

# *Osmunda regalis*

## Habitus and growth type

Plant height [m]: **1.14**

Life span: **Perennial**

Life form: **Hemicryptophyte**

## Leaf

Specific leaf area [mm<sup>2</sup>/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**