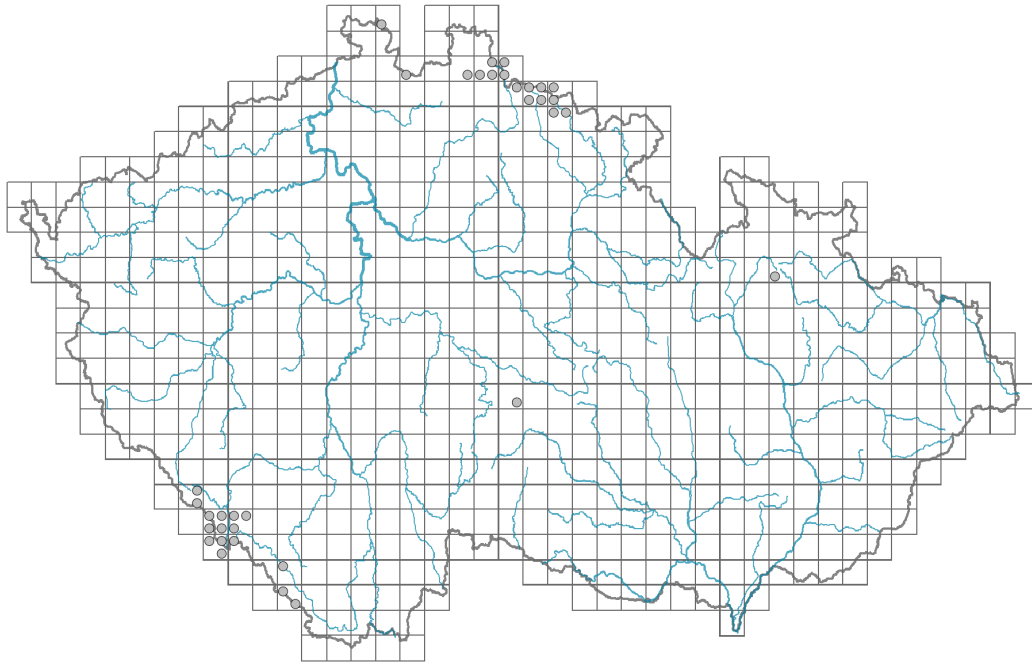


# *Trichophorum cespitosum*

## 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]: **0.05-0.35**

Growth form: **clonal herb**

Life form: **hemicryptophyte**

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

Life strategy (Pierce method based on leaf traits): **S/SR**

Life strategy (Pierce method, C-score): **11.3 %**

Life strategy (Pierce method, S-score): **67.9 %**

Life strategy (Pierce method, R-score): **20.8 %**

## Leaf

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

Leaf arrangement (phyllotaxis): **alternate**

Leaf shape: **simple - entire**

Stipules: **absent**

Petiole: **absent**

Leaf anatomy: **scleromorphic, helomorphic**

## Flower

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

Flowering phase: **3 Prunus avium-Ranunculus auricomus (end of early spring)**

Flower colour: **brown**  
Perianth type: **reduced**  
Perianth fusion: **reduced**  
Inflorescence type: **spicula**  
Dicliny: **synoecious, gynodioecious**  
Generative reproduction type: **facultative allogamy**  
Pollination syndrome: **wind-pollination**

### **Fruit, seed and dispersal**

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

### **Belowground organs and clonality**

Shoot metamorphosis: **rhizome**  
Storage organ: **rhizome, tuft**  
Type of clonal growth organ: **hypogeogenous rhizome**  
Freely dispersible organs of clonal growth: **absent**  
Shoot life span (cyclicality): **monocyclic shoots prevailing**  
Branching type of stem-derived organs of clonal growth: **sympodial**  
Primary root: **absent**  
Persistence of the clonal growth organ [year]: **4**  
Number of clonal offspring: **3.5**  
Lateral spreading distance by clonal growth [m]: **0.01**  
Clonal index: **4**

### **Bud bank**

Number of buds per shoot at the soil surface (root buds excluded): **3**  
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): **18**  
Depth of the belowground bud bank (root buds excluded) [cm]: **4**  
Number of buds per shoot at the soil surface (root buds included): **3**  
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): **18**  
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): **104**

Ploidy level (x): **2**

2C genome size [Mbp]: **610.7**

1Cx monoploid genome size [Mbp]: **305.35**

Genomic GC content: **37.4 %**

## Taxon origin

Origin in the Czech Republic: **native**

## Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **8 - light plant, only exceptionally occurring at less than 40% of diffuse radiation incident in an open area**

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

Moisture indicator value: **9 - wetness indicator, focus on often soaked, poorly aerated soils**

Reaction indicator value: **1 - indicator of strong acidity, never occurring in slightly acidic to alkaline conditions**

Nutrient indicator value: **1 - occurring at nutrient-poorest sites**

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

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.76**

Herb layer disturbance frequency indicator value: **-1.72**

Whole-community disturbance severity indicator value: **0.05**

Herb layer disturbance severity indicator value: **0.09**

Whole-community structure based disturbance indicator value: **0.61**

Herb layer structure-based disturbance indicator value: **0.54**

## Habitat and sociology

Occurrence in habitats

2 Alpine and subalpine grasslands

2A Alpine grasslands on siliceous bedrock: **2 - optimum**

5 Vegetation of springs and mires

5C Alpine and subalpine soft-water springs: **2 - optimum**

5E Acidic moss-rich fens and peatland meadows: **1 - rare occurrence**

5F Transitional mires: **1 - rare occurrence**

5G Raised bogs: **2 - optimum**

5H Wet peat soils and bog hollows: **1 - rare occurrence**

Affinity to the forest environment

Affinity to the forest environment in Thermophyticum: **0 - taxon that does not spontaneously occur in Czech forests**

Affinity to the forest environment in Mesophyticum and Oreophyticum: **0 - taxon that does not spontaneously occur in Czech forests**

## Diagnostic taxon

Diagnostic taxon of classes: [RC \*Oxycocco-Sphagnetea\*](#)

Diagnostic taxon of alliances: [RCB \*Oxycocco palustris-Ericion tetralicis\*](#), [RCC \*Oxycocco microcarpi-Empetrium hermaphroditi\*](#)

Diagnostic taxon of associations: [RAD02 \*Swertietum perennis\*](#), [RBC04 \*Bartsia alpinae-Caricetum nigrae\*](#), [RBC05 \*Calliergo sarmentosi-Eriophoretum angustifolii\*](#), [RCB01 \*Trichophoro cespitosi-Sphagnetum papilloso\*](#), [RCC01 \*Trichophoro cespitosi-Sphagnetum compacti\*](#)

## Constant taxon

Constant taxon of alliances: [RCB \*Oxycocco palustris-Ericion tetralicis\*](#), [RCC \*Oxycocco microcarpi-Empetrium hermaphroditi\*](#)

Constant taxon of associations: [RBC05 \*Calliergo sarmentosi-Eriophoretum angustifolii\*](#), [RCB01 \*Trichophoro cespitosi-Sphagnetum papilloso\*](#), [RCC01 \*Trichophoro cespitosi-Sphagnetum compacti\*](#)

## Dominant taxon

Dominant taxon of associations: [RBC05 \*Calliergo sarmentosi-Eriophoretum angustifolii\*](#), [RBE01 \*Drepanoclado fluitantis-Caricetum limosae\*](#), [RCB01 \*Trichophoro cespitosi-Sphagnetum papilloso\*](#), [RCC01 \*Trichophoro cespitosi-Sphagnetum compacti\*](#)

## Ecological specialization indices

Ecological specialization index for all vegetation types: **6.5**

Ecological specialization index for non-forest vegetation: **6.6**

## Colonization ability

Index of colonization success (ICS): **1**

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

## Distribution and frequency

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

Floristic region: **circumpolar**

Distribution range extension along the continentality gradient: **7**

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

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: **18**

taxon.data.freq\_in\_quad: **35**

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.2 %**

Occurrence frequency in vegetation plots with a cover above 5%: **56 %**

Occurrence frequency in vegetation plots with a cover above 25%: **30 %**

Occurrence frequency in vegetation plots with a cover above 50%: **8 %**

Mean percentage cover in vegetation plots: **18.6 %**

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: **6**

Number of narrow habitats in which the taxon has its optimum: **3**

Number of broad habitats in which the taxon occurs: **2**

Number of broad habitats in which the taxon has its optimum: **2**

## **Threats and protection**

Red List 2017 (national categories): **C3 - vulnerable taxon**

Red List 2017 (IUCN categories): **NT - near threatened**

Legal protection: **not protected by law**