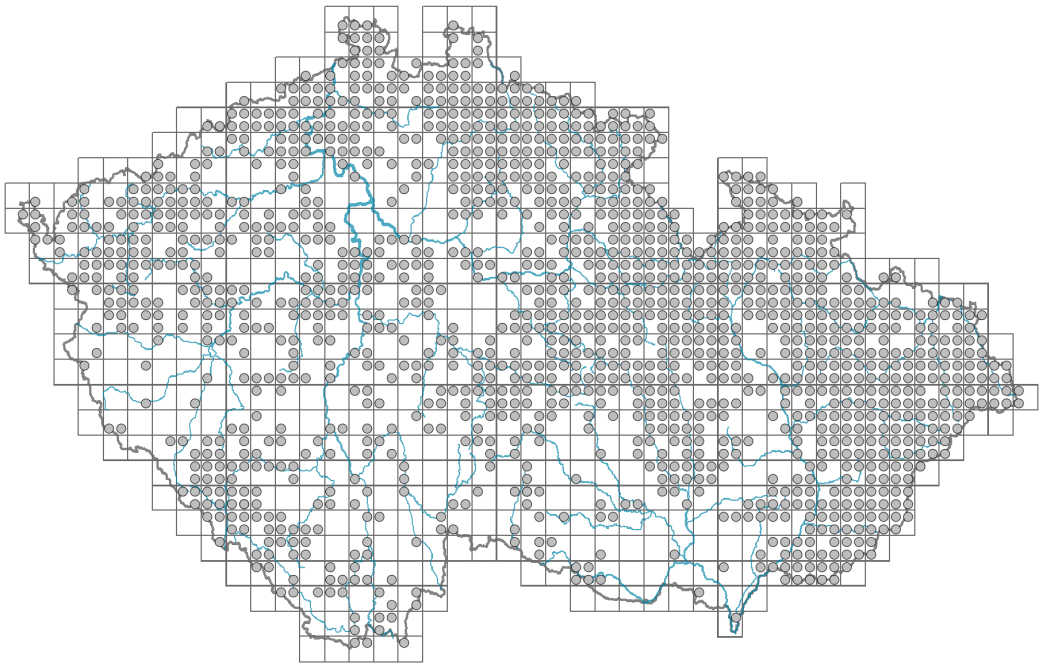
Petasites hybridus

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]: **0.1–1.3**
Growth form: **clonal herb**
Life form: **hemicryptophyte (geophyte)**
Life strategy: **CS – competitor/stress-tolerator**
Life strategy (Pierce method based on leaf traits): **C**
Life strategy (Pierce method, C-score): **85.9 %**
Life strategy (Pierce method, S-score): **4.7 %**
Life strategy (Pierce method, R-score): **9.4 %**

Leaf

Leaf presence and metamorphosis: **leaves present, not modified**
Leaf arrangement (phyllotaxis): **alternate**
Leaf shape: **simple – entire**
Stipules: **absent**
Petiole: **both present and absent**
Leaf life span: **summer green**
Leaf anatomy: **mesomorphic, helomorphic**

Flower

Flowering period [month]: **March–May**

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Flowering phase: **2 Acer platanoides-Anemone nemorosa (start of early spring)**
Flower colour: **pink**
Flower symmetry: **actinomorphic**
Perianth type: **calyx reduced, corolla present**
Perianth fusion: **fused**
Shape of the sympetalous corolla or syntepalous perianth: **tubular**
Calyx fusion: **pappus**
Inflorescence type: **racemus ex anthodiis compositus, panicula ex anthodiis composita**
Dicliny: **dioecious**
Generative reproduction type: **allogamy**
Pollination syndrome: **insect-pollination**





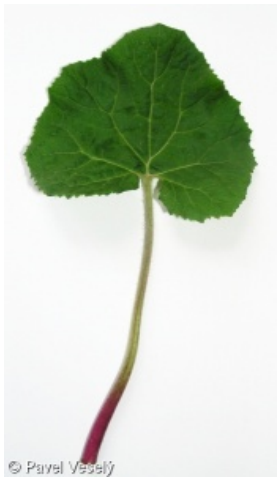
Fruit, seed and dispersal

Fruit type: **dry fruit – achene/cypsela/samara**
Fruit colour: **white, brown**
Reproduction type: **by seed/spores and vegetatively**
Dispersal unit (diaspore): **fruit, infrutescence or its part**
Dispersal strategy: **Phragmites (mainly anemochory and hydrochory)**
Myrmecochory: **probably myrmecochorous**



Belowground organs and clonality

Shoot metamorphosis: **stolon-like rhizome**
Storage organ: **stolon-like rhizome**
Type of clonal growth organ: **hypogeogenous rhizome**
Freely dispersible organs of clonal growth: **absent**
Shoot life span (cyclicity): **dicyclic or polycyclic shoots prevailing**
Branching type of stem-derived organs of clonal growth: **sympodial**
Primary root: **absent**
Persistence of the clonal growth organ [year]: **3.8**
Number of clonal offspring: **0.8**
Lateral spreading distance by clonal growth [m]: **0.25**
Clonal index: **5**



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): **5**
Size of the belowground bud bank (root buds excluded): **25**
Depth of the belowground bud bank (root buds exluded) [cm]: **6**
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): **15**
Number of buds per shoot at a depth greater than 10 cm (root buds included): **5**
Size of the belowground bud bank (root buds included): **25**
Depth of the belowground bud bank (root buds included) [cm]: **6**



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Trophic mode



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

Karyology



Chromosome number (2n): **60**
Ploidy level (x): **2**
2C genome size [Mbp]: **5230.54**
1Cx monoploid genome size [Mbp]: **2615.27**
Genomic GC content: **37.8 %**

Taxon origin



Origin in the Czech Republic: **native**

Ecological indicator values

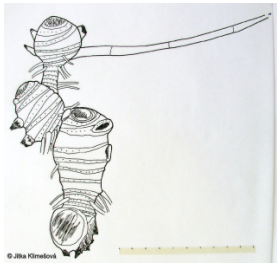
Ellenberg-type indicator values

Light indicator value: **7 – half-light plant, mostly occurring at full light, but also in the shade up to about 30% 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: **8 – transition between values 7 and 9**
Reaction indicator value: **7 – indicator of slightly acidic to slightly basic conditions, never occurring in very acidic conditions**
Nutrient indicator value: **8 – pronounced nutrient indicator**
Salinity indicator value: **0 – not salt tolerant, glycophyte**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.07**
Herb layer disturbance frequency indicator value: **-0.5**
Whole-community disturbance severity indicator value: **0.41**
Herb layer disturbance severity indicator value: **0.41**
Whole-community structure based disturbance indicator value: **0.37**
Herb layer structure-based disturbance indicator value: **0.4**





Habitat and sociology

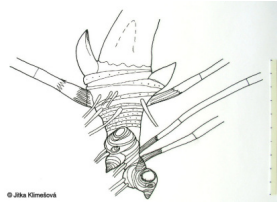
Occurrence in habitats

2 Alpine and subalpine grasslands

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

4 Wetland and riverine herbaceous vegetation

4D Riverine reed vegetation: **3 – dominant**
4E Reed vegetation of brooks: **1 – rare occurrence**
4G Tall-sedge beds: **1 – rare occurrence**
4I Vegetation of nitrophilous annual hygrophilous herbs: **1 – rare occurrence**
4J River gravel banks: **1 – rare occurrence**



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4K Petasites fringes of montane brooks: **3 – dominant**
4L Nitrophilous herbaceous fringes of lowland rivers: **1 – rare occurrence**

5 Vegetation of springs and mires

5A Hard-water springs with tufa formation: **1 – rare occurrence**
5B Lowland to montane soft-water springs: **1 – rare occurrence**
5D Calcareous fens: **1 – rare occurrence**

6 Meadows and mesic pastures

6E Wet Cirsium meadows: **1 – rare occurrence**

11 Heathlands and scrub

11J Willow galleries of loamy and sandy river banks: **2 – optimum**
11R Scrub and pioneer woodland of forests clearings: **1 – rare occurrence**

12 Forests

12B Alluvial forests: **2 – optimum**

13 Anthropogenic vegetation

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

Affinity to the forest environment

Affinity to the forest environment in Thermophyticum: **2.2 – taxon occurring partly in the forest, but mainly in open vegetation**
Affinity to the forest environment in Mesophyticum and Oreophyticum: **2.2 – taxon occurring partly in the forest, but mainly in open vegetation**

Diagnostic taxon

Diagnostic taxon of classes: **XD *Galio-Urticetea***
Diagnostic taxon of alliances: **KAB *Salicion elaeagno-daphnoidis***, **XDB *Petasition hybridi***
Diagnostic taxon of associations: **KAB01 *Salicetum elaeagno-purpureae***, **KAB02 *Salicetum purpureae***, **XDB01 *Petasitetum hybridi***

Constant taxon

Constant taxon of alliances: **KAB *Salicion elaeagno-daphnoidis***, **XDB *Petasition hybridi***
Constant taxon of associations: **KAB02 *Salicetum purpureae***, **XDB01 *Petasitetum hybridi***

Dominant taxon

Dominant taxon of associations: **XDB01 *Petasitetum hybridi***

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.6**
Ecological specialization index for non-forest vegetation: **4.7**
Ecological specialization index for forest vegetation: **5.6**

Colonization ability

Index of colonization success (ICS): **3**
Index of colonization potential (ICP): **2**
Optimum successional age [years]: **17.5**

Distribution and frequency

Floristic zone: **northern temperate, southern temperate, submeridional, meridional**

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Floristic region: **Europe**
Continentality degree: **5**
Distribution range extension along the continentality gradient: **3**
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**
Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 539
taxon.data.freq_in_quad: 1395

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **1.1 %**
Occurrence frequency in vegetation plots with a cover above 5%: **73.5 %**
Occurrence frequency in vegetation plots with a cover above 25%: **64.6 %**
Occurrence frequency in vegetation plots with a cover above 50%: **54.5 %**
Mean percentage cover in vegetation plots: **48.4 %**
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: **17**
Number of narrow habitats in which the taxon has its optimum: **5**
Number of broad habitats in which the taxon occurs: **7**
Number of broad habitats in which the taxon has its optimum: **4**

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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