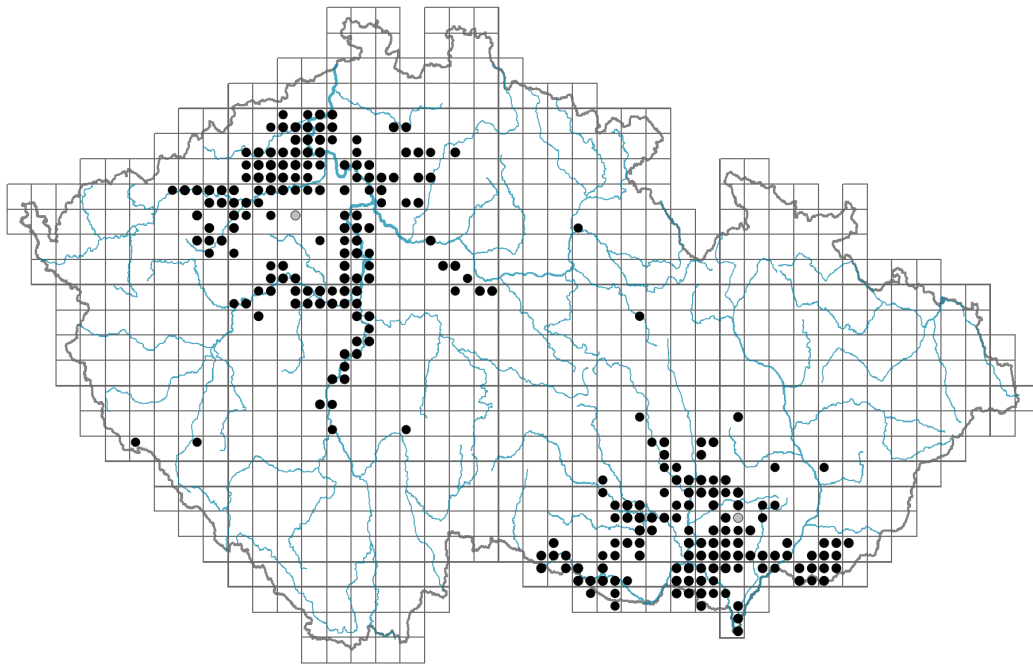# *Stipa pennata* agg.

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]: **0.25-0.8**
Growth form: **clonal herb**
Life form: **hemicryptophyte**
Life strategy: **CS – competitor/stress-tolerator**

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: **scleromorphic**

Flower

Flowering period [month]: **May–July**
Flowering phase: **6 Cornus sanguinea-Melica uniflora (start of early summer), 7 Ligustrum vulgare-Stachys sylvatica (end of early summer)**
Flower colour: **green**
Perianth type: **reduced**

Perianth fusion: **reduced**
Inflorescence type: **spica e spiculis composita**
Dicliny: **synoecious**
Generative reproduction type: **facultative autogamy, mixed mating**
Pollination syndrome: **wind-pollination, selfing, cleistogamy**

Fruit, seed and dispersal

Fruit type: **dry fruit – caryopsis**
Fruit colour: **white, brown**
Reproduction type: **mostly by seed/spores, rarely vegetatively**
Dispersal unit (diaspore): **fruit, infrutescence or its part**
Dispersal strategy: **Bidens (mainly autochory and epizoochory)**
Myrmecochory: **non-myrmecochorous (b)**

Belowground organs and clonality

Storage organ: **tuft**
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]: **4**
Number of clonal offspring: **6**
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): **5**
Number of buds per shoot at a depth of 0–10 cm (root buds excluded): **5**
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): **10**
Depth of the belowground bud bank (root buds exluded) [cm]: **3**
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): **5**
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): **10**
Depth of the belowground bud bank (root buds included) [cm]: **3**

Trophic mode

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

Karyology

Chromosome number (2n): **44**
Ploidy level (x): **4**

2C genome size [Mbp]: **2354.91**
1Cx monoploid genome size [Mbp]: **588.73**

Taxon origin

Origin in the Czech Republic: **native**

Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **9 – full light plant, occurring only in fully irradiated places, not at less than 50% of diffuse radiation incident in an open area**

Temperature indicator value: **7 – heat indicator, occurring in relatively warm lowlands**

Moisture indicator value: **2 – transition between values 1 and 3**

Reaction indicator value: **7 – indicator of slightly acidic to slightly basic conditions, never occurring in very acidic conditions**

Nutrient indicator value: **2 – transition between values 1 and 3**

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

Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

1D Mobile calcareous screes: **1 – rare occurrence**

8 Dry grasslands

8A Hercynian dry grasslands on rock outcrops: **2 – optimum**

8B Submediterranean dry grasslands on rock outcrops: **1 – rare occurrence**

8C Narrow-leaved sub-continental steppes: **3 – dominant**

8D Broad-leaved dry grasslands: **2 – optimum**

8E Acidophilous dry grasslands: **2 – optimum**

8F Thermophilous forest fringe vegetation: **1 – rare occurrence**

9 Sand grasslands and rock-outcrop vegetation

9B Open vegetation of acidic sands: **1 – rare occurrence**

9C Festuca grasslands on acidic sands: **2 – optimum**

9D Pannonian sand steppes: **2 – optimum**

9F Basiphilous vegetation of spring therophytes and succulents: **1 – rare occurrence**

11 Heathlands and scrub

11L Tall mesic and xeric shrub: **1 – rare occurrence**

11N Low xeric scrub: **1 – rare occurrence**

12 Forests

12H Peri-Alpidic basiphilous thermophilous oak forests: **1 – rare occurrence**
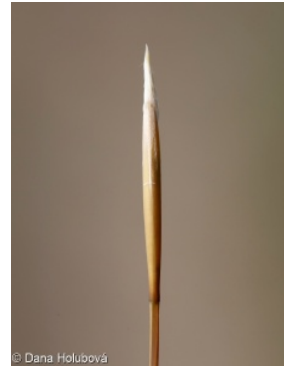
12O Peri-Alpidic pine forests: **1 – rare occurrence**

12T Robinia pseudacacia plantations: **1 – rare occurrence**

12W Pine and larch plantations: **1 – rare occurrence**
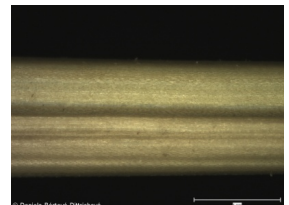
Affinity to the forest environment

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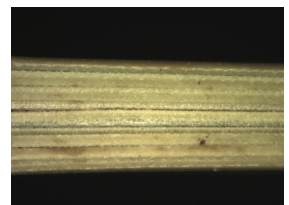
Affinity to the forest environment in Mesophyticum and Oreophyticum: **0 – taxon that does not spontaneously occur in Czech forests**

Distribution and frequency

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

Floristic region: **Europe, Western Asia, Western Siberia**

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

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 136

taxon.data.freq_in_quad: 287

Commonness in vegetation plots from the Czech Republic

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: **13**

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

Number of broad habitats in which the taxon occurs: **5**

Number of broad habitats in which the taxon has its optimum: **1**

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