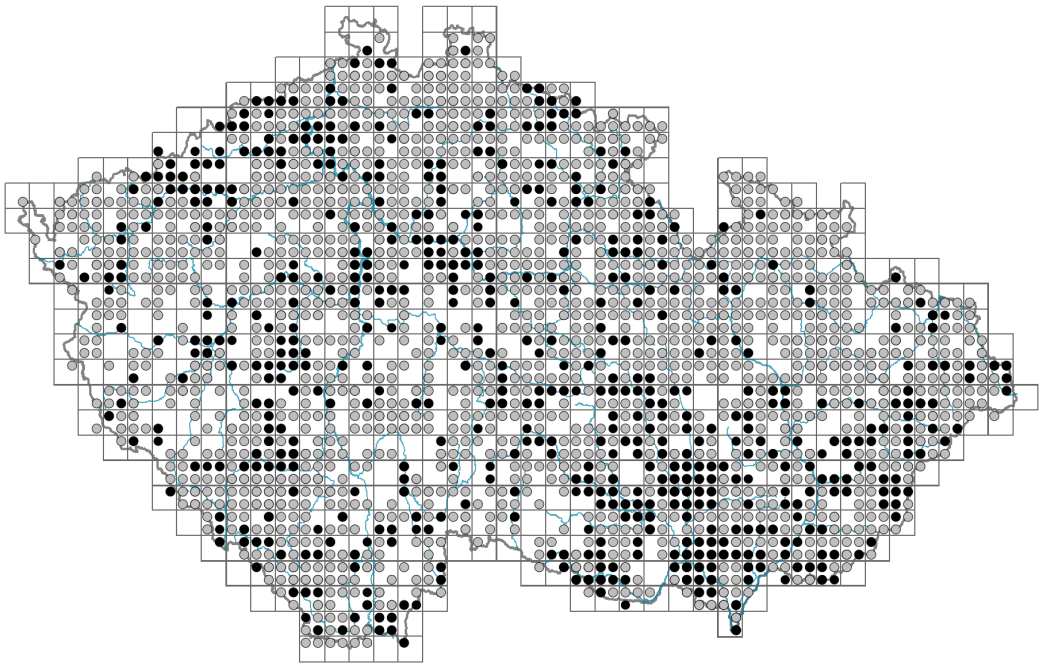
Silene vulgaris

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]: **0.3–1**
Growth form: **polycarpic perennial non-clonal herb**
Life form: **hemicryptophyte**
Life strategy: **CSR – competitor/stress-tolerator/ruderal**
Life strategy (Pierce method based on leaf traits): **CR**
Life strategy (Pierce method, C-score): **48.1 %**
Life strategy (Pierce method, S-score): **0.2 %**
Life strategy (Pierce method, R-score): **51.7 %**







Leaf

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

Flower

Flowering period [month]: **May–September**

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Flowering phase: **6 Cornus sanguinea-Melica uniflora (start of early summer)**
Flower colour: **white**
Flower symmetry: **actinomorphic**
Perianth type: **calyx and corolla**
Perianth fusion: **free**
Calyx fusion: **synsepalous**
Inflorescence type: **dichasium**
Dicliny: **gynomonoecious, gynodioecious**
Generative reproduction type: **facultative allogamy**
Pollination syndrome: **insect-pollination, selfing**





Fruit, seed and dispersal

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



Belowground organs and clonality

Shoot metamorphosis: **pleiocorm**
Root metamorphosis: **primary storage root**
Storage organ: **pleiocorm, primary storage root**
Shoot life span (cyclicity): **monocyclic shoots prevailing**
Branching type of stem-derived organs of clonal growth: **sympodial**
Primary root: **present**
Position of root buds: **lateral roots**
Role of root buds in life-history of a plant: **regenerative**

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): **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): **20**
Depth of the belowground bud bank (root buds exluded) [cm]: **4**
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): **18**
Number of buds per shoot at a depth greater than 10 cm (root buds included): **15**
Size of the belowground bud bank (root buds included): **38**
Depth of the belowground bud bank (root buds included) [cm]: **8**



Trophic mode

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

Karyology



Chromosome number (2n): **24**
Ploidy level (x): **2**
2C genome size [Mbp]: **1980.36**
1Cx monoploid genome size [Mbp]: **990.18**

Taxon origin

Origin in the Czech Republic: **native**

Ecological indicator values

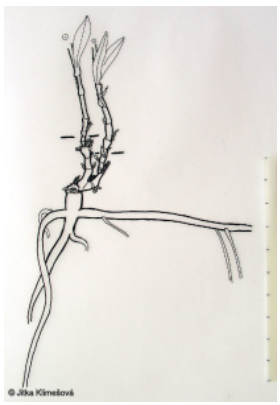
Ellenberg-type indicator values

Light indicator value: **6 – transition between values 5 and 7; rarely at less than 20% of diffuse radiation incident in an open area**
Temperature indicator value: **6x – transition between values 5 and 7 (generalist)**
Moisture indicator value: **4 – transition between values 3 and 5**
Reaction indicator value: **6 – transition between values 5 and 7**
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: **-1.29**
Herb layer disturbance frequency indicator value: **-0.6**
Whole-community disturbance severity indicator value: **0.35**
Herb layer disturbance severity indicator value: **0.34**
Whole-community structure based disturbance indicator value: **0.37**
Herb layer structure-based disturbance indicator value: **0.47**







Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

1A Calcareous cliffs: **1 – rare occurrence**
1B Siliceous cliffs and block fields: **2 – optimum**
1D Mobile calcareous screes: **1 – rare occurrence**

2 Alpine and subalpine grasslands

2A Alpine grasslands on siliceous bedrock: **1 – rare occurrence**
2B Subalpine tall-forb and tall-grass vegetation: **2 – optimum**

5 Vegetation of springs and mires

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

6 Meadows and mesic pastures

6A Mesic Arrhenatherum meadows: **1 – rare occurrence**
6B Montane mesic meadows: **2 – optimum**
6C Pastures and park grasslands: **1 – rare occurrence**
6D Alluvial meadows of lowland rivers: **1 – rare occurrence**
6F Intermittently wet Molinia meadows: **1 – rare occurrence**

7 Acidophilous grasslands

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7A Subalpine and montane acidophilous grasslands: **2 – optimum**
7B Submontane Nardus grasslands: **1 – rare occurrence**

8 Dry grasslands

8A Hercynian dry grasslands on rock outcrops: **1 – rare occurrence**
8B Submediterranean dry grasslands on rock outcrops: **1 – rare occurrence**
8C Narrow-leaved sub-continental steppes: **1 – rare occurrence**
8D Broad-leaved dry grasslands: **1 – rare occurrence**
8E Acidophilous dry grasslands: **1 – rare occurrence**
8F Thermophilous forest fringe vegetation: **2 – optimum**

9 Sand grasslands and rock-outcrop vegetation

9C Festuca grasslands on acidic sands: **1 – rare occurrence**
9E Acidophilous vegetation of spring therophytes and succulents: **1 – rare occurrence**
9F Basiphilous vegetation of spring therophytes and succulents: **1 – rare occurrence**

11 Heathlands and scrub

11A Dry lowland to subalpine heathlands: **1 – rare occurrence**
11D Subalpine acidophilous Pinus mugo scrub: **2 – optimum**
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: **1 – rare occurrence**

12 Forests

12D Ravine forests: **1 – rare occurrence**
12F Limestone 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: **2 – optimum**
12K Acidophilous oak forests: **1 – rare occurrence**
12L Boreo-continental pine forests: **2 – optimum**
12O Peri-Alpidic pine forests: **2 – optimum**
12T Robinia pseudacacia plantations: **1 – rare occurrence**
12V Spruce plantations: **1 – rare occurrence**
12W Pine and larch plantations: **1 – rare occurrence**

13 Anthropogenic vegetation

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: **1 – rare occurrence**

Diagnostic taxon

Diagnostic taxon of classes: **LE *Erico-Pinetea***

Diagnostic taxon of alliances: **ADA *Calamagrostion villosae***, **ADB *Calamagrostion arundinaceae***, **KAB *Salicion elaeagno-daphnoidis***, **LCB *Aceri tatarici-Quercion***, **LEA *Erico carneae-Pinion***, **SAB *Asplenion cuneifolii***, **TEA *Nardion strictae***, **TEB *Nardo strictae-Agrostion tenuis***

Diagnostic taxon of associations: **ADA02 *Crepido conyzifoliae-Calamagrostietum villosae***, **ADB01 *Bupleuro longifoliae-Calamagrostietum arundinaceae***, **ADD03 *Trollio altissimi-Geranietum sylvatici***, **KAB01 *Salicetum elaeagno-purpureae***, **LCB01 *Quercetum pubescenti-roboris***, **LCB02 *Carici fritschii-Quercetum roboris***, **LEA01 *Thlaspio montani-Pinetum sylvestris***, **LFB04 *Asplenio cuneifolii-Pinetum sylvestris***, **SAB01 *Asplenietum cuneifolii***, **TDB02 *Melandrio rubri-Phleetum***

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alpini*, TEA02 *Thesio alpini-Nardetum strictae*, TEB01 *Sileno vulgaris-Nardetum strictae

Constant taxon

Constant taxon of classes: **LE *Erico-Pinetea***

Constant taxon of alliances: **ADA *Calamagrostion villosae*, ADB *Calamagrostion arundinaceae*, LCB *Aceri tatarici-Quercion*, LEA *Erico carneae-Pinion*, SAB *Asplenion cuneifolii*, TEA *Nardion strictae*, TEB *Nardo strictae-Agrostion tenuis***

Constant taxon of associations: **ADA02 *Crepido conyzifoliae-Calamagrostietum villosae*, ADB01 *Bupleuro longifoliae-Calamagrostietum arundinaceae*, ADD03 *Trollio altissimi-Geranietum sylvatici*, KAB01 *Salicetum elaeagno-purpureae*, KAB03 *Salici purpureae-Myricarietum germanicae*, LCB01 *Quercetum pubescenti-roboris*, LCB02 *Carici fritschii-Quercetum roboris*, LEA01 *Thlaspio montani-Pinetum sylvestris*, LFB04 *Asplenio cuneifolii-Pinetum sylvestris*, SAB01 *Asplenietum cuneifolii*, TDB02 *Melandrio rubri-Phleetum alpini*, TEA02 *Thesio alpini-Nardetum strictae*, TEB01 *Sileno vulgaris-Nardetum strictae*, THC04 *Asplenio cuneifolii-Seslerietum caeruleae***

Ecological specialization indices

Ecological specialization index for all vegetation types: **3.6**

Ecological specialization index for non-forest vegetation: **3.9**

Ecological specialization index for forest vegetation: **3.9**

Colonization ability

Index of colonization success (ICS): **7**

Index of colonization potential (ICP): **7**

Optimum successional age [years]: **26.5**

Distribution and frequency

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

Floristic region: **Europe, Asia**

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

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

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 635

taxon.data.freq_in_quad: 1960

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **1.8 %**

Occurrence frequency in vegetation plots with a cover above 5%: **6.3 %**

Occurrence frequency in vegetation plots with a cover above 25%: **0.7 %**

Occurrence frequency in vegetation plots with a cover above 50%: **0 %**

Mean percentage cover in vegetation plots: **2.9 %**

Maximum percentage cover in vegetation plots: **38 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **42**

Number of narrow habitats in which the taxon has its optimum: **9**

Number of broad habitats in which the taxon occurs: **10**

Number of broad habitats in which the taxon has its optimum: **7**

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Threats and protection

Legal protection: **not protected by law**

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