

Castanea sativa

Habitus and growth type

Plant height [m]: **27.36**

Life span: **Perennial**

Life form: **Phanerophyte, Tree**

Leaf

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

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

Specific leaf area [mm²/mg]: **14.7**

Flower

Flowering period: **April-May**

Fruit, seed and dispersal

Seed mass [mg]: **6417.96**

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: **Acidic**

Nutrient relationship: **Mesotrophic**

Salinity relationship: **Non-saline**

Ellenberg-type indicator values

Light indicator value: **5.7**

Temperature indicator value: **8.2**

Moisture indicator value: **5.3**

Reaction indicator value: **4.3**

Nutrient indicator value: **4.2**

Salinity indicator value: **0**

Disturbance indicator values

Disturbance frequency: **0.03**

Disturbance frequency (herb layer): **1.31**

Disturbance severity: **0.7**

Disturbance severity (herb layer): **0.12**

Mowing frequency: **0.01**

Grazing pressure: **0.2**

Soil disturbance: **0.12**

Habitat and sociology

Syntaxon

Diagnostic species of phytosociological classes: [CC \(QUE\) Quercetea robori-petraeae](#)

EUNIS habitat

Diagnostic species of EUNIS habitats: [T1B Acidophilous Quercus forest](#), [T1G Alnus cordata forest](#)

Constant species of EUNIS habitats: [T1B Acidophilous Quercus forest](#), [T1E Carpinus and Quercus mesic deciduous forest](#), [T1G Alnus cordata forest](#), [T27 Ilex aquifolium forest](#), [T29 Broadleaved evergreen plantation of non site-native trees](#), [T3M Coniferous plantation of non site-native trees](#)

Dominant species of EUNIS habitats: [T1B Acidophilous Quercus forest](#), [T1E Carpinus and Quercus mesic deciduous forest](#)

Broad habitat

Occurrence in broad habitats: **Forest**

Distribution

Continentality: **6**

Continentality amplitude: **2**