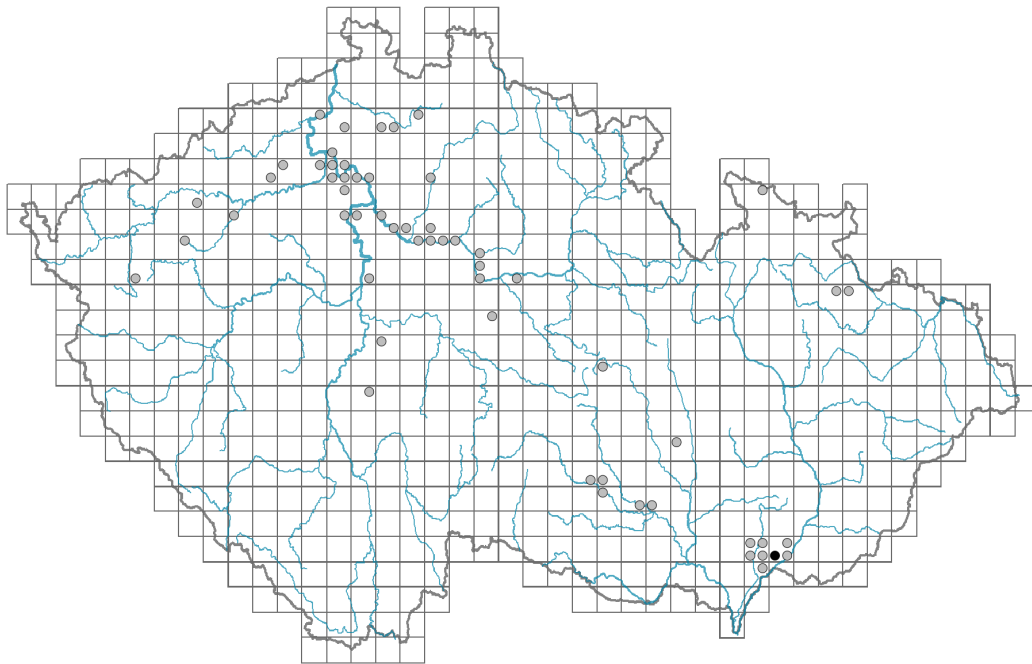


Koeleria glauca

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]: **0.2-0.6**

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): **7.8 %**

Life strategy (Pierce method, S-score): **79.6 %**

Life strategy (Pierce method, R-score): **12.6 %**

Leaf

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

Leaf arrangement (phyllotaxis): **alternate**

Leaf shape: **simple - entire**

Stipules: **absent**

Petiole: **absent**

Leaf life span: **summer green**

Leaf anatomy: **scleromorphic, mesomorphic**

Flower

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

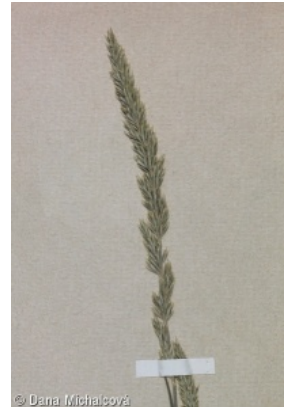


Flowering phase: **7 Ligustrum vulgare-Stachys sylvatica (end of early summer)**
 Flower colour: **green**
 Perianth type: **reduced**
 Perianth fusion: **reduced**
 Inflorescence type: **pseudospica e spiculis composita**
 Dicliny: **synoecious**
 Generative reproduction type: **facultative allogamy**
 Pollination syndrome: **wind-pollination**



Fruit, seed and dispersal

Fruit type: **dry fruit - caryopsis**
 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**
 Storage organ: **stolon, tuft**
 Type of clonal growth organ: **epigeogenous rhizome**
 Freely dispersible organs of clonal growth: **absent**
 Shoot life span (cyclicality): **dicyclic or polycyclic shoots prevailing**
 Branching type of stem-derived organs of clonal growth: **sympodial**
 Primary root: **absent**
 Persistence of the clonal growth organ [year]: **4**
 Number of clonal offspring: **6**
 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): **5**
 Number of buds per shoot at a depth of 0–10 cm (root buds excluded): **5**
 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): **10**
 Depth of the belowground bud bank (root buds excluded) [cm]: **3**
 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): **5**
 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): **10**
 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): **14**
 Ploidy level (x): **2**
 2C genome size [Mbp]: **4328.46**
 1Cx monoploid genome size [Mbp]: **2164.23**
 Genomic GC content: **46.5 %**

Taxon origin

Origin in the Czech Republic: **native**

Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **8 - light plant, only exceptionally occurring at less than 40% of diffuse radiation incident in an open area**

Temperature indicator value: **7 - heat indicator, occurring in relatively warm lowlands**

Moisture indicator value: **2 - transition between values 1 and 3**

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

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**

Herb layer disturbance frequency indicator value: **0**

Whole-community disturbance severity indicator value: **0.29**

Herb layer disturbance severity indicator value: **0.34**

Whole-community structure based disturbance indicator value: **0.84**

Herb layer structure-based disturbance indicator value: **0.78**

Habitat and sociology

Occurrence in habitats

9 Sand grasslands and rock-outcrop vegetation

9B Open vegetation of acidic sands: **2 - optimum**

9C Festuca grasslands on acidic sands: **1 - rare occurrence**

9D Pannonian sand steppes: **2 - optimum**

Affinity to the forest environment

Affinity to the forest environment in Thermophyticum: **0 - taxon that does not spontaneously occur in Czech forests**

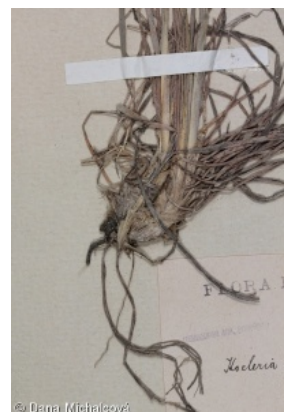
Affinity to the forest environment in Mesophyticum and Oreophyticum: **0 - taxon that does not spontaneously occur in Czech forests**

Diagnostic taxon

Diagnostic taxon of classes: [TF Koelerio-Corynepheretea](#)

Diagnostic taxon of alliances: [TFA Corynephorion canescentis](#)

Diagnostic taxon of associations: [TFA02 Festuco psammophilae-Koelerietum](#)



glaucae

Constant taxon

Constant taxon of associations: ***TFA02 Festuco psammophilae-Koelerietum glaucae***

Ecological specialization indices

Ecological specialization index for all vegetation types: **5**Ecological specialization index for non-forest vegetation: **5.1**

Colonization ability

Index of colonization success (ICS): **1****Distribution and frequency**Floristic zone: **northern temperate, southern temperate, submeridional**Floristic region: **Europe, Asia**Continental degree: **7**Distribution range extension along the continentality gradient: **6**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: **44**taxon.data.freq_in_quad: **57**

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%: **35.5 %**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: **6.1 %**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: **3**Number of narrow habitats in which the taxon has its optimum: **2**Number of broad habitats in which the taxon occurs: **1**Number of broad habitats in which the taxon has its optimum: **1****Threats and protection**Red List 2017 (national categories): **C1t - critically threatened taxon, declining**Red List 2017 (IUCN categories): **CR - critically endangered**Legal protection: **not protected by law**