

Fagus sylvatica

Habitus and growth type

Plant height [m]: **33.51**

Life span: **Perennial**

Life form: **Phanerophyte, Tree**

Spinescence: **not spinescent**

Leaf

Leaf type (woody plants only): **Broad deciduous or semi-deciduous**

Leaf phenology (woody plants only): **Winter deciduous**

Specific leaf area [mm²/mg]: **18.85**

Flower

Flowering period: **April-May**

Fruit, seed and dispersal

Seed mass [mg]: **213.29**

Dispersal mode: **Dyszoochory, Anthropochory**

Dispersal distance class: **6, 7**

Trophic mode

Parasitism and mycoheterotrophy: **autotroph**

Carnivory: **non-carnivorous**

Symbiotic nitrogen fixation: **no nitrogen-fixing symbionts**

Taxon origin

Origin in Europe: **Native**

Ecology

Environmental relationships

Substrate humidity relationship: **Mesic**

Substrate reaction relationship: **Slightly acidic to near-neutral**

Nutrient relationship: **Mesotrophic**

Salinity relationship: **Non-saline**

Ellenberg-type indicator values

Moisture indicator value: **5.5**

Reaction indicator value: **5.7**

Salinity indicator value: **0**

Disturbance indicator values

Disturbance frequency: **0.03**

Disturbance frequency (herb layer): **1.3**
 Disturbance severity: **0.7**
 Disturbance severity (herb layer): **0.12**
 Mowing frequency: **0.01**
 Grazing pressure: **0.19**
 Soil disturbance: **0.11**

Habitat and sociology

Syntaxon

Diagnostic species of phytosociological classes: [CA \(FAG\) *Carpino-Fagetea sylvaticae*](#),
[CC \(QUE\) *Quercetea robori-petraeae*](#)

EUNIS habitat

Diagnostic species of EUNIS habitats: [T17 Fagus forest on non-acid soils](#), [T18 Fagus forest on acid soils](#), [T1F Ravine forest](#), [T27 Ilex aquifolium forest](#), [T32 Temperate mountain Abies forest](#)

Constant species of EUNIS habitats: [N1D Atlantic and Baltic broad-leaved coastal dune forest](#), [R52 Forest fringe of acidic nutrient-poor soils](#), [S38 Temperate forest clearing scrub](#), [T12 Alnus glutinosa-Alnus incana forest on riparian and mineral soils](#), [T17 Fagus forest on non-acid soils](#), [T18 Fagus forest on acid soils](#), [T1B Acidophilous Quercus forest](#), [T1D Southern European mountain Betula and Populus tremula forest on mineral soils](#), [T1E Carpinus and Quercus mesic deciduous forest](#), [T1F Ravine forest](#), [T1H Broadleaved deciduous plantation of non site-native trees](#), [T27 Ilex aquifolium forest](#), [T31 Temperate mountain Picea forest](#), [T32 Temperate mountain Abies forest](#), [T33 Mediterranean mountain Abies forest](#), [T35 Temperate continental Pinus sylvestris forest](#), [T36 Temperate and submediterranean montane Pinus sylvestris-Pinus nigra forest](#), [T37 Mediterranean montane Pinus sylvestris-Pinus nigra forest](#), [T39 Mediterranean and Balkan subalpine Pinus heldreichii-Pinus peuce forest](#), [T3C Taxus baccata forest](#), [T3M Coniferous plantation of non site-native trees](#), [U23 Temperate, lowland to montane siliceous scree](#)

Dominant species of EUNIS habitats: [T17 Fagus forest on non-acid soils](#), [T18 Fagus forest on acid soils](#)

Broad habitat

Occurrence in broad habitats: **Grassland (non-alpine, non-saline), Scrub, Forest, Sparsely vegetated (incl. rock and scree)**

Distribution

Continentality: **3**
 Continentality amplitude: **3**