

Forest Ecology and Forest Management Group

Tree factsheet

images at pages 3, 4, 5

Robinia pseudoacacia L.

Robinia pseudoacacia L.	
taxonomy	
author, year	Linnaeus, 1753
synonym	-
Family	Fabaceae
Eng. Name	Black locust, Robinia, False acacia
Dutch name	Robinia, Valse acacia
subspecies	-
varieties	none
hybrids	R. x ambigua (R. pseudoacacia x R. viscosa)
cultivars, frequently used	•
'Fastigiata'	columnar shape, planted in streets
'Frisia'	streets, parks
'Bessoniana'	streets, parks
'Apallachia'	streets, parks
'Sandraudiga'	streets, parks
'Semperflorens'	streets, parks
'Unifoliola'	streets, parks
references	USDA Forest Service http://www.fs.fed.us/database/feis/plants/tree/index.html
	Hiemstra, J.A. 2002. Rassenlijst bomen
	Robinia Foundation; www.robinia.nl
	Plants for a future Database; www.pfaf.org/index.html
morphology	
crown habit	tree, oval to round
max. height (m)	18-24
max. dbh (cm)	100 and more
actual size Europe	100 and more
actual size Netherlands	year 1600-1700, d(130) 223, h 17, Kasteel Doorwerth, Doorwerth, Gelderland
actual SIZE INCLIENTATIOS	year 1850-1860, d(130) 83, h 30
leaf length (cm)	14-25
leaf petiole (cm)	1
leaf colour upper surface	green
leaf colour under surface	
leaves arrangement	green alternate
flowering	June
flowering plant	monoecious
flower	hermaphrodite
flower diameter (cm)	2
pollination fruit: longth	insects (bees) seedpod; 5-10 cm
fruit; length	
fruit petiole (cm)	1
seed; length	seed; 0,5-0,7 cm
seed-wing length (cm)	not present
weight 1000 seeds (g)	18-20
seeds ripen	October
seed dispersal	

habitat	
natural distribution	E + M. USA
in N.W. Europe since	
	1601
natural areas The Netherlands	
geological landscape types The Netherlands	ice-pushed ridges
(Hoek 1997)	
forested areas The Netherlands	moist, sandy, loamy and clayish soils
area Netherlands	<900 ha (2002, Probos)
% of forest trees in the Netherlands	<0,4 (2002, Probos)
soil type	
pH-KCI	acid to neutral
soil fertility	nutrient poor to nutrient rich
light	light demanding
●shade tolerance	1.7
(0=no tolerance to 5=max. tolerance)	
●drought tolerance	4.1
(0=no tolerance to 5=max. tolerance)	
•waterlogging tolerance	1.1
(0=no tolerance to 5=max. tolerance)	
plant communities in the Netherlands	planted in: Klasse der Eiken-Beukenbossen op voedselarme grond
management	
status USA	frequent? species in forests, urban environment
status Europe	infrequent species in forests, frequent in urban environment
status The Netherlands	frequent exotic (naturalized) species in forests, landscape and urban environment
application	timber tree, street tree, ornamental tree
propagation	seed; named cultivars by grafting; rootings
regeneration	planting; natural regeneration
optimal gap size for regeneration	?
first plantation Netherlands	·
resprouting after cutting	good
growth rate (M.A.I. in m³ha⁻¹j⁻¹)	moderate;
diseases	Verticillium dahliae – Verticillium wilt – fungus on young trees –
discussion	verwelkingsziekte, tast jonge bomen aan
insects	Megacyllene robiniae - locust borer - robinia-boorder kever
1110000	in USA severe damages;
	bees attracted by flowers
	book districted by normale
wood	
wood	Locust, False acacia (Dutch: Robinia)
wood structures key characteristics of pores	Ring porous; solitary pores in early-wood; pores clusters in latewood.
vol. mass heartwood (kg/m3)	(540-)720-740-800 (-860) (12% moisture content)
elastic modulus (N/mm²)	14.200
oladia madada (ramm)	
durability heartwood	fungus 4
heartwood color	gold-brown
sapwood color	grayish yellow
contents	tanine (looizuur)
products	construction timber, flooring, furniture, garden furniture, barrels for wine,
products	waterworks etc.
non-timber products	
flowers	nectar for honey production, flowers for flavouring tea
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[●]Ülo Niinemets and Fernando Valladares. 2006. Tolerance to shade, drought, and waterlogging of temperate Northern Hemisphere trees and shrubs. Ecological Monographs 76:521–547





two branchlets in winter



inflorescence photography 3x © Leo Goudzwaard



young ornamental, Bennelom



mature ornamental, Wageningen



mature ornamental Black Locust, Rhenen







bark of a young tree

bark of an old tree

wood photo © Chris Sonnemans



photos 4x © Leo Goudzwaard



dry wood, brown