

Tree factsheet

images at pages 3, 4

Populus canadensis (x) Moench

taxonomy	
author, year	Moench ...
synonym	<i>P. x euramericana</i>
Family	Salicaceae
Eng. Name	Hybrid Black poplar
Dutch name	Canadapopulier, Canada-peppel
subspecies	
varieties	
hybrids	<i>Populus x canadensis</i> Moench (<i>P. nigra</i> x <i>P. deltoides</i>)
cultivars, frequently used	
'Robusta'	False Lombardy poplar, as a timber-, street- and landscape tree
many others	
references	
	Weeda, E.J. 2003. Nederlandse Oecologische Flora, deel 1
	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 Landbouwuniversiteit Wageningen.
	Hiemstra, J.A. 2002. Rassenlijst bomen
	Plants for a Future Database; www.pfaf.org/index.html
morphology	
crown habit	tree, oval to round
max. height (m)	40
max. dbh (cm)	>100
actual size Europe	h 44, England
actual sizes Netherlands	year 1900-1910, d(130) 223, h 28, Bingerden, Gelderland year 1920-1930, d(130) 169, h 37 h 40, Amelisweerd, Utrecht h 40, Vondelpark, Amsterdam
leaf length (cm)	5-13
leaf petiole (cm)	3-8,5
leaf colour upper surface	green
leaf colour under surface	green
leaves arrangement	alternate
flowering	March
flowering plant	dioecious
flower	monosexual
flower diameter (cm)	
flower male catkins length (cm)	5-8
female fruit catkins length (cm)	10-15
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

habitat	
natural distribution	-
in N.W. Europe since	-
natural areas The Netherlands	-
geological landscape types The Netherlands (Hoek 1997)	river valleys
forested areas The Netherlands	clay soils near rivers
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
① shade tolerance (0=no tolerance to 5=max. tolerance)	1.7
① drought tolerance (0=no tolerance to 5=max. tolerance)	1.8
① waterlogging tolerance (0=no tolerance to 5=max. tolerance)	2.1
plant communities in the Netherlands	-
management	
status Europe	frequent hybrid species in forests
status The Netherlands	frequent hybrid species in forests and landscape
application	timber tree, landscape tree, street tree, windbreak
propagation	seed, cuttings or rootings
regeneration	planting; natural regeneration from seed and up-rootings
optimal gap size for regeneration	>3x tree length
first plantation Netherlands	
resprouting after cutting	good
growth rate (M.A.I. in $m^3ha^{-1}j^{-1}$)	fast 10-24
diseases	<i>Melampsora larici</i> – fungus on leaves - roest <i>Xanthomonas populi</i> – bacterium on branches - bacteriekanker <i>Marssonina brunnea</i> – fungus on leaves - bladvlekkenziekte
insects	<i>Cossus cossus</i> – caterpillar feeding on wood - Wilgenhoutrups
wood	
wood	Poplar (Dutch: populieren)
wood structures key characteristics of pores	diffuse porous; uniseriate, homogeneous rays
vol. mass heartwood (kg/m ³)	(380-)440 (-530) (12% moisture content)
elastic modulus (N/mm ²)	9.700
durability heartwood	fungus 5
heartwood color	yellowish white
sapwood color	white
contents	
products	pulpwood, veneerwood, package wood
non-timber products	leaves for fodder

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



poplar stand, © Hans-Cees Speel, Bomengids.nl



young poplars in a row, Rhenen

photography © Leo Goudzwaard



mature tree, Wageningen



old tree, Wageningen, Dreijen Arboretum



stem of 110 years old poplar, Vondelpark, the largest tree in Amsterdam



poplar logs



poplar wood, photo © Chris Sonnemans



pollen flowers
photo's 3x Leo Goudzwaard



fruits and seeds © Steve Baskauf