# *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 [$mm^2$/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**

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### 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**

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