

### Large Columnar Trees

Scientific & Common Name	Mature Height	Spread	Under Wires?	Min Strip Width	Comments
<i>Acer nigrum</i> 'Green Column' Green Column Black Sugar Maple	50	10	No	6	Good close to buildings
<i>Fraxinus americana</i> 'Empire' Empire Ash	50	25	No	6	Use for areas adjacent to taller buildings when ash tree is desired species
<i>Ginkgo biloba</i> 'Princeton Sentry' Princeton Sentry Ginkgo	40	15	No	6	Very narrow growth
<i>Nyssa sylvatica</i> Tupelo	60	20	No	6	Handsome chunky bark
<i>Quercus</i> 'Crimschmidt' Crimson Spire Oak	45	15	No	6	Hard to find in the nursery trade
<i>Quercus frainetto</i> Italian Oak	50	30	No	6	Drought resistant – beautiful green, glossy leaves in summer.
<i>Quercus robur</i> 'fastigiata' Skyrocket Oak	40	15	No	6	Columnar variety of oak
<i>Taxodium distichum</i> 'Mickelson' Shawnee Brave Bald Cypress	55	20	No	6	Deciduous conifer - tolerates city conditions

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<i>Acer saccharum</i> 'Bonfire' Bonfire Sugar Maple	50	40	No	6	Fastest growing sugar maple
<i>Acer saccharum</i> 'Commemoration' Commemoration Sugar Maple	50	35	No	6	Resistant to leaf tatter
<i>Acer saccharum</i> 'Green Mountain' Green Mountain Sugar Map	45	35	No	6	Reliable fall color
<i>Acer saccharum</i> 'Legacy' Legacy Sugar Maple	50	35	No	5	Limited use - where sugar maple is desired in limited planting strip area
<i>Aesculus flava</i> Yellow Buckeye	60	40	No	6	Least susceptible to leaf blotch – large fruit – fall color is varied, but quite beautiful
<i>Cercidiphyllum japonicum</i> Katsura Tree	40	40	No	6	Needs lots of water when young – can produce large surface roots.
<i>Fagus sylvatica</i> Green Beech	50	40	No	6	Silvery-grey bark

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<i>Fagus sylvatica</i> 'Asplenifolia' Fernleaf Beech	60	50	No	6	Beautiful cut leaf
<i>Fraxinus latifolia</i> Oregon Ash	60	35	No	6	Only native ash in PNW

### Large Trees, Continued

Scientific & Common Name	Mature Height	Spread	Under Wires?	Min Strip Width	Comments
<i>Fraxinus pennsylvanica</i> 'Patmore' Patmore Ash	45	35	No	6	Extremely hardy, may be seedless
<i>Fraxinus pennsylvanica</i> 'Urbanite' Urbanite Ash	50	40	No	6	Tolerant of city conditions
<i>Ginkgo biloba</i> 'Magyar' Magyar Ginkgo	50	25	No	6	More upright and narrow than 'Autumn Gold'
<i>Gymnocladus dioica</i> 'Espresso' Espresso Kentucky Coffee	50	35	No	6	Very coarse branches - extremely large bi-pinnately compound leaves
<i>Liquidambar styraciflua</i> 'Rotundiloba' Rotundiloba Sweetgum	45	25	No	8	Only sweetgum that is entirely fruitless. Smooth rounded leaf lobes
<i>Linodendron tulipifera</i> Tulip Tree	60	30	No	8	Fast-growing tree – can get very large in open conditions
<i>Metasequoia glyptostroboides</i> Dawn Redwood	50	25	No	6	Fast growing deciduous conifer
<i>Platanus x acerifolia</i> 'Bloodgood' Bloodgood London Planetree	50	40	No	8	More anthracnose resistant than other varieties – large tree that needs space
<i>Platanus x acerifolia</i> 'Yarwood' Yarwood London Planetree	50	40	No	8	High resistance to powdery mildew
<i>Quercus bicolor</i> Swamp White Oak	60	45	No	8	Interesting shaggy peeling bark
<i>Quercus coccinea</i> Scarlet Oak	60	40	No	6	Best oak for fall color
<i>Quercus garryana</i> Oregon Oak	50	40	No	8	Native to Pacific Northwest
<i>Quercus imbricaria</i> Shingle Oak	60	50	No	6	Nice summer foliage - leaves can persist throughout the winter
<i>Quercus muhlenbergii</i> Chestnut Oak	60	50	No	6	Coarsely toothed leaf
<i>Quercus robur</i> English Oak	60	40	No	8	Large, sturdy tree. Acorns do not need dormant cold period to germinate, so can be invasive.

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<i>Quercus rubra</i> Red Oak	60	45	No	8	Fast growing oak – large tree that needs space
<i>Quercus velutina</i> Black Oak	60	50	No	8	More drought tolerant than red oak
<i>Taxodium distichum</i> Bald Cypress	55	35	No	8	A deciduous conifer, broadly spreading when mature – columnar when young

### Large Trees, Continued

Scientific & Common Name	Mature Height	Spread	Under Wires?	Min Strip Width	Comments
<i>Ulmus</i> 'Homestead' Homestead Elm	60	35	No	6	Complex hybrid - close in form to American elm - Resistant to Dutch elm disease
<i>Ulmus</i> 'Frontier' Frontier Elm	50	35	No	6	Resistant to Dutch elm disease
<i>Zelkova serrata</i> 'Greenvase' Green Vase Zelkova	45	40	No	6	Attractive exfoliating bark provides Winter appeal. Dark green leaves turn orange-red and purple in Fall!
<i>Zelkova serrata</i> 'Village Green' Village Green Zelkova	40	40	No	6	Green Vase, Mussichino and Halka are improved forms

### Medium / Large Trees

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<i>Acer campestre</i> Hedge Maple	50	30	No	5	Contrary to its name, this is not a small tree – nice overall shape and structure
<i>Acer campestre</i> 'Evelyn' Queen Elizabeth Hedge Maple	40	30	No	5	More upright branching than the species.
<i>Acer freemanii</i> 'Autumn Blaze' Autumn Blaze Maple	50	40	No	6	Cross between red and silver maple – fast growing with good fall color
<i>Acer miyabei</i> 'Morton' State Street Maple	40	30	No	6	Similar to, but faster growing and larger than Hedge maple
<i>Acer platanoides</i> 'Emerald Queen' Emerald Queen Norway Maple	50	40	No	6	One of the fastest growing cultivars of Norway maple – Do NOT plant within 1000' of greenbelts – can be invasive

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<i>Acer platanoides</i> 'Parkway' Parkway Norway Maple	40	30	No	6	Somewhat tolerant of verticillium wilt - <b>Do NOT plant within 1000' of greenbelts – can be invasive</b>
<i>Acer pseudoplatanus</i> 'Atropurpureum' Spaethii Maple	40	30	No	5	Leaves green on top purple underneath.
<i>Acer rubrum</i> 'Scarsen' Scarlet Sentinel Maple	40	25	No	6	Leaves are darker green and larger than those of other Red Maples, and they hold up well in summer heat.
<i>Aesculus x carnea</i> 'Briotii' Red Horsechestnut	30	35	No	6	Resists heat and drought better than other horsechestnuts
<i>Betula jacquemontii</i> Jacquemontii Birch	40	30	No	5	White bark makes for good winter interest – best for aphid resistance, but does have issues with Bronze Birch Borer
<i>Corylus colurna</i> Turkish Filbert	40	25	No	5	Tight, formal, dense crown - not for areas with high pedestrian traffic as tree can have significant debris from nut production. <b>Great Plant Pick</b>
<i>Fraxinus americana</i> 'Autumn Applause' Autumn Applause Ash	45	25	No	6	Purple fall foliage - Compact tree - reportedly seedless
<i>Fraxinus pennsylvanica</i> 'Cimmaron' Cimmaron Ash	50	30	No	6	More upright than 'Patmore' with more bronze/cinnamon fall color
<i>Ginkgo biloba</i> 'Autumn Gold' Autumn Gold Ginkgo	45	35	No	6	Narrow when young

### Medium / Large Trees, Continued

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<i>Liquidambar styraciflua</i> 'Moraine' Moraine Sweetgum	40	25	No	8	Light green foliage. More compact than other varieties of sweet gum. Brittle branches
<i>Nothofagus antarctica</i> Antarctic Beech	50	35	No	5	Rugged twisted branching and petite foliage – difficult to find in the nursery trade
<i>Tilia americana</i> 'Redmond' Redmond Linden	50	30	No	8	Pyramidal, needs extra water when young
<i>Tilia cordata</i> 'Greenspire' Greenspire Linden	40	30	No	6	Symmetrical, pyramidal form – sometimes has structural issues due to tight branch attachments
<i>Ulmus parvifolia</i> 'Emer II' Allee Elm	45	35	No	5	Exfoliating bark and nice fall color – Resistant to Dutch Elm Disease

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<i>Acer platanoides</i> 'Columnar' Columnar Norway Maple	45	15	No	5	Good close to buildings – <b>Do NOT plant within 1000' of greenbelts – can be invasive</b>
<i>Acer rubrum</i> 'Bowhall' Bowhall Maple	40	20	No	6	An upright, pyramidal form that is significantly wider than 'Armstrong' or 'Columnare'
<i>Carpinus betulus</i> 'Fastigiata' Pyramidal European Hornbeam	40	15	No	5	Broadens when older
<i>Fagus sylvatica</i> 'Dawyck Purple' Dawyck Purple Beech	40	12	No	6	Purple foliage.
<i>Liriodendron tulipifera</i> 'Fastigiatum' Columnar Tulip Tree	40	10	No	6	Good next to buildings – can have problems with tight branch angles
<i>Malus</i> 'Tschonoskii' Tschonoskii Crabapple	30	15	Yes	5	Sparse green fruit, pyramidal
<i>Oxydendron arboreum</i> Sourwood	35	12	No	5	Consistent and brilliant fall color
<i>Prunus sargentii</i> 'Columnaris' Columnar Sargent Cherry	35	15	No	8	Upright form. The cherry with the best fall color. Can suffer from brown rot in spring.
<i>Prunus x hillieri</i> 'Spire' Spire Cherry	30	10	Yes	6	One of the few 'wire friendly' columnar cherries. Can suffer from brown rot in spring.
<i>Pyrus calleryana</i> 'Cambridge' Cambridge Pear	40	15	No	5	Narrow tree with better branch angles and form than the species – brittle limbs may still be a problem with breakage due to ice or wet snow

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<i>Acer grandidentatum</i> 'Schmidt' Rocky Mt. Glow Maple	25	20	Yes	5	Intense red fall color - Limited availability in nursery trade
<i>Acer rubrum</i> 'Karpick' Karpick Maple	40	20	No	6	Finer texture than other narrow forms of columnar maple
<i>Acer truncatum</i> x <i>A. platanoides</i> 'Keithsform' Norwegian Sunset Maple	35	25	No	5	Reliable fall color - nice reddish orange
<i>Acer truncatum</i> x <i>A. platanoides</i> 'Warrensred' Pacific Sunset Maple	30	25	Yes	5	Limited use under higher wires

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<i>Betula albosinensis</i> var <i>septentrionalis</i> Chinese Red Birch	40	35	No	5	White and pink peeling bark
<i>Carpinus caroliniana</i> American Hornbeam	25	20	Yes	5	Outstanding fall color (variable – yellow, orange, red) – nice little tree
<i>Cladrastis kentukea</i> Yellowwood	40	40	No	5	White flowers in spring, resembling wisteria flower – blooms profusely only every 2 to 4 years – yellow/gold fall color
<i>Cornus controversa</i> 'June Snow' Giant Dogwood	40	30	No	5	Frothy, 6-inch clusters of white flowers in June
<i>Cornus</i> 'Eddie's White Wonder' Eddie's White Wonder Dogwood	30	20	Yes	5	A hybrid of <i>C. florida</i> and <i>C. nuttallii</i>
<i>Crataegus crus-galli</i> 'Inermis' Thornless Cockspur Hawthorne	25	30	Yes	5	Red persistent fruit
<i>Crataegus phaenopyrum</i> Washington Hawthorne	25	20	Yes	5	Thorny – do not plant in high use areas
<i>Crataegus x lavalii</i> Lavalle Hawthorne	25	20	Yes	5	Thorns on younger trees
<i>Davidia involucrata</i> Dove Tree	40	30	No	5	Large, unique flowers in May
<i>Eucommia ulmoides</i> Hardy Rubber Tree	50	40	No	6	Dark green, very shiny leaves – insignificant fall color
<i>Fagus sylvatica</i> 'Rohanii' Purple Oak Leaf Beech	50	30	No	6	Attractive purple leaves with wavy margins
<i>Halesia monticola</i> Mountain Silverbell	45	25	No	5	Attractive small white flower
<i>Halesia tetraptera</i> Carolina Silverbell	35	30	No	5	Attractive bark for seasonal interest
<i>Koelreuteria paniculata</i> Goldenrain Tree	30	30	Yes	5	Midsummer blooming – slow growing
<i>Magnolia denudata</i> Yulan Magnolia	40	40	No	5	6" inch fragrant white flowers in spring
<i>Magnolia grandiflora</i> 'Victoria' Victoria Evergreen Magnolia	25	20	Yes	5	Evergreen magnolia – can be damaged in years with wet, heavy snow
<i>Magnolia kobus</i> 'Wada's Memory' Wada's Memory Magnolia	30	20	Yes	5	Does not flower well when young

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<i>Ostrya virginiana</i> Ironwood	40	25	No	5	Hop like fruit – slow growing
<i>Phellodendron amurense</i> 'Macho' Macho Cork Tree	40	40	No	5	This variety is fruitless – fall color can be varied. High drought tolerance
<i>Prunus cerasifera</i> 'Krauter Vesuvius' Vesuvius Flowering Plum	30	20	Yes	5	Burgundy colored leaves – tree best used as an accent rather than in mass plantings
<i>Pterostyrax hispida</i> Fragrant Epaulette Tree	40	30	No	5	Pendulous creamy white flowers – fragrant – difficult to find in the nursery trade
<i>Pyrus calleryana</i> 'Aristocrat' Aristocrat Pear	40	30	No	5	One of the tallest flowering pears – good branch angles, but wood is brittle. <b>Reported as invasive in other areas.</b>
<i>Pyrus calleryana</i> 'Glen's Form' Chanticleer or Cleveland Select Pear	40	20	No	5	Selected variety of callery pear – good spring flowering. <b>Reported as invasive in other areas</b>
<i>Pyrus calleryana</i> 'Redspire' Redspire Pear	35	25	No	5	Selected variety of callery pear – good spring flowering. <b>Reported as invasive in other areas</b>
<i>Quercus ilex</i> Holly Oak	40	30	No	5	Evergreen oak - Underside of leaf is silvery-white. Often has a prominent umbrella form
<i>Rhamnus purshiana</i> Cascara	30	20	Yes	5	Native tree – fall color depends on exposure – purplish fruit feeds many native birds
<i>Robinia x ambigua</i> Pink Idaho Locust	35	25	No	5	Fragrant flowers. Sterile variety. Drought tolerant. Some varieties will sucker profusely.
<i>Sophora japonica</i> 'Regent' Japanese Pagodatree	45	40	No	6	Has a rapid growth rate and tolerates city conditions, heat, and drought.
<i>Sorbus aucuparia</i> 'Mitchred' Cardinal Royal Mt. Ash	35	20	No	5	A vigorous tree with upright branches and a very symmetrical habit. Leaves are silvery underneath.
<i>Sorbus x hybridia</i> Oakleaf Royal Mt. Ash	30	20	Yes	5	It has leaves which are similar to English oak, and interesting bark for seasonal features.
<i>Styrax japonica</i> Japanese Snowbell	25	25	Yes	5	Reliable and easy to grow, it has plentiful, green ½" inch seeds. Flowers similar to lily in the valley
<i>Tilia cordata</i> 'De Groot' De Groot Littleleaf Linden	30	20	Yes	5	One of the smaller stature littleleaf lindens.
<i>Tilia cordata</i> 'Chancole' Chancellor Linden	35	20	No	6	Pyramidal when young. Fragrant flowers that attract bees.
<i>Ulmus parvifolia</i> 'Emer I' Athena Classic Elm	30	35	No	5	High resistance to Dutch Elm Disease. Drought resistant. Cinnamon colored exfoliating bark for seasonal interest.

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<i>Maackia amurensis</i> Amur Maackia	30	20	Yes	5	Interesting exfoliating bark – flowering in June or July – varies in intensity from year to year
<i>Malus</i> 'Adirondack' Adirondack Crabapple	20	10	Yes	5	Very resistant to apple scab – one of the narrowest crabapples – persistent reddish ¼" fruit
<i>Malus</i> 'Red Barron' Red Barron Crabapple	20	10	Yes	5	Deep pink blossom and persistent red berries for seasonal interest
<i>Prunus serrulata</i> 'Amanogawa' Amanogawa Flowering Cherry	20	8	Yes	6	Pinkish flower bud, changing to white flower.
<i>Sorbus americana</i> 'Dwarf Crown' Red Cascade Mountain Ash	20	10	Yes	5	Nice winter form - Red berries in clusters

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<i>Acer buegerianum</i> Trident Maple	30	30	Yes	5	Somewhat shrublike – must train to a single stem – interesting bark
<i>Acer circinatum</i> Vine Maple	25	25	Yes	5	Avoid using on harsh sites – native tree
<i>Acer ginnala</i> 'Flame' Flame Amur Maple	25	20	Yes	5	Clusters of small cream colored flowers in spring – very fragrant. Nice fall color. Informal branch structure.
<i>Acer griseum</i> Paperbark Maple	30	20	Yes	5	Peeling cinnamon colored bark for seasonal interest
<i>Acer palmatum</i> Japanese Maple	20	25	Yes	5	Many varieties available – select larger varieties for street planting
<i>Acer platanoides</i> 'Globosum' Globe Norway Maple	20	20	Yes	5	Very rounded crown and compact growth
<i>Acer triflorum</i> Three-Flower Maple	25	20	Yes	5	Multi seasonal interest with tan, exfoliating bark and red, orange/red fall color
<i>Amelanchier grandiflora</i> 'Princess Diana' Princess Diana Serviceberry	20	15	Yes	4	Good for narrower planting strips
<i>Amelanchier x grandiflora</i> 'Autumn Brilliance' Autumn Brilliance Serviceberry	20	15	Yes	4	Good for narrower planting strips – reliable bloom and fall color



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<i>Arbutus 'Marina'</i> Strawberry Tree	25	20	Yes	5	Substitute for Pacific madrone – can suffer severe damage or death due to cold weather - evergreen
<i>Asimina triloba</i> Paw Paw	30	20	Yes	5	Burgundy flower in spring before leaves – difficult to find in nursery trade
<i>Carpinus japonica</i> Japanese Hornbeam	20	25	Yes	5	Wide spreading, slow growing – fall color is not outstanding.
<i>Cercis canadensis</i> Eastern Redbud	25	30	Yes	5	Deep pink flowers on bare twigs in spring

### Small Trees, Continued

Scientific & Common Name	Mature Height	Spread	Under Wires?	Min Strip Width	Comments
<i>Cercis siliquastrum</i> Judas Tree	25	30	Yes	5	Deep pink flowers on bare twigs in spring – drought resistant
<i>Cornus alternifolia</i> Pagoda Dogwood	25	25	Yes	5	Small white flowers in flat clusters – fall color is varied
<i>Cornus kousa</i> 'Chinensis' Kousa Dogwood	20	20	Yes	4	Does not do well on harsh, dry sites
<i>Cotinus obovatus</i> American Smoke Tree	25	25	Yes	4	Showy pinkish panicles of flowers in the spring – reddish purple leaves on some varieties
<i>Lagerstroemia 'tuscarora'</i> Tuscarora Hybrid Crape Myrtle	20	20	Yes	4	Light cinnamon brown bark lends year round interest – drought resistant – likes a warm site
<i>Magnolia 'Elizabeth'</i> Elizabeth Magnolia	30	20	Yes	5	Yellowish to cream colored flower in spring
<i>Magnolia 'Galaxy'</i> Galaxy Magnolia	25	25	Yes	5	Showy pink flowers
<i>Magnolia x loebneri</i> Loebner Magnolia	20	20	Yes	5	Flower is 'star' shaped rather than tulip like – white to pinkish white in March or April
<i>Malus 'Golden Raindrops'</i> Golden Raindrops Crabapple	20	20	Yes	5	Disease resistant – persistent yellow fruit in fall and winter.
<i>Malus 'Donald Wyman'</i> Donald Wyman Crabapple	25	25	Yes	5	Large white blossom – nice green foliage in summer
<i>Malus 'Lancelot' ('Lanzam')</i> Lancelot Crabapple	15	15	Yes	4	Red flower buds, blooming white – red persistent fruit
<i>Parrotia persica</i> Persian Parrotia	30	20	No	5	Blooms before it leafs out – drought tolerant - Varied fall color - reds, oranges and yellows
<i>Prunus 'Frankthrees'</i> Mt. St. Helens Plum	20	20	Yes	5	Burgundy colored leaves – tree best used as an accent rather than in mass plantings

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<i>Prunus</i> 'Newport' Newport Plum	20	20	Yes	5	Burgundy colored leaves – tree best used as an accent rather than in mass plantings
<i>Prunus</i> 'Snowgoose' Snow Goose Cherry	20	20	Yes	5	This selection sports abundant white flowers and healthy green, disease-resistant foliage
<i>Prunus cerasifera</i> 'Thundercloud' Thundercloud Plum	30	20	No	5	Burgundy colored leaves – tree best used as an accent rather than in mass plantings – can produce significant fruit
<i>Prunus x yedoensis</i> 'Akebono' Akebono Flowering Cherry	25	25	Yes	6	Has masses of large, semi-double, pink flowers – most widely planted cherry in Pacific Northwest
<i>Sorbus alnifolia</i> Korean Mountain Ash	35	30	No	5	Simple leaves and beautiful pink/red fruit
<i>Stewartia monodelpha</i> Orange Bark Stewartia	30	20	Yes	5	Extraordinary cinnamon colored bark – avoid hot, dry sites.
<i>Stewartia pseudocamellia</i> Japanese Stewartia	25	15	Yes	5	Patchwork bark, white flower in spring
<i>Styrax obassia</i> Fragrant Styrax	25	20	Yes	5	Smooth gray bark and fragrant white flowers