



<b>habitat</b>	
natural distribution	Europe, Caucasus
in N.W. Europe since	.... B.C.
natural areas The Netherlands	brook forest, -scrub (esp. Dutch island Schiermonnikoog)
geological landscape types The Netherlands (Hoek 1997)	till plateau, dune valleys
forested areas The Netherlands	not a forest canopy tree
area Netherlands	-
% of forest trees in the Netherlands	-
soil type	
pH-KCl	acid to neutral
soil fertility	nutrient medium to rich
light	light demanding
① shade tolerance (0=no tolerance to 5=max. tolerance)	1.9
① drought tolerance (0=no tolerance to 5=max. tolerance)	0.5
① waterlogging tolerance (0=no tolerance to 5=max. tolerance)	4.0
plant communities in the Netherlands	Klasse der wilgenbroekstruwelen: -Salicetum cinerereae – Associatie van Grauwe wilg (ook in wilgenvloedbossen; niet vermeld in Weeda, 2005; wel in Weeda, 1985)
<b>management</b>	
status Europe	rare, indigenous species
status The Netherlands	rare, indigenous species
application	nature tree, street tree, park tree
propagation	cuttings, seeds
regeneration	planting; natural regeneration from seed and natural cuttings
optimal gap size for regeneration	-
first plantation Netherlands	-
resprouting after cutting	good
growth rate (M.A.I. in $m^3ha^{-1}j^{-1}$ )	moderate (data unknown)
diseases	<i>Erwinia salicis</i> – bacterium in wood – Watermerkziekte
insects	
<b>wood</b>	
wood	Willow, White willow (Dutch: wilgen)
wood structures key characteristics of pores	diffuse porous; uniseriate, heterogeneous rays; large ray vessel pits
vol. mass heartwood (kg/m <sup>3</sup> )	(12% moisture content)
elastic modulus (N/mm <sup>2</sup> )	
durability heartwood	fungus 5
heartwood color	light-brown to rose-brown
sapwood color	white
contents	
products	basketry
<b>non-timber products</b>	
leaves and branches	for fodder
twigs	for basketry
Salicine from the bark	medicinal use

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



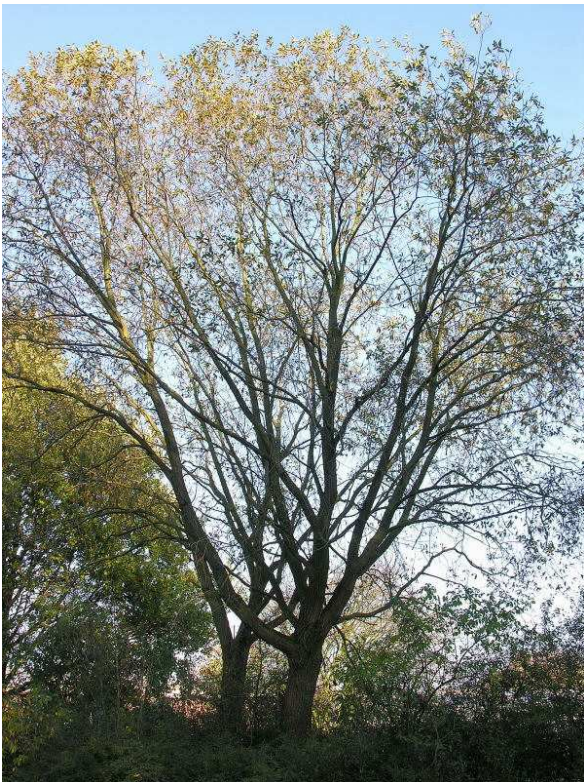
leaves



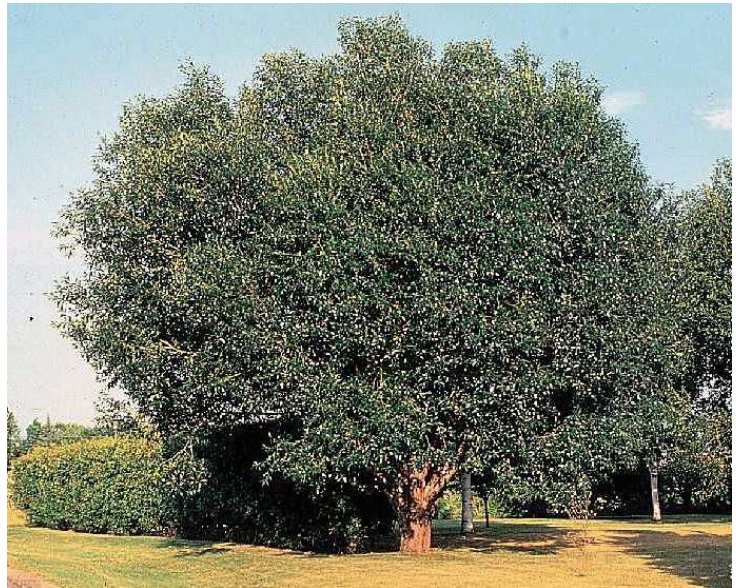
buds



female flowers



mature trees, silhouette in autumn, Wageningen  
photo © Leo Goudzwaard, Wageningen University



mature tree in summer, photo Wikipedia