

Appendix 2

Street Tree List - Small Stature Trees (up to 25' in height at maturity)							
Common Name	Scientific Name	Height (feet)	Spread (feet)	Canopy Area	Suitable for Under		Special Features/Considerations
					Soil Type	Powerlines	
Vine Maple	<i>Acer circinatum</i>	25'	25'	491 sq. ft.	well drained	Yes*	native, requires some shade
Paperbark Maple	<i>Acer griseum</i>	25'	25'	491 sq. ft.	any	Yes*	attractive peeling bark
Japanese Maple	<i>Acer palmatum</i>	20'	25'	491 sq. ft.	any	Yes*	do not plant dwarf varieties
Serviceberry	<i>Amelanchier arborea</i>	20'	25'	491 sq. ft.	well drained	Yes*	hardy species
Allegheny Serviceberry	<i>Amelanchier laevis</i>	25'	15'	177 sq. ft.	well drained	Yes*	edible berries
Apple Serviceberry	<i>Amelanchier x grandiflora</i>	25'	15'	177 sq. ft.	well drained	Yes*	branches resist breakage
Western Serviceberry	<i>Amelanchier alnifolia</i>	20'	20'	314 sq. ft.	well drained	Yes*	native to Portland metropolitan region
Strawberry Tree	<i>Arbutus unedo</i>	25'	20'	314 sq. ft.	any	No	durable tree once established
Paw Paw	<i>Asimina triloba</i>	25'	20'	315 sq. ft.	any	No	edible fruit
American Hornbeam	<i>Carpinus caroliniana</i>	25'	20'	314 sq. ft.	any	No	requires moderate amount of water
Japanese Hornbeam	<i>Carpinus japonica</i>	20'	25'	491 sq. ft.	any	No	no serious pest or disease issues
Chinese Catalpa	<i>Catalpa ovata</i>	25'	25'	491 sq. ft.	well drained	No	large leaves
Judas Tree	<i>Cercis siliquastrum</i>	25'	30'	707 sq. ft.	any	Yes*	native to southern Europe and western Asia
Chinese Fringetree	<i>Chionanthus retusus</i>	20'	25'	491 sq. ft.	any	No	native to China, Korea, and Japan.
Gloryblower Tree	<i>Clerodendrum trichotomum</i>	20'	20'	314 sq. ft.	well drained	Yes*	may freeze back in cold winters
Pagoda Dogwood	<i>Cornus alternifolia</i>	25'	20'	315 sq. ft.	any	No	needs ample water
Kousa Dogwood	<i>Cornus kousa</i>	20'	20'	491 sq. ft.	any	Yes*	prefers some shade
Corneliancherry Dogwood	<i>Cornus mas</i>	20'	15'	177 sq. ft.	any	Yes*	requires ample water, but otherwise hardy
Common Smoketree	<i>Cotinus coggygria</i>	15'	15'	177 sq. ft.	well drained	Yes*	native range is southern Europe to central China
American Smoketree	<i>Cotinus obovatus</i>	25'	25'	491 sq. ft.	well drained	Yes*	native to eastern US
Lavalle Hawthorne	<i>Crataegus x lavalleyi</i>	25'	20'	314 sq. ft.	any	Yes*	has thorns
Goldenrain Tree	<i>Koeleruteria paniculata</i>	20'	15'	177 sq. ft.	any	Yes*	widely used in California
Crape Myrtle	<i>Lagerstroemia indica</i>	20'	20'	314 sq. ft.	well drained	Yes*	choose variety adapted to Portland region
Maackia	<i>Maackii amurensis</i>	25'+	25'	491 sq. ft.	well drained	No	rounded form

*These trees have been approved by Portland General Electric (PGE) for planting beneath overhead powerlines

Appendix 2

<p style="text-align: center;">Street Tree List - Small Stature Trees (up to 25' in height at maturity)</p>							
Common Name	Scientific Name	Height (feet)	Spread (feet)	Canopy Area	Soil Type	Suitable for Under Powerlines	Special Features/Considerations
Sweetbay Magnolia	<i>Magnolia virginiana</i>	25'+	20'	314 sq. ft.	well drained	No	fragrant
Loebner Magnolia	<i>Magnolia × loebneri</i>	25'	25'	491 sq. ft.	any	No	slow growing
Saucer Magnolia	<i>Magnolia × soulangiana</i>	25'	25'	491 sq. ft.	any	Yes*	attractive pink flowers
Flowering Crabapple	<i>Malus spp.</i>	20'	20'	314 sq. ft.	any	Yes*	many varieties
Persian Parrotia	<i>Parrotia persica</i>	25'+	20'	314 sq. ft.	well drained	No	native range is Iran, Turkey, and Georgia
Paperbark Cherry	<i>Prunus serrula</i>	25'	25'	491 sq. ft.	any	No	attractive bark
Yoshino Cherry	<i>Prunus × yedoensis</i>	25'+	30'	707 sq. ft.	any	No	attractive flowers
Tall Stewartia	<i>Stewartia monadelphica</i>	25'+	20'	314 sq. ft.	well drained	No	requires ample moisture when young
Japanese Stewartia	<i>Stewartia pseudocamellia</i>	25'+	25'	491 sq. ft.	well drained	No	requires ample moisture when young
Japanese Snowbell	<i>Styrax japonicus</i>	25'	25'	491 sq. ft.	well drained	Yes*	mostly trouble free
Fragrant Styrax	<i>Styrax obassia</i>	25'	20'	314 sq. ft.	well drained	No	fragrant flowers
Japanese Tree Lilac	<i>Syringa reticulata</i>	25'+	15'	177 sq. ft.	well drained	No	native to northern Japan

Appendix 2

Street Tree List - Medium Stature Trees (between 25' and 40' in height at maturity)

Common Name	Scientific Name	Height (feet)	Spread (feet)	Canopy Area	Suitable for Under		Special Features/Consideration
					Soil Type	Powerlines	
Hedge Maple	<i>Acer campestre</i>	35'	30'	707 sq. ft.	any	No	tolerant of urban stresses
European Hornbeam	<i>Carpinus betulus</i>	35'	25'	491 sq. ft.	any	No	dense crown
American Hornbeam	<i>Carpinus caroliniana</i>	30'	20'	314 sq. ft.	any	No	moderate moisture, tolerates some flooding
Southern Catalpa	<i>Catalpa binonioides</i>	35'	35'	962 sq. ft.	any	No	large leaves
Yellowwood	<i>Cladrastis kentuckia</i>	35'	35'	962 sq. ft.	all	No	fragrant, white, pendulous flowers
Giant Dogwood	<i>Cornus controversa</i>	30'	35'	962 sq. ft.	well drained	No	wide spreading, flowers in May/June
Pacific Dogwood	<i>Cornus nuttallii</i>	40'	30'	707 sq. ft.	loam	No	native, requires moist soil and some shade
Hardy Rubber Tree	<i>Eucommia ulmoides</i>	40'	40'	1256 sq. ft.	loam	No	rubber is extracted from tree's wood
Cascara	<i>Frangula pershiana</i>	30'	25'	491 sq. ft.	any	No	native to Portland metropolitan region
Mountain Silverbell	<i>Halesia monticola</i>	40'	25'	491 sq. ft.	well drained	No	requires moist soils
Carolina Silverbell	<i>Halesia tetrapteru</i>	35'	30'	707 sq. ft.	well drained	No	requires moist soils
Japanese Raisintree	<i>Hovenia dulcis</i>	35'	25'	491 sq. ft.	any	No	drought and frost tolerant
Goldenrain Tree	<i>Koelreuteria paniculata</i>	35'	35'	962 sq. ft.	any	No	tolerant of urban stresses
Yulan Magnolia	<i>Magnolia denudata</i>	35'	30'	707 sq. ft.	any	No	white, fragrant flowers
Sourwood	<i>Oxydendrum arboreum</i>	30'	20'	314 sq. ft.	well drained	No	white, midsummer flowers
American Hophornbeam	<i>Ostrya virginiana</i>	35'	25'	491 sq. ft.	any	No	exfoliating bark texture is attractive
Amur Corktree	<i>Phellodendron amurense</i>	40'	30'	707 sq. ft.	any	No	fragrant leaves and fruit
Limber Pine	<i>Pinus flexilis</i>	35'	15'	177 sq. ft.	any	No	drought resistant
Chinese Pistache	<i>Pistacia chinensis</i>	30'	25'	491 sq. ft.	well drained	No	invasive in California
Fragrant Epaulette Tree	<i>Pterostyrax hispida</i>	40'	30'	707 sq. ft.	well drained	No	native to Japan
Bambooleaf Oak	<i>Quercus myrsinifolia</i>	35'	25'	491 sq. ft.	any	No	new leaves are purple
Korean Mountain Ash	<i>Sorbus alnifolia</i>	35'	30'	707 sq. ft.	any	No	messy fruit attracts birds
Lacebark Elm	<i>Ulmus parvifolia</i>	40'	40'	1256 sq. ft.	any	No	resistent to Dutch elm disease

Appendix 2

Street Tree List - Large Stature Trees (over 40' in height at maturity)							
Common Name	Scientific Name	Height (feet)	Spread (feet)	Canopy Area	Soil Type	Suitable for Under Powerlines	Special Features/Consideration
Spanish Fir	<i>Abies pinsapo</i>	50'	30'	707 sq. ft.	well drained	No	drought tolerant
Freeman Maple	<i>Acer x freemanii</i>	60'	40'	1256 sq. ft.	any	No	multiple varieties available
Yellow Buckeye	<i>Aesculus flava</i>	60'	40'	1256 sq. ft.	any	No	branches droop
Red Horsechestnut	<i>Aesculus x carnea</i>	60'	40'	1256 sq. ft.	any	No	best in well drained soil
River Birch	<i>Betula nigra</i>	45'	35'	962 sq. ft.	well drained	No	resistant to bronze birch borer
Incense Cedar	<i>Calocedrus decurrens</i>	60'	20'	314 sq. ft.	any	No	susceptible to Seridium canker
Spanish Chestnut	<i>Castanea sativa</i>	70'	50'	1963 sq. ft.	any	No	edible nuts
Northern Catalpa	<i>Catalpa speciosa</i>	50'	30'	707 sq. ft.	any	No	large leaves
Hackberry	<i>Celtis occidentalis</i>	45'	35'	962 sq. ft.	any	No	tolerant of urban stresses, deep rooted
Turkish Hazel	<i>Corylus colurna</i>	50'	30'	707 sq. ft.	well drained	No	very cold hardy
Japanese Cedar	<i>Cryptomeria japonica</i>	50'	25'	491 sq. ft.	any	No	smog tolerant
Baker Cypress	<i>Cupressus bakerii</i>	50'	35'	962 sq. ft.	any	No	native from N. California to S. Oregon
Dove Tree	<i>Davidia involucrata</i>	50'	30'	707 sq. ft.	well drained	No	dove-like flowers
Hardy Rubber Tree	<i>Eucommia ulmoides</i>	40'	40'	1256 sq. ft.	well drained	No	rubber extracted from tree's wood
European Beech	<i>Fagus sylvatica</i>	50'	40'	1256 sq. ft.	well drained	No	beautiful bark
Oregon Ash	<i>Fraxinus latifolia</i>	60'	30'	707 sq. ft.	any	No	native to Portland metropolitan region
Ginkgo	<i>Ginkgo biloba - male plants only</i>	60'	45'	1590 sq. ft.	any	No	many large stature varieties available
Honeylocust	<i>Gleditsia triacanthos</i>	45'	35'	962 sq. ft.	any	No	tolerant of urban stresses
Kentucky Coffeetree	<i>Gymnocladus dioica</i>	65'	50'	1963 sq. ft.	any	No	fragrant flowers
English Walnut	<i>Juglans regia</i>	50'	50'	1963 sq. ft.	any	No	edible nuts
Tulip Tree	<i>Liriodendron tulipifera</i>	60'	30'	707 sq. ft.	any	No	beautiful fall color
Cucumber Magnolia	<i>Magnolia acuminata</i>	50'	40'	1256 sq. ft.	well drained	No	fruit resembles cucumber
Southern Magnolia	<i>Magnolia grandiflora</i>	70'	60'	1963 sq. ft.	any	No	broadleaf evergreen, large white flowers
Dawn Redwood	<i>Metasequoia glyptostroboides</i>	50'	25'	491 sq. ft.	any	No	deciduous conifer
Tanoak	<i>Notolithocarpus densiflorus</i>	40'	30'	707 sq. ft.	any	No	native to southwestern coast of US
Tupelo	<i>Nyssa sylvatica</i>	45'	25'	491 sq. ft.	any	No	beautiful fall color
Amur Corktree	<i>Phellodendron amurense - male plants only</i>	40'	35'	962 sq. ft.	any	No	drops leaves early in fall
Bosnian Pine	<i>Pinus heldreichii</i>	55'	25'	491 sq. ft.	any	No	pest resistant
Japanese Black Pine	<i>Pinus thunbergii</i>	50'	25'	492 sq. ft.	any	No	widely adapted tree
London Planetree	<i>Platanus x acerifolia</i>	50'	40'	1256 sq. ft.	any	No	disease resistant, pollution tolerant
Douglas Fir	<i>Pseudotsuga menziesii</i>	80'	30'	707 sq. ft.	any	No	native to Portland metropolitan region
Sawtooth Oak	<i>Quercus acutissima</i>	50'	40'	1256 sq. ft.	any	No	native to Asia
Swamp White Oak	<i>Quercus bicolor</i>	60'	45'	1590 sq. ft.	any	No	leaf underside is silvery
Canby Oak	<i>Quercus canbyi</i>	45'	40'	1256 sq. ft.	any	No	extremely drought tolerant
Canyon Live Oak	<i>Quercus chrysolepis</i>	55'	30'	707 sq. ft.	any	No	native from California to southern Oregon

Appendix 2

<p style="text-align: center;">Street Tree List - Large Stature Trees (over 40' in height at maturity)</p>							
Common Name	Scientific Name	Height (feet)	Spread (feet)	Canopy Area	Soil Type	Suitable for Under Powerlines	Special Features/Consideration
Scarlet Oak	<i>Quercus coccinea</i>	60'	40'	1256 sq. ft.	any	No	best in fertile soil
Oregon White Oak	<i>Quercus garryana</i>	65'	50'	1963 sq. ft.	any	No	native to Portland metropolitan region
Silverleaf Oak	<i>Quercus hypoleucoides</i>	50'	35'	962 sq. ft.	well drained	No	wide range of adaptation
Holly Oak	<i>Quercus ilex</i>	60'	40'	1256 sq. ft.	any	No	silvery underside of leaf
Shingle Oak	<i>Quercus imbricaria</i>	60'	50'	1963 sq. ft.	well drained	No	branches droop
California Black Oak	<i>Quercus kelloggii</i>	60'	45'	1590 sq. ft.	any	No	native from California to southern Oregon
Valley Oak	<i>Quercus lobata</i>	50'	40'	1256 sq. ft.	any	No	California native
Bur Oak	<i>Quercus macrocarpa</i>	70'	45'	1590 sq. ft.	any	No	large acorns
Chestnut Oak	<i>Quercus muhlenbergii</i>	60'	50'	1963 sq. ft.	well drained	No	found along ridge tops in eastern US
Willow Oak	<i>Quercus pbellos</i>	60'	45'	1590 sq. ft.	any	No	tolerant of urban stresses
Monterrey Oak	<i>Quercus polymorpha</i>	55'	40'	1256 sq. ft.	well drained	No	semi-evergreen
English Oak	<i>Quercus robur</i>	60'	40'	1256 sq. ft.	well drained	No	non-native substitute for Garry oak
Red Oak	<i>Quercus rubra</i>	60'	45'	1590 sq. ft.	any	No	beautiful fall color
Shumard Oak	<i>Quercus shumardii</i>	75'	55'	2376 sq. ft.	any	No	tolerates acidic and poorly drained soil
Cork Oak	<i>Quercus suber</i>	50'	50'	1963 sq. ft.	any	No	interesting corky bark
Black Oak	<i>Quercus velutina</i>	60'	50'	1963 sq. ft.	well drained	No	tolerates poor/dry soils
Southern Live Oak	<i>Quercus virginiana</i>	70'	70'	3848 sq. ft.	any	No	underside of leaf is white
Interior Live Oak	<i>Quercus wislizeni</i>	50'	40'	1256 sq. ft.	any	No	broadleaf evergreen, California native
Coast Redwood	<i>Sequoia sempervirens</i>	100'	30'	707 sq. ft.	any	No	needs ample water
Japanese Pagodatree	<i>Styphnolobium japonicum</i>	65'	40'	1256 sq. ft.	any	No	native to east Asia
Bald Cypress	<i>Taxodium distichum</i>	55'	35'	962 sq. ft.	any	No	deciduous conifer, widely adaptive
American Linden	<i>Tilia americana</i>	60'	30'	707 sq. ft.	any	No	tolerant of urban stresses
Littleleaf Linden	<i>Tilia cordata</i>	60'	40'	1256 sq. ft.	any	No	many varieties available
Silver Linden	<i>Tilia tomentosa</i>	45'	30'	707 sq. ft.	any	No	dark green leaves with silver undersides
American Elm	<i>Ulmus americana</i> - <u>only</u> 'Jefferson' 'Princeton' and 'Valley Forge' cultivars	65'	55'	1963 sq. ft.		No	classic American elm form with faster growth rate, glossy green leaves. These cultivars selected for good Dutch elm disease resistance.
Frontier Elm	<i>Ulmus</i> 'Frontier'	40'	30'	1256 sq. ft.			resistant to Dutch Elm disease
Accolade Elm	<i>Ulmus</i> 'Morton'	60'	50'	1256 sq. ft.			resistant to Dutch Elm disease
Triumph Elm	<i>Ulmus</i> 'Morton Glossy'	55'	45'	1256 sq. ft.			resistant to Dutch Elm disease
Patriot Elm	<i>Ulmus</i> 'Patriot'	50'	40'	1256 sq. ft.			resistant to Dutch Elm disease
Zelkova	<i>Zelkova serrata</i>	65'	50'	1963 sq. ft.	any	No	attractive shade tree

Appendix 3

Parking Lot Trees (recommended for parking lots*)

Common Name	Scientific Name	Height (feet)	Spread (feet)	Canopy Area	Soil Type	Suitable for Under Powerlines	Special Features/ Consideration
White Alder	<i>Alnus rhombifolia</i>	100'	50'	1963 sq. ft.	any	No	tolerant of heat and wind
Atlas Cedar	<i>Cedrus atlantica</i>	60'	50'	1963 sq. ft.	any	No	prune for good form with central leader
Deodar Cedar	<i>Cedrus deodara</i>	70'	50'	1963 sq. ft.	any	No	prune for good form with central leader
European Hackberry	<i>Celtis australis</i>	70'	45'	1590 sq. ft.	any	No	moderate to fast growing
Kobus Magnolia	<i>Magnolia kobus</i>	40'	35'	962 sq. ft.	well drained	No	native to Japan
Star Magnolia	<i>Magnolia stellata</i>	20'	15'	177 sq. ft.	any	No	blooms at young age
Roble Beech	<i>Nothofagus obliqua</i>	70'	40'	1256 sq. ft.	well drained	No	native to Argentina and Chile
Western White Pine	<i>Pinus monticola</i>	75'	25'	491 sq. ft.	well drained	No	native to western US and Canada
Austrian Pine	<i>Pinus nigra</i>	55'	40'	1256 sq. ft.	any	No	evergreen conifer
Eastern White Oak	<i>Quercus alba</i>	80'	80'	5026 sq. ft.	well drained	No	branches resist breakage

*Any tree appearing on the approved street tree list or the native tree list is also recommended for parking lot use.

The trees above are additional recommendations that do not appear on these lists.

Columnar Trees

The columnar tree list is no longer provided. Columnar tree coverage must be calculated individually based on cultivar.

Appendix 5

Native Trees

Common Name	Scientific Name	Height (feet)	Spread (feet)	Canopy Area	Stature	Suitable for Under Powerlines	Primary Habitat Types
Grand Fir	<i>Abies grandis</i>	150'	40'	1256 sq. ft.	Large	No	Wetland, Riparian, Upland
Big-leaf Maple	<i>Acer macrophyllum</i>	65'	50'	1963 sq. ft.	Large	No	Upland
Red Alder	<i>Alnus rubra</i>	100'	40'	1256 sq. ft.	Large	No	Riparian, Upland
Madrone	<i>Arbutus menziesii</i>	40'	30'	707 sq. ft.	Medium	No	Upland
Pacific Dogwood	<i>Cornus nuttallii</i>	40'	30'	707 sq. ft.	Medium	No	Upland
Black Hawthorn	<i>Crataegus douglasii</i>	25'	20'	314 sq. ft.	Small	Yes	Wetland, Riparian, Upland
Oregon Ash	<i>Fraxinus latifolia</i>	60'	30'	707 sq. ft.	Large	No	Wetland, Riparian
Ponderosa Pine	<i>Pinus ponderosa</i>	200'	30'	707 sq. ft.	Large	No	Upland
Black Cottonwood	<i>Populus balsamifera ssp. trichocarpa</i>	175'	40'	1256 sq. ft.	Large	No	Wetland, Riparian
Quaking Aspen	<i>Populus tremuloides</i>	30'	15'	177 sq. ft.	Medium	No	Wetland, Riparian
Bitter Cherry	<i>Prunus emarginata</i>	30'	20'	314 sq. ft.	Medium	No	Riparian, Upland
Douglas Fir	<i>Pseudotsuga menziesii</i>	180'	40'	1256 sq. ft.	Large	No	Upland
Oregon White Oak	<i>Quercus garryana</i>	65'	50'	1963 sq. ft.	Large	No	Upland
Cascara	<i>Rhamnus purshiana</i>	35'	25'	491 sq. ft.	Medium	No	Riparian, Upland
Pacific Willow	<i>Salix lucida ssp. lasiandra</i>	40'	30'	707 sq. ft.	Medium	No	Wetland, Riparian
Rigid Willow	<i>Salix rigida var. macrogemma</i>	30'	20'	314 sq. ft.	Small	No	Wetland, Riparian
Scouler Willow	<i>Salix scouleriana</i>	40'	40'	1256 sq. ft.	Medium	No	Wetland, Riparian, Upland
Pacific Yew	<i>Taxus brevifolia</i>	40'	30'	707 sq. ft.	Medium	No	Riparian, Upland
Western Red Cedar	<i>Thuja plicata</i>	100'	30'	707 sq. ft.	Large	No	Wetland, Riparian, Upland
Western Hemlock	<i>Tsuga heterophylla</i>	150'	40'	1256 sq. ft.	Large	No	Riparian, Upland

Appendix 6

Nuisance Tree List

Common Name	Scientific Name
Norway Maple	<i>Acer platanoides</i>
Horse Chestnut	<i>Aesculus hippocastanum</i>
Sycamore Maple	<i>Acer pseudoplatanus</i>
Tree-of-heaven	<i>Ailanthus altissima</i>
European White Birch	<i>Betula pendula</i>
English Hawthorn	<i>Crataegus monogyna</i>
English Holly	<i>Ilex aquifolium</i>
Golden Chain Tree	<i>Lburnum watereri</i>
Princess Tree	<i>Paulownia tomentosa</i>
White poplar	<i>Populus alba</i>
Sweet Cherry	<i>Prunus avium</i>
English Laurel	<i>Prunus laurocerasus</i>
Callery Pear	<i>Pyrus calleryana</i>
Black Locust	<i>Robinia pseudoacacia</i>
European Mountain Ash	<i>Sorbus aucuparia</i>
Siberian Elm	<i>Ulmus pumila</i>