



<b>habitat</b>	
natural distribution	W+Mid Europe
in N.W. Europe since	.. B.C.
natural areas The Netherlands	brook forests, bogs
geological landscape types The Netherlands (Hoek 1997)	river valleys; dune area; till plateau; coversand area
forested areas The Netherlands	-
area Netherlands	-
% of forest trees in the Netherlands	not a forest tree
soil type	sand and peat soils
pH-KCl	acid
soil fertility	nutrient poor
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)	0.1
① waterlogging tolerance (0=no tolerance to 5=max. tolerance)	4.1
plant communities in the Netherlands	Klasse der wilgenbroekstruwelen: -Salicetum auritae – associatie van Geoorde wilg -Salicetum cinereae – Associatie van Grauwe wilg Klasse der wilgenvloedbossen en –struwelen: -Irido-Salicetum albae – Lissen-ooibos Klasse der Elzenbroekbossen: -Thelipterido-Alnetum – Moerasvaren-Elzenbroekbos -Carici elongata-Alnetum – Elzenzegge-Elzenbroek Klasse der berkenbroekbossen: -Carici curtae-Betuletum pubescentis
<b>management</b>	
status Europe	?
status The Netherlands	frequent indigenous species
application	nature shrub
propagation	cuttings
regeneration	planting; natural regeneration from seed and layering
optimal gap size for regeneration	
first plantation Netherlands	-
oldest tree Europe	-
oldest tree Netherlands	-
resprouting after cutting	good
growth rate (M.A.I. in $m^3 ha^{-1} j^{-1}$ )	slow (data unknown)
diseases	<i>Daedaleopsis confragosa</i> – fungus on wood -Roodporie houtzwam
insects	-
<b>wood</b>	
wood	Willow (Dutch: wilgen)
wood structures key characteristics of pores	-
vol. mass heartwood (kg/m <sup>3</sup> )	-
elastic modulus (N/mm <sup>2</sup> )	-
durability heartwood	fungus 5
heartwood color	white
sapwood color	white
contents	
products	none (small shrub)
<b>non-timber products</b>	
bark	salicylic acid for medicinal purposes

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 and flower-buds



twig in winter



flowers in early spring: female flowers (left) and male flowers (right)4

photography 4x © Leo Goudzwaard, Wageningen University



Grey willow shrub



fruits and opened seed-pods

photography 2x © Leo Goudzwaard, Wageningen University