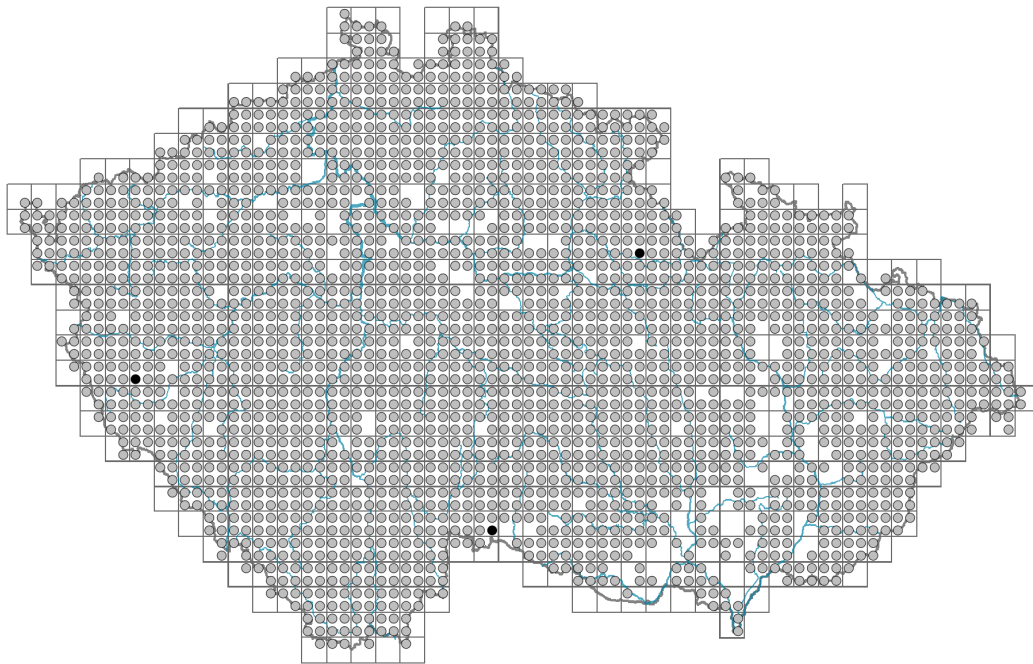


# *Agrostis capillaris*

## 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**

Life strategy: **CSR - competitor/stress-tolerator/ruderal**

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

Life strategy (Pierce method, C-score): **12.1 %**

Life strategy (Pierce method, S-score): **37.7 %**

Life strategy (Pierce method, R-score): **50.2 %**

## Leaf

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

Leaf arrangement (phyllotaxis): **alternate**

Leaf shape: **simple - entire**

Stipules: **absent**

Petiole: **absent**

Leaf life span: **summer green**

Leaf anatomy: **mesomorphic**

## Flower

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

Flowering phase: **8 Clematis vitalba-Galium sylvaticum (mid-summer)**

Flower colour: **green**

Perianth type: **reduced**

Perianth fusion: **reduced**

Inflorescence type: **panicula e spiculis composita**

Dicliny: **synoecious**

Generative reproduction type: **allogamy self-incompatibility, facultative allogamy**

Pollination syndrome: **wind-pollination**

## Fruit, seed and dispersal

Fruit type: **dry fruit - caryopsis**

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 (a)**

## Belowground organs and clonality

Shoot metamorphosis: **stolon**

Storage organ: **stolon**

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]: **0.08**

Clonal index: **4**

## Bud bank

Number of buds per shoot at the soil surface (root buds excluded): **6**

Number of buds per shoot at a depth of 0–10 cm (root buds excluded): **13**

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): **19**

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

Number of buds per shoot at the soil surface (root buds included): **6**

Number of buds per shoot at a depth of 0–10 cm (root buds included): **13**

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): **19**

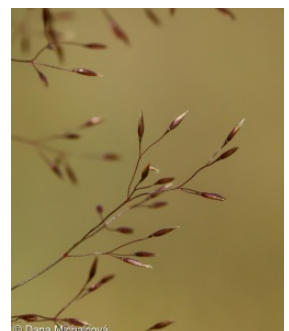
Depth of the belowground bud bank (root buds included) [cm]: **4**

## Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

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



## Karyology

Chromosome number (2n): **28**

Ploidy level (x): **4**

2C genome size [Mbp]: **5763.83**

1Cx monoploid genome size [Mbp]: **1440.96**

Genomic GC content: **47.2 %**

## 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: **4x - transition between values 3 and 5 (generalist)**

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

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

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

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1**

Herb layer disturbance frequency indicator value: **-0.37**

Whole-community disturbance severity indicator value: **0.35**

Herb layer disturbance severity indicator value: **0.36**

Whole-community structure based disturbance indicator value: **0.44**

Herb layer structure-based disturbance indicator value: **0.58**

## Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

1B Siliceous cliffs and block fields: **2 - optimum**

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**

4 Wetland and riverine herbaceous vegetation

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

4G Tall-sedge beds: **1 - rare occurrence**

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

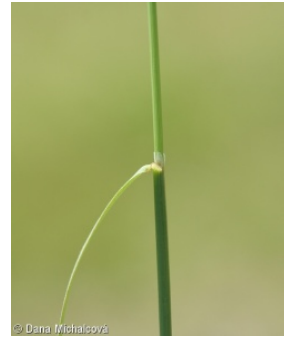
4J River gravel banks: **1 - rare occurrence**

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

5 Vegetation of springs and mires

5C Alpine and subalpine soft-water springs: **1 - rare occurrence**

5D Calcareous fens: **1 - rare occurrence**



- 5E Acidic moss-rich fens and peatland meadows: **1 - rare occurrence**  
5F Transitional mires: **1 - rare occurrence**  
5G Raised bogs: **1 - rare occurrence**  
6 Meadows and mesic pastures  
6A Mesic Arrhenatherum meadows: **2 - optimum**  
6B Montane mesic meadows: **4 - constant dominant**  
6C Pastures and park grasslands: **4 - constant dominant**  
6D Alluvial meadows of lowland rivers: **1 - rare occurrence**  
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: **4 - constant dominant**  
7B Submontane Nardus grasslands: **4 - constant dominant**  
8 Dry grasslands  
8D Broad-leaved dry grasslands: **1 - rare occurrence**  
8E Acidophilous dry grasslands: **3 - dominant**  
8F Thermophilous forest fringe vegetation: **1 - rare occurrence**  
9 Sand grasslands and rock-outcrop vegetation  
9B Open vegetation of acidic sands: **2 - optimum**  
9C Festuca grasslands on acidic sands: **4 - constant dominant**  
9D Pannonian sand steppes: **1 - rare occurrence**  
9E Acidophilous vegetation of spring therophytes and succulents: **1 - rare occurrence**  
11 Heathlands and scrub  
11A Dry lowland to subalpine heathlands: **2 - optimum**  
11D Subalpine acidophilous Pinus mugo scrub: **1 - rare occurrence**  
11H Subalpine deciduous scrub: **1 - rare occurrence**  
11L Tall mesic and xeric shrub: **1 - rare occurrence**  
11N Low xeric scrub: **1 - rare occurrence**  
11R Scrub and pioneer woodland of forests clearings: **2 - optimum**  
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**  
12H Peri-Alpidic basiphilous thermophilous oak forests: **1 - rare occurrence**  
12I Sub-continental thermophilous oak forests: **1 - rare occurrence**  
12J Acidophilous thermophilous oak forests: **1 - rare occurrence**  
12K Acidophilous oak forests: **1 - rare occurrence**  
12L Boreo-continental pine forests: **2 - optimum**  
12O Peri-Alpidic pine forests: **1 - rare occurrence**  
12P Peatland pine forests: **1 - rare occurrence**  
12Q Peatland birch forests: **1 - rare occurrence**  
12R Acidophilous spruce forests: **1 - rare occurrence**



12T Robinia pseudacacia plantations: **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

13A Annual vegetation of ruderal habitats: **1 - rare occurrence**

13B Annual vegetation of arable land: **1 - rare occurrence**

13C Annual vegetation of trampled habitats: **1 - rare occurrence**

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: **2.1 - 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 alliances: [TDB \*Polygono bistortae-Trisetion flavescentis\*](#), [TEB \*Nardo strictae-Agrostion tenuis\*](#), [TEC \*Violion caninae\*](#)

Diagnostic taxon of associations: [TDB01 \*Geranio sylvatici-Trisetetum flavescentis\*](#), [TDF05 \*Polygono bistortae-Cirsietum heterophylli\*](#), [TEB01 \*Sileno vulgaris-Nardetum strictae\*](#), [TEC02 \*Campanulo rotundifoliae-Dianthetum deltoidis\*](#), [TFB01 \*Airetum praecocis\*](#)

### Constant taxon

Constant taxon of classes: [TE \*Calluno-Ulicetea\*](#), [XE \*Epilobietea angustifolii\*](#)

Constant taxon of alliances: [TDB \*Polygono bistortae-Trisetion flavescentis\*](#), [TDD \*Molinion caeruleae\*](#), [TEB \*Nardo strictae-Agrostion tenuis\*](#), [TEC \*Violion caninae\*](#), [TED \*Nardo strictae-Juncion squarrosi\*](#), [TFA \*Corynephorion canescentis\*](#), [TFB \*Thero-Airion\*](#), [TFC \*Armerion elongatae\*](#), [THI \*Trifolion medii\*](#), [XEA \*Fragarion vescae\*](#)

Constant taxon of associations: [TDA02 \*Ranunculo bulbosi-Arrhenatheretum elatioris\*](#), [TDA03 \*Poo-Trisetetum flavescentis\*](#), [TDA04 \*Potentillo albae-Festucetum rubrae\*](#), [TDB01 \*Geranio sylvatici-Trisetetum flavescentis\*](#), [TDB02 \*Melandrio rubri-Phleetum alpini\*](#), [TDB03 \*Meo athamantici-Festucetum rubrae\*](#), [TDC01 \*Lolio perennis-Cynosuretum cristati\*](#), [TDC02 \*Anthoxantho odorati-Agrostietum tenuis\*](#), [TDC04 \*Prunello vulgaris-Ranunculetum repentis\*](#), [TDC05 \*Alchemillo hybridae-Poëtum supinae\*](#), [TDD01 \*Molinietum caeruleae\*](#), [TDD02 \*Junco effusi-Molinietum caeruleae\*](#), [TDF05 \*Polygono bistortae-Cirsietum heterophylli\*](#), [TDF10 \*Scirpo sylvatici-Caricetum brizoidis\*](#), [TEA02 \*Thesio alpini-Nardetum strictae\*](#), [TEB01 \*Sileno vulgaris-Nardetum strictae\*](#), [TEC01 \*Festuco capillatae-Nardetum strictae\*](#), [TEC02 \*Campanulo rotundifoliae-Dianthetum deltoidis\*](#), [TED01 \*Juncetum squarrosi\*](#), [TFA01 \*Corniculario aculeatae-Corynephorion canescentis\*](#), [TFB01 \*Airetum praecocis\*](#), [TFC01 \*Sileno otitae-Festucetum brevipilae\*](#), [TFC02 \*Erysimo diffusi-Agrostietum capillaris\*](#), [TFD02 \*Jasione montanae-Festucetum ovinae\*](#), [THF02 \*Brachypodio pinnati-Molinietum arundinaceae\*](#), [THI02 \*Trifolio-Melampyretum nemorosi\*](#), [XEA01 \*Senecioni-Epilobietum angustifolii\*](#), [XEA02 \*Digitali purpureae-Epilobietum angustifolii\*](#), [XEA06 \*Pteridietum aquilini\*](#)

### Dominant taxon

Dominant taxon of associations: [TDA03 \*Poo-Trisetetum flavescentis\*](#), [TDA04 \*Potentillo albae-Festucetum rubrae\*](#), [TDB01 \*Geranio sylvatici-Trisetetum\*](#)

[flavescentis](#), [TDB02 Melandrio rubri-Phleetum alpini](#), [TDB03 Meo athamantici-Festucetum rubrae](#), [TDC01 Lolio perennis-Cynosuretum cristati](#), [TEB01 Sileno vulgaris-Nardetum strictae](#), [TEC01 Festuco capillatae-Nardetum strictae](#), [TEC02 Campanulo rotundifoliae-Dianthetum deltoidis](#), [TED01 Juncetum squarrosi](#), [TFA02 Festuco psammophilae-Koelerietum glaucae](#), [TFC01 Sileno otitae-Festucetum brevipilae](#), [THI02 Trifolio-Melampyretum nemorosi](#), [XEA01 Senecioni-Epilobietum angustifolii](#)

## Ecological specialization indices

Ecological specialization index for all vegetation types: **4.1**

Ecological specialization index for non-forest vegetation: **4.4**

Ecological specialization index for forest vegetation: **4.2**

## Colonization ability

Index of colonization success (ICS): **8**

Index of colonization potential (ICP): **5**

Optimum successional age [years]: **11**

## Distribution and frequency

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

Floristic region: **Europe, Western Siberia**

Distribution range extension along the continentality gradient: **6**

Elevational belt in the Czech Republic: **lowlands, colline belt, submontane belt, montane belt, subalpine 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: **657**

taxon.data.freq\_in\_quad: **2330**

## Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **8 %**

Occurrence frequency in vegetation plots with a cover above 5%: **33 %**

Occurrence frequency in vegetation plots with a cover above 25%: **10 %**

Occurrence frequency in vegetation plots with a cover above 50%: **2.1 %**

Mean percentage cover in vegetation plots: **9.1 %**

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: **61**

Number of narrow habitats in which the taxon has its optimum: **15**

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

Number of broad habitats in which the taxon has its optimum: **8**

## 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**