



**Replacement tree size for non-development**

Minimum size of deciduous tree required as a condition of non-development tree permit: **6cm caliper.**

Minimum size of coniferous tree required as a condition of non-development tree permit: **3.5m high.**

**Replacement tree size for development**

Minimum size of deciduous tree required as a condition of development tree permit: **8cm caliper.**

Minimum size of coniferous tree required as a condition of development tree permit: **4m high.**

**Note:** We DO NOT accept the following as replacement trees: Hedging Cedars, Palm Trees, Dwarf species or Topiaries.

**Small Trees Up To 30'**

Common Name	Botanical Name	Replanting Size Requirements	Height and Spread at Maturity
Hedge Maple	<i>Acer campestre</i> 'Queen Elizabeth'	6 cm caliper	H25' x S15'
Vine Maple	<i>Acer circinatum</i>	6 cm caliper	H25' x S12'
Amur Maple	<i>Acer ginnala</i>	6 cm caliper	H20' x S15'
Paperbark Maple	<i>Acer griseum</i>	6 cm caliper	H25' x S12'
Japanese Maple	<i>Acer palmatum</i>	6 cm caliper	H15' x S15'
Japanese Angelica Tree	<i>Aralia elata</i>	6 cm caliper	H25' x S20'
Young's Weeping Birch	<i>Betula pendula</i> 'Youngii'	6 cm caliper	H10' x S10'
Eastern Redbud	<i>Cercis canadensis</i>	6 cm caliper	H25' x S25'
Drooping Nootka Cypress	<i>Chamaecyparis nootkatensis</i> 'Pendula'	3.5 m height	H20' x S12'
Hinoki False Cypress	<i>Chamaecyparis obtuse</i> 'Gracilis'	3.5 m height	H20' x S15'
Saware False Cypress	<i>Chamaecyparis pisifera</i>	3.5 m height	H20' x S15'
Fringe Tree	<i>Chionanthus virginicus</i>	6 cm caliper	H30' x S20'
Chinese Dogwood	<i>Cornus chinensis</i>	6 cm caliper	H20' x S10'
Eddie's White Wonder Dogwood	<i>Cornus</i> 'Eddie's White Wonder'	6 cm caliper	H25' x S10'
Flowering Dogwood	<i>Cornus florida</i>	6 cm caliper	H20' x S15'
Kousa Dogwood	<i>Cornus kousa</i>	6 cm caliper	H20' x S10'
Cornelian Cherry	<i>Cornus mas</i>	6 cm caliper	H15' x S8'
Hawthorn	<i>Crataegus</i>	6 cm caliper	H18' x S15'
Snow Gum	<i>Eucalyptus pauciflora</i>	6 cm caliper	H15' x S10'

## Small Trees Up To 30'

Common Name	Botanical Name	Replanting Size Requirements	Height and Spread at Maturity
Shademaster Honeylocust	<i>Gleditsia traicanthos inermis</i> 'Shademaster'	6 cm caliper	H24' x S16'
Golden Chain Tree	<i>Laburnum watereri</i> 'Vossii'	6 cm caliper	H25' x S20'
Yellow Cucumber Tree	<i>Magnolia cordata</i>	6 cm caliper	H30' x S30'
Northern Japanese Magnolia	<i>Magnolia kobus</i>	3.5 m height	H30' x S20'
Oyama Magnolia	<i>Magnolia sieboldii</i>	6 cm caliper	H15' x S15'
Saucer Magnolia	<i>Magnolia soulangiana</i>	6 cm caliper	H25' x S25'
Ornamental Crabapple	<i>Malus</i>	6 cm caliper	H15' x S15'
Japanese Crabapple	<i>Malus florabunda</i>	6 cm caliper	H20' x S30'
Prairiefire Crabapple	<i>Malus</i> x 'Prairiefire'	6 cm caliper	H20' x S20'
Red Lotus	<i>Manglietia insignis</i>	6 cm caliper	H20' x S10'
Sourwood	<i>Oxydendrum arboreum</i>	6 cm caliper	H20' x S15'
Shore Pine	<i>Pinus contorta</i>	3.5 m height	H30' x S18'
Persian Ironwood	<i>Parrotia persica</i>	6 cm caliper	H15' x S15'
Japanese Flowering Plum	<i>Prunus blireana</i>	6 cm caliper	H25' x S20'
Purpleleaf Plum	<i>Prunus cerasifera pissardi</i> 'Nigra'	6 cm caliper	H25' x S25'
Japanese Flowering Cherry	<i>Prunus serrulata</i>	6 cm caliper	H25' x S25'
Higan Cherry	<i>Prunus subhirtella</i>	6 cm caliper	H25' x S25'
Chokecherry	<i>Prunus virginiana</i>	6 cm caliper	H20' x S15'
Staghorn Sumac	<i>Rhus typhina</i>	6 cm caliper	H15' x S20'
European Mountain Ash	<i>Sorbus aucuparia</i>	6 cm caliper	H25' x S15'
Japanese Stewartia	<i>Stewartia pseudocamellia</i>	6 cm caliper	H30' x S20'
Japanese Snowbell	<i>Styrax japonica</i>	6 cm caliper	H30' x S18'
Fragrant Snowbell	<i>Styrax obassia</i>	6 cm caliper	H20' x S10'
Ivory Silk Tree Lilac	<i>Syringa reticulata</i> 'Ivory Silk'	6 cm caliper	H30' x S15'

## Medium Trees 30' to 50'

Common Name	Botanical Name	Replanting Size Requirements	Height and Spread at Maturity
Caucasian Maple	<i>Acer cappadocicum</i>	6 cm caliper	H40' x S30'
Box Elder	<i>Acer negundo</i>	6 cm caliper	H50' x S25'
Norway Maple	<i>Acer platanoides</i>	6 cm caliper	H50' x S35'

## Medium Trees 30' to 50'

Common Name	Botanical Name	Replanting Size Requirements	Height and Spread at Maturity
Crimson King Maple	<i>Acer platanoides</i> 'Crimson King'	6 cm caliper	H50' x S35'
Crimson Sentry Maple	<i>Acer platanoides</i> 'Crimson Sentry'	6 cm caliper	H50' x S20'
Sycamore Maple	<i>Acer pseudoplatanus</i>	6 cm caliper	H40' x S25'
Red Maple	<i>Acer rubrum</i>	6 cm caliper	H40' x S20'
Red Sunset Maple	<i>Acer rubrum</i> 'Red Sunset'	6 cm caliper	H40' x S20'
Shantung Maple	<i>Acer truncate</i>	6 cm caliper	H25' x S20'
Red Horsechestnut	<i>Aesculus x carnea</i>	6 cm caliper	H40' x S40'
Ruby Red Horsechestnut	<i>Aesculus x carnea</i> 'Birotti'	6 cm caliper	H40' x S40'
Silk Tree	<i>Albizia julibrissin</i>	6 cm caliper	H40' x S50'
Pacific Madrone	<i>Arbutus menziesii</i>	3.5 m height	H35' x S20'
River Birch	<i>Betula nigra</i>	6 cm caliper	H40' x S20'
European Hornbeam	<i>Carpinus betulus</i>	6 cm caliper	H40' x S30'
Common Catalpa	<i>Catalpa bignoides</i>	6 cm caliper	H40' x S30'
Common Hackberry	<i>Celtis occidentalis</i>	6 cm caliper	H40' x S30'
Katsura Tree	<i>Cercidiphyllum japonicum</i>	6 cm caliper	H40' x S20'
Nootka Cypress	<i>Chamaecyparis nootkatensis</i>	3.5 m height	H50' x S30'
Giant Dogwood	<i>Cornus controversa</i>	6 cm caliper	H50' x S30'
Pacific Dogwood	<i>Cornus nuttallia</i>	6 cm caliper	H50' x S20'
Handkerchief Tree	<i>Davidia involucrata</i>	6 cm caliper	H35' x S20'
Hardy Rubber Tree	<i>Eucommia ulmoides</i>	6 cm caliper	H40' x S25'
Flowering Ash	<i>Fraxinus ornus</i>	6 cm caliper	H40' x S20'
Green Ash	<i>Fraxinus pennsylvanica</i>	6 cm caliper	H30' x S30'
Maidenhair Tree	<i>Ginkgo biloba</i>	6 cm caliper	H35' x S20'
Mountain Silverbell	<i>Halesia monticola</i>	6 cm caliper	H45' x S15'
Japanese Walnut	<i>Juglans ailantifolia</i>	6 cm caliper	H50' x S30'
Butternut	<i>Juglans cinera</i>	6 cm caliper	H50' x S30'
Arizona Walnut	<i>Juglans major</i>	6 cm caliper	H50' x S30'
Golden Rain Tree	<i>Koelreuteria paniculata</i>	6 cm caliper	H35' x S40'
European Larch	<i>Larix decidua</i>	3.5 m height	H45' x S20'
Cucumber Tree	<i>Magnolia acuminata</i>	3.5 m height	H50' x S25'

## Medium Trees 30' to 50'

Common Name	Botanical Name	Replanting Size Requirements	Height and Spread at Maturity
Dawson Magnolia	<i>Magnolia dawsoniana</i>	3.5 m height	H50' x S30'
Antarctic Beech	<i>Nothofagus antarctica</i>	6 cm caliper	H50' x S30'
Sour Gum Tree	<i>Nyssa sylvatica</i>	6 cm caliper	H50' x S25'
American Hop Hornbeam	<i>Ostrya virginiana</i>	6 cm caliper	H25' x S30'
Empress Tree	<i>Paulownia tomentosum</i>	6 cm caliper	H45' x S40'
Amur Cork Tree	<i>Phellodendron amurense</i>	6 cm caliper	H40' x S50'
Serbian Spruce	<i>Picea omorika</i>	3.5 m height	M35' x S12"
Western White Pine	<i>Pinus monticola</i>	3.5 m height	H50' x S30'
Austrian Pine	<i>Pinus nigra</i>	3.5 m height	H40' x S25'
Ponderosa Pine	<i>Pinus ponderosa</i>	3.5 m height	H50' x S30'
Himalayan White Pine	<i>Pinus wallichiana</i>	3.5 m height	H40' x S30'
Chinese Pistache	<i>Pistacia chinensis</i>	6 cm caliper	H30' x S20'
Sargent Flowering Cherry	<i>Prunus sargentii</i>	6 cm caliper	H40' x S30'
Holly Oak	<i>Quercus ilex</i>	6 cm caliper	H40' x S40'
Pin Oak	<i>Quercus palustris</i>	6 cm caliper	H50' x S35'
Pink Locust	<i>Robinia ambigua</i> 'Idahoensis'	6 cm caliper	H40' x S20'
Frisia Black Locust	<i>Robinia pseudoacacia</i> 'frisia'	6 cm caliper	H40' x S30'
Corkscrew Willow	<i>Salix matsudana</i> 'Tortuosa'	6 cm caliper	H40' x S20'
Umbrella Pine	<i>Sciadopitys verticillata</i>	3.5 m height	H40' x S25'
Pink Pagoda Mountain Ash	<i>Sorbus huphensis</i> 'Pink Pagoda'	6 cm caliper	H50' x S30'
Pacific Yew	<i>Taxus brevifolia</i>	3.5 m height	H50' x S25"
Redmond Linden	<i>Tilia americana</i> 'Redmond'	6 cm caliper	H50' x S30'
Little Leaf Linden	<i>Tilia cordata</i>	6 cm caliper	H35' x S15'
Chancellor Little Leaf Linden	<i>Tilia cordata</i> 'Chancellor'	6 cm caliper	H35' x S15'
Greenspire Little Leaf Linden	<i>Tilia cordata</i> 'Greenspire'	6 cm caliper	H35' x S20'
Siberian Elm	<i>Ulmus pumila</i>	6 cm caliper	H50' x S30'
Japanese Zelkova	<i>Zelkova serrata</i>	6 cm caliper	H50' x S25'

## Large Trees Over 50'

Common Name	Botanical Name	Replanting Size Requirements	Height and Spread at Maturity
Balsam Fir	<i>Abies balsamea</i>	3.5 m height	H60' x S35'
White Fir	<i>Abies concolor</i>	3.5 m height	H60' x S35'
Fraser's Fir	<i>Abies fraseri</i>	3.5 m height	H50' x S25'
Grand Fir	<i>Abies grandis</i>	3.5 m height	H100' x S50'
Alpine Fir	<i>Abies lasiocarpa</i>	3.5 m height	H75' x S25'
Noble Fir	<i>Abies procera</i>	3.5 m height	H125' x S45'
Bigleaf Maple	<i>Acer macrophyllum</i>	6 cm caliper	H95' x S40'
Silver Maple	<i>Acer saccharinum</i>	6 cm caliper	H80' x S80'
Sugar Maple	<i>Acer saccharum</i>	6 cm caliper	H60' x S50'
Common Horsechestnut	<i>Aesculus hippocastanum</i>	6 cm caliper	H60' x S40'
Monkey Puzzle Tree	<i>Araucaria araucana</i>	3.5 m height	H70' x S30'
California Incense Cedar	<i>Calocedrus decurrens</i>	3.5 m height	H75' x S35'
Western Catalpa	<i>Catalpa speciosa</i>	6 cm caliper	H70' x S30'
Atlas Cedar	<i>Cedrus atlantica</i>	3.5 m height	H60' x S35'
Blue Atlas Cedar	<i>Cedrus atlantica</i> 'Glauca'	3.5 m height	H60' x S35'
Cedar of Lebanon	<i>Cedrus Libani</i>	3.5 m height	H80' x S45'
American Beech	<i>Fagus grandiflora</i>	6 cm caliper	H70' x S120'
European Beech	<i>Fagus sylvatica</i>	6 cm caliper	H70' x S30'
Copper Beech	<i>Fagus sylvatica</i> 'Autopurpurea'	6 cm caliper	H70' x S30'
White Ash	<i>Fraxinus americana</i>	6 cm caliper	H80' x S45'
European Ash	<i>Fraxinus excelsior</i>	6 cm caliper	H60' x S50'
Thornless Honeylocust	<i>Gleditsia tricanthos inermis</i>	6 cm caliper	H60' x S35'
Sunburst Honeylocust	<i>Gleditsia tricanthos inermis</i> 'Sunburst'	6 cm caliper	H60' x S35'
Kentucky Coffee Tree	<i>Gymnocladus dioicus</i>	6 cm caliper	H60' x S40'
Black Walnut	<i>Juglans nigra</i>	6 cm caliper	H100' x S45'
English Walnut	<i>Juglans regia</i>	6 cm caliper	H60' x S40'
Sweetgum	<i>Liquidambar styraciflua</i>	6 cm caliper	H60' x S25'
Tuliptree	<i>Liriodendron tulipifera</i>	6 cm caliper	H60' x S40'
Southern Magnolia	<i>Magnolia grandiflora</i>	3.5 m height	H80' x S40'
Dawn Redwood	<i>Metasequoia glyptostroboides</i>	3.5 m height	H80' x S35'

## Large Trees Over 50'

Common Name	Botanical Name	Replanting Size Requirements	Height and Spread at Maturity
Tanoak	<i>Notholithocarpus densiflorus</i>	6 cm caliper	H60' x S40'
Oriental Spruce	<i>Picea orientalis</i>	6 cm caliper	H60' x S40'
White Spruce	<i>Picea glauca</i>	3.5 m height	H70' x S40'
Serbian Spruce	<i>Picea omorika</i>	3.5 m height	H60' x S20'
Colorado Spruce	<i>Picea pungens</i>	3.5 m height	H80' x 40'
Colorado Blue Spruce	<i>Picea pungens</i> 'Glauca'	3.5 m height	H80' x S40'
Hoop's Blue Spruce	<i>Picea pungens</i> 'Hoopsii'	3.5 m height	H80' x S40'
Koster Blue Spruce	<i>Picea pungens</i> 'Koster'	3.5 m height	H80' x S40'
Sitka Spruce	<i>Picea sitchensis</i>	3.5 m height	H100' x S45'
Monterey Pine	<i>Pinus radiata</i>	3.5 m height	H65' x S35'
Red Pine	<i>Pinus resinosa</i>	3.5 m height	H65' x S40'
Eastern White Pine	<i>Pinus strobus</i>	3.5 m height	H80' x S45"
Scotch Pine	<i>Pinus sylvestris</i>	3.5 m height	H70' x S45'
Japanese Black Pine	<i>Pinus thunbergii</i>	3.5 m height	H80' x S40'
London Plane Tree	<i>Platanus acerifolia</i>	6 cm caliper	H60' x S45'
Douglas Fir	<i>Pseudotsuga menziesii</i>	3.5 m height	H70' x S45'
Sawtooth Oak	<i>Quercus acutissima</i>	6 cm caliper	H60' x S40'
Scarlet Oak	<i>Quercus coccinea</i>	6 cm caliper	H60' x S45'
Garry Oak	<i>Quercus garryana</i>	6 cm caliper	H60' x S40'
Burr Oak	<i>Quercus macrocarp</i>	6 cm caliper	H60' x S40'
English Oak	<i>Quercus robur</i>	6 cm caliper	H90' x S40'
Red Oak	<i>Quercus rubra</i>	6 cm caliper	H90' x S50'
Black Locust	<i>Robinia pseudoacacia</i>	6 cm caliper	H75' x S35'
Yellow Leaf Black Locust	<i>Robinia pseudoacacia</i> 'Frisia'	6 cm caliper	H75' x S35'
Bristly Locust	<i>Robinia pseudoacacia</i> 'hispida'	6 cm caliper	H75' x S35'
Idaho Locust	<i>Robinia pseudoacacia</i> 'Idaho'	6 cm caliper	H55' x S35'
Coast Redwood	<i>Sequoia sempervirens</i>	3.5 m height	H150' x S50'
Giant Redwood	<i>Sequoiadendron giganteum</i>	3.5 m height	H150' x S50'
Bald Cypress	<i>Taxodium distichum</i>	3.5 m height	H60' x S25'
Western Red Cedar	<i>Thuja plicata</i>	3.5 m height	H100' x S45'

## Large Trees Over 50'

Common Name	Botanical Name	Replanting Size Requirements	Height and Spread at Maturity
Golden Cedar	<i>Thuja plicata</i> 'Aurea'	3.5 m height	H70' x S40'
Basswood	<i>Tilia americana</i>	6 cm caliper	H60' x S25'
Canadian Hemlock	<i>Tsuga canadensis</i>	3.5 m height	H90' x S35'
Western Hemlock	<i>Tsuga heterophylla</i>	3.5 m height	H125' x S40'
Mountain Hemlock	<i>Tsuga mertensiana</i>	3.5 m height	H60' x S30'
American Elm	<i>Ulmus americana</i>	6 cm caliper	H100' x S80'
Scotch Elm	<i>Ulmus glabra</i>	6 cm caliper	H120' x S50'

## Fastigiated or Columnar Trees

Common Name	Botanical Name	Replanting Size Requirements	Height and Spread at Maturity
Armstrong Maple	<i>Acer rubrum</i> 'Armstrong'	6 cm caliper	H40' x S15'
Bowhall Maple	<i>Acer rubrum</i> 'Bowhall'	6 cm caliper	H40' x S15'
Columnar Red Maple	<i>Acer rubrum</i> 'Columnaire'	6 cm caliper	H40' x S12'
Scarlet Sentinel Maple	<i>Acer rubrum</i> 'Scarlet Sentinel'	6 cm caliper	H40' x S15'
Pyramidal European Hornbeam	<i>Carpinus betulus</i> 'Fastigiata'	6 cm caliper	H40' x S12'
Franz Fontaine Hornbeam	<i>Carpinus betulus</i> 'Franz Fontaine'	6 cm caliper	H40' x S12'
Weeping Nootka Cypress	<i>Chamaecyparis nootkatensis</i>	3.5m high	H25' x S12'
Dawyck Beech	<i>Fagus sylvatica</i> 'Dawyckii'	6 cm caliper	H35' x S8'
Purple Dawyck Beech	<i>Fagus sylvatica</i> 'Dawyckii Purple'	6 cm caliper	H35' x S8'
Princeton Sentry Maidenhair Tree	<i>Ginkgo biloba</i> 'Princeton Sentry'	6 cm caliper	H30' x S10'
Serbain Spruce	<i>Picea Omorika</i>	3.5m high	H50' x S20'
Vanderwolf Pyramid Pine	<i>Pinus flexis</i> Vanderwolf	3.5m high	H20' x S10'
Swedish Aspen	<i>Populus tremula</i> "erecta"	6 cm caliper	H30' x S8'
Chanticleer Pear	<i>Pyrus calleryana</i> 'Chanticleer'	6 cm caliper	H40' x S15'
Upright English Oak	<i>Quercus robur</i> 'Fastigiata'	6 cm caliper	H35' x S12'
Upright Japanese Pagoda Tree	<i>Sophora japonica</i> 'Regent'	6 cm caliper	H20' x S10'

## Native BC Trees

British Columbia has one of the richest eco-systems and varied climatic zones in the world. The result is an enormous amount of plant diversity. Some of the trees that are native to British Columbia include the following:

### Native BC Deciduous Trees (6 cm caliper)

Botanical Name	Common Name
<i>Acer circinatum</i>	Vine Maple
<i>Acer glabrum var douglasii</i>	Douglas Maple
<i>Acer macrophyllum</i>	Bigleaf Maple
<i>Alnus rubra</i>	Red Alder
<i>Alnus tenuifolia</i>	Mountain Alder
<i>Amelanchier x grandiflora</i>	Serviceberry
<i>Betula occidentalis</i>	Interior Western Birch
<i>Cornus nuttallii</i>	Pacific Dogwood
<i>Crataegus columbiana</i>	Columbia Hawthorn
<i>Crataegus douglasii</i>	Black Hawthorn
<i>Fraxinus latifolia</i>	Oregon Ash
<i>Larix laricina</i>	Tamarack
<i>Larix occidentalis</i>	Western Larch
<i>Malus fusca</i>	Pacific Crab Apple
<i>Populus tremuloides</i>	Quaking Aspen
<i>Prunus emarginata</i>	Bitter Cherry
<i>Prunus pensylvanica</i>	Bird Cherry
<i>Prunus virginiana</i>	Choke Cherry
<i>Quercus garryana</i>	Garry Oak, Oregon Oak
<i>Salix discolor</i>	Pussy Willow
<i>Salix lasiandra</i>	Pacific Willow
<i>Sorbus scopulina cascadiensis</i>	Cascades Western Mountain Ash



## Native BC Evergreen Trees (3.5 m height)

Botanical Name	Common Name
<i>Arbutus menziesii</i>	Arbutus, Madrone

## Native BC Conifers (3.5 m height)

Botanical Name	Common Name
<i>Abies amabilis</i>	Pacific Silver Fir
<i>Abies grandis</i>	Grand Fir
<i>Abies lasiocarpa</i>	Subalpine Fir
<i>Abies procera</i>	Noble Fir
<i>Chamaecyparis nootkatensis</i>	Yellow Cedar, Alaskan Cedar
<i>Picea glauca</i>	White Spruce
<i>Picea mariana</i>	Black Spruce
<i>Picea sitchensis</i>	Sitka Spruce
<i>Pinus banksiana</i>	Jack Pine
<i>Pinus contorta subsp contorta</i>	Shore Pine
<i>Pinus contorta subsp latifolia</i>	Lodgepole Pine
<i>Pinus flexilis</i>	Limber Pine
<i>Pinus monticola</i>	Western White Pine
<i>Pinus ponderosa</i>	Ponderosa Pine, Western Yellow Pine
<i>Pseudotsuga menziesii</i>	Douglas Fir
<i>Pseudotsuga menziesii Glauca</i>	Blue Douglas Fir
<i>Taxus brevifolia</i>	Pacific Yew
<i>Thuja plicata</i>	Western Red Cedar
<i>Tsuga heterophylla</i>	Western Hemlock
<i>Tsuga mertensiana</i>	Mountain Hemlock

This document has been edited as of 2021 to reflect the Urban Forest Climate Adaptation Framework for Metro Vancouver: Tree Species Selection, Planting and Management.

For Tree Planting Guidelines, please refer to Information Bulletin Tree-10 “Replacement Tree Guideline”.