

Galium verum

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]: **0.3-1.2**Growth form: **clonal herb**Life form: **hemicryptophyte**Life strategy: **CS - competitor/stress-tolerator**Life strategy (Pierce method based on leaf traits): **S/SR**Life strategy (Pierce method, C-score): **1.3 %**Life strategy (Pierce method, S-score): **71.8 %**Life strategy (Pierce method, R-score): **26.9 %**

Leaf

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

Flower

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

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

Flower colour: **yellow**

Flower symmetry: **actinomorphic**

Perianth type: **calyx absent, corolla present**

Perianth fusion: **fused**

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

Inflorescence type: **panicula e dichasiis composita**

Dicliny: **synoecious**

Generative reproduction type: **alogamy self-incompatibility, facultative alogamy**

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

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

Fruit, seed and dispersal

Fruit type: **dry fruit - pair of nutlets**

Fruit colour: **brown**

Reproduction type: **by seed/spores and vegetatively**

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

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

Myrmecochory: **non-myrmecochorous (b)**

Belowground organs and clonality

Shoot metamorphosis: **stolon, pleiocorm**

Storage organ: **stolon, pleiocorm**

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]: **1421.32**

1Cx monoploid genome size [Mbp]: **710.66**

Genomic GC content: **40 %**

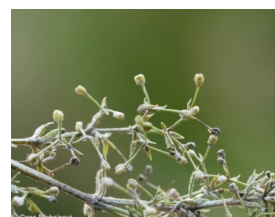
Taxon origin

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: **4 - transition between values 3 and 5**

Reaction indicator value: **5 - indicator of moderate acidity, occurring rarely in strongly acidic as well as in neutral to alkaline conditions**

Nutrient indicator value: **3 - occurring at nutrient-poor sites more frequently than at average sites and exceptionally at rich sites**

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

Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

1B Siliceous cliffs and block fields: **1 - rare occurrence**

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

4 Wetland and riverine herbaceous vegetation

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

4G Tall-sedge beds: **1 - rare occurrence**

5 Vegetation of springs and mires

5D Calcareous fens: **1 - rare occurrence**

5E Acidic moss-rich fens and peatland meadows: **1 - rare occurrence**

6 Meadows and mesic pastures

6A Mesic Arrhenatherum meadows: **2 - optimum**

6B Montane mesic meadows: **1 - rare occurrence**

6C Pastures and park grasslands: **1 - rare occurrence**

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

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

6F Intermittently wet *Molinia* meadows: **2 - optimum**

7 Acidophilous grasslands

7B Submontane *Nardus* grasslands: **2 - optimum**

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: **2 - optimum**

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

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

8F Thermophilous forest fringe vegetation: **2 - optimum**

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**

9E Acidophilous vegetation of spring therophytes and succulents: **2 - optimum**

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

10 Saline vegetation

10I Inland saline meadows: **1 - rare occurrence**

11 Heathlands and scrub

11A Dry lowland to subalpine heathlands: **1 - rare occurrence**

11L Tall mesic and xeric shrub: **2 - optimum**

11N Low xeric scrub: **2 - optimum**

11R Scrub and pioneer woodland of forests clearings: **1 - rare occurrence**

12 Forests

12C Oak-hornbeam 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: **1 - rare occurrence**

12K Acidophilous oak forests: **1 - rare occurrence**

12L Boreo-continental pine forests: **1 - rare occurrence**

12O Peri-Alpidic pine forests: **2 - optimum**

12W Pine and larch plantations: **1 - rare occurrence**

13 Anthropogenic vegetation

13D Perennial thermophilous ruderal vegetation: **1 - rare occurrence**

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

13F Herbaceous vegetation of forests clearings and Rubus scrub: **1 - rare occurrence**

Affinity to the forest environment

Affinity to the forest environment in Thermophyticum: **2.1 - taxon occurring both in the forest and 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: [LE *Erico-Pinetea*](#)

Diagnostic taxon of alliances: [LEA *Erico carneae-Pinion*](#)

Diagnostic taxon of associations: [LEA01 *Thlaspio montani-Pinetum sylvestris*](#)

Constant taxon

Constant taxon of classes: [LE *Erico-Pinetea*](#)

Constant taxon of alliances: [LEA *Erico carneae-Pinion*](#), [TEE *Euphorbio cyparissiae-Callunion vulgaris*](#), [THE *Cirsio-Brachypodium pinnati*](#), [THF *Bromion erecti*](#), [THG *Koelerio-Phleion phleoidis*](#)

Constant taxon of associations: [LEA01 *Thlaspio montani-Pinetum sylvestris*](#), [TDA02 *Ranunculo bulbosi-Arrhenatheretum elatioris*](#), [TDA04 *Potentillo albae-Festucetum rubrae*](#), [TEE01 *Euphorbio cyparissiae-Callunetum vulgaris*](#), [THC04 *Asplenio cuneifolii-Seslerietum caeruleae*](#), [THD01 *Festuco valesiacae-Stipetum capillatae*](#), [THE01 *Scabioso ochroleucae-Brachypodietum pinnati*](#), [THE03 *Polygalo majoris-Brachypodietum pinnati*](#), [THG01 *Potentillo heptaphyllae-Festucetum rupicola*](#), [THG02 *Avenulo pratensis-Festucetum valesiacae*](#), [THI01 *Trifolio medii-Agrimonetum eupatoriae*](#)

Colonization ability

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

Index of colonization potential (ICP): **4**

Optimum successional age [years]: **34**

Distribution and frequency

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

Floristic region: **Europe, Asia**

Distribution range extension along the continentality gradient: **8**

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

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 612

taxon.data.freq_in_quad: 2084

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **41**

Number of narrow habitats in which the taxon has its optimum: **13**

Number of broad habitats in which the taxon occurs: **11**

Number of broad habitats in which the taxon has its optimum: **6**

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**