

Osmunda regalis

Habitus and growth type

Plant height [m]: **1.14**

Life span: **Perennial**

Life form: **Hemicryptophyte**

Leaf

Specific leaf area [mm²/mg]: **13.83**

Flower

Flowering period: **April-September**

Fruit, seed and dispersal

Seed mass [mg]: **0.04**

Dispersal mode: **Anemochory**

Dispersal distance class: **3**

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: **Wet**

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

Nutrient relationship: **Mesotrophic**

Salinity relationship: **Non-saline**

Ellenberg-type indicator values

Light indicator value: **5.3**

Moisture indicator value: **8.6**

Reaction indicator value: **4.8**

Nutrient indicator value: **4.4**

Salinity indicator value: **0**

Disturbance indicator values

Disturbance frequency: **0.36**

Disturbance frequency (herb layer): **1.27**

Disturbance severity: **0.57**

Disturbance severity (herb layer): **0.25**

Mowing frequency: **0.05**

Grazing pressure: **0.18**

Soil disturbance: **0.13**

Habitat and sociology

Syntaxon

Diagnostic species of phytosociological classes: [GD \(AZO\) *Lauro azoricae-Juniperetea brevifoliae*](#), [HA \(POP\) *Alno glutinosae-Populetea albae*](#), [IA \(ALN\) *Alnetea glutinosae*](#)

EUNIS habitat

Diagnostic species of EUNIS habitats: [R1T *Azorean open, dry, acid to neutral grassland*](#), [T22 *Mainland laurophyllous forest*](#)

Constant species of EUNIS habitats: [R1T *Azorean open, dry, acid to neutral grassland*](#)

Broad habitat

Occurrence in broad habitats: **Aquatic, Spring, Grassland (non-alpine, non-saline), Forest**

Distribution

Continentality: **3**

Continentality amplitude: **3**