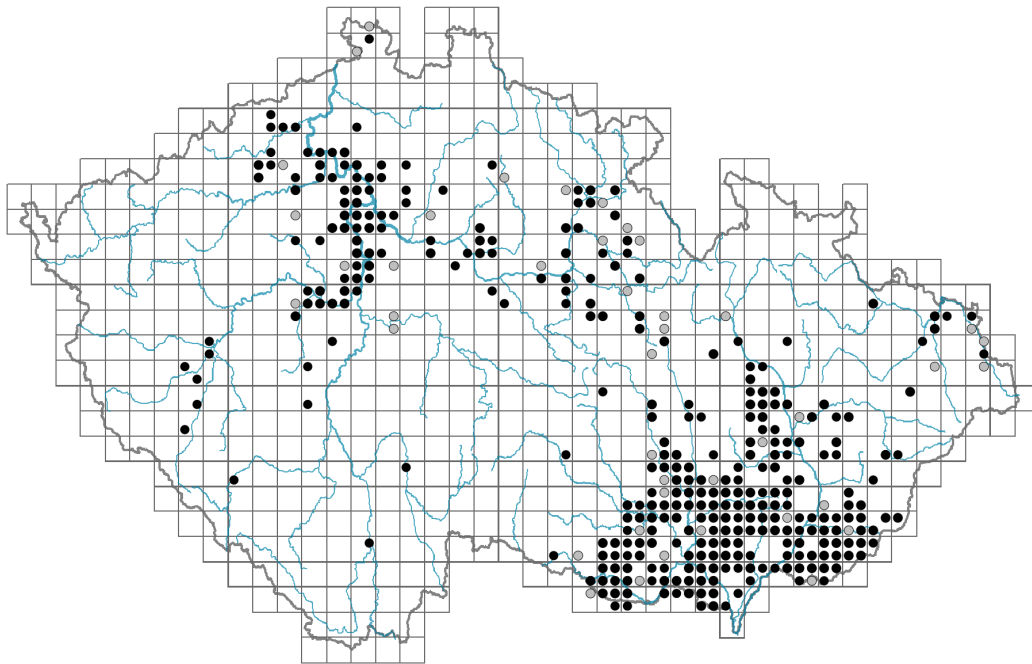


# *Stachys annua*

## 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.

## Habitus and growth type

Height [m]: **0.1-0.4**Growth form: **annual herb**Life form: **therophyte**Life strategy: **R - ruderal**

## Leaf

Leaf presence and metamorphosis: **leaves present, not modified**Leaf arrangement (phyllotaxis): **opposite**Leaf shape: **simple - entire**Stipules: **absent**Petiole: **present**Leaf life span: **summer green**Leaf anatomy: **scleromorphic, mesomorphic**

## Flower

Flowering period [month]: **June-September**Flowering phase: **8 Clematis vitalba-Galium sylvaticum (mid-summer)**Flower colour: **white, yellow-white**Flower symmetry: **zygomorphic**Perianth type: **calyx and corolla**

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Perianth fusion: **fused**

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

Calyx fusion: **synsepalous**

Inflorescence type: **pseudospica e verticillastris composita**

Dicliny: **synoecious**

Generative reproduction type: **facultative autogamy**

Pollination syndrome: **insect-pollination, selfing**

### Fruit, seed and dispersal

Fruit type: **dry fruit - cluster of four one-seeded nutlets**

Fruit colour: **brown**

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

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

Dispersal strategy: **Allium (mainly autochory)**

Myrmecochory: **probably myrmecochorous**

### Belowground organs and clonality

Shoot life span (cyclicality): **monocyclic shoots prevailing**

Primary root: **present**

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): **0**

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): **5**

Depth of the belowground bud bank (root buds excluded) [cm]: **1**

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): **0**

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): **5**

Depth of the belowground bud bank (root buds included) [cm]: **1**

### Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

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

### Karyology

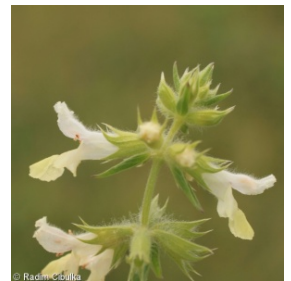
Chromosome number (2n): **34**

Ploidy level (x): **4**

2C genome size [Mbp]: **1155.56**

1Cx monoploid genome size [Mbp]: **288.89**

Genomic GC content: **38.8 %**



## Taxon origin

Origin in the Czech Republic: **archaeophyte**  
 Invasion status: **naturalized**  
 Geographic origin: **Mediterranean**  
 Period of introduction: **Eneolithic (4200-2300 BCE)**  
 Introduction pathway: **unintentional - agriculture**

## 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: **6 - transition between values 5 and 7**  
 Moisture indicator value: **3 - missing on damp soil**  
 Reaction indicator value: **8 - transition between values 7 and 9, occurring mostly in calcium-rich conditions**  
 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: **0.43**  
 Herb layer disturbance frequency indicator value: **0.43**  
 Whole-community disturbance severity indicator value: **0.98**  
 Herb layer disturbance severity indicator value: **0.98**  
 Whole-community structure based disturbance indicator value: **0.8**  
 Herb layer structure-based disturbance indicator value: **0.78**

## Habitat and sociology

### Occurrence in habitats

#### 13 Anthropogenic vegetation

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

13B Annual vegetation of arable land: **2 - optimum**

13D Perennial thermophilous ruderal vegetation: **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 associations: [XBA04 \*Stachyo annuae-Setarietum pumilae\*](#)

### Constant taxon

Constant taxon of associations: [XBA04 \*Stachyo annuae-Setarietum pumilae\*](#)

### Ecological specialization indices

Ecological specialization index for all vegetation types: **6.1**

Ecological specialization index for non-forest vegetation: **6.1**

### Colonization ability



Index of colonization success (ICS): **2**  
Index of colonization potential (ICP): **4**  
Optimum successional age [years]: **3.5**

## Distribution and frequency

Floristic zone: **southern temperate, submeridional, meridional**  
Floristic region: **Europe, Western Asia**  
Continental degree: **6**  
Distribution range extension along the continentality gradient: **5**  
Elevational belt in the Czech Republic: **lowlands, colline belt (submontane belt)**  
Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: **180**  
taxon.data.freq\_in\_quad: **367**  
Commonness in vegetation plots from the Czech Republic  
Occurrence frequency in vegetation plots: **0.3 %**  
Occurrence frequency in vegetation plots with a cover above 5%: **10.4 %**  
Occurrence frequency in vegetation plots with a cover above 25%: **0 %**  
Occurrence frequency in vegetation plots with a cover above 50%: **0 %**  
Mean percentage cover in vegetation plots: **3.3 %**  
Maximum percentage cover in vegetation plots: **18 %**  
Number of habitats with taxon occurrence in the Czech Republic  
Number of narrow habitats in which the taxon occurs: **3**  
Number of narrow habitats in which the taxon has its optimum: **1**  
Number of broad habitats in which the taxon occurs: **1**  
Number of broad habitats in which the taxon has its optimum: **1**

## Threats and protection

Red List 2017 (national categories): **C2t - endangered taxon, declining**  
Red List 2017 (IUCN categories): **VU - vulnerable**  
Legal protection: **not protected by law**