

habitat	
natural distribution	West Mediterranean (incl. Morocco)
in N.W. Europe since	?
natural areas The Netherlands	not indigenous
geological landscape types The Netherlands (Hoek 1997)	
forested areas The Netherlands	dry sandy soils; former shifting sands
area Netherlands	-
% of forest trees in the Netherlands	-
soil type	
pH-KCl	3,5 – 4,5
soil fertility	nutrient poor to nutrient medium rich
light	light demanding
① shade tolerance (0=no tolerance to 5=max. tolerance)	no data; comparable to <i>P. nigra</i>
① drought tolerance (0=no tolerance to 5=max. tolerance)	no data; comparable to <i>P. nigra</i>
① waterlogging tolerance (0=no tolerance to 5=max. tolerance)	no data; comparable to <i>P. nigra</i>
plant communities in the Netherlands	Vaccinio-Piceetea (klasse der naaldbossen): -Cladonio-Pinetum sylvestris – Korstmossen-Dennenbos -Leucobryo-Pinetum – Kussentjesmos-Dennenbos
management	
status Europe	frequent indigenous species in forests
status The Netherlands	infrequent exotic species in forests
application	timber tree
propagation	seed
regeneration	planting; natural regeneration
optimal gap size for regeneration	2x tree length
first plantation Netherlands	?
resprouting after cutting	no
growth rate (M.A.I. in $m^3ha^{-1}j^{-1}$)	fast;
diseases	<i>Heterobasidion annosum</i> – fungus on roots (Wortelzwam) <i>Armillaria mellea</i> – fungus in cambium (Honingzwam)
insects	?
wood	
wood	maritime pine (Dutch: Frans grenen)
wood structures key characteristics of pores	Pine general: tracheid walls in rays with open piths. Resin canals
density heartwood (kg/m^3)	510-750 (12% moisture content)
elastic modulus (N/mm^2)	?
durability heartwood	fungus 3
heartwood colour	reddish brown to brown
sapwood colour	white to yellow
contents	resin (Dutch: hars)
products	construction timber, flooring, cladding, furniture, pulpwood
non-timber products	
resin	for turpentine. Contains more resin than Eur. Pine.

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



seedling Maritime pine



young tree in Loonsche en Drunense Duinen, Tilburg



Maritime pine typical long bud



cones and bark



branch with mature cones

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