



SHORT LIST OF REPLACEMENT TREE SPECIES

This list is for non-development tree replanting on private property.

For tree planting in development, please see <https://www.portlandoregon.gov/bds/45483>

Replace removed trees with something of value

Trees vary greatly in how well they cool and clean the air, slow rainfall runoff, quiet sound, and serve as habitat. When choosing trees to replace those being removed, consider species that provide the highest value to the urban environment:

- Evergreens: provide year-round benefits
- Natives: adapted to Portland's climate
- Large trees: provide more canopy benefits than small trees
- Disease-resistant species or cultivars: improve the urban forest's resiliency

You may also want to consider planting trees that are longer lived, thrive in Portland's climate, are drought tolerant (reducing water demand in the summer), or that provide habitat for wildlife (such as flowers for pollinators or seeds, fruits, or cones for birds or other wildlife).

Minimum requirements for a replacement tree

Replacement trees must:

- Grow on average to at least 15 feet or more
- Be reliably hardy in the Portland area
- Not be an invasive species (nuisance tree) on the Portland Plant List
- Not be prone to fatal pests or diseases, such as Dutch elm disease

Don't see a tree that you're interested in on this list?

View a longer list of trees at www.portlandoregon.gov/trees/replacementtrees, or request the longer list from your Tree Inspector or from Urban Forestry at 503-823-TREE (8733) or trees@portlandoregon.gov. For trees not on that list, contact your Tree Inspector with the botanical and common name of trees you want to plant, including cultivar or variety name, if any. The Tree Inspector can then determine whether the tree is an appropriate replacement tree.

City Nature - Urban Forestry

1900 SW 4th Ave, Suite 5000

Portland, OR 97201

Tel: (503) 823-TREE (8733) Fax: (503) 823-4493

Administration

1120 S.W. 5th Ave., Suite 1302

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Portland Trees – www.Portlandoregon.gov/trees - permits, tree removal, report a downed tree.

Sustaining a healthy park and recreation system to make Portland a great place to live, work and play.

PortlandParks.org • Amanda Fritz, Commissioner • Mike Abbaté, Director



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Table 1: small evergreens (mature size is 15' to 30' tall)

OR = Native to Oregon

ESP = Early spring

LSP = Late Spring

PDX = Native to Portland/Willamette Valley

SP = Spring

SU = Summer

	Common name	Botanical name	Native	Wildlife value	Showy flowers	Bark interest	Drought tolerance
	Azara – Boxleaf	<i>Azara microphylla</i>					
	Cedar – Weeping Alaska yellow	<i>Cupressus nootkatensis</i> ‘Pendula’, ‘Viridis’	OR				Low
	Cedar – Deodar	<i>Cedrus deodara</i> ‘Albospicata’, ‘Aurea Pendula’, ‘Electra’, ‘Gold Cone’, ‘Golden Horizon’, ‘Harvest Gold’, ‘Well’s Golden’					
	Cryptomeria cultivars	<i>Cryptomeria japonica</i> ‘Elegans’ and ‘Sekkan’					
	Cypress – Blue Ice Arizona	<i>Cupressus arizonica</i> var. <i>glabra</i> ‘Blue Ice’					High
	Elaeocarpus	<i>Elaeocarpus decipiens</i>		Fruits			
	Eucalyptus – Alpine cider gum	<i>Eucalyptus archeri</i>		Flowers		Yes	
	Eucalyptus – Jounoma snow gum	<i>Eucalyptus pauciflora</i> ssp. <i>debeuzevillei</i>		Flowers		Yes	Med
	Eucalyptus – Snow gum	<i>Eucalyptus pauciflora</i> ssp. <i>niphophila</i>		Flowers		Yes	Med
	Eucalyptus – Spinning gum	<i>Eucalyptus perriniana</i>		Flowers		Yes	
	Eucryphia – Rostrevor	<i>Eucryphia x intermedia</i> ‘Rostrevor’		Flowers	SU		
	Fir – Korean	<i>Abies koreana</i> (inc. ‘Silberlocke’)		Seeds			
	Fir – Blue Cloak white	<i>Abies concolor</i> ‘Blue Cloak’	OR	Seeds			
	Juniper – Alligator	<i>Juniperus deppeana</i>		Seeds		Yes	High
	Juniper – Rocky Mountain cultivars	<i>Juniperus scopulorum</i> (inc. ‘Cologreen’, ‘Pathfinder’ and ‘Wichita Blue’)		Seeds			High
	Magnolia – Banana fig	<i>Magnolia figo</i>		Seeds	SP		Low
	Magnolia – Southern	<i>Magnolia grandiflora</i> ‘Alta’, ‘Edith Bogue’, ‘Kay Parris’, ‘Little Gem’, ‘St. Mary’, ‘Victoria’		Seeds	SU		
	Marina strawberry tree	<i>Arbutus x ‘Marina’</i>		Fruits	Fall	Yes	Med
	Oak – Mexican	<i>Quercus mexicana</i>		Acorns			High
	Oak – Ringcup or Japanese blue	<i>Quercus glauca</i>		Acorns			
	Oak – Ubame	<i>Quercus phillyraeoides</i>		Acorns			
	Photinia – Chinese	<i>Photinia serratifolia</i>		Flowers	SP		Med
	Pine – Arnold’s Sentinel Austrian	<i>Pinus nigra</i> ‘Arnold’s Sentinel’		Seeds			
	Pine – Dragon’s Eye Korean	<i>Pinus koraiensis</i> ‘Oculus Draconis’					
	Pine – Emerald Arrow Bosnian	<i>Pinus heldreichii</i> var. <i>leucodermis</i> ‘Emerald Arrow’		Seeds			Med
	Pine – Fastigiata Eastern white	<i>Pinus strobus</i> ‘Fastigiata’		Seeds			
	Pine – Shore	<i>Pinus contorta</i> var. <i>contorta</i>	OR	Seeds			
	Pine – Silveray Korean	<i>Pinus koraiensis</i> ‘Silveray’		Seeds			
	Pine – Swiss stone	<i>Pinus cembra</i> (inc. ‘Compacta Glauca’)		Seeds			
	Pine – Tanyosho Japanese red	<i>Pinus densiflora</i> ‘Tanyosho’		Seeds		Yes	Med
	Pine – Japanese black	<i>Pinus thunbergii</i> (inc. ‘Thunderhead’)		Seeds			Med
	Pine – Umbrella	<i>Sciadopitys verticillata</i> (inc. ‘Wintergreen’)					
	Pine – Vanderwolf’s Pyramid	<i>Pinus flexilis</i> ‘Vanderwolf’s Pyramid’	OR	Seeds			High
	Silky laurel	<i>Neolitsea sericea</i>					Low
	Spruce – Bruns Serbian	<i>Picea omorika</i> ‘Bruns’		Seeds			
	Spruce – Colorado blue cultivars	<i>Picea pungens</i> ‘Baby Blue’ and ‘Glacier Blue’		Seeds			Med
	Spruce – Red Cone, Paul’s Select	<i>Picea abies</i> ‘Acrocona’ and ‘Paul’s Select’		Seeds			
	Spruce – Skylands Oriental	<i>Picea orientalis</i> ‘Skylands’		Seeds			Med
	Strawberry tree	<i>Arbutus unedo</i>		Fruits	Fall		Med

Table 2: medium evergreens (mature size is over 30' up to 50' tall)

SP = Spring SU = Summer PDX = Portland/Willamette Valley native OR = Oregon native

	Common name	Botanical name	Native	Wildlife value	Showy flowers	Bark interest	Drought tolerance
	Alaska yellow-cedar	<i>Cupressus nootkatensis</i>	OR				Low
	Camphor – Hardy Chinese	<i>Cinnamomum chekiangensis</i>					
	Cedar –Deodar medium cultivars	<i>Cedrus deodara</i> ‘Aurea’, ‘Emerald Falls’, ‘Karl Fuchs’, ‘Lakeview’, ‘Miles High’, ‘Shalimar’					
	Cedar – Western red cultivars	<i>Thuja plicata</i> ‘Atrovirens’, ‘Excelsa’, ‘Virescens’	PDX				
	Cedar – Green Giant hybrid	<i>Cedrus x</i> ‘Green Giant’					
	Cryptomeria	<i>Cryptomeria japonica</i> ‘Kitayama’, ‘Radicans’ and ‘Yoshino’					
	Cypress – Arizona	<i>Cupressus arizonica</i>					High
	Cypress – Baker	<i>Cupressus bakeri</i>	OR	Seeds			High
	Cypress – Sargent	<i>Cupressus sargentii</i>					High
	Cypress – Sawara cypress	<i>Chamaecyparis pisifera</i>					
	Drimys, Winter’s bark	<i>Drimys winteri</i>			SP		
	Eucalyptus – Cider gum	<i>Eucalyptus gunnii</i>		Flowers		Yes	
	Eucryphia – Nymansay	<i>Eucryphia x nymansensis</i> ‘Nymansay’		Flowers	SU		
	Fir – Select white	<i>Abies concolor</i> ‘Select’		Seeds			
	Fir – Tortifolia Caucasian	<i>Abies nordmanniana</i> ‘Tortifolia’		Seeds			
	Gordonia	<i>Gordonia lasianthus</i>		Flowers	SP		Low
	Laurel – True or Mediterranean	<i>Laurus nobilis</i>		Fruits			High
	Magnolia – Southern	<i>Magnolia grandiflora</i> ‘D.D. Blanchard’		Seeds	SU		
	Magnolia – Sweetbay	<i>Magnolia virginiana</i> ‘Henry Hicks’, ‘Jim Wilson’		Seeds			
	Magnolia – Tamaulipas	<i>Magnolia tamaulipana</i> ‘Bronze Sentinel’		Seeds	SP		
	Myrtle – Oregon	<i>Umbellularia californica</i> *	OR	Fruits			High
	Oak – Bambooleaf oak	<i>Quercus myrsinifolia</i>		Acorns			
	Oak – Cork	<i>Quercus suber</i>		Acorns		Yes	High
	Oak – Silverleaf	<i>Quercus hypoleucoides</i>		Acorns			High
	Pine – Austrian	<i>Pinus nigra</i>		Seeds			Med
	Pine – Bosnian	<i>Pinus heldreichii</i> Syn. <i>P. leucodermis</i>		Seeds			
	Pine – Swiss stone	<i>Pinus cembra</i> (inc. ‘Chalet’ and ‘Silver Sheen’)		Seeds			
	Pine – Japanese black	<i>Pinus thunbergii</i>		Seeds			Med
	Pine – Japanese stone pine	<i>Pinus pumila</i>		Seeds			
	Pine – Japanese white	<i>Pinus parviflora</i> (inc. forma ‘Glauca’)		Seeds			
	Pine – Lacebark	<i>Pinus bungeana</i>		Seeds		Yes	
	Pine – Limber	<i>Pinus flexilis</i>	OR	Seeds			High
	Pine – Korean	<i>Pinus koraiensis</i> (inc. ‘Morris Blue’)		Seeds			
	Pine – Pinyon	<i>Pinus cembroides</i> var. <i>edulis</i>		Seeds			High
	Pine – Scots pine	<i>Pinus sylvestris</i> (inc. ‘Aurea’, ‘Bonna’)		Seeds		Yes	
	Pine – Singleleaf pinyon	<i>Pinus monophylla</i>		Seeds			High
	Pine – White Mountain Eastern	<i>Pinus strobus</i> ‘White Mountain’		Seeds			
	Spruce – Black Hills	<i>Picea glauca</i> var. <i>densata</i>		Seeds			High
	Spruce – Colorado blue	<i>Picea pungens</i> (inc. ‘Bison Blue’, ‘Fat Albert’, ‘Hoopsii’, ‘Mission Blue’, and ‘Select Blue’)		Seeds			Med
	Thujopsis	<i>Thujopsis dolabrata</i>					
	Yew – Western	<i>Taxus brevifolia</i>	PDX			Yes	

Table 3: large evergreens (mature size is over 50' tall)

OR = Oregon native PDX = Portland or Willamette Valley native

SP = Spring SU = Summer

	Common name	Botanical name	Native	Wildlife value	Showy flowers	Bark interest	Drought tolerance
	Castanopsis or Japanese chinkapin	<i>Castanopsis cuspidata</i>		Acorns			
	Cedar – Alaska yellow	<i>Cupressus nootkatensis</i>	OR				Low
	Cedar – Atlas	<i>Cedrus atlantica</i> (inc. 'Glauca')					High
	Cedar – Western red	<i>Thuja plicata</i> (inc. 'Hogan',)	PDX				
	Cedar – Incense	<i>Calocedrus decurrens</i>	OR				High
	Cedar – Deodar	<i>Cedrus deodara</i> (inc. 'Inverness', 'Kashmir')					
	Cedar – Lebanon	<i>Cedrus libanii</i>					High
	China-fir	<i>Cunninghamia lanceolata</i> (inc. 'Glauca')					
	Cypress – Gowen	<i>Cupressus goveniana</i>					High
	Douglas-fir	<i>Pseudotsuga menziesii</i>	PDX	Seeds			
	Fir – Caucasian	<i>Abies nordmanniana</i>		Seeds			
	Fir – Grand	<i>Abies grandis</i>	PDX	Seeds			Medium
	Fir – Greek	<i>Abies cephalonica</i>		Seeds			
	Fir – Maries	<i>Abies mariesii</i>		Seeds			
	Fir – Nikko	<i>Abies homolepis</i>		Seeds			
	Fir – Noble	<i>Abies procera</i>	OR	Seeds			
	Fir – Spanish	<i>Abies pinsapo</i> (inc. 'Glauca')		Seeds			Medium
	Fir – Subalpine	<i>Abies lasiocarpa</i>	OR	Seeds			Low
	Fir – White	<i>Abies concolor</i>	OR	Seeds			Medium
	Hemlock – Mountain	<i>Tsuga mertensiana</i>	OR	Seeds			
	Hemlock – Western	<i>Tsuga heterophylla</i>	PDX	Seeds			
	Incense cedar	<i>Calocedrus decurrens</i>	OR	Seeds			High
	Madrone	<i>Arbutus menziesii</i>	PDX	Fruits	SP	Yes	High
	Magnolia – Southern	<i>Magnolia grandiflora</i>		Seeds	SU		
	Monkey puzzle	<i>Araucaria araucana</i>					
	Oak – Canyon live oak	<i>Quercus chrysolepis</i>	OR	Acorns			High
	Oak – Holly	<i>Quercus ilex</i> *		Acorns			High
	Oak – Interior live	<i>Quercus wislizeni</i>		Acorns			High
	Oak – Southern live	<i>Quercus virginiana</i>		Acorns			
	Pine – Aleppo	<i>Pinus halepensis</i>		Seeds			High
	Pine – Apache	<i>Pinus engelmannii</i>		Seeds			High
	Pine – Balkan or Macedonian	<i>Pinus peuce</i>		Seeds			Medium
	Pine – Durango	<i>Pinus durangensis</i>		Seeds			High
	Pine – Eastern white	<i>Pinus strobus</i> (inc. 'Glauca')		Seeds			Low
	Pine – Japanese red	<i>Pinus densiflora</i>		Seeds		Yes	Medium
	Pine – Jeffrey	<i>Pinus jeffreyi</i>	OR	Seeds		Yes	High
	Pine – Lodgepole	<i>Pinus contorta</i> var. <i>latifolia</i>	OR	Seeds			High
	Pine – Ponderosa	<i>Pinus ponderosa</i> (Willamette Valley origin)	PDX	Seeds		Yes	High
	Pine – Red	<i>Pinus resinosa</i>		Seeds		Yes	
	Pine – Southwestern white	<i>Pinus strobiformis</i>		Seeds			
	Pine – Western white	<i>Pinus monticola</i>	OR	Seeds			Medium
	Redwood – Coastal	<i>Sequoia sempervirens</i> (inc. 'Aptos Blue')	OR			Yes	
	Sequoia – Giant	<i>Sequoiadendron giganteum</i>		Seeds		Yes	
	Spruce – Lijiang purple-coned	<i>Picea likiangensis</i> var. <i>purpurea</i>		Seeds			
	Spruce – Oriental	<i>Picea orientalis</i> (inc. 'Atrovirens')		Seeds			
	Spruce – Serbian	<i>Picea omorika</i>		Seeds			

Table 4: small and medium native trees of the Willamette Valley and Oregon (mature size is 15' to 50' tall)

EB = Evergreen broadleaf EC = Evergreen conifer SP = Spring bloom LSP = late spring bloom
PDX = native to Portland/the Willamette Valley OR = native elsewhere in Oregon

	Common name	Botanical name	Mature height	Evergreen	Native	Wildlife value	Showy flowers	Showy fall color	Drought tolerance
	Cascara buckthorn	<i>Rhamnus purshiana</i> *	Small		PDX	Fruit			Med
	Cedar – Weeping blue Alaska yellow	<i>Cupressus nootkatensis</i> 'Glauca Pendula' and 'Pendula'	Small	EC	OR				Low
	Cedar – Viridis Alaska yellow	<i>Cupressus nootkatensis</i> 'Viridis'	Small	EC	OR				Low
	Cedar – Western red cultivars	<i>Thuja plicata</i> (inc. 'Atrovirens', 'Excelsa' 'Virescens' and 'Zebrina')	Medium	EC	PDX				
	Crabapple – Western	<i>Malus fusca</i>	Small		PDX	Fruit	SP		Med
	Cypress – Baker	<i>Cupressus bakeri</i>	Medium	EC	OR	Seeds			High
	Dogwood – Pacific	<i>Cornus nuttallii</i>	Medium		PDX	Fruit	SP	Yes	
	Hackberry – Netleaf	<i>Celtis reticulata</i>	Medium		OR				High
	Hawthorn – Black	<i>Crataegus douglasii</i>	Small		PDX	Fruits	SP		
	Larch – Subalpine	<i>Larix lyallii</i>	Medium		OR	Seeds			
	Maple – Vine	<i>Acer circinatum</i>	Small		PDX			Yes	
	Myrtle – Oregon	<i>Umbellularia californica</i> *	Medium	EB	OR	Fruits			High
	Pine – Limber	<i>Pinus flexilis</i>	Medium	EC	OR	Seeds			High
	Pine – Shore	<i>Pinus contorta</i> var. <i>contorta</i>	Small	EC	OR	Seeds			
	Pine – Vanderewolf's Pyramid limber	<i>Pinus flexilis</i> 'Vanderwolf's Pyramid'	Small	EC	OR	Seeds			High
	Spruce – Engelmann	<i>Picea engelmannii</i>	Medium	EC	OR	Seeds			
	Willow – Scouler's	<i>Salix scouleriana</i>	Small		PDX				
	Yew – Western	<i>Taxus brevifolia</i>	Medium	EC	PDX				Med

Table 5: large native trees of the Willamette Valley and Oregon (mature size is over 50' tall)

EB = Evergreen broadleaf EC = Evergreen conifer SP = spring

	Common name	Botanical name	Evergreen	Native	Wildlife value	Showy flowers	Showy fall color	Drought tolerance
	Alder – Red	<i>Alnus rubra</i>		PDX				Low
	Alder – White	<i>Alnus rhombifolia</i>		PDX				
	Cedar – Alaska yellow	<i>Cupressus nootkatensis</i>	EC	OR				Low
	Cedar – Western red	<i>Thuja plicata</i> (inc. ‘Aтровirens’, ‘Hogan’, ‘Virescens’ and ‘Zebrina’)	EC	PDX				
	Cedar – Incense	<i>Calocedrus decurrens</i>	EC	OR				High
	Douglas-fir	<i>Pseudotsuga menziesii</i>	EC	PDX	Seeds			
	Fir – Grand	<i>Abies grandis</i>	EC	PDX	Seeds			Med
	Fir – Noble	<i>Abies procera</i>	EC	OR	Seeds			
	Fir – Pacific silver	<i>Abies amabilis</i>	EC	OR	Seeds			Low
	Fir – Subalpine	<i>Abies lasiocarpa</i>	EC	OR	Seeds			Low
	Fir – White	<i>Abies concolor</i>	EC	OR	Seeds			
	Hemlock – Mountain	<i>Tsuga mertensiana</i>	EC	OR	Seeds			
	Hemlock – Western	<i>Tsuga heterophylla</i>	EC	PDX	Seeds			
	Larch – Western	<i>Larix occidentalis</i>		OR	Seeds		Yes	
	Madrone	<i>Arbutus menziesii</i>	EB	PDX	Fruits	SP		High
	Maple – Bigleaf	<i>Acer macrophyllum</i> *		PDX	Seeds			Med
	Oak – California black	<i>Quercus kelloggii</i>		PDX	Acorns			Med
	Oak – Canyon live oak	<i>Quercus chrysolepis</i>	EB	PDX	Acorns			High
	Oak – Oracle	<i>Quercus x moreha</i>		OR	Acorns			High
	Oak – Oregon white	<i>Quercus garryana</i>		PDX	Acorns			High
	Pine – Jeffrey	<i>Pinus jeffreyi</i>	EC	OR	Seeds			High
	Pine – Lodgepole	<i>Pinus contorta</i> var. <i>latifolia</i>	EC	OR	Seeds			High
	Pine – Ponderosa – Willamette Valley origin	<i>Pinus ponderosa</i> var. <i>benthamiana</i>	EC	PDX	Seeds			High
	Pine – Western white	<i>Pinus monticola</i>	EC	PDX	Seeds			Med
	Redwood – Coastal	<i>Sequoia sempervirens</i>	EC	OR				
	Spruce – Brewer’s	<i>Picea breweriana</i>	EC	OR	Seeds			
	Spruce – Sitka	<i>Picea sitchensis</i>	EC	OR	Seeds			Low
	Spruce – White	<i>Picea glauca</i>	EC	OR	Seeds			
	Tanoak or Tanbark oak	<i>Lithocarpus densiflorus</i>	EB	OR	Acorns			High

Table 6: small deciduous trees (mature size is 15' to 30' tall)

SP = Spring LSP = late spring SU = Summer PDX = native to Portland/the Willamette Valley

Common name	Botanical name	Native	Wildlife value	Showy flowers	Showy fall color	Bark interest	Drought tolerance
Amur maackia	<i>Maackia amurensis</i> (inc. 'Maacnificent')		Flowers	SU			
Beech – Tricolor European	<i>Fagus sylvatica</i> 'Roseomarginata' or 'Tricolor'		Seeds				Low
Birch – Shiloh Splash river	<i>Betula nigra</i> 'Shiloh Splash'					Yes	Low
Buckeye – California	<i>Aesculus californica</i>			SU			High
Buckeye – Red	<i>Aesculus pavia</i>		Flowers	SP			
Cascara buckthorn	<i>Rhamnus purshiana</i> *	PDX	Fruit				Med
Catalpa – Chinese	<i>Catalpa ovata</i>		Flowers	SU			
Cherry – Paperbark or Tibetan	<i>Prunus serrula</i>					Yes	
Cherry – Chokecherry	<i>Prunus virginiana</i>	PDX	Fruit	SP			
Cherry – Japanese flowering	<i>Prunus serrulata</i>			SP	Yes		
Cherry – Manchurian cherry	<i>Prunus maackia</i>			SP	Yes	Yes	
Crabapple – Golden Raindrops	<i>Malus transitoria</i> 'Schmidtcutleaf'		Fruit	SP			
Crabapple – Cultivars	<i>Malus</i> x 'Adirondack', 'Prairiefire', 'Professor Sprenger', 'Purple Prince', 'Royal Raindrops'		Fruit	SP			
Crabapple – Tea	<i>Malus hupehensis</i>		Fruit	SP			
Crabapple – Western	<i>Malus fusca</i>	PDX	Fruit	SP			Med
Crape myrtle – Hybrid	<i>Lagerstroemia x fauriei</i> "Apalachee', 'Arapaho', 'Biloxi', 'Choctaw', 'Centennial Spirit', 'Dynamite', 'Fantasy', 'Lipan', 'Muskogee', 'Natchez', 'Osage', 'Tuscarora', 'Sioux', and 'Wichita'		Flowers	SU	Yes	Yes	
Dogwood – Rutger hybrid	<i>Cornus</i> x 'Rutban', 'Rutdan', 'Rutgan' e.g. 'Aurora', 'Celestial', 'Constellation', 'Hyperion', 'Stellar Pink', 'Venus'		Fruit	SP	Yes		
Dogwood – kousa	<i>Cornus kousa</i> (inc. 'Blue Shadow', 'China Girl', 'Heart Throb', 'Milky Way Select', 'Radiant Rose', 'Samaritan', 'Summer Majesty')		Fruit	SP	Yes	Yes	
Dogwood – Cornelian cherry	<i>Cornus mas</i> (inc. 'Golden Glory')		Fruit	ESP			
Dogwood – Eddie's White Wonder	<i>Cornus</i> x 'Eddie's White Wonder'		Fruit	SP	Yes		
Dogwood – Starlight or Venus	<i>Cornus</i> x 'KN4-43' or 'KN30-8'			SP	Yes		
Elm – Emerald Sunshine hybrid	<i>Ulmus propinqua</i> 'JFS-Bieberich'				Yes		
Epaulette tree	<i>Pterostyrax hispida</i>		Flowers	SP			
Epaulette tree – Fragrant	<i>Pterostyrax corymbosa</i>		Flowers	SP			
Fringetree – Chinese	<i>Chionanthus retusus</i> (inc. 'Arnold's		Flowers	SP		Yes	

		Pride', 'Tokyo Tower')		/Fruits				
	Goldenrain tree	<i>Koelreuteria paniculata</i> (inc. Coral Sun', 'September' and 'Summerburst')		Flowers	SU	Yes		Med
	Hawthorn – Black	<i>Crataegus douglasii</i>	PDX	Fruits	SP			High
	Hawthorn – Thornless cockspur	<i>Crataegus crus-galli</i> var. <i>inermis</i>		Fruits	SP	Yes		Med
	Hawthorn – Lavelle	<i>Crataegus x lavellei</i>		Fruits	SP	Yes		Med
	Hawthorn – Washington	<i>Crataegus phaenopyrum</i>		Fruits	SP	Yes		Med
	Hornbeam – Frans Fontaine	<i>Carpinus betulus</i> 'Frans Fontaine'						
	Hornbeam – Japanese	<i>Carpinus japonica</i>						
	Hornbeam – Looseflower	<i>Carpinus laxiflora</i> Syn. <i>C. fargesii</i>						
	Jujube or Chinese date	<i>Ziziphus jujuba</i>		Fruits				Med
	Maackia – Amur	<i>Maackia amurensis</i>		Flowers	SU			
	Maackia – Chinese	<i>Maackia chinensis</i>		Flowers	SU			
	Magnolia – Cultivars	<i>Magnolia x 'Athene', 'Atlas', 'Blushing Belle', 'Butterflies', 'Daybreak', 'Elizabeth', 'Emma Cook', 'Galaxy', 'Goldfinch', 'Iolanthe', 'Jon Jon', 'Judy Zuk', 'Legacy', 'Marjory Gossler', 'Milky Way', 'Porcelain Dove', 'Royal Crown', 'Sayonara', 'Serene', 'Solar Flare', 'Star Acclaim', 'Sunburst', 'Tranquility', 'Vulcan', 'Wada's Memory', 'Yellow Fever', and 'Yellow Lantern'</i>		Seeds	SP			
	Magnolia – Iufer willowleaf	<i>Magnolia salicifolia</i> 'Iufer'		Seeds	SP			
	Magnolia – Loebner hybrid	<i>Magnolia x loebneri</i> 'Ballerina', 'Leonard Messel', 'Merrill', 'Spring Joy'		Seeds	SP			
	Magnolia – Saucer	<i>Magnolia x soulangiana</i> and cultivars		Seeds	SP			
	Magnolia – Yulan	<i>Magnolia denudata</i>		Seeds	SP			
	Magnolia – Zen	<i>Magnolia zenii</i>		Seeds	SP			
	Maple – Korean	<i>Acer pseudosieboldianum</i>				Yes		
	Maple – Paperbark	<i>Acer griseum</i>				Yes	Yes	
	Maple – Shantung	<i>Acer truncatum</i>						
	Maple – Three-flower maple	<i>Acer triflorum</i>				Yes	Yes	
	Oak – Gambel	<i>Quercus gambelii</i>		Acorns		Yes		High
	Persian ironwood – smaller cultivars	<i>Parrotia persica</i> 'Lamplighter', 'Persian Lace', 'Persian Spire', 'Ruby Lace', and 'Vanessa'				Yes	Yes	Med
	Persimmon – Cultivars of American	<i>Diospyros virginiana</i> 'Early Golden' or 'Meader'		Fruits		Yes		
	Persimmon – Asian (all cultivars)	<i>Diospyros kaki</i>		Fruits				
	Raisintree – Japanese	<i>Hovenia dulcis</i>		Fruits				
	Redbud – Oklahoma Texas	<i>Cercis canadensis</i> var. <i>texensis</i> 'Oklahoma'		Flowers	SP			Med
	Smoketree – American	<i>Cotinus obovatus</i>				Yes		Med
	Snowbell – Fragrant	<i>Styrax obassia</i>		Flowers	LSP			
	Stewartia – Beaked	<i>Stewartia rostrata</i>		Flowers	SP	Yes		Low
	Stewartia – Japanese	<i>Stewartia pseudocamellia</i>		Flowers	SU	Yes	Yes	Low
	Stewartia – Orangebark or tall	<i>Stewartia monadelph</i>		Flowers	SU	Yes	Yes	
	Stewartia – Toothed	<i>Stewartia serrata</i>		Flowers	SU	Yes		Low
	Tree lilac – Japanese	<i>Syringa reticula</i> 'China Gold', 'Ivory Silk' and 'Summer Snow'		Flowers	LSP			
	Tree lilac – Peking	<i>Syringa reticulata</i> ssp. <i>pekinensis</i> 'Beijing Gold', 'China Snow', and 'Summer'		Flowers	LSP		Yes	

		Charm'						
	Tupelo – Gum Drop	<i>Nyssa sylvatica</i> 'JFS-PN Legacy 1'						Low
	Willow – Scouler's	<i>Salix scouleriana</i>	PDX					
	Winged hackberry	<i>Pteroceltis tatarinowii</i>					Yes	Med
	Zelkova – City Sprite Japanese	<i>Zelkova serrata</i> 'JFS-KW1'					Yes	
	Zelkova – Wireless	<i>Zelkova serrata</i> 'Schmidtlow'					Yes	

Table 7: medium deciduous trees (mature size is 30' to 50' tall)

SP = Spring LSP = Late spring SU = Summer
PDX = native to Portland/Willamette Valley

	Common name	Botanical name	Native	Wildlife value	Showy flowers	Showy fall color	Bark interest	Drought tolerance
	Beech – Medium-sized cultivars of European	<i>Fagus sylvatica</i> ‘Dawyck Gold’, ‘Dawyck Purple’, ‘Red Obelisk’, ‘Rohanii’ and ‘Zlatia’		Seeds				Low
	Birch – River	<i>Betula nigra</i> (inc. ‘Dura-Heat’ and ‘Heritage’)					Yes	Low
	Catalpa – Purple	<i>Catalpa x erubescens</i> ‘Purpurea’		Flowers	SU			
	Chestnut – Chinese	<i>Castanea mollissima</i>		Nuts				
	Cork tree – male cultivars	<i>Phellodendron</i> (inc. ‘His Majesty’ and ‘Longenecker’)				Yes		Med
	Dogwood – Giant	<i>Cornus controversa</i> (inc. ‘June Snow’ and ‘Variegata’)		Fruit	LSP	Yes		Low
	Elm – Emerald Sunshine	<i>Ulmus propinqua</i> ‘JFS Bierberich’						
	Elm – Lacebark	<i>Ulmus parvifolia</i> ‘Allee’, ‘Athena’, ‘Bosque’, ‘Emerald Prairie’ and ‘Golden Rey’				Yes		
	Elm – Frontier hybrid	<i>Ulmus</i> ‘Frontier’				Yes		
	Elm – Patriot hybrid	<i>Ulmus</i> x ‘Patriot’						
	Elm – Prospector	<i>Ulmus davidiana</i> var. <i>japonica</i> ‘Prospector’						
	Eucommia Chinese rubber tree)	<i>Eucommia ulmoides</i> (inc. ‘Emerald Pointe’)						
	Ginkgo – male cultivars	<i>Ginkgo biloba</i> ‘Autumn Gold’, ‘Golden Colonnade’, ‘Halka’, ‘Magyar’, ‘Presidential Gold’, ‘Saratoga’, ‘Windover Gold’				Yes		
	Horsechestnut – Seedless	<i>Aesculus hippocastanum</i> ‘Baumannii’		Flowers	SP			
	Horsechestnut – Red-flowering	<i>Aesculus</i> x <i>carnea</i> (inc. ‘Ft. McNair’)		Flowers	SP			
	Katsura – Red Fox or Rotfuchs	<i>Cercidiphyllum japonicum</i> ‘Rotfuchs’				Yes		Low
	Linden – American (mid-size cultivars)	<i>Tilia americana</i> (inc. ‘American Sentry’, ‘Legend’ and ‘Redmond’)		Flowers				
	Linden – Harvest Gold hybrid	<i>Tilia</i> x ‘Harvest Gold’		Flowers				
	Magnolia – Kobus	<i>Magnolia kobus</i>		Seeds	SP			
	Magnolia – Sprenger	<i>Magnolia sprengeri</i> (inc. ‘Diva’)		Seeds	SP			
	Magnolia – Veitch’s	<i>Magnolia</i> x <i>veitchii</i>		Seeds	SP			
	Magnolia – Yellow Bird	<i>Magnolia</i> x ‘Yellow Bird’		Seeds	SP			
	Maple – Trident maple	<i>Acer buergerianum</i>				Yes		Med
	Mountain ash – Korean	<i>Sorbus alnifolia</i>		Fruits	SP	Yes		Med
	Oak – Blue	<i>Quercus douglasii</i>		Acorns				High
	Oak – Buckley or Texas red	<i>Quercus buckleyi</i>		Acorns		Yes		Med
	Oak – Forest Green	<i>Quercus frainetta</i> ‘Schmidt’		Acorns				Med
	Oak – Sawtooth	<i>Quercus acutissima</i>		Acorns				
	Osage orange – Thornless male	<i>Maclura pomifera</i> ‘Whiteshield’				Yes		Med
	Pagoda – Japanese	<i>Styphnolobium japonicum</i> (inc. ‘Halka’)		Flowers	SU			Med

	Persian ironwood	<i>Parrotia persica</i>				Yes	Yes	Med
	Persimmon – American	<i>Diospyros virginiana</i>		Fruits		Yes		Med
	Pistache – Chinese	<i>Pistacia chinensis</i> (inc. 'Keith Davey')		Seeds		Yes		High
	Silverbell – Mountain	<i>Halesia tetraptera</i> var. <i>monticola</i>		Flowers	SP			Low
	Tupelo - American	<i>Nyssa sylvatica</i> (inc. 'David Odom', 'Haymanred', and 'Wildfire')		Fruits/ Flowers		Yes		Low
	Tupelo – Chinese	<i>Nyssa sinensis</i>		Fruits		Yes		Low
	Yellowwood – American	<i>Cladrastis kentukea</i> (inc. 'Perkins Pink')		Flowers	LSP	Yes		
	Zelkova – Village Green	<i>Zelkova serrata</i> 'Village Green'				Yes	Yes	

Table 8: large deciduous trees (mature size is over 50' tall)

SP = Spring SU = Summer OR = Oregon native
PDX – tree native to Portland or the Willamette Valley

	Common name	Botanical name	Native	Wildlife value	Showy flowers	Showy fall color	Bark interest	Drought tolerance
	Alder – Red	<i>Alnus rubra</i>	PDX					
	Alder – White	<i>Alnus rhombifolia</i>	PDX					
	Bald cypress	<i>Taxodium distichum</i> (inc. 'Apache Chief', 'Green Whisper', and 'Shawnee Brave')				Orange		
	Beech – European	<i>Fagus sylvatica</i> (inc. 'Asplenifolia')		Seeds				Low
	Beech – Purple European	<i>Fagus sylvatica</i> 'Riversii' and 'Swat Margaret'		Seeds				Low
	Buckeye – Ohio	<i>Aesculus glabra</i>				Ora-Red		Med
	Catalpa – Northern	<i>Catalpa speciosa</i>		Flowers	SU			
	Chilean beech – Roble	<i>Nothofagus obliqua</i>				Ora-Yel		
	Coffeetree , Kentucky	<i>Gymnocladus dioicus</i> (inc. 'Espresso')						Med
	Dawn redwood	<i>Metasequoia glyptostroboides</i> (inc. 'Ogon')				Orange		
	Dove tree	<i>Davidia involucrata</i>			SP			Low
	Elm – Triumph	<i>Ulmus</i> x 'Morton Glossy'						
	Hazel – Turkish	<i>Corylus colurna</i>		Nuts				Med
	Hickory –Shagbark	<i>Carya ovata</i>		Nuts		Yellow		
	Hornbeam – European	<i>Carpinus betulus</i>						
	Katsura	<i>Cercidiphyllum japonicum</i>				Ora-Yel		Low
	Larch – Japanese	<i>Larix kaempferi</i>		Seeds		Gold		
	Larch - Golden	<i>Pseudolarix amabilis</i>				Ora-Yel		Low
	Larch – Western	<i>Larix occidentalis</i>	OR	Seeds		Yellow		
	Linden – American (tall cultivars)	<i>Tilia americana</i> (inc. 'Boulevard' and 'Continental Appeal)		Flowers				
	Linden – Silver	<i>Tilia tomentosa</i>		Flowers				Med
	Magnolia – Hou po	<i>Magnolia officinalis</i>		Seeds	SP			
	Maple – Bigleaf	<i>Acer macrophyllum</i> *	PDX	Seeds				Med
	Oak – Basket	<i>Quercus michauxii</i>		Acorns				
	Oak – Black	<i>Quercus velutina</i>		Acorns				Med
	Oak – Bur	<i>Quercus macrocarpa</i>		Acorns				Med
	Oak – California black	<i>Quercus kelloggii</i>	PDX	Acorns				Med
	Oak – Canyon live	<i>Quercus chrysolepis</i>	PDX	Acorns				High
	Oak – Chinkapin	<i>Quercus muehlenbergii</i>		Acorns				Med
	Oak – Oregon white	<i>Quercus garryana</i>	PDX	Acorns				High
	Oak – Scarlet	<i>Quercus coccinea</i>		Acorns		Red		Med
	Oak – Shingle	<i>Quercus imbricaria</i>		Acorns				
	Oak – Shumard	<i>Quercus shumardii</i>		Acorns		Red		Med
	Oak – Swamp white	<i>Quercus bicolor</i> (inc. 'American Dream')		Acorns				Med
	Oak – Turkey	<i>Quercus cerris</i>		Acorns				Med
	Oak – Valley	<i>Quercus lobata</i>		Acorns				Med
	Oak – White	<i>Quercus alba</i>		Acorns		Ora-red		Med
	Oak – Willow	<i>Quercus phellos</i>		Acorns				
	Tulip tree – American	<i>Liriodendron tulipifera</i> (inc. 'Fastigiata')		Flowers				Low
	Tulip tree – Chinese	<i>Liriodendron chinensis</i>		Flowers				Low
	Zelkova – Green Vase	<i>Zelkova serrata</i> 'Green Vase'				Yes	Yes	