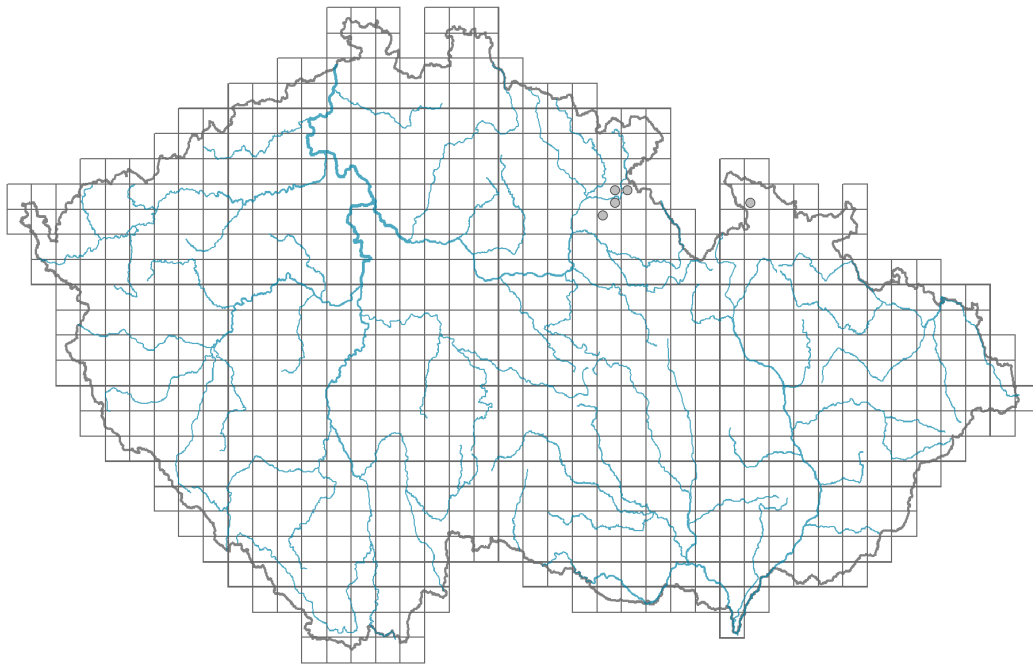


Calystegia sepium subsp. *sepium*

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]: **1-3**

Growth form: **clonal herb**

Life form: **geophyte (hemicryptophyte)**

Life strategy: **C - competitor**

Life strategy (Pierce method based on leaf traits): **CR**

Life strategy (Pierce method, C-score): **42.9 %**

Life strategy (Pierce method, S-score): **8.1 %**

Life strategy (Pierce method, R-score): **49 %**

Leaf

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

Leaf arrangement (phyllotaxis): **alternate**

Leaf shape: **simple - entire**

Stipules: **absent**

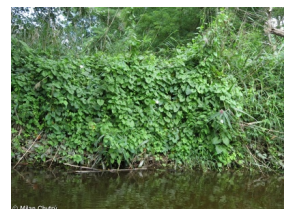
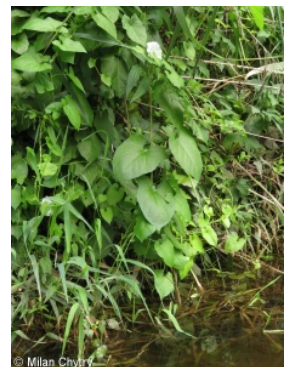
Petiole: **present**

Leaf life span: **summer green**

Leaf anatomy: **mesomorphic**

Flower

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



Flower colour: **white**
 Flower symmetry: **actinomorphic**
 Perianth type: **calyx and corolla**
 Perianth fusion: **fused**
 Shape of the sympetalous corolla or syntepalous perianth: **funnel-shaped**
 Calyx fusion: **synsepalous**
 Inflorescence type: **flores solitarii**
 Dicliny: **synoecious**
 Generative reproduction type: **allogamy self-incompatibility, mixed mating**
 Pollination syndrome: **insect-pollination, selfing**
 Pollinator spectrum: **honeybee, bumblebees, hoverflies, flies s. l., other Diptera, beetles, nitidulids**

Fruit, seed and dispersal

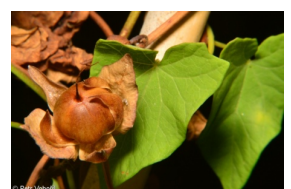
Fruit type: **dry fruit - capsule**
 Fruit colour: **brown**
 Reproduction type: **by seed/spores and vegetatively**
 Dispersal unit (diaspore): **seed**
 Dispersal strategy: **Allium (mainly autochory)**
 Myrmecochory: **non-myrmecochorous (b)**

Belowground organs and clonality

Shoot metamorphosis: **stolon, stolon with tuberous tip**
 Storage organ: **stolon, stolon with tuberous tip**
 Type of clonal growth organ: **stolon with tuber**
 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]: **1**
 Number of clonal offspring: **6**
 Lateral spreading distance by clonal growth [m]: **0.35**
 Clonal index: **6**

Bud bank

Number of buds per shoot at the soil surface (root buds excluded): **13**
 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): **28**
 Depth of the belowground bud bank (root buds excluded) [cm]: **3**
 Number of buds per shoot at the soil surface (root buds included): **13**
 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): **28**
 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): **22**

Ploidy level (x): **2**

2C genome size [Mbp]: **1226.57**

1Cx monoploid genome size [Mbp]: **613.29**

Genomic GC content: **38.8 %**

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: **6 - transition between values 5 and 7**

Moisture indicator value: **7 - humidity indicator, focus on well moistened, but not wet soils**

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

Nutrient indicator value: **8 - pronounced nutrient indicator**

Salinity indicator value: **1 - salt tolerant, mostly on low-salt to salt-free soils, but occasionally on slightly salty soils**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-0.72**

Herb layer disturbance frequency indicator value: **-0.58**

Whole-community disturbance severity indicator value: **0.39**

Herb layer disturbance severity indicator value: **0.41**

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

Herb layer structure-based disturbance indicator value: **0.46**

Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

1C Walls: **1 - rare occurrence**

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

4 Wetland and riverine herbaceous vegetation

4A Reed-beds of eutrophic still waters: **3 - dominant**

4B Halophilous reed and sedge beds: **2 - optimum**

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



- 4D Riverine reed vegetation: **2 - optimum**
4E Reed vegetation of brooks: **1 - rare occurrence**
4F Mesotrophic vegetation of muddy substrata: **1 - rare occurrence**
4G Tall-sedge beds: **1 - rare occurrence**
4H Vegetation of low annual hygrophilous herbs: **1 - rare occurrence**
4I Vegetation of nitrophilous annual hygrophilous herbs: **2 - optimum**
4J River gravel banks: **1 - rare occurrence**
4K Petasites fringes of montane brooks: **1 - rare occurrence**
4L Nitrophilous herbaceous fringes of lowland rivers: **3 - dominant**
- 6 Meadows and mesic pastures
6D Alluvial meadows of lowland rivers: **1 - rare occurrence**
6G Vegetation of wet disturbed soils: **1 - rare occurrence**
- 10 Saline vegetation
10I Inland saline meadows: **1 - rare occurrence**
- 11 Heathlands and scrub
11J Willow galleries of loamy and sandy river banks: **2 - optimum**
11L Tall mesic and xeric shrub: **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**
- 13 Anthropogenic vegetation
13A Annual vegetation of ruderal habitats: **1 - rare occurrence**
13B Annual vegetation of arable land: **1 - rare occurrence**
13D Perennial thermophilous ruderal vegetation: **1 - rare occurrence**
13E Perennial nitrophilous herbaceous vegetation of mesic sites: **3 - dominant**
13F Herbaceous vegetation of forests clearings and Rubus scrub: **1 - rare occurrence**
- 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 classes: [KA *Salicetea purpureae*](#)
Diagnostic taxon of alliances: [KAA *Salicion triandrae*](#), [KAC *Salicion albae*](#), [MCD *Phalaridion arundinaceae*](#), [XDA *Senecionion fluviatilis*](#)
Diagnostic taxon of associations: [KAA01 *Salicetum triandrae*](#), [KAC01 *Salicetum albae*](#), [XDA01 *Cuscuta europaeae-Calystegietum sepium*](#), [XDA03 *Calystegio sepium-Impatientetum glanduliferae*](#), [XDA04 *Sicyo angulatae-Echinocystietum lobatae*](#), [XDE09 *Asteretum lanceolati*](#), [XDE10 *Reynoutrietum japonicae*](#)
- Constant taxon
Constant taxon of classes: [KA *Salicetea purpureae*](#)
Constant taxon of alliances: [KAA *Salicion triandrae*](#), [KAC *Salicion albae*](#), [XDA *Senecionion fluviatilis*](#)
Constant taxon of associations: [KAA01 *Salicetum triandrae*](#), [KAC01 *Salicetum albae*](#), [XDA01 *Cuscuta europaeae-Calystegietum sepium*](#), [XDA03 *Calystegio sepium-Impatientetum glanduliferae*](#), [XDA04 *Sicyo angulatae-Echinocystietum lobatae*](#)

Dominant taxon

Dominant taxon of associations: [XDA01 Cuscuta europaeae-Calystegietum sepium](#),
[XDA02 Calystegio sepium-Epilobietum hirsuti](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **3.7**

Ecological specialization index for non-forest vegetation: **3.7**

Ecological specialization index for forest vegetation: **4.9**

Colonization ability

Index of colonization success (ICS): **4**

Index of colonization potential (ICP): **3**

Optimum successional age [years]: **20**

Distribution and frequency

Floristic zone: **northern temperate, southern temperate, submeridional, meridional, austral or antarctic**

Floristic region: **circumpolar**

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

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

Expansive taxon in the region: **Bohemian Thermophyticum, Bohemian Moravian Mesophyticum, Pannonian Thermophyticum, Carpathian Mesophyticum**

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: **604**

taxon.data.freq_in_quad: **1850**

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **2.5 %**

Occurrence frequency in vegetation plots with a cover above 5%: **17.1 %**

Occurrence frequency in vegetation plots with a cover above 25%: **4.2 %**

Occurrence frequency in vegetation plots with a cover above 50%: **0.9 %**

Mean percentage cover in vegetation plots: **5.4 %**

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: **27**

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

Number of broad habitats in which the taxon occurs: **7**

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

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**