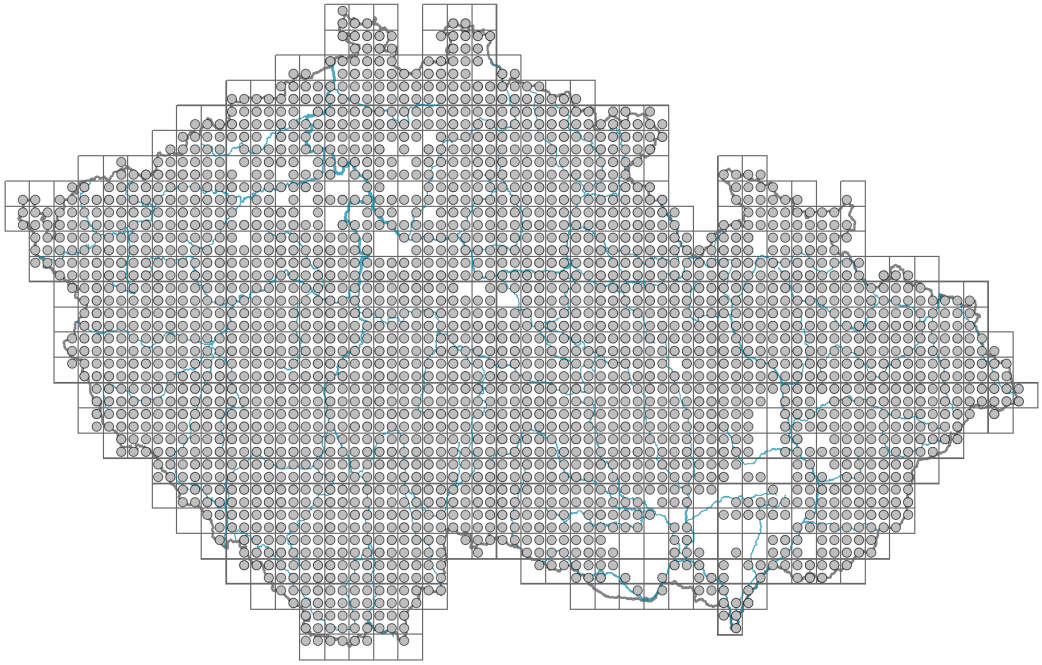
Filipendula ulmaria

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: **hemicryptophyte**
Life strategy: **C – competitor**
Life strategy (Pierce method based on leaf traits): **CS/CSR**
Life strategy (Pierce method, C-score): **44.4 %**
Life strategy (Pierce method, S-score): **37 %**
Life strategy (Pierce method, R-score): **18.6 %**

Leaf

Leaf presence and metamorphosis: **leaves present, not modified**
Leaf arrangement (phyllotaxis): **alternate**
Leaf shape: **compound – interruptedly pinnate**
Stipules: **present**
Petiole: **present**
Leaf life span: **summer green**
Leaf anatomy: **mesomorphic, helomorphic**

Flower

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

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Flowering phase: **8 Clematis vitalba-Galium sylvaticum (mid-summer)**
Flower colour: **yellow-white**
Flower symmetry: **actinomorphic**
Perianth type: **calyx and corolla**
Perianth fusion: **free**
Calyx fusion: **aposepalous**
Inflorescence type: **anthella**
Dicliny: **synoecious, andromonoecious**
Generative reproduction type: **mixed mating**
Pollination syndrome: **insect-pollination, selfing**
Pollinator spectrum: **honeybee, bumblebees, unknown (other Hymenoptera, hoverflies, flies s. l., meat flies s. l., butterflies)**





Fruit, seed and dispersal

Fruit type: **dry fruit – head of achenes**
Fruit colour: **brown**
Reproduction type: **by seed/spores and vegetatively**
Dispersal unit (diaspore): **fruit, infrutescence or its part**
Dispersal strategy: **Allium (mainly autochory)**
Myrmecochory: **non-myrmecochorous (b)**



Belowground organs and clonality

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: **sympodial**
Primary root: **absent**
Persistence of the clonal growth organ [year]: **3.7**
Number of clonal offspring: **2.7**
Lateral spreading distance by clonal growth [m]: **0.11**
Clonal index: **4**
Position of root buds: **lateral roots**
Role of root buds in life-history of a plant: **regenerative**



Bud bank



Number of buds per shoot at the soil surface (root buds excluded): **5**
Number of buds per shoot at a depth of 0–10 cm (root buds excluded): **15**
Number of buds per shoot at a depth greater than 10 cm (root buds excluded): **1**
Size of the belowground bud bank (root buds excluded): **21**
Depth of the belowground bud bank (root buds exluded) [cm]: **4**
Number of buds per shoot at the soil surface (root buds included): **5**
Number of buds per shoot at a depth of 0–10 cm (root buds included): **17**
Number of buds per shoot at a depth greater than 10 cm (root buds included): **8**
Size of the belowground bud bank (root buds included): **30**
Depth of the belowground bud bank (root buds included) [cm]: **7**



Trophic mode



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

Karyology

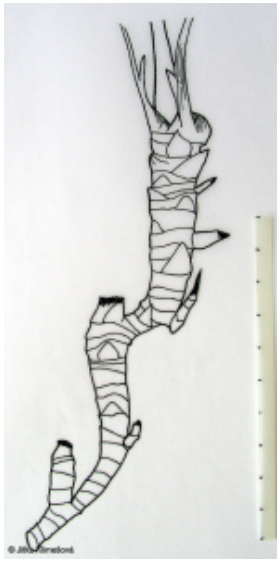


Chromosome number (2n): **14**
Ploidy level (x): **2**
2C genome size [Mbp]: **671.71**
1Cx monoploid genome size [Mbp]: **335.85**
Genomic GC content: **41.8 %**

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: **5x – moderate heat indicator, occurring from lowland to montane belt, mainly in submontane-temperate areas (generalist)**
Moisture indicator value: **8 – transition between values 7 and 9**
Reaction indicator value: **6x – transition between values 5 and 7 (generalist)**
Nutrient indicator value: **5 – occurring at moderately nutrient-rich sites, and less frequently at poor and rich sites**
Salinity indicator value: **1 – salt tolerant, mostly on low-salt to salt-free soils, but occasionally on slightly salty soils**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.06**
Herb layer disturbance frequency indicator value: **-0.45**
Whole-community disturbance severity indicator value: **0.28**
Herb layer disturbance severity indicator value: **0.29**
Whole-community structure based disturbance indicator value: **0.44**
Herb layer structure-based disturbance indicator value: **0.52**

Habitat and sociology

Occurrence in habitats

2 Alpine and subalpine grasslands

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

4 Wetland and riverine herbaceous vegetation

4A Reed-beds of eutrophic still waters: **1 – rare occurrence**
4B Halophilous reed and sedge beds: **1 – rare occurrence**
4D Riverine reed vegetation: **2 – optimum**
4E Reed vegetation of brooks: **1 – rare occurrence**

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4F Mesotrophic vegetation of muddy substrata: **1 – rare occurrence**
4G Tall-sedge beds: **2 – optimum**
4J River gravel banks: **1 – rare occurrence**
4K Petasites fringes of montane brooks: **2 – optimum**
4L Nitrophilous herbaceous fringes of lowland rivers: **1 – rare occurrence**

5 Vegetation of springs and mires

5B Lowland to montane soft-water springs: **1 – rare occurrence**
5C Alpine and subalpine soft-water springs: **1 – rare occurrence**
5D Calcareous fens: **2 – optimum**
5E Acidic moss-rich fens and peatland meadows: **2 – optimum**
5F Transitional mires: **1 – rare occurrence**

6 Meadows and mesic pastures

6A Mesic Arrhenatherum meadows: **1 – rare occurrence**
6B Montane mesic meadows: **1 – rare occurrence**
6C Pastures and park grasslands: **1 – rare occurrence**
6D Alluvial meadows of lowland rivers: **2 – optimum**
6E Wet Cirsium meadows: **3 – dominant**
6F Intermittently wet Molinia meadows: **2 – optimum**

7 Acidophilous grasslands

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

9 Sand grasslands and rock-outcrop vegetation

9E Acidophilous vegetation of spring therophytes and succulents: **1 – rare occurrence**

10 Saline vegetation

10J Saline steppes: **1 – rare occurrence**

11 Heathlands and scrub

11H Subalpine deciduous scrub: **1 – rare occurrence**
11I Willow carrs: **1 – rare occurrence**
11J Willow galleries of loamy and sandy river banks: **2 – optimum**
11L Tall mesic and xeric shrub: **1 – rare occurrence**
11R Scrub and pioneer woodland of forests clearings: **1 – rare occurrence**

12 Forests

12A Alder carrs: **2 – optimum**
12B Alluvial forests: **2 – optimum**
12U Plantations of broad-leaved non-native trees: **1 – rare occurrence**

13 Anthropogenic vegetation

13E Perennial nitrophilous herbaceous vegetation of mesic sites: **1 – rare occurrence**

Diagnostic taxon

Diagnostic taxon of associations: **LAA03 *Carici acutiformis-Alnetum glutinosae***, **TDF01 *Angelico sylvestris-Cirsietum oleracei***, **TDF12 *Filipendulo ulmariae-Geranietum palustris***, **TDF13 *Lysimachio vulgaris-Filipenduletum ulmariae***, **TDF14 *Chaerophyllo hirsuti-Filipenduletum ulmariae***

Constant taxon

Constant taxon of alliances: **LAA *Alnion glutinosae***, **TDF *Calthion palustris***, **XDB *Petasition hybridi***

Constant taxon of associations: **ADD04 *Laserpitio archangelicae-Dactylidetum glomeratae***, **KAB02 *Salicetum purpureae***, **LAA03 *Carici acutiformis-Alnetum glutinosae***, **LBA01 *Alnetum incanae***, **LBA03 *Carici remotae-Fraxinetum***

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excelsioris*, RBA01 *Valeriano dioicae-Caricetum davallianae*, TDF01 *Angelico sylvestris-Cirsietum oleracei*, TDF09 *Caricetum cespitosae*, TDF10 *Scirpo sylvatici-Caricetum brizoidis*, TDF12 *Filipendulo ulmariae-Geranietum palustris*, TDF13 *Lysimachio vulgaris-Filipenduletum ulmariae*, TDF14 *Chaerophyllo hirsuti-Filipenduletum ulmariae*, XDA01 *Cuscuto europaeae-Calystegietum sepium*, XDB01 *Petasitetum hybridi*, XDB02 *Petasitetum hybrido-kablikiani

Dominant taxon

Dominant taxon of associations: **LBA03 *Carici remotae-Fraxinetum excelsioris*, TDF10 *Scirpo sylvatici-Caricetum brizoidis*, TDF12 *Filipendulo ulmariae-Geranietum palustris*, TDF13 *Lysimachio vulgaris-Filipenduletum ulmariae*, TDF14 *Chaerophyllo hirsuti-Filipenduletum ulmariae***

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.7**
Ecological specialization index for non-forest vegetation: **5.1**
Ecological specialization index for forest vegetation: **5.3**

Colonization ability

Index of colonization success (ICS): **4**
Index of colonization potential (ICP): **1**
Optimum successional age [years]: **26.5**

Distribution and frequency

Floristic zone: **boreal, northern temperate, southern temperate, submeridional**
Floristic region: **Europe, Siberia**
Distribution range extension along the continentality gradient: **6**
Elevational belt in the Czech Republic: **lowlands, colline belt, submontane belt, montane belt**
Expansive taxon in the region: **Bohemian Thermophyticum, Bohemian Moravian Mesophyticum, Bohemian Moravian Oreophyticum, Pannonian Thermophyticum, Carpathian Mesophyticum, Carpathian Oreophyticum**
Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 657
taxon.data.freq_in_quad: 2343

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **6.7 %**
Occurrence frequency in vegetation plots with a cover above 5%: **28.2 %**
Occurrence frequency in vegetation plots with a cover above 25%: **17.8 %**
Occurrence frequency in vegetation plots with a cover above 50%: **12.8 %**
Mean percentage cover in vegetation plots: **14.8 %**
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: **33**
Number of narrow habitats in which the taxon has its optimum: **11**
Number of broad habitats in which the taxon occurs: **10**
Number of broad habitats in which the taxon has its optimum: **5**

Threats and protection

Legal protection: **not protected by law**

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