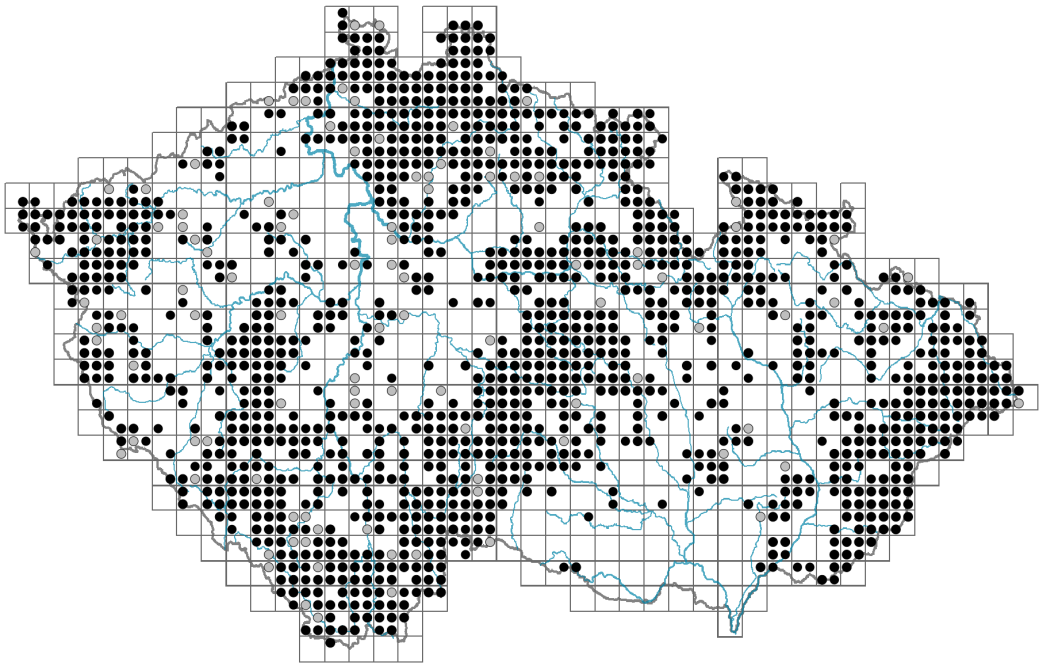
Pteridium aquilinum

Distribution





Map info

revised records

unrevised records

On the map are not visualized records without the coordinates and records marked as incorrect or doubtful.







Habitus and growth type

Height [m]: **0.5–2**
Growth form: **clonal herb**
Life form: **geophyte**
Life strategy: **C – competitor**
Life strategy (Pierce method based on leaf traits): **C**
Life strategy (Pierce method, C-score): **80.9 %**
Life strategy (Pierce method, S-score): **13.4 %**
Life strategy (Pierce method, R-score): **5.8 %**

Leaf

Leaf presence and metamorphosis: **leaves present, not modified**
Leaf arrangement (phyllotaxis): **alternate**
Leaf shape: **compound – bipinnate, compound – tripinnate**
Stipules: **absent**
Petiole: **present**
Leaf life span: **summer green**
Leaf anatomy: **scleromorphic**

Flower

Flowering period [month]: **July–September**

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Dicliny: **synoecious**



Fruit, seed and dispersal

Reproduction type: **by seed/spores and vegetatively**
Dispersal unit (diaspore): **spore**
Dispersal strategy: **Lycopodium (mainly anemochory)**
Myrmecochory: **non-myrmecochorous (b)**

Belowground organs and clonality



Shoot metamorphosis: **rhizome**
Storage organ: **rhizome**
Type of clonal growth organ: **hypogeogenous rhizome**
Freely dispersible organs of clonal growth: **absent**
Shoot life span (cyclicity): **monocyclic shoots prevailing**
Branching type of stem-derived organs of clonal growth: **dichotomous**
Primary root: **absent**
Persistence of the clonal growth organ [year]: **4**
Number of clonal offspring: **1**
Lateral spreading distance by clonal growth [m]: **0.4**
Clonal index: **5**



Bud bank

Number of buds per shoot at the soil surface (root buds excluded): **0**
Number of buds per shoot at a depth of 0–10 cm (root buds excluded): **12**
Number of buds per shoot at a depth greater than 10 cm (root buds excluded): **15**
Size of the belowground bud bank (root buds excluded): **27**
Depth of the belowground bud bank (root buds exluded) [cm]: **11**
Number of buds per shoot at the soil surface (root buds included): **0**
Number of buds per shoot at a depth of 0–10 cm (root buds included): **12**
Number of buds per shoot at a depth greater than 10 cm (root buds included): **15**
Size of the belowground bud bank (root buds included): **27**
Depth of the belowground bud bank (root buds included) [cm]: **11**

Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**
Carnivory: **non-carnivorous**
Symbiotic nitrogen fixation: **no nitrogen-fixing symbionts**

Karyology

Chromosome number (2n): **104**
Ploidy level (x): **4**
2C genome size [Mbp]: **13397.43**
1Cx monoploid genome size [Mbp]: **3349.36**
Genomic GC content: **45.7 %**

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Taxon origin

Origin in the Czech Republic: **native**

Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **6 – transition between values 5 and 7; rarely at less than 20% of diffuse radiation incident in an open area**
Temperature indicator value: **5 – moderate heat indicator, occurring from lowland to montane belt, mainly in submontane-temperate areas**
Moisture indicator value: **5 – indicator of fresh soils, focus on soils of average moisture, missing on wet and on soils that frequently dry out**
Reaction indicator value: **3 – acidity indicator, occurring mainly in acidic conditions, exceptionally in neutral conditions**
Nutrient indicator value: **3 – occurring at nutrient-poor sites more frequently than at average sites and exceptionally at rich sites**
Salinity indicator value: **0 – not salt tolerant, glycophyte**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.83**
Herb layer disturbance frequency indicator value: **-0.62**
Whole-community disturbance severity indicator value: **0.38**
Herb layer disturbance severity indicator value: **0.26**
Whole-community structure based disturbance indicator value: **0.12**
Herb layer structure-based disturbance indicator value: **0.13**

Habitat and sociology

Occurrence in habitats

2 Alpine and subalpine grasslands

2B Subalpine tall-forb and tall-grass vegetation: **1 – rare occurrence**

6 Meadows and mesic pastures

6F Intermittently wet Molinia meadows: **1 – rare occurrence**
6G Vegetation of wet disturbed soils: **1 – rare occurrence**

7 Acidophilous grasslands

7B Submontane Nardus grasslands: **1 – rare occurrence**

8 Dry grasslands

8F Thermophilous forest fringe vegetation: **1 – rare occurrence**

9 Sand grasslands and rock-outcrop vegetation

9B Open vegetation of acidic sands: **1 – rare occurrence**
9C Festuca grasslands on acidic sands: **1 – rare occurrence**

11 Heathlands and scrub

11A Dry lowland to subalpine heathlands: **1 – rare occurrence**

12 Forests

12A Alder carrs: **1 – rare occurrence**
12C Oak-hornbeam forests: **1 – rare occurrence**
12E Herb-rich beech forests: **1 – rare occurrence**

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12G Acidophilous beech forests: **2 – optimum**
12I Sub-continental thermophilous oak forests: **1 – rare occurrence**
12K Acidophilous oak forests: **3 – dominant**
12L Boreo-continental pine forests: **2 – optimum**
12P Peatland pine forests: **1 – rare occurrence**
12Q Peatland birch forests: **2 – optimum**
12R Acidophilous spruce forests: **1 – rare occurrence**
12U Plantations of broad-leaved non-native trees: **1 – rare occurrence**
12V Spruce plantations: **1 – rare occurrence**
12W Pine and larch plantations: **2 – optimum**

13 Anthropogenic vegetation

13E Perennial nitrophilous herbaceous vegetation of mesic sites: **1 – rare occurrence**
13F Herbaceous vegetation of forests clearings and Rubus scrub: **3 – dominant**

Affinity to the forest environment

Affinity to the forest environment in Thermophyticum: **1.2 – taxon occurring mainly along forest edges and in forest openings, including forest roads and paths, windthrow sites, burnt sites and forest clearings**
Affinity to the forest environment in Mesophyticum and Oreophyticum: **1.2 – taxon occurring mainly along forest edges and in forest openings, including forest roads and paths, windthrow sites, burnt sites and forest clearings**

Diagnostic taxon

Diagnostic taxon of alliances: **LFA *Festuco-Pinion sylvestris*, LFB *Dicrano-Pinion sylvestris***
Diagnostic taxon of associations: **LFA01 *Festuco-Pinetum sylvestris*, XEA06 *Pteridietum aquilini***

Constant taxon

Constant taxon of associations: **XEA06 *Pteridietum aquilini***

Dominant taxon

Dominant taxon of associations: **XEA06 *Pteridietum aquilini***

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.3**
Ecological specialization index for non-forest vegetation: **3.7**
Ecological specialization index for forest vegetation: **4.5**

Colonization ability

Index of colonization success (ICS): **6**
Index of colonization potential (ICP): **9**
Optimum successional age [years]: **9**

Distribution and frequency

Floristic zone: **boreal, northern temperate, southern temperate, submeridional, meridional, subtropical, tropical, austral or antarctic**
Floristic region: **circumpolar**
Distribution range extension along the continentality gradient: **5**
Elevational belt in the Czech Republic: **lowlands, colline belt, submontane belt, montane belt**
Expansive taxon in the region: **Bohemian Moravian Mesophyticum, Bohemian Moravian Oreophyticum, Carpathian Mesophyticum, Carpathian Oreophyticum**

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Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 536
taxon.data.freq_in_quad: 1367

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.3 %**
Occurrence frequency in vegetation plots with a cover above 5%: **50 %**
Occurrence frequency in vegetation plots with a cover above 25%: **33.3 %**
Occurrence frequency in vegetation plots with a cover above 50%: **23.3 %**
Mean percentage cover in vegetation plots: **25.5 %**
Maximum percentage cover in vegetation plots: **99 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **23**
Number of narrow habitats in which the taxon has its optimum: **6**
Number of broad habitats in which the taxon occurs: **8**
Number of broad habitats in which the taxon has its optimum: **2**

Threats and protection

Red List 2017 (national categories): **taxon is not on the Red List**
Red List 2017 (IUCN categories): **LC(NA) – least concern (taxon is not on the Red List)**
Legal protection: **not protected by law**

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