# *Athyrium filix-femina*

### Habitus and growth type

Plant height [m]: **0.77**
Life span: **Perennial**
Life form: **Hemicryptophyte**

### Leaf

Specific leaf area [$mm^2$/mg]: **12.1**

### Flower

Flowering period: **May-September**

### Fruit, seed and dispersal

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: **Eutrophic**
Salinity relationship: **Non-saline**

#### Ellenberg-type indicator values

Reaction indicator value: **5.3**
Nutrient indicator value: **5.6**
Salinity indicator value: **0**

#### Disturbance indicator values

Disturbance frequency: **0.09**
Disturbance frequency (herb layer): **1.3**
Disturbance severity: **0.68**
Disturbance severity (herb layer): **0.18**
Mowing frequency: **0.02**

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Grazing pressure: **0.19**
Soil disturbance: **0.11**

## Habitat and sociology

### Syntaxon

Diagnostic species of phytosociological classes: **BB (ASA) *Asaro europaei-Abietetea sibiricae*, CA (FAG) *Carpino-Fagetea sylvaticae*, GC (LAU) *Pruno lusitanicae-Lauretea azoricae*, GD (AZO) *Lauro azoricae-Juniperetea brevifoliae***

### EUNIS habitat

Diagnostic species of EUNIS habitats: **T12 Alnus glutinosa-Alnus incana forest on riparian and mineral soils, T15 Broadleaved swamp forest on non-acid peat, T17 Fagus forest on non-acid soils, T1F Ravine forest, T31 Temperate mountain Picea forest, T32 Temperate mountain Abies forest**

Constant species of EUNIS habitats: **R1T Azorean open, dry, acid to neutral grassland, R56 Montane to subalpine moist or wet tall-herb and fern fringe, S25 Subalpine and subarctic deciduous scrub, S37 Corylus avellana scrub, S38 Temperate forest clearing scrub, T12 Alnus glutinosa-Alnus incana forest on riparian and mineral soils, T13 Temperate hardwood riparian forest, T15 Broadleaved swamp forest on non-acid peat, T17 Fagus forest on non-acid soils, T18 Fagus forest on acid soils, T1D Southern European mountain Betula and Populus tremula forest on mineral soils, T1E Carpinus and Quercus mesic deciduous forest, T1F Ravine forest, T22 Mainland laurophyllous forest, T31 Temperate mountain Picea forest, T32 Temperate mountain Abies forest, T3F Dark taiga**

### Broad habitat

Occurrence in broad habitats: **Spring, Grassland (non-alpine, non-saline), Alpine-subalpine and arctic grassland, Scrub, Forest, Sparsely vegetated (incl. rock and scree), Synanthropic**

## Distribution

Continentality amplitude: **6**

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