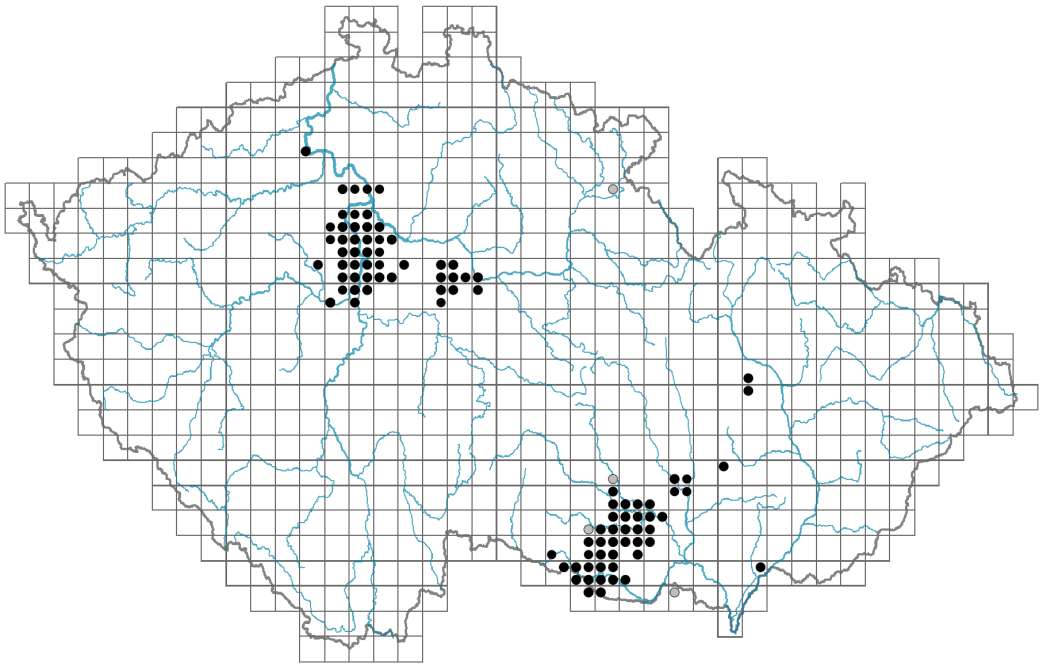
Gagea bohemica

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]: **0.02–0.1**
Growth form: **clonal herb**
Life form: **geophyte**
Life strategy: **CSR – competitor/stress-tolerator/ruderal**
Life strategy (Pierce method based on leaf traits): **S**
Life strategy (Pierce method, C-score): **4.4 %**
Life strategy (Pierce method, S-score): **84.1 %**
Life strategy (Pierce method, R-score): **11.6 %**

Leaf

Leaf presence and metamorphosis: **leaves present, not modified**
Leaf arrangement (phyllotaxis): **alternate**
Leaf shape: **simple – entire**
Stipules: **absent**
Petiole: **absent**
Leaf life span: **overwintering green**
Leaf anatomy: **hygromorphic**

Flower

Flowering period [month]: **March–April**

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Flowering phase: **1 Corylus avellana-Leucojum vernum (pre-spring)**
Flower colour: **yellow**
Flower symmetry: **actinomorphic**
Perianth type: **homochlamydeous**
Perianth fusion: **free**
Inflorescence type: **flores solitarii**
Dicliny: **synoecious**
Generative reproduction type: **facultative allogamy**
Pollination syndrome: **insect-pollination, pseudocleistogamy**

Fruit, seed and dispersal



Fruit type: **dry fruit – capsule**
Reproduction type: **mostly vegetatively, rarely by seed/spores**
Dispersal unit (diaspore): **bulbil or tuber**
Dispersal strategy: **Allium (mainly autochory)**
Myrmecochory: **myrmecochorous nv**

Belowground organs and clonality



Shoot metamorphosis: **bulb**
Storage organ: **bulb**
Type of clonal growth organ: **bulb**
Freely dispersible organs of clonal growth: **absent**
Shoot life span (cyclicity): **monocyclic shoots prevailing**
Branching type of stem-derived organs of clonal growth: **sympodial**
Primary root: **absent**
Persistence of the clonal growth organ [year]: **1.2**
Number of clonal offspring: **5.9**
Lateral spreading distance by clonal growth [m]: **0.01**
Clonal index: **4**

Bud bank

Number of buds per shoot at the soil surface (root buds excluded): **1**
Number of buds per shoot at a depth of 0–10 cm (root buds excluded): **7**
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): **8**
Depth of the belowground bud bank (root buds exluded) [cm]: **5**
Number of buds per shoot at the soil surface (root buds included): **1**
Number of buds per shoot at a depth of 0–10 cm (root buds included): **7**
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): **8**
Depth of the belowground bud bank (root buds included) [cm]: **5**

Trophic mode

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

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Karyology

Chromosome number (2n): **60**
Ploidy level (x): **5**
2C genome size [Mbp]: **15309.13**
1Cx monoploid genome size [Mbp]: **3061.83**
Genomic GC content: **46.2 %**

Taxon origin

Origin in the Czech Republic: **native**

Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **9 – full light plant, occurring only in fully irradiated places, not at less than 50% of diffuse radiation incident in an open area**
Temperature indicator value: **8 – transition between values 7 and 9**
Moisture indicator value: **2 – transition between values 1 and 3**
Reaction indicator value: **4 – transition between values 3 and 5**
Nutrient indicator value: **2 – transition between values 1 and 3**
Salinity indicator value: **0 – not salt tolerant, glycophyte**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **0.01**
Herb layer disturbance frequency indicator value: **0.01**
Whole-community disturbance severity indicator value: **0.28**
Herb layer disturbance severity indicator value: **0.33**
Whole-community structure based disturbance indicator value: **0.73**
Herb layer structure-based disturbance indicator value: **0.74**

Habitat and sociology

Occurrence in habitats

8 Dry grasslands

8A Hercynian dry grasslands on rock outcrops: **1 – rare occurrence**
8E Acidophilous dry grasslands: **1 – rare occurrence**

9 Sand grasslands and rock-outcrop vegetation

9E Acidophilous vegetation of spring therophytes and succulents: **2 – optimum**
9F Basiphilous vegetation of spring therophytes and succulents: **2 – optimum**

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 alliances: **TFE *Arabidopsion thalianae***
Diagnostic taxon of associations: **TFE01 *Festuco-Veronicetum dillenii***, **THA04 *Helichryso arenarii-Festucetum pallentis***, **THG02 *Avenulo pratensis-Festucetum***

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Constant taxon

Constant taxon of alliances: **TFE *Arabidopsion thalianae***

Constant taxon of associations: **TFE01 *Festuco-Veronicetum dillenii***

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): **1**

Index of colonization potential (ICP): **1**

Distribution and frequency

Floristic zone: **southern temperate, submeridional**

Floristic region: **Europe**

Continentality degree: **5**

Distribution range extension along the continentality gradient: **4**

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

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 54

taxon.data.freq_in_quad: 103

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.1 %**

Occurrence frequency in vegetation plots with a cover above 5%: **14.3 %**

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: **3.8 %**

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: **4**

Number of narrow habitats in which the taxon has its optimum: **2**

Number of broad habitats in which the taxon occurs: **2**

Number of broad habitats in which the taxon has its optimum: **1**

Threats and protection

Red List 2017 (national categories): **C2r – endangered taxon, rare**

Red List 2017 (IUCN categories): **VU – vulnerable**

Legal protection: **endangered taxon**

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