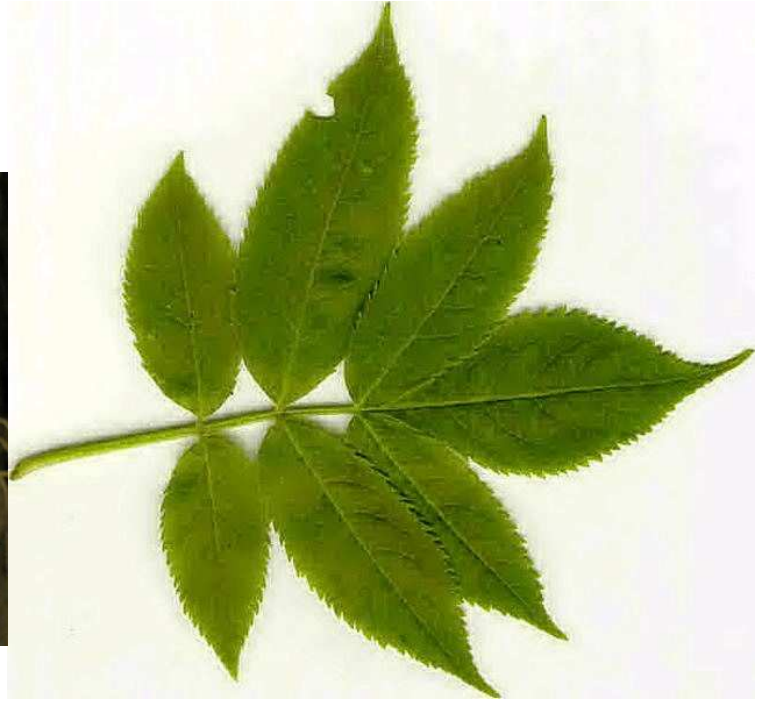


| | |
|--|--|
| habitat | |
| natural distribution | Europe, West Siberia, Caucasus, Turkey, Northern Africa |
| in N.W. Europe since | ? |
| in The Netherlands since | 18 th century AC (Maes, p. 300) |
| natural areas The Netherlands | forest edges, rural sites |
| geological landscape types The Netherlands (Hoek 1997) | indifferent |
| forested areas The Netherlands | dry sandy soils |
| area Netherlands | not a forest canopy tree, planted in understorey and forest edges |
| % of forest trees in the Netherlands | <0,1 |
| soil type | sand, peat, loamy soils |
| pH-KCl | indifferent |
| soil fertility | rich |
| light | shade tolerant as a sapling; half shade tolerant when mature |
| ① shade tolerance (0=no tolerance to 5=max. tolerance) | 2.7 |
| ① drought tolerance (0=no tolerance to 5=max. tolerance) | 3.0 |
| ① waterlogging tolerance (0=no tolerance to 5=max. tolerance) | 2.5 |
| plant communities in the Netherlands | Lonicera-Rubetea plicati - Brummel-klasse: - Rubetum pedemontani – Associatie van Sierlijke woudbraam |
| management | |
| status Europe | abundant indigenous species |
| status The Netherlands | abundant indigenous species |
| application | nature tree |
| propagation | seed or cuttings |
| regeneration | planting; natural regeneration from seed |
| optimal gap size for regeneration | > 1x tree length |
| 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 | |
| insects | |
| wood | |
| wood | |
| wood structure key characteristics of pores | diffuse porous to semi-ring porous (<i>S. nigra</i>) |
| vol. mass heartwood (kg/m ³) | |
| elastic modulus (N/mm ²) | |
| durability heartwood | - |
| heartwood color | white |
| sapwood color | white |
| contents | |
| products | - |
| non-timber products | |
| fruits | raw slightly poisonous; cooked for jams, pies. according to some authors poisonous berries and seeds. |

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 of Red Elder



sapling in forest understory. Oostereng, Wageningen

photos 4x © Leo Goudzwaard



flowering shrub



flowers and unripe berries;



buds in winter

photos 3x© Leo Goudzwaard



seed: kernel from a Red Elder fruit

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