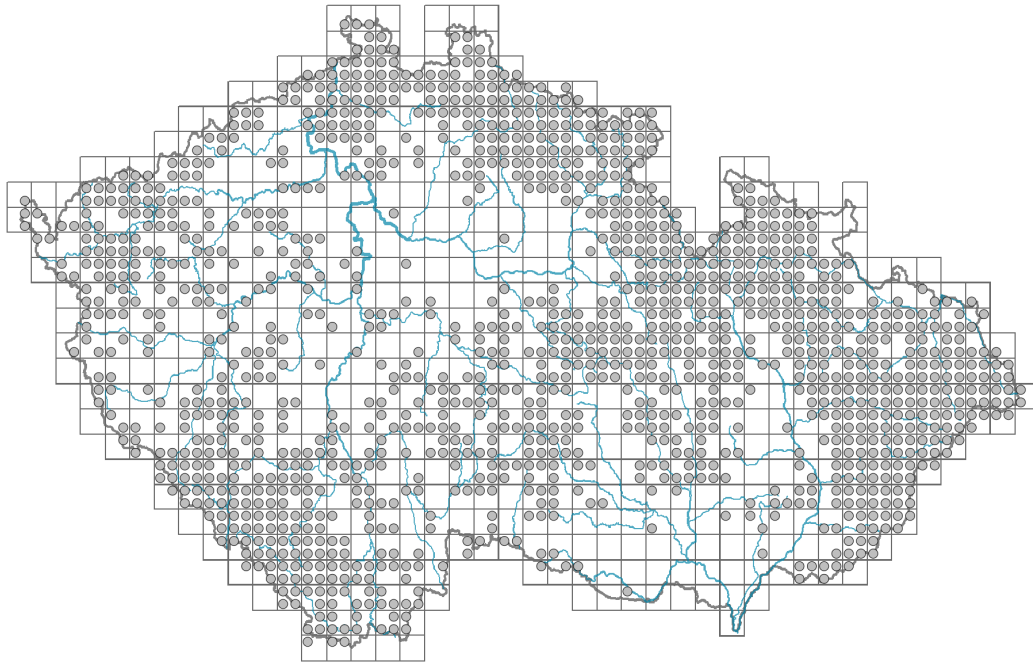


Petasites albus

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]: **0.1-0.8**

Growth form: **clonal herb**

Life form: **hemicryptophyte (geophyte)**

Life strategy: **CS - competitor/stress-tolerator**

Life strategy (Pierce method based on leaf traits): **C/CR**

Life strategy (Pierce method, C-score): **76.8 %**

Life strategy (Pierce method, S-score): **0 %**

Life strategy (Pierce method, R-score): **23.2 %**

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: **hygromorphic**

Flower

Flowering period [month]: **February-May**

Flowering phase: **2 Acer platanoides-Anemone nemorosa (start of early spring)**

Flower colour: **white**

Flower symmetry: **actinomorphic**

Perianth type: **calyx reduced, corolla present**

Perianth fusion: **fused**

Shape of the sympetalous corolla or syntepalous perianth: **tubular**

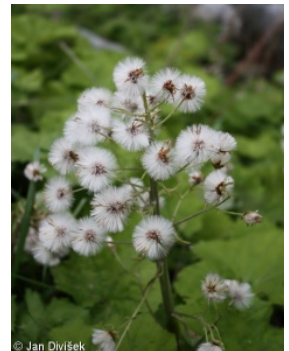
Calyx fusion: **pappus**

Inflorescence type: **racemus ex anthodiis compositus, panícula 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: **yellow, 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: **rhizome**

Storage organ: **rhizome**

Type of clonal growth organ: **epigeogenous 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]: **3.3**

Number of clonal offspring: **0.8**

Lateral spreading distance by clonal growth [m]: **0.13**

Clonal index: **4**

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): **0**

Size of the belowground bud bank (root buds excluded): **20**

Depth of the belowground bud bank (root buds excluded) [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): **15**

Number of buds per shoot at a depth greater than 10 cm (root buds included): **0**

Size of the belowground bud bank (root buds included): **20**

Depth of the belowground bud bank (root buds included) [cm]: **4**



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]: **5239.14**

1Cx monoploid genome size [Mbp]: **2619.57**

Genomic GC content: **37.6 %**

Taxon origin

Origin in the Czech Republic: **native**

Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **4x - transition between values 3 and 5 (generalist)**

Temperature indicator value: **4 - transition between values 3 and 5**

Moisture indicator value: **7 - humidity indicator, focus on well moistened, but not wet soils**

Reaction indicator value: **6x - transition between values 5 and 7 (generalist)**

Nutrient indicator value: **6 - transition between values 5 and 7**

Salinity indicator value: **0 - not salt tolerant, glycophyte**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.74**

Herb layer disturbance frequency indicator value: **-0.63**

Whole-community disturbance severity indicator value: **0.29**

Herb layer disturbance severity indicator value: **0.21**

Whole-community structure based disturbance indicator value: **0.2**

Herb layer structure-based disturbance indicator value: **0.23**

Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

1B Siliceous cliffs and block fields: **1 - rare occurrence**

2 Alpine and subalpine grasslands

2B Subalpine tall-forb and tall-grass vegetation: **3 - dominant**

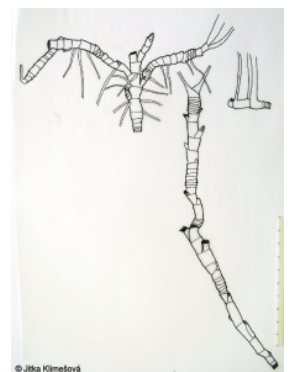
4 Wetland and riverine herbaceous vegetation

4D Riverine reed vegetation: **1 - rare occurrence**

4E Reed vegetation of brooks: **1 - rare occurrence**

4K Petasites fringes of montane brooks: **3 - dominant**

5 Vegetation of springs and mires



- 5A Hard-water springs with tufa formation: **1 - rare occurrence**
 5B Lowland to montane soft-water springs: **3 - dominant**
 5C Alpine and subalpine soft-water springs: **1 - rare occurrence**
 6 Meadows and mesic pastures
 6E Wet Cirsium meadows: **1 - rare occurrence**
 8 Dry grasslands
 8F Thermophilous forest fringe vegetation: **1 - rare occurrence**
 11 Heathlands and scrub
 11D Subalpine acidophilous Pinus mugo scrub: **1 - rare occurrence**
 11H Subalpine deciduous scrub: **1 - rare occurrence**
 11J Willow galleries of loamy and sandy river banks: **1 - rare occurrence**
 11R Scrub and pioneer woodland of forests clearings: **2 - optimum**
 12 Forests
 12B Alluvial forests: **2 - optimum**
 12C Oak-hornbeam forests: **1 - rare occurrence**
 12D Ravine forests: **2 - optimum**
 12E Herb-rich beech forests: **2 - optimum**
 12F Limestone beech forests: **2 - optimum**
 12G Acidophilous beech forests: **1 - rare occurrence**
 12R Acidophilous spruce forests: **1 - rare occurrence**
 12S Basiphilous spruce forests: **2 - optimum**
 12U Plantations of broad-leaved non-native trees: **1 - rare occurrence**
 12V Spruce plantations: **1 - rare occurrence**
 13 Anthropogenic vegetation
 13E Perennial nitrophilous herbaceous vegetation of mesic sites: **2 - optimum**
 13F Herbaceous vegetation of forests clearings and Rubus scrub: **1 - rare occurrence**
 Affinity to the forest environment
 Affinity to the forest environment in Thermophyticum: **2.1 - taxon occurring both in the forest and open vegetation**
 Affinity to the forest environment in Mesophyticum and Oreophyticum: **2.1 - taxon occurring both in the forest and open vegetation**
 Diagnostic taxon
 Diagnostic taxon of classes: [RA Montio-Cardaminetea](#)
 Diagnostic taxon of alliances: [RAA Caricion remotae](#)
 Diagnostic taxon of associations: [ADD05 Chaerophyllo hirsuti-Cicerbitetum alpinae](#), [LBA01 Alnetum incanae](#), [LFC03 Equiseto sylvatici-Piceetum abietis](#), [RAA02 Cardamino-Chrysosplenietum alternifolii](#), [XDC04 Carici pendulae-Eupatorietum cannabini](#)
 Constant taxon
 Constant taxon of alliances: [RAA Caricion remotae](#)
 Constant taxon of associations: [ADD05 Chaerophyllo hirsuti-Cicerbitetum alpinae](#), [LBA01 Alnetum incanae](#), [LFC03 Equiseto sylvatici-Piceetum abietis](#), [RAA02 Cardamino-Chrysosplenietum alternifolii](#), [XDC04 Carici pendulae-Eupatorietum cannabini](#)
 Dominant taxon
 Dominant taxon of associations: [ADD05 Chaerophyllo hirsuti-Cicerbitetum alpinae](#), [LBA01 Alnetum incanae](#), [LBD01 Cephalanthero damasonii-Fagetum sylvaticae](#),

[RAA02 Cardamino-Chrysosplenietum alternifolii](#), [XDC04 Carici pendulae-Eupatorietum cannabini](#), [XDE06 Anthrisko nitidae-Aegopodietum podagrariae](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **5.1**

Ecological specialization index for non-forest vegetation: **4.6**

Ecological specialization index for forest vegetation: **5.8**

Colonization ability

Index of colonization success (ICS): **4**

Index of colonization potential (ICP): **1**

Optimum successional age [years]: **3.5**

Distribution and frequency

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

Floristic region: **Europe**

Continental degree: **5**

Distribution range extension along the continentality gradient: **3**

Elevational belt in the Czech Republic: **submontane belt, montane belt**

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: **520**

taxon.data.freq_in_quad: **1334**

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **1.8 %**

Occurrence frequency in vegetation plots with a cover above 5%: **43.1 %**

Occurrence frequency in vegetation plots with a cover above 25%: **22.9 %**

Occurrence frequency in vegetation plots with a cover above 50%: **10.1 %**

Mean percentage cover in vegetation plots: **15.9 %**

Maximum percentage cover in vegetation plots: **88 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **26**

Number of narrow habitats in which the taxon has its optimum: **10**

Number of broad habitats in which the taxon occurs: **9**

Number of broad habitats in which the taxon has its optimum: **6**

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**