

**Tree factsheet**

images at pages 3

***Populus canescens* (x) Sm.**

<b>taxonomy</b>	
author, year	Sm ....
synonym	<i>P. hybrida</i> Reichenb.
Family	Salicaceae
Eng. Name	Grey poplar
Dutch name	Grauwe abeel, Griuze populier
subspecies	-
varieties	-
hybrids	<i>Populus x canescens</i> ( <i>P. alba</i> x <i>P. tremula</i> )
cultivars, frequently used (Rassenlijst, 2002)	
'Bunderbos'	landscape and park tree
'De Moffart'	landscape and park tree
'Enniger'	landscape and park tree
'Schijndel'	landscape and park tree
'Witte van Haamstede'	landscape and park tree
<b>references</b>	OECD, 2001. Concensus document on the biology of Populus (online document) Series on Harmonisation of Regulatory Oversight in Biotechnology, No. 16
	Schotveld, A. 1987. Populier (in Dutch). in: Schmidt, P. 1987. Nederlandse boomsoorten I, Syllabus Vakgroep Bosbouw Landbouwniversiteit Wageningen
	Hiemstra, J.A. 2002. Rassenlijst bomen. Plants for a Future Database; <a href="http://www.pfaf.org/index.html">www.pfaf.org/index.html</a>
<b>morphology</b>	
crown habit	tree, round (stem often crooked)
max. height (m)	30
max. dbh (cm)	200
actual size Europe	
actual size Netherlands	year 1860-1870, d(130) 120, h 24 year 1880-1890, d(130) 185, h 25 year 1880-1890, d(130) 137, h 29
leaf length (cm)	5-12
leaf petiole (cm)	2,5-10
leaf colour upper surface	green
leaf colour under surface	white to grey
leaves arrangement	alternate
flowering	March
flowering plant	dioecious
flower	hermaphrodite
flower diameter (cm)	
flower male catkins length (cm)	6-10
flower female catkins length (cm)	2-4
pollination	wind
fruit; length	capsule (doosvrucht); 0,1-0,2 cm
fruit petiole (cm)	<0,1
seed; length	seed; .. cm
seed-wing length (cm)	pappus: approx 0,5
weight 1000 seeds (g)	<i>P. tremula</i> : 0,2
seeds ripen	June
seed dispersal	wind, water

<b>habitat</b>	
natural distribution	-
in N.W. Europe since	.... B.C.
natural areas The Netherlands	forests
geological landscape types The Netherlands (Hoek 1997)	dune area; river valleys
forested areas The Netherlands	exotic at limy, sandy soils.
area Netherlands	Populus+Salix: 16.290 (2002, Probos)
% of forest trees in the Netherlands	Populus+Salix: 6,3 (2002, Probos)
soil type	
pH-KCL	neutral to alkaline
soil fertility	nutrient rich
light	light demanding to half shade tolerant
① shade tolerance (0=no tolerance to 5=max. tolerance)	2.7
① drought tolerance (0=no tolerance to 5=max. tolerance)	2.2
① waterlogging tolerance (0=no tolerance to 5=max. tolerance)	1.8
plant communities in the Netherlands	Klasse der Eiken-beukenbossen op voedselrijke grond: -Violo odoratae-Ulmetum - Abelen-iepenbos (niet in Weeda)
<b>management</b>	
status Europe	frequent hybrid species in forests, landscape and urban environment
status The Netherlands	frequent exotic hybrid species in forests, landscape and urban environment
application	street tree, ornamental, windbreak
propagation	named cultivars by rootings, cuttings or grafting
regeneration	planting; natural regeneration from up-rootings
optimal gap size for regeneration	2-3x tree length
first plantation Netherlands	
resprouting after cutting	good
growth rate (M.A.I. in $m^3ha^{-1}j^{-1}$ )	fast (data unknown)
diseases	<i>Pollacia radiosa</i> – fungus on leaves and shoot-tips – bladplekkenziekte <i>Xanthomonas populi</i> – bacterium on branches – bacteriekanker <i>Marssonina larici-populina</i> – fungus on leaves - roest
insects	<i>Cossus cossus</i> – caterpillar feeding on wood (Wilgenhoutrups)
<b>wood</b>	
wood	Poplar (populieren)
wood structures key characteristics of pores	diffuse porous; uniseriate, homogeneous rays
vol. mass heartwood (kg/m <sup>3</sup> )	(380-)440 (-530) (12% moisture content)
elastic modulus (N/mm <sup>2</sup> )	9.700
durability heartwood	fungus 5
heartwood color	red brown
sapwood color	white
contents	
products	pulpwood, veneerwood
<b>non-timber products</b>	

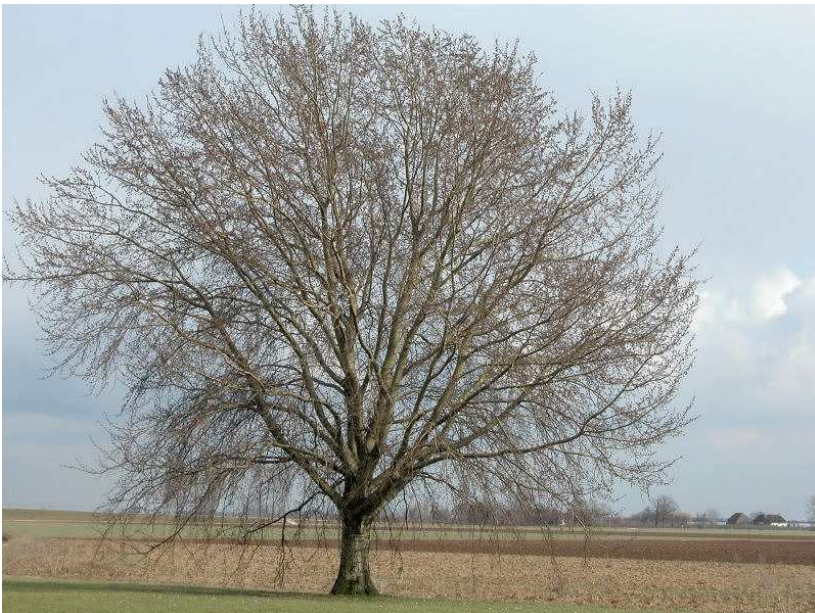
① Ülo Niinemets and Fernando Valladares. 2006. Tolerance to shade, drought, and waterlogging of temperate Northern Hemisphere trees and shrubs. Ecological Monographs 76:521–547



leaves and buds



landscape trees in a row, Groot Ammers



tree silhouette, Betuwe  
Photo 3x © Leo Goudzwaard, Wageningen University



female flowers, photo © Hans-Cees Speel,  
[www.bomengids.nl](http://www.bomengids.nl)



bark of a young tree



bark of a mature tree

photography 2x © Leo Goudzwaard, Wageningen University



Grey poplar wood, photo © W. Stemmann