

habitat	
natural distribution	West N. America, coast range
in N.W. Europe since	1853
natural areas The Netherlands	not indigenous
geological landscape types The Netherlands (Hoek 1997)	ice-pushed ridges
forested areas The Netherlands	sandy soils
area Netherlands / status	rare as a forest tree
% of forest trees in the Netherlands	-
soil type	loamy
pH-KCl	4-8
soil fertility	medium to nutrient rich
light	highly shade tolerant
① shade tolerance (0=no tolerance to 5=max. tolerance)	4.7
① drought tolerance (0=no tolerance to 5=max. tolerance)	2.2
① waterlogging tolerance (0=no tolerance to 5=max. tolerance)	1.0
plant communities in the Netherlands	-
management	
status USA Natural range	common species in forests, in a small range
status Europe	rare exotic species in forests
status The Netherlands	infrequent exotic species in forests, frequent in urban environment
application	timber tree, ornamental
propagation	seed, cuttings
regeneration	planting, natural regeneration
optimal gap size for regeneration	?
first plantation Netherlands	1856 Schovenhorst
resprouting after cutting	no
growth rate (M.A.I. in $m^3ha^{-1}j^{-1}$)	slow to medium
diseases	
insects	very resistant to insects
wood	
wood	red cedar, British Colombia cedar, thuja
wood structures key characteristics of pores	?
density heartwood (kg/m^3)	370 (12% moisture content)
elastic modulus (N/mm^2)	?
durability heartwood	fungus 2
heartwood colour	reddish brown, variable from light to dark
sapwood colour	white
contents	-
products	construction wood, shakes, singles, all kinds of outdoor applications
non-timber products	
all parts of the tree	extensively used in traditional native american culture

① Ülo Niinemets and Fernando Valladares. 2006. Tolerance to shade, drought, and waterlogging of temperate Northern Hemisphere trees and shrubs. Ecological Monographs 76:521–547



one-year old seedling



3-years old sapling



young ornamental tree at Veenendaal



mature ornamental tree at Doorwerth

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stem of a mature tree



Western Red Cedar forest stand at Speulderbos



leaves and buds of *Thuja plicata*



Cones

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