

habitat	
natural distribution	West Europe
in N.W. Europe since	4400 B.C.
natural areas The Netherlands	forest edges, hedges, open forest
geological landscape types The Netherlands (Hoek 1997)	river and brook valleys
forested areas The Netherlands	not a forest tree
area Netherlands	not a forest tree, but an understorey shrub
% of forest trees in the Netherlands	-
soil type	loamy, clay and limestone soils
pH-KCl	neutral and alkaline
soil fertility	nutrient rich
light	shade tolerant when young, half shade tolerant when mature
① shade tolerance (0=no tolerance to 5=max. tolerance)	2.5
① drought tolerance (0=no tolerance to 5=max. tolerance)	2.9
① waterlogging tolerance (0=no tolerance to 5=max. tolerance)	1.1
plant communities in the Netherlands	- <i>Quercus-Fagetum</i> (klasse der Eiken-Beukenbossen op voedselrijke grond) - <i>Rhamno-Prunetea</i> (klasse der doornstruwelen)
management	
status Europe	rare, indigenous species in open forest forest edges
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application	Landscape shrub and hedges
propagation	seed
regeneration	planting; natural regeneration from seed
optimal gap size for regeneration	forest edge
first plantation Netherlands	
resprouting after cutting	very good
growth rate (M.A.I. in m ³ ha ⁻¹ j ⁻¹)	slow (data unknown)
diseases	<i>Erwinia amylovora</i> , fireblight bacterium (bacterievuur), not being spread by Hawthorn
insects	<i>Aporia crataegi</i> - (larvae of) Black-veined white - Groot geaderd witje <i>Lochmaea crataegi</i> - (larvae of) leaf beetle - Meidoornhaantje
wood	
wood	Hawthorn
wood structure key characteristics of pores	diffuse- to semi-ring-porous
vol. mass heartwood (kg/m ³)	-
elastic modulus (N/mm ²)	-
durability heartwood	-
heartwood color	yellowish brown
sapwood color	yellowish brown
contents	
products	walking-sticks; very good firewood
non-timber products	
fruits	edible for humans, but uncommon
flowers	in herbal tea

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



Midland hawthorn, leaf



twig



flower



fruits

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mature tree, Dokkum



mature tree, Dreijen Arboretum Wageningen



stem of the Dokkum tree

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