URBAN TREE SPECIES LIST

FOR A CHANGING CLIMATE

The tree species included in this list have been assessed for their suitability to the current and projected future climate in North Vancouver

This list is intended to assist in selecting tree species that are suitable for the changing climate in North Vancouver. It is a guide to inform decision-making rather than a prescriptive planting list.

DROUGHT TOLERANCE

Drought tolerance in this document refers to the tree's ability to survive drought. High drought tolerance means that the tree species is very suitable to withstand dry conditions and hotter temperatures. All trees on this list require regular watering for the first two years for establishment.

SITE-SPECIFIC TREE SELECTION

Mature heights in this document are approximate and depend on site-specific growing conditions. Tree species should be chosen based on planting site conditions and intended after-care. It is recommended to further research the tree's specific growing requirements, attributes, and availability at your local nurseries before finalizing the tree selection for your site.



TREE SPECIES

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CONIFEROUS TREES

Sometimes called evergreens, most coniferous trees keep their foliage year-round. Conifers are a large group of resinous, cone-bearing trees and shrubs. Conifers provide year-round ecological benefits and habitat. The coniferous tree species on this list have been selected for their suitability to drier and hotter summer conditions for a changing climate in North Vancouver.



SCIENTIFIC NAME	COMMON NAME	MATURE HEIGHT	DROUGHT TOLERANCE	EXPOSURE
Abies concolor	White fir	12-21m	medium	full sun
Abies pinsapo	Spanish fir	15-25m	medium	full sun, part shade
Abies procera	Noble fir	15-30m	medium	full sun, part shade
Abies nordmanniana	Nordmann fir	9-15m	medium	full sun
Calocedrus decurrens	Incense cedar	9-15m	high	full sun, part shade
Cedrus atlantica	Blue atlas cedar	12-18m	medium	full sun
Cedrus deodara	Deodar cedar	12-21m	medium	full sun
Cupressus x leylandii	Leyland cypress	18-21m	medium	full sun
Cryptomeria japonica	Japanese cedar	15-18m	medium	full sun
Chamaecyparis obtusa	Hinoki cypress	15-23m	medium	full sun
Chamaecyparis pisifera	Sawara cypress	15-21m	medium	full sun, part sun
Juniperus chinensis	Chinese juniper	12-15m	medium	full sun
Juniperus virginiana	Virginia juniper	9-20m	high	full sun
Juniperus scopulorum	Rocky mountain juniper	6-9m	medium	full sun
Juniperus maritima*	Seaside juniper	4m	high	full sun
Pinus contorta contorta*	Shore pine	9-14m	high	full sun
Pinus densiflora 'Umbraculifera'	Tanyosho pine	9m	medium	full sun
Pinus heldreichii	Bosnian pine	20-30m	medium	full sun

*Native to British Columbia

Suitable for Rain Gardens



CONIFEROUS TREES

SCIENTIFIC NAME	COMMON NAME	MATURE HEIGHT	DROUGHT TOLERANCE	EXPOSURE
Pinus nigra	Austrian pine	12-18m	high	full sun
Pinus ponderosa*	Ponderosa pine	18-38m	high	full sun
Pinus sylvestris	Scots pine	9-18m	high	full sun
Pinus thunbergii	Japanese black pine	6-18m	high	full sun
Picea breweriana	Brewer spruce	9-15m	medium	full sun
Picea glauca	White spruce	12-18m	medium	full sun, part sun
Picea omorika	Serbian spruce	12-18m	low-medium	full sun, part shade
Picea orientalis	Caucasian spruce	15-18m	medium	full sun, part shade
Picea pungens	Colorado spruce	9-18m	medium	full sun, part shade
Pseudotsuga menziesii*	Douglas fir	12-24m	low-medium	full sun, part shade
Sequoiadendron giganteum	Giant sequoia	18-82m	high	full sun
Taxus baccata	English yew	9-18m	medium	full sun, part shade
Taxus brevifolia*	Pacific yew	12-15m	medium	part sun, full shade
Thuja occidentalis	American arborvitae	12-15m	low-medium	full sun, part shade

^{*}Native to British Columbia



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DECIDUOUS TREES

Deciduous trees shed their leaves for a part of every year and remain bare until they grow new leaves each spring. Deciduous trees can provide great visual interest through fall colours, flowers and fruits, which also provide habitat benefits. The deciduous tree species on this list have been selected for their suitability to drier and hotter summer conditions for a changing climate in North Vancouver.



SCIENTIFIC NAME	COMMON NAME	MATURE HEIGHT	DROUGHT TOLERANCE	EXPOSURE
Acer campestre	Hedge maple	8-10m	medium	full sun, part shade
Acer cappadocicum	Cappadocian maple	9-10m	medium	full sun, part shade
Acer griseum	Paperbark maple	6-9m	low-medium	full sun, part shade
Acer japonicum	Full moon maple	6-9m	medium	full sun, part shade
Acer miyabei	State Street maple	9-12m	medium	full sun, part shade
Acer rubrum 	Red maple	9-15m	low-medium	full sun, part shade
Acer triflorum	Three flowered maple	9-10m	medium	full sun, part shade
Acer x freemanii ♦	Freeman maple	12-18m	low-medium	full sun, part shade
Albizia julibrissin	Persian silk tree	6-12m	high	full sun, part shade
Aesculus x carnea	Red horse chestnut	8-10m	medium	full sun, part shade
Alnus cordata	ltalian alder	9-15m	medium	full sun, part shade
Alnus rubra*	Red alder	12-15m	medium	full sun, part shade
Amelanchier canadensis*	Candian serviceberry	8-10m	medium	full sun, part shade
Amelanchier laevis ♦	Allegheny serviceberry	5-8m	medium	full sun, part shade
Catalpa speciosa	Northern catalpa	12-21m	medium	full sun, part shade
Carpinus betulus	Common hornbeam	12-18m	medium	full sun, part shade
Carpinus japonica	Japanese hornbeam	6-9m	medium	part shade, shade
Celtis occidentalis	Common hackberry	12-18m	high	full sun, part shade

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DECIDUOUS TREES

SCIENTIFIC NAME	COMMON NAME	MATURE HEIGHT	DROUGHT TOLERANCE	EXPOSURE
Cercis canadensis	Eastern redbud	6-9m	high	full sun, part shade
Cornus controversa	Giant dogwood	6-9m	medium	full sun, part shade
Cornus mas	Cornelian cherry dogwood	6-8m	medium	full sun, part shade
Corylus avellana	European hazelnut	3m	medium	full sun, part shade
Crataegus crus-galli var.inermis	Cockspur hawthorn	8-10m	high	full sun
Crataegus douglasii*♦	Black hawthorn	5-8m	medium	full sun, part shade
Crataegus x lavallei	Lavalle hawthorn	6-9m	medium-high	full sun
Crataegus x mordenensis	Morden hawthorn	5-6m	high	full sun
Eucommia ulmoides	Hardy rubber tree	12-18m	high	full sun
Ginkgo biloba 	Maidenhair tree	12-15m	medium-high	full sun
Gleditsia triacanthos ♦	Honey locust	18-24m	high	full sun
Gymnocladus dioicus ♦	Kentucky coffee tree	18-24m	high	full sun
Juglans major	Arizona walnut	12-15m	high	full sun
Koelreuteria paniculata ♦	Golden raintree	9-12m	high	full sun
Liquidamber styraciflua 	Sweetgum	18-24m	medium	full sun
Liriodendron tulipifera	Tulip tree	18-27m	medium	full sun
Magnolia grandiflora	Southern magnolia	18-24m	medium	full sun, part shade
Malus x zumi calocarpa	Redbud crabapple	5-6m	medium	full sun
Nyssa sinensis 	Chinese tupelo	10-15m	medium	full sun, part shade
Oxydendrum arboreum	Sourwood	6-9m	medium	full sun, part shade

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DECIDUOUS TREES

SCIENTIFIC NAME	COMMON NAME	MATURE HEIGHT	DROUGHT TOLERANCE	EXPOSURE
Parrotia persica	Persian ironwood	6-12m	medium	full sun
Prunus emarginata*	Bitter cherry	2-15m	medium	full sun, part shade
Prunus sargentii	Sargent's cherry	6-9m	medium	full sun, part shade
Prunus x yedoensis	Yoshino cherry	6-9m	medium	full sun, part shade
Quercus acutissima	Sawtooth oak	12-18m	high	full sun
Quercus alba ♦	White oak	15-24m	high	full sun
Quercus coccinea	Scarlet oak	15-21m	high	full sun
Quercus garryana*	Garry oak	12-24m	high	full sun
Quercus macrocarpa	Burr oak	18-24m	high	full sun
Quercus shumardii	Shumard oak	12-18m	high	Full sun
Quercus bicolor •	Swamp white oak	15-18m	medium	Full sun
Quercus robur	English oak	12-21m	medium	full sun
Sorbus aria	Whitebeam	8-9m	medium	full sun
Sorbus x thuringiaca	Oakleaf mountain ash	8-12m	medium	full sun, part shade
Stewartia pseudocamellia	Japanese stewartia	6-12m	medium	full sun, part shade
Tilia cordata	Little leaf linden	15-21m	medium	full sun, part shade
Tilia tomentosa	Silver linden	15-21m	medium	full sun, part shade
Ulmus wilsoniana 'Prospector'	Prospector elm	12-15m	medium	full sun
Zelkova serrata	Japanese zelkova	15-24m	medium	full sun

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COLUMNAR TREES

Columnar trees are narrower than most trees and are often a good solution for privacy, smaller spaces, and locations close to structures that cannot accommodate wider canopy trees. Columnar trees stay slender without requiring much pruning but are more prone to storm and snow damage. The columnar species on this list have been selected for their suitability to drier and hotter summer conditions for a changing climate in North Vancouver.

The trees on this list are cultivars, meaning they have been bred to be compact and narrow. When selecting a tree from this list, ensure you include the name in 'quotation', which refers to the cultivar of the species.



SCIENTIFIC NAME	COMMON NAME	MATURE HEIGHT	MATURE WIDTH	DROUGHT TOLERANCE	EXPOSURE
Acer rubrum 'Armstrong' ◆	Armstrong maple	15-21m	3.5-4.5m	medium	full sun, part shade
Chamaecyparis nootkatensis 'Van den Akker'	Narrow Alaskan cedar (weeping)	6-9m	1.8m	medium	full sun, part shade
Fagus sylvatica 'Dawyck'	Dawyck European beech	15-18m	4.5m	low	full sun, part shade
Ginkgo biloba 'Princeton Sentry' ♦	Princeton maidenhair	12-15m	6m	medium	full sun
<i>Liquidambar styraciflua</i> ′Slender Silhouette′ ♦	Slender silhouette sweet gum	12-15m	1.8m	medium	full sun
Picea omorika 'Bruns'	Bruns Serbian spruce	9-10m	3m	medium	full sun, part shade
<i>Pinus flexilis</i> 'Vanderwolf's Pyramid'	Vanderwolf's pyramid limber pine	15m	6m	medium	full sun, part shade
Quercus robur 'Fastigiata'	Columnar English oak	15-18m	3-3.5m	medium	full sun
<i>Quercus x warei '</i> Kindred Spirit [®] '	Kindred Spirit® oak	6-12m	1.8m	medium	full sun

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TREES FOR WET OR IRRIGATED SITES

Tree species included on this list should only be considered if the planting site is wet or irrigated. Many of these species are commonly available and used in landscapes, but struggle during periods of drought without regular access to water. Before selecting a tree from this list, consider the future climate conditions of your site to ensure the tree will have access to adequate water over the long term.



SCIENTIFIC NAME	COMMON NAME	MATURE HEIGHT	DROUGHT TOLERANCE	EXPOSURE
Abies grandis*	Grand fir	15-30m	low	full sun, part shade
Acer macrophyllum*	Bigleaf maple	12-23m	low-medium	full sun, part shade
Acer circinatum*	Vine maple	6-8m	low-medium	full sun, part shade
Betula nigra 	River birch	15-21m	low-medium	full sun, part shade
Cornus kousa	Kousa dogwood	6-9m	low-medium	full sun, part shade
Cornus 'Eddies White Wonder'	Eddies white wonder dogwood	6-10m	low-medium	full sun, part shade
Fagus sylvatica	Dawyck European beech	15-18m	low	full sun, part shade
Magnolia 'Galaxy'	Galaxy magnolia	12m	low	full sun, part shade
Magnolia virginiana 	Sweetbay magnolia	5-10m	low-medium	full sun, part shade
Metasequoia glyptostroboides	Dawn redwood	21-30m	low-medium	full sun
Styrax japonicus	Japanese snowbell	5-8m	low-medium	full sun, part shade
Syringa reticulata	Japanese tree lilac	6-9m	low-medium	full sun
Thuja plicata*	Western redcedar	15-21m	low	part shade full shade

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