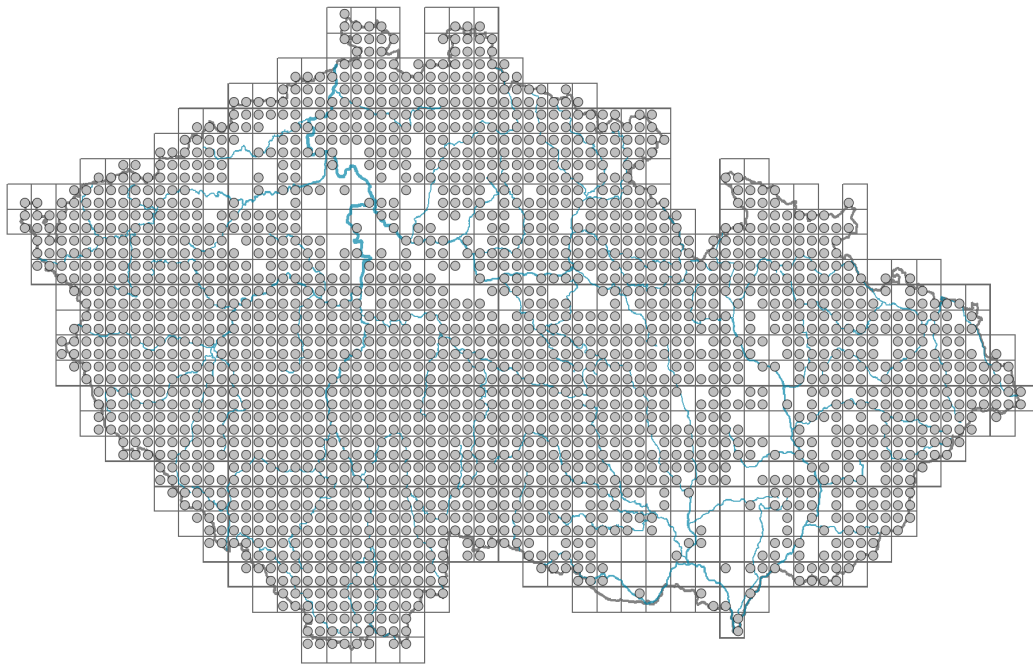


Cirsium palustre

Distribution



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Map info

● revised records

○ unrevised records

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



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Habitus and growth type

Height [m]: **0.6-2.6**

Growth form: **monocarpic perennial non-clonal herb**

Life form: **hemicryptophyte**

Life strategy: **C - competitor**

Leaf

Leaf presence and metamorphosis: **leaves present, not modified**

Leaf arrangement (phyllotaxis): **alternate, rosulate**

Leaf shape: **simple - pinnately divided**

Stipules: **absent**

Petiole: **both present and absent**

Leaf life span: **evergreen**

Leaf anatomy: **mesomorphic, helomorphic**

Flower

Flowering period [month]: **June-October**

Flowering phase: **7 Ligustrum vulgare-Stachys sylvatica (end of early summer)**

Flower colour: **red-violet**

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**

Dicliny: **gynodioecious**

Generative reproduction type: **mixed mating**

Pollination syndrome: **insect-pollination**

Pollinator spectrum: **bumblebees, hoverflies, other Diptera (honeybee, solitary bees, other Hymenoptera, flies s. l., meat flies s. l., butterflies, beetles, nitidulids, other pollinators, unknown)**

Fruit, seed and dispersal

Fruit type: **dry fruit - achene/cypsela/samara**

Fruit colour: **white, yellow, brown, grey**

Reproduction type: **only by seed/spores**

Dispersal unit (diaspore): **fruit, infrutescence or its part**

Dispersal strategy: **Epilobium (mainly anemochory and autochory)**

Myrmecochory: **myrmecochorous**



Belowground organs and clonality

Shoot metamorphosis: **rhizome**

Storage organ: **rhizome**

Shoot life span (cyclicality): **dicyclic or polycyclic shoots prevailing**

Primary root: **absent**

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): **8**

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): **13**

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

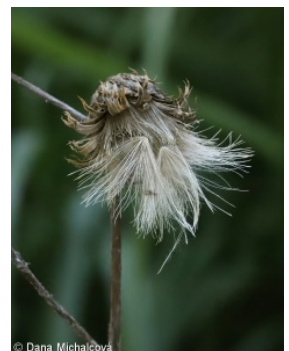
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Size of the belowground bud bank (root buds included): **13**

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



Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

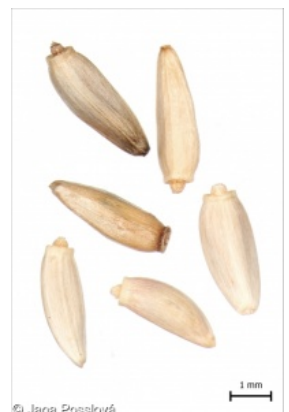
Symbiotic nitrogen fixation: **no nitrogen-fixing symbionts**

Karyology

Chromosome number (2n): **34**

Ploidy level (x): **2**

2C genome size [Mbp]: **2236.39**



1Cx monoploid genome size [Mbp]: **1118.2**

Genomic GC content: **39.1 %**

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: **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: **4 - transition between values 3 and 5**

Nutrient indicator value: **5 - occurring at moderately nutrient-rich sites, and less frequently at poor and rich sites**

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

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-0.87**

Herb layer disturbance frequency indicator value: **-0.49**

Whole-community disturbance severity indicator value: **0.26**

Herb layer disturbance severity indicator value: **0.28**

Whole-community structure based disturbance indicator value: **0.48**

Herb layer structure-based disturbance indicator value: **0.59**

Habitat and sociology

Occurrence in habitats

2 Alpine and subalpine grasslands

2A Alpine grasslands on siliceous bedrock: **1 - rare occurrence**

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

3 Aquatic vegetation

3C Macrophytic vegetation of oligotrophic lakes and pools: **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**

4C Eutrophic vegetation of muddy substrata: **1 - rare occurrence**

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

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

4F Mesotrophic vegetation of muddy substrata: **1 - rare occurrence**

4G Tall-sedge beds: **2 - optimum**

4H Vegetation of low annual hygrophilous herbs: **1 - rare occurrence**

4J River gravel banks: **1 - rare occurrence**

4K Petasites fringes of montane brooks: **1 - rare occurrence**

5 Vegetation of springs and mires

5B Lowland to montane soft-water springs: **1 - rare occurrence**



- 5D Calcareous fens: **2 - optimum**
5E Acidic moss-rich fens and peatland meadows: **2 - optimum**
5F Transitional mires: **2 - optimum**
5G Raised bogs: **1 - rare occurrence**
5H Wet peat soils and bog hollows: **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: **2 - optimum**
6F Intermittently wet Molinia meadows: **2 - optimum**
6G Vegetation of wet disturbed soils: **1 - rare occurrence**
- 7 Acidophilous grasslands
7A Subalpine and montane acidophilous grasslands: **1 - rare occurrence**
7B Submontane Nardus grasslands: **2 - optimum**
- 8 Dry grasslands
8F Thermophilous forest fringe vegetation: **1 - rare occurrence**
- 10 Saline vegetation
10I Inland saline meadows: **1 - rare occurrence**
10J Saline steppes: **1 - rare occurrence**
- 11 Heathlands and scrub
11A Dry lowland to subalpine heathlands: **1 - rare occurrence**
11D Subalpine acidophilous Pinus mugo scrub: **1 - rare occurrence**
11H Subalpine deciduous scrub: **1 - rare occurrence**
11I Willow carrs: **1 - rare occurrence**
11J Willow galleries of loamy and sandy river banks: **1 - rare occurrence**
11R Scrub and pioneer woodland of forests clearings: **1 - rare occurrence**
- 12 Forests
12A Alder carrs: **1 - rare occurrence**
12B Alluvial forests: **1 - rare occurrence**
12C Oak-hornbeam forests: **1 - rare occurrence**
12D Ravine forests: **1 - rare occurrence**
12E Herb-rich beech forests: **1 - rare occurrence**
12F Limestone beech forests: **1 - rare occurrence**
12G Acidophilous beech forests: **1 - rare occurrence**
12I Sub-continental thermophilous oak forests: **1 - rare occurrence**
12K Acidophilous oak forests: **1 - rare occurrence**
12L Boreo-continental pine forests: **1 - rare occurrence**
12Q Peatland birch forests: **1 - rare occurrence**
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: **1 - rare occurrence**
- 13 Anthropogenic vegetation
13D Perennial thermophilous ruderal vegetation: **1 - rare occurrence**
13E Perennial nitrophilous herbaceous vegetation of mesic sites: **1 - rare occurrence**

13F Herbaceous vegetation of forests clearings and Rubus scrub: **2 - optimum**

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 alliances: [RBB *Sphagno warnstorffii-Tomentypnion nitentis*](#)

Diagnostic taxon of associations: [TDF03 *Angelico sylvestris-Cirsietum palustris*](#),
[TDF04 *Crepido paludosae-Juncetum acutiflori*](#)

Constant taxon

Constant taxon of alliances: [RBC *Caricion canescenti-nigrae*](#), [TDD *Molinion caeruleae*](#), [TDF *Calthion palustris*](#)

Constant taxon of associations: [LAA01 *Thelypterido palustris-Alnetum glutinosae*](#),
[LAB01 *Salicetum auritae*](#), [MCH01 *Caricetum acutiformi-paniculatae*](#), [RBB01 *Sphagno warnstorffii-Eriophoretum latifolii*](#), [RBB02 *Campylio stellati-Trichophoretum alpini*](#),
[RBC01 *Caricetum nigrae*](#), [TDD01 *Molinietum caeruleae*](#), [TDD02 *Junco effusi-Molinietum caeruleae*](#),
[TDF01 *Angelico sylvestris-Cirsietum oleracei*](#), [TDF03 *Angelico sylvestris-Cirsietum palustris*](#), [TDF04 *Crepido paludosae-Juncetum acutiflori*](#),
[TDF05 *Polygono bistortae-Cirsietum heterophylli*](#), [TDF08 *Scirpetum sylvatici*](#),
[TDF09 *Caricetum cespitosae*](#), [TDF10 *Scirpo sylvatici-Caricetum brizoidis*](#),
[TDF13 *Lysimachio vulgaris-Filipenduletum ulmariae*](#),
[XDB02 *Petasitetum hybrido-kablikiani*](#)

Ecological specialization indices

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

Ecological specialization index for non-forest vegetation: **5.4**

Ecological specialization index for forest vegetation: **4.8**

Colonization ability

Index of colonization success (ICS): **7**

Index of colonization potential (ICP): **4**

Optimum successional age [years]: **9**

Distribution and frequency

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

Floristic region: **Europe, Western Siberia**

Distribution range extension along the continentality gradient: **5**

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

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: **645**

taxon.data.freq_in_quad: **2157**

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **5.7 %**

Occurrence frequency in vegetation plots with a cover above 5%: **8.1 %**

Occurrence frequency in vegetation plots with a cover above 25%: **0.7 %**

Occurrence frequency in vegetation plots with a cover above 50%: **0 %**

Mean percentage cover in vegetation plots: **3 %**

Maximum percentage cover in vegetation plots: **38 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **55**

Number of narrow habitats in which the taxon has its optimum: **9**

Number of broad habitats in which the taxon occurs: **11**

Number of broad habitats in which the taxon has its optimum: **5**

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**