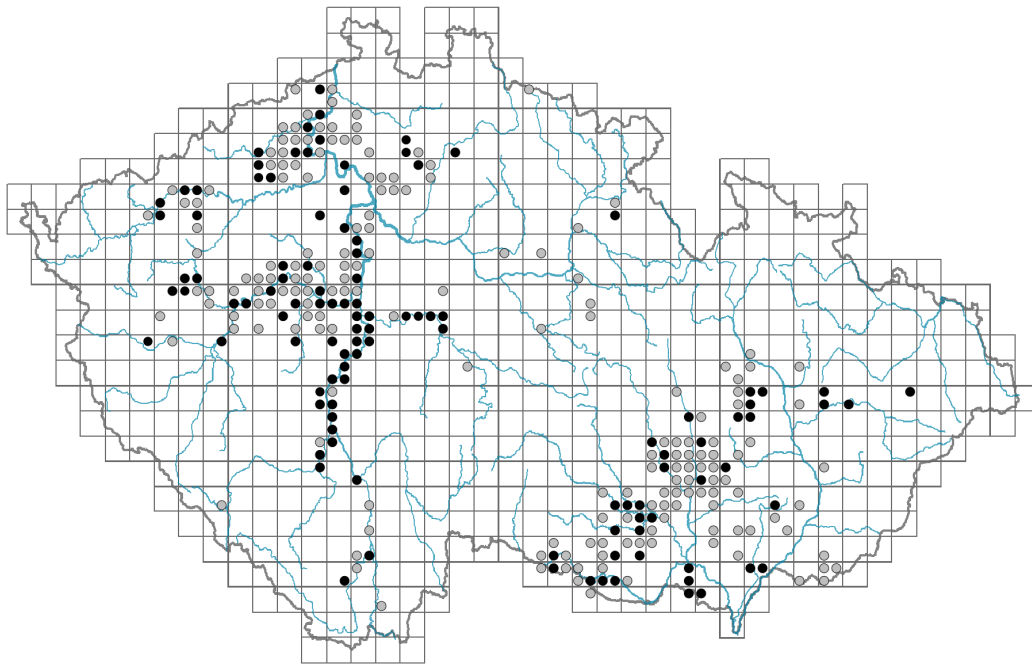


# *Allium senescens* subsp. *montanum*

## 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.



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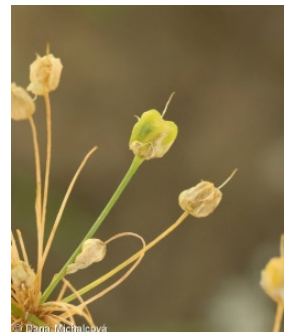
## Habitus and growth type

Height [m]: **0.1-0.4**Growth form: **clonal herb**Life form: **geophyte**Life strategy (Pierce method based on leaf traits): **CR**Life strategy (Pierce method, C-score): **51.5 %**Life strategy (Pierce method, S-score): **0 %**Life strategy (Pierce method, R-score): **48.5 %**

## Leaf

Leaf presence and metamorphosis: **leaves present, not modified**Leaf arrangement (phyllotaxis): **alternate**Leaf shape: **simple - entire**Stipules: **absent**Petiole: **absent**

## Flower

Flower colour: **pink-violet**Flower symmetry: **actinomorphic**Perianth type: **homochlamydeous**Perianth fusion: **free**

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© Vladimír Molyčka

Inflorescence type: **pseudumbrella**

## Fruit, seed and dispersal

Fruit type: **dry fruit - capsule**

Fruit colour: **brown**

Dispersal unit (diaspore): **seed**

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

Myrmecochory: **non-myrmecochorous (a) nv**

## Belowground organs and clonality

Type of clonal growth organ: **bulb**

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: **1**

Lateral spreading distance by clonal growth [m]: **0.01**

Clonal index: **3**

### Bud bank

Number of buds per shoot at the soil surface (root buds excluded): **0**

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): **5**

Depth of the belowground bud bank (root buds excluded) [cm]: **5**

Number of buds per shoot at the soil surface (root buds included): **0**

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): **5**

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**

## Karyology

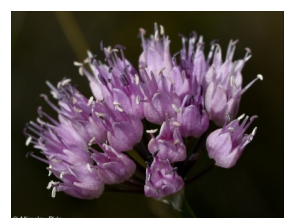
Chromosome number (2n): **32**

Ploidy level (x): **4**

2C genome size [Mbp]: **42753.99**

1Cx monoploid genome size [Mbp]: **10688.5**

Genomic GC content: **39.8 %**



## 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: **6 - transition between values 5 and 7**

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

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

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.2**

Herb layer disturbance frequency indicator value: **-0.59**

Whole-community disturbance severity indicator value: **0.2**

Herb layer disturbance severity indicator value: **0.21**

Whole-community structure based disturbance indicator value: **0.45**

Herb layer structure-based disturbance indicator value: **0.45**

## 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**

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

2 Alpine and subalpine grasslands

2B Subalpine tall-forb and tall-grass vegetation: **1 - rare occurrence**

8 Dry grasslands

8A Hercynian dry grasslands on rock outcrops: **2 - optimum**

8B Submediterranean dry grasslands on rock outcrops: **2 - optimum**

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: **1 - rare occurrence**

9 Sand grasslands and rock-outcrop vegetation

9E Acidophilous vegetation of spring therophytes and succulents: **1 - rare occurrence**

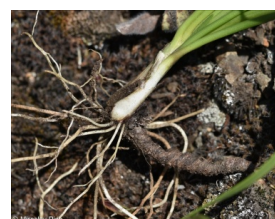
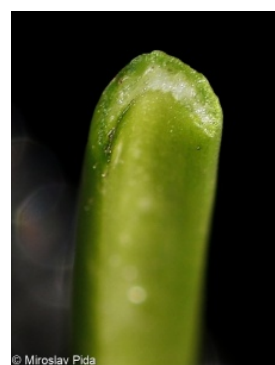
9F Basiphilous vegetation of spring therophytes and succulents: **1 - rare occurrence**

11 Heathlands and scrub

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

11L Tall mesic and xeric shrub: **1 - rare occurrence**

11N Low xeric scrub: **1 - rare occurrence**



## 12 Forests

12D Ravine 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**

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

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

Affinity to the forest environment

Affinity to the forest environment in Thermophyticum: **2.2 - taxon occurring partly in the forest, but mainly in 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 alliances: [THA \*Alyso-Festucion pallentis\*](#), [THC \*Diantho lumnitzeri-Seslerion\*](#)

Diagnostic taxon of associations: [SAB02 \*Notholaeno marantae-Sempervivetum hirti\*](#), [THA01 \*Festuco pallentis-Aurinetum saxatilis\*](#), [THA02 \*Seselio ossei-Festucetum pallentis\*](#), [THA03 \*Sedo albi-Allietum montani\*](#), [THC01 \*Carici humilis-Seslerietum caeruleae\*](#), [THC02 \*Minuartio setaceae-Seslerietum caeruleae\*](#), [THC03 \*Saxifrago paniculatae-Seslerietum caeruleae\*](#)

Constant taxon

Constant taxon of alliances: [THA \*Alyso-Festucion pallentis\*](#), [THC \*Diantho lumnitzeri-Seslerion\*](#)

Constant taxon of associations: [SAB02 \*Notholaeno marantae-Sempervivetum hirti\*](#), [THA01 \*Festuco pallentis-Aurinetum saxatilis\*](#), [THA02 \*Seselio ossei-Festucetum pallentis\*](#), [THA03 \*Sedo albi-Allietum montani\*](#), [THC01 \*Carici humilis-Seslerietum caeruleae\*](#), [THC02 \*Minuartio setaceae-Seslerietum caeruleae\*](#), [THC03 \*Saxifrago paniculatae-Seslerietum caeruleae\*](#)

Dominant taxon

Dominant taxon of associations: [THA03 \*Sedo albi-Allietum montani\*](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.5**

Ecological specialization index for non-forest vegetation: **4.7**

Ecological specialization index for forest vegetation: **5.2**

Colonization ability

Index of colonization success (ICS): **4**

Index of colonization potential (ICP): **2**

Optimum successional age [years]: **28**

## Distribution and frequency

Continental degree: **5**

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

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

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 165

taxon.data.freq\_in\_quad: 306

Commonness in vegetation plots from the Czech Republic



© Miroslav Pida

Occurrence frequency in vegetation plots: **0.8 %**

Occurrence frequency in vegetation plots with a cover above 5%: **22.7 %**

Occurrence frequency in vegetation plots with a cover above 25%: **10.5 %**

Occurrence frequency in vegetation plots with a cover above 50%: **1.3 %**

Mean percentage cover in vegetation plots: **7.5 %**

Maximum percentage cover in vegetation plots: **63 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **21**

Number of narrow habitats in which the taxon has its optimum: **4**

Number of broad habitats in which the taxon occurs: **6**

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

### **Threats and protection**

Red List 2017 (national categories): **C4a - near threatened taxon**

Red List 2017 (IUCN categories): **LC - least concern**

Legal protection: **not protected by law**