Autumn Gold Ginkgo	<i>Ginkgo biloba</i> ‘Autumn Gold’	4b	SD	40/30
Skyline Honey Locust	<i>Gleditsia triacanthos</i> var. <i>inermis</i> ‘Skyline’	4b	MD	65/55
Aristocrat Callery Pear	<i>Pyrus calleryana</i> ‘Aristocrat’	5a	W/SD	35/30
Black Locust	<i>Robinia pseudoacacia</i>	4b	W/MD	65/40
Frontier Elm	<i>Ulmus carpinifolia</i> x <i>parvifolia</i> ‘Frontier’	5b	W	40/30
Homestead Elm	<i>Ulmus</i> ‘Homestead’	5a	W	55/40
Pioneer Elm	<i>Ulmus</i> ‘Pioneer’	5a	W	55/55
Urban Elm	<i>Ulmus</i> ‘Urban’	5a	W	60/40
Large Trees with Oval Canopies, Open Branching and Coarse Textured Foliage				
Briotti Red Horse Chestnut	<i>Aesculus x carnea</i> ‘Briotti’	5a	MWD	40/30
O'Neill Red Horse Chestnut	<i>Aesculus x carnea</i> O'Neill Red’	5a	MWD	35/25
Catalpa	<i>Catalpa speciosa</i>	4a	W	60/40
Sweetgum	<i>Liquidambar styraciflua</i>	5b	MWD	60/45
Moraine Sweetgum	<i>Liquidambar styraciflua</i> ‘Moraine’	5b	MWD	50/40
Tulip Tree	<i>Liriodendron tulipifera</i>	5a	MWD	75/50
Sawtooth Oak	<i>Quercus acutissima</i>	5b	MD	45/60
Swamp White Oak	<i>Quercus bicolor</i>	4a	W	65/55
Scarlet Oak	<i>Quercus coccinea</i>	5a	MD	65/45
Shingle Oak	<i>Quercus imbricaria</i>	5	W	65/40
Sovereign Pin Oak	<i>Quercus palustris</i> ‘Sovereign’	5a	W/MD	65/35
Crownright Pin Oak	<i>Quercus palustris</i> ‘Crownright’	5a	W	60/40
Schumard Oak	<i>Quercus schumardii</i>	5b	MD	80/45

Large Trees with Vase-Shaped Canopies and Fine Textured Foliage		Zone	Moisture	Size
Upright Sargent Cherry	Prunus sargentii 'Columnaris'	5a	MD	30/20
Delaware American Elm	Ulmus americana 'Delaware #2'	2b	W/MD	80/60
New Harmony Elm	Ulmus americana 'New Harmony'	5	SE	70/70
Princeton American Elm	Ulmus americana 'Princeton'	2b	W/MD	80/55
Valley Forge Elm	Ulmus americana 'Valley Forge'	5	SD	70/60
Washington American Elm	Ulmus americana 'Washington'	2b	W/MD	65/60
Dynasty Chinese Elm	Ulmus pavifolia 'Dynasty'	5b	W/SD	45/45
Ohio Chinese Elm	Ulmus parvifolia 'Ohio'	5	W/SD	40/30
Prospector Chinese Elm	Ulmus parvifolia 'Prospector'	4	W/SD	40/20
Pathfinder Elm	Ulmus parvifolia 'Pathfinder'	5a	SD	40/35
Patriot Elm	Ulmus x 'Patriot'	4	SD	60/40
Sapporo Autumn Gold Hybrid Elm	Ulmus x 'Sapporo Autumn Gold'	5a	W/MD	55/55
Green Vase Zelkova	Zelkova serrata 'Green Vase'	5b	SD	65/45
Halka Zelkova	Zelkova serrata 'Halka'	5b	SD	55/40
Village Green Zelkova	Zelkova serrata 'Village Green'	5b	SD	65/45
Large Trees with Columnar Canopies				
Armstrong Hybrid Maple	Acer x freemanii 'Armstrong'	4	W/MD	55/15
Green Column Black Maple	Acer nigrum 'Green Column'	5	SD	60/25
Columnar Norway Maple	Acer platanoides 'Columnare'	4a	MD	40/15
Bowhall Red Maple	Acer rubrum 'Bowhall'	3b	W	45/15
Columnar Red Maple	Acer rubrum 'Columnare'	3b	W	45/20
Karpick Red Maple	Acer rubrum 'Karpick'	3b	W	45/20
Upright European Hornbeam	Carpinus betulus 'Fastigiata'	5a	MD	40/20
Lakeview Ginkgo	Ginkgo biloba 'Lakeview'	4b	SD	55/25
Princeton Sentry Ginkgo	Ginkgo biloba 'Princeton Sentry'	4b	SD	60/20
Capital Callery pear	Pyrus calleryana 'Capital'	5a	W	45/15
Chanticleer Callery Pear	Pyrus calleryana 'Chanticleer'	5a	W	45/20
Attention English Oak	Quercus robur 'Attention'	5a	MD	45/15
Upright English Oak	Quercus robur 'Fastigiata'	5a	MD	65/15
Small Trees with Vase Shaped Canopies				
Adirondack Crabapple	Malus 'Adirondack'	4	MD	15/15
Sentinel Crabapple	Malus 'Sentinel'	4	SD	20/15
Strawberry Parfait Crabapple	Malus 'Strawberry Parfait' (may have a purplish or bronze tint to the foliage)	4	SD	20/20
Accolade Flowering Cherry	Prunus 'Accolade'	5	MD	25/25
Large Round Trees for Severe Drought with Compound Leaves				
Kentucky Coffee Tree	Gymnocladus dioica	4a	SD	70/50
Princeton Upright Scholar Tree	Sophora japonica 'Princeton Upright'	5b	SD	45/35
Black Locust	Robinia pseudoacacia	4b	SD	65/40

Small Trees for Severe Drought		Zone	Moisture	Size
Hedge Maple	Acer campestre	5a	SD	30/30
Washington Hawthorn	Crataegus phaenopyrum	4b	SD	20/20
Winter King Hawthorn	Crataegus viridis 'Winter King'	5a	SD	20/30
Goldenraintree	Koelreuterea paniculata	5b	SD	35/40
Crabapple	Malus (all the recommended cultivars)	3-4	SD	varies
Summer Snow Japanese Tree Lilac	Syringa reticulata 'Summer Snow'	3a	SD	20/20
Ivory Silk Japanese Tree Lilac	Syringa reticulata 'Ivory Silk'	3a	SD	20/15
Regent Japanese Tree Lilac	Syringa reticulata 'Regent'	3a	SD	20/20
Large Round Trees for Cold Climates (Zone 3b and lower)				
Prairie Pride Hackberry	Celtis occidentalis 'Prairie Pride'	3b	SD	35/40
Emerald Green Ash	Fraxinus pennsylvanica 'Emerald'	2a	MD	45/40
Bur Oak	Quercus macrocarpa	3a	SD	75/80
Red Oak	Quercus rubra	3b	MD	65/65
Autumn Flame Red Maple	Acer rubrum 'Autumn Flame'	3b	W	45/45
Northwood Red Maple	Acer rubrum 'Northwood'	3b	W	45/35

