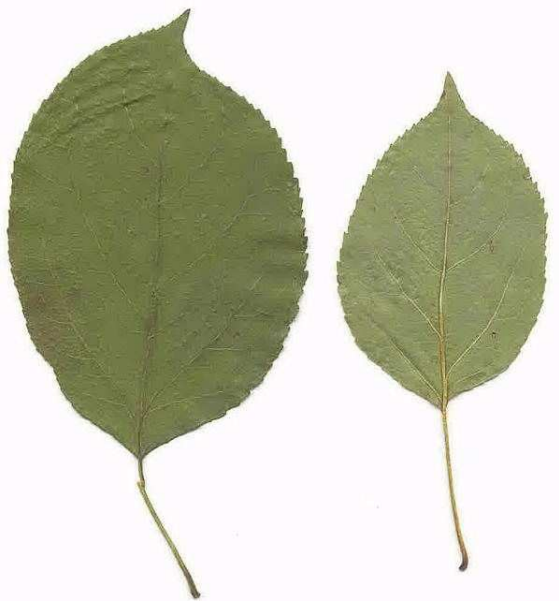


habitat	
natural distribution	Europe
in N.W. Europe since	approx 7000 BC
natural areas The Netherlands	forests; forest edges
geological landscape types The Netherlands (Hoek 1997)	loess covered terraces, till plateau, higher river and brook valleys
forested areas The Netherlands	clay and loamy soils
area Netherlands	not a forest canopy tree, understory and forest edges
% of forest trees in the Netherlands	<0,1
soil type	
pH-KCl	neutral to alkaline
soil fertility	nutrient rich
light	half shade tolerant when young, light demanding when mature
① shade tolerance (0=no tolerance to 5=max. tolerance)	2.3
① drought tolerance (0=no tolerance to 5=max. tolerance)	3.2
① waterlogging tolerance (0=no tolerance to 5=max. tolerance)	1.7
plant communities in the Netherlands	Klasse der doornstruwelen: -Rhamno - Prunetea
management	
status Europe	rare indigenous species in forests and forest edges
status The Netherlands	rare indigenous species in forests and forest edges
application	nature tree; fruit tree
propagation	seed
regeneration	planting; natural regeneration from seed
optimal gap size for regeneration	forest edges
first plantation Netherlands	not a plantation tree
resprouting after cutting	good
growth rate (M.A.I. in $m^3ha^{-1}j^{-1}$)	slow, (data unknown)
diseases	<i>Erwinia amylovora</i> – bacterium - Fireblight – Bacterievuur; <i>Venturia inaequalis</i> – fungus – Blackspot – blad- en takschurft
insects	<i>Cydia pomonella</i> -codling moth larva, feeding on the apple core
wood	
wood	apple (Dutch: appel)
wood structure key characteristics of pores	diffuse porous; pores solitary
vol. mass heartwood (kg/m ³)	700
elastic modulus (N/mm ²)	approx 7800 (Pyrus)
durability heartwood	fungus 4
heartwood color	reddish brown
sapwood color	white to pale yellow
contents	gum in the heartwood
products	turnery, cutlery, furniture
non-timber products	
fruits	cooked for jellies, preservative; contains pectin
seeds	contain toxic hydrogen cyanide

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



Wild Crab leaves



branchlets



leaves and fruits
photos 3x © Leo Goudzwaard



Wild Crab flowers and leaves



Domestic apple blossom (left) and Wild apple blossom (right)



Two apple trees at a former meadow
left: Buskett's Lawn in New Forest, U.K.
photography 4x © Leo Goudzwaard



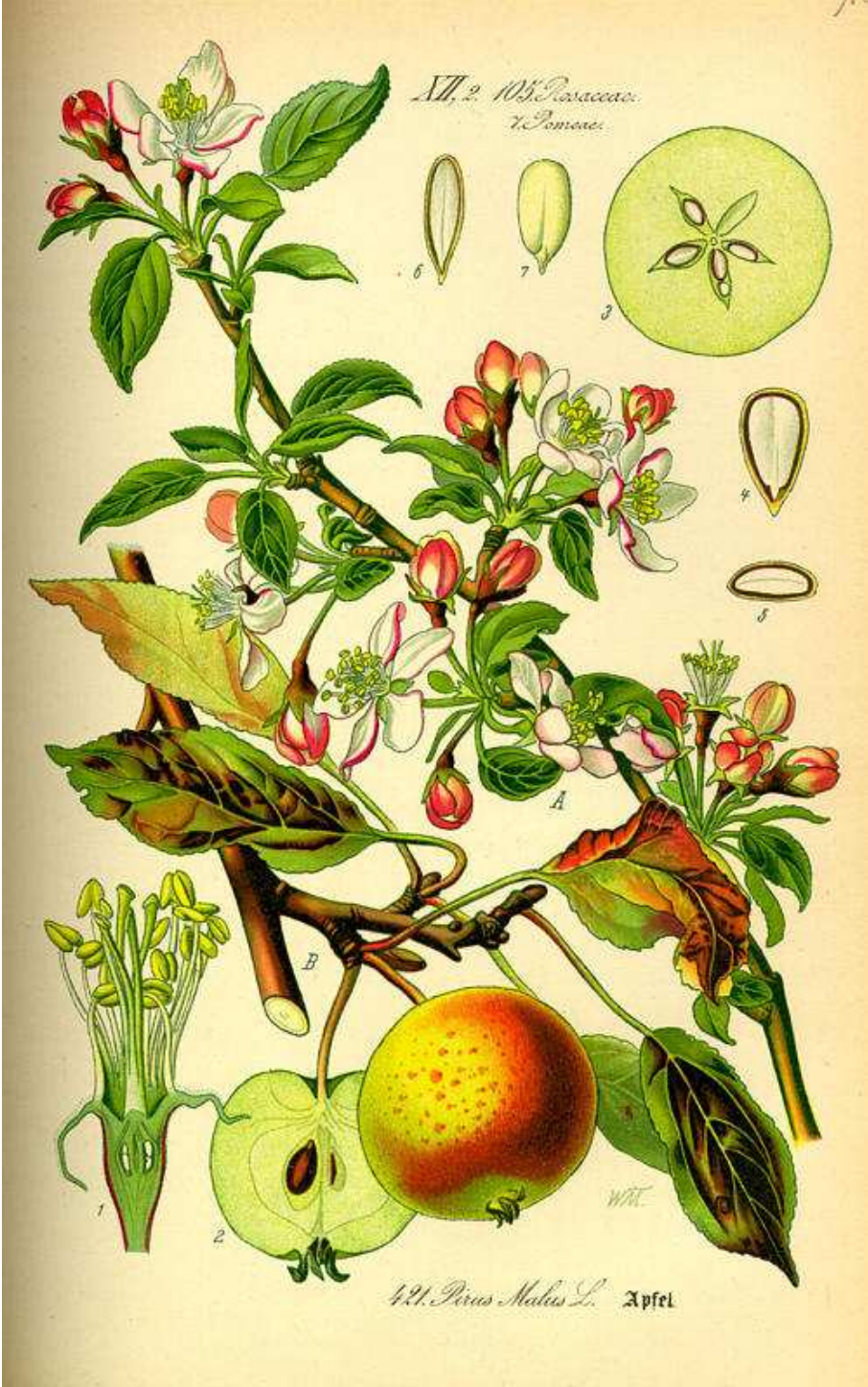
right: young plant at a former horse meadow, France



wood (*Malus domestica*)
photo Chris Sonnemans



Wild crab stems, New Forest, U.K.
photo © Leo Goudzwaard



XVII, 2. 105. Rosaceae.
7. Pomacee.

121. *Pirus Malus L.* Apfel