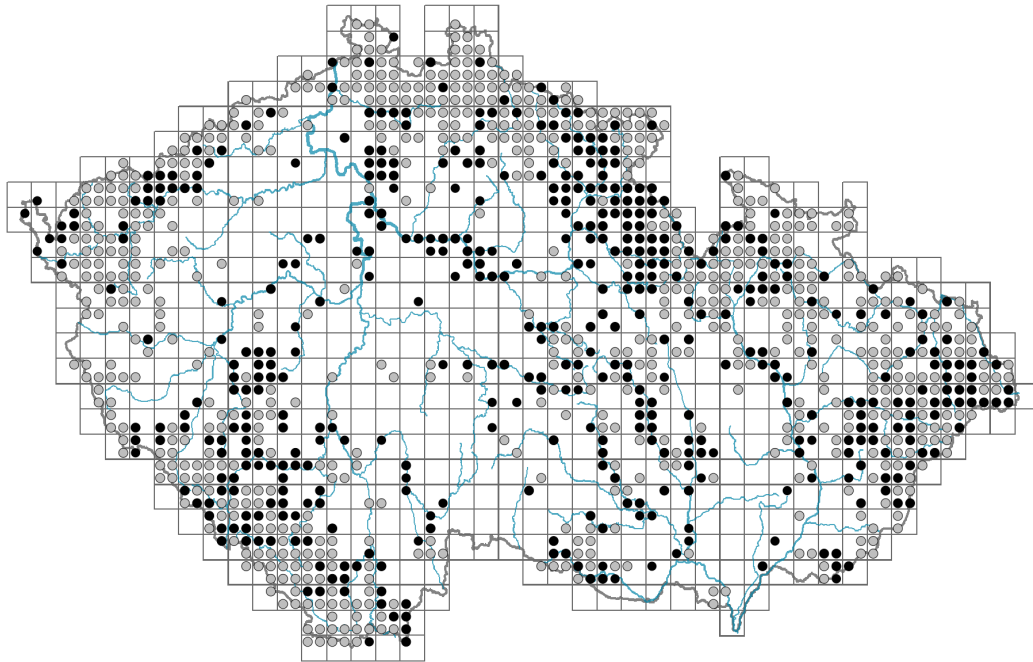


Silene dioica

Distribution



© Pavel Veselý

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]: **0.2-0.7**Growth form: **polycarpic perennial non-clonal herb**Life form: **hemicryptophyte**Life strategy: **C - competitor**Life strategy (Pierce method based on leaf traits): **CR**Life strategy (Pierce method, C-score): **48.3 %**Life strategy (Pierce method, S-score): **0 %**Life strategy (Pierce method, R-score): **51.7 %**

Leaf

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

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Flower

Flowering period [month]: **May-July**

Flowering phase: **5 Sorbus aucuparia-Galium odoratum (end of mid-spring)**

Flower colour: **red-violet**

Flower symmetry: **actinomorphic**

Perianth type: **calyx and corolla**

Perianth fusion: **free**

Calyx fusion: **synsepalous**

Inflorescence type: **dichasium**

Dicliny: **dioecious, trioecious**

Generative reproduction type: **allogamy**

Pollination syndrome: **insect-pollination**

Pollinator spectrum: **hoverflies, butterflies, nitidulids (bumblebees, solitary bees, other Hymenoptera, flies s. l., other Diptera, beetles)**

Fruit, seed and dispersal

Fruit type: **dry fruit - capsule**

Fruit colour: **brown**

Reproduction type: **mostly by seed/spores, rarely vegetatively**

Dispersal unit (diaspore): **seed**

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

Myrmecochory: **probably non-myrmecochorous**

Belowground organs and clonality

Shoot metamorphosis: **rhizome-like pleiocorm**

Storage organ: **rhizome-like pleiocorm**

Shoot life span (cyclicity): **dicyclic or polycyclic 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 excluded) [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): **19**

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): **39**

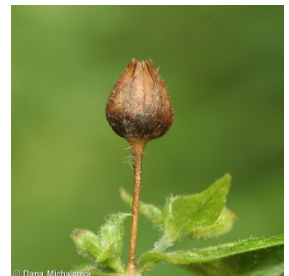
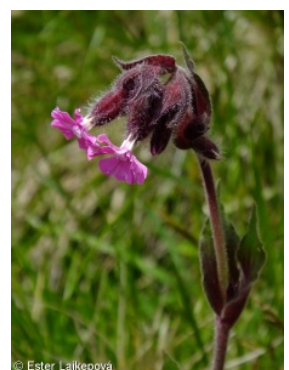
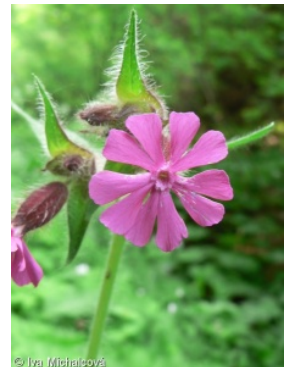
Depth of the belowground bud bank (root buds included) [cm]: **8**

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]: **4915.53**

1Cx monoploid genome size [Mbp]: **2457.76**

Genomic GC content: **40.5 %**

Taxon origin

Origin in the Czech Republic: **native**

Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **5x - semi-shade plant, only exceptionally occurring in full light, but usually at more than 10% of the diffuse radiation incident in an open area (generalist)**

Temperature indicator value: **4x - transition between values 3 and 5 (generalist)**

Moisture indicator value: **6 - transition between values 5 and 7**

Reaction indicator value: **6 - transition between values 5 and 7**

Nutrient indicator value: **7 - occurring at nutrient-rich sites more often than at average sites and only exceptionally at poor sites**

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

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.57**

Herb layer disturbance frequency indicator value: **-0.6**

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

Herb layer disturbance severity indicator value: **0.3**

Whole-community structure based disturbance indicator value: **0.21**

Herb layer structure-based disturbance indicator value: **0.31**

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: **1 - rare occurrence**

2 Alpine and subalpine grasslands

2B Subalpine tall-forb and tall-grass vegetation: **2 - optimum**

4 Wetland and riverine herbaceous vegetation

4D Riverine reed vegetation: **1 - rare occurrence**

4K Petasites fringes of montane brooks: **2 - optimum**

4L Nitrophilous herbaceous fringes of lowland rivers: **1 - rare occurrence**

6 Meadows and mesic pastures

6B Montane mesic meadows: **2 - optimum**

6D Alluvial meadows of lowland rivers: **1 - rare occurrence**

6E Wet Cirsium meadows: **1 - rare occurrence**



7 Acidophilous grasslands

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

11 Heathlands and scrub

11D Subalpine acidophilous *Pinus mugo* scrub: **1 - rare occurrence**11H Subalpine deciduous scrub: **1 - rare occurrence**11J Willow galleries of loamy and sandy river banks: **1 - rare occurrence**

12 Forests

12A Alder carrs: **1 - rare occurrence**12B Alluvial forests: **2 - optimum**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**12R Acidophilous spruce forests: **1 - rare occurrence**12S Basiphilous spruce forests: **2 - optimum**12U Plantations of broad-leaved non-native trees: **1 - rare occurrence**12V Spruce plantations: **1 - rare occurrence**

13 Anthropogenic vegetation

13E Perennial nitrophilous herbaceous vegetation of mesic sites: **1 - rare occurrence**

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: [KAB *Salicion elaeagno-daphnoidis*](#), [TDB *Polygono bistortae-Trisetion flavescens*](#), [TEB *Nardo strictae-Agrostion tenuis*](#), [XDB *Petasition hybridi*](#), [XDF *Rumicion alpini*](#)Diagnostic taxon of associations: [ADD04 *Laserpitio archangelicae-Dactylidetum glomeratae*](#), [ADE02 *Adenostylo alliariae-Athyrietum distentifolii*](#), [KAB01 *Salicetum elaeagno-purpureae*](#), [LBA01 *Alnetum incanae*](#), [TDB02 *Melandrio rubri-Phleetum alpini*](#), [TEB01 *Sileno vulgaris-Nardetum strictae*](#), [XDF01 *Rumicetum alpini*](#)

Constant taxon

Constant taxon of alliances: [TEB *Nardo strictae-Agrostion tenuis*](#), [XDF *Rumicion alpini*](#)Constant taxon of associations: [ADD04 *Laserpitio archangelicae-Dactylidetum glomeratae*](#), [ADE02 *Adenostylo alliariae-Athyrietum distentifolii*](#), [LBA01 *Alnetum incanae*](#), [TDB02 *Melandrio rubri-Phleetum alpini*](#), [TEB01 *Sileno vulgaris-Nardetum strictae*](#), [XDF01 *Rumicetum alpini*](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.2**Ecological specialization index for non-forest vegetation: **4.5**Ecological specialization index for forest vegetation: **5.1**

Colonization ability

Index of colonization success (ICS): **5**
Index of colonization potential (ICP): **4**
Optimum successional age [years]: **4.5**

Distribution and frequency

Floristic zone: **boreal, northern temperate, southern temperate, submeridional**
Floristic region: **Europe, Western Siberia**
Continentality degree: **4**
Distribution range extension along the continentality gradient: **4**
Elevational belt in the Czech Republic: **submontane belt, montane belt (lowlands)**
Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 475
taxon.data.freq_in_quad: 1122
Commonness in vegetation plots from the Czech Republic
Occurrence frequency in vegetation plots: **1.4 %**
Occurrence frequency in vegetation plots with a cover above 5%: **2.4 %**
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: **2.3 %**
Maximum percentage cover in vegetation plots: **13 %**
Number of habitats with taxon occurrence in the Czech Republic
Number of narrow habitats in which the taxon occurs: **26**
Number of narrow habitats in which the taxon has its optimum: **6**
Number of broad habitats in which the taxon occurs: **8**
Number of broad habitats in which the taxon has its optimum: **5**

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**