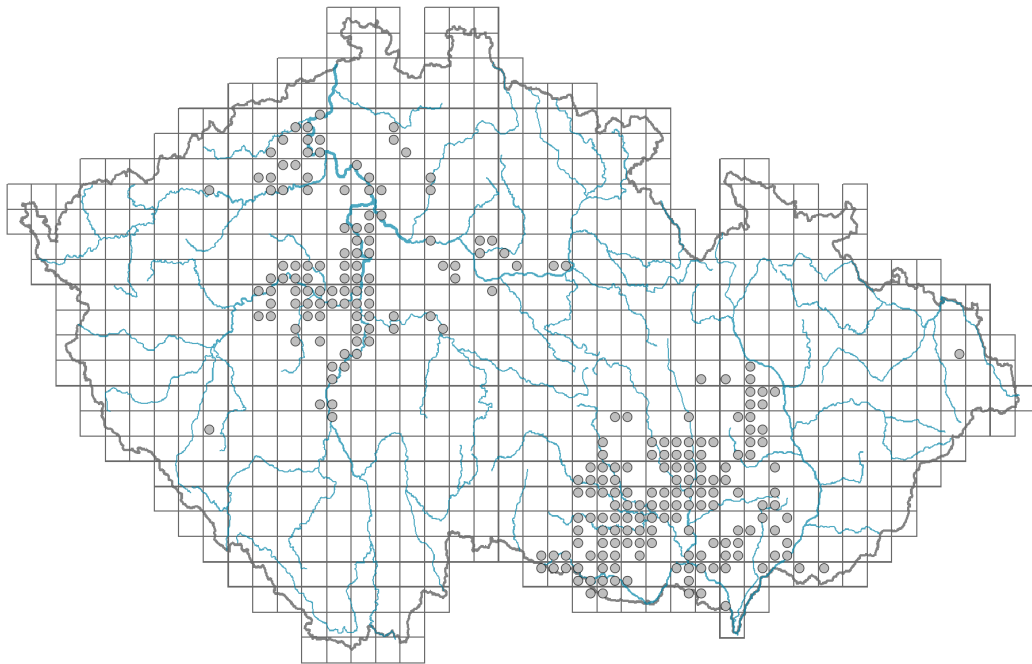


# Seseli osseum

## 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]: **0.3-1.5**

Growth form: **polycarpic perennial non-clonal herb**

Life form: **hemicryptophyte**

## Leaf

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

Leaf arrangement (phyllotaxis): **alternate**

Leaf shape: **simple - pinnately divided**

Stipules: **absent**

Petiole: **both present and absent**

## Flower

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

Flower colour: **white**

Flower symmetry: **actinomorphic**

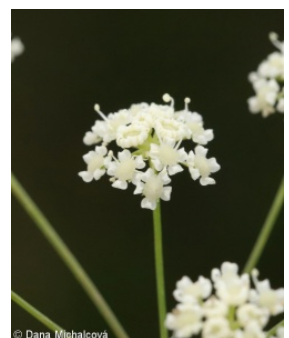
Perianth type: **calyx reduced, corolla present**

Perianth fusion: **free**

Calyx fusion: **aposepalous**

Inflorescence type: **umbella composita**

Generative reproduction type: **facultative allogamy**



## Fruit, seed and dispersal

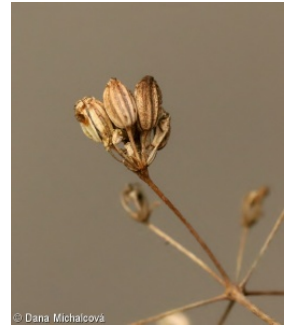
Fruit type: **dry fruit - cremocarp**

Fruit colour: **brown, grey**

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

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

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



© Dana Michalcová

## Belowground organs and clonality

Primary root: **present**

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): **15**

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): **20**

Depth of the belowground bud bank (root buds included) [cm]: **4**



© Pavel Veselý

## Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

Symbiotic nitrogen fixation: **no nitrogen-fixing symbionts**



© Vladimír Nejšpíleba

## Karyology

Chromosome number (2n): **18**

Ploidy level (x): **2**

2C genome size [Mbp]: **2778.42**

1Cx monoploid genome size [Mbp]: **1389.21**

Genomic GC content: **38.2 %**



© Dana Michalcová

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

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



© Dana Michalcová

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: **-0.9**

Herb layer disturbance frequency indicator value: **-0.42**

Whole-community disturbance severity indicator value: **0.21**

Herb layer disturbance severity indicator value: **0.24**

Whole-community structure based disturbance indicator value: **0.48**

Herb layer structure-based disturbance indicator value: **0.52**



© Pavel Veselý

## Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

1A Calcareous cliffs: **1 - rare occurrence**

1D Mobile calcareous screes: **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

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

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

9F Basiphilous vegetation of spring therophytes and succulents: **2 - optimum**

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**

12J Acidophilous thermophilous oak forests: **1 - rare occurrence**

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

12O Peri-Alpidic pine forests: **1 - rare occurrence**

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

Affinity to the forest environment

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

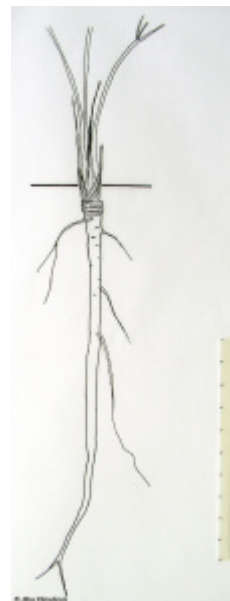
Affinity to the forest environment in Mesophyticum and Oreophyticum: **0 - taxon that does not spontaneously occur in Czech forests**

Diagnostic taxon

Diagnostic taxon of classes: [TH Festuco-Brometea](#)



© Dana Michalčová



© Jana Hrnčířová

Diagnostic taxon of alliances: [TFF Alysso alyssoidis-Sedion](#), [THA Alysso-Festucion pallentis](#), [THB Bromo pannonici-Festucion pallentis](#), [THC Diantho lumnitzeri-Seslerion](#)

Diagnostic taxon of associations: [TFF01 Cerastietum](#), [THA02 Seselio ossei-Festucetum pallentis](#), [THA03 Sedo albi-Allietum montani](#), [THA04 Helichryso arenarii-Festucetum pallentis](#), [THB01 Poo badensis-Festucetum pallentis](#), [THC01 Carici humilis-Seslerietum caeruleae](#), [THC02 Minuartio setaceae-Seslerietum caeruleae](#), [THC03 Saxifrago paniculatae-Seslerietum caeruleae](#), [THD02 Erysimo crepidifolii-Festucetum valesiaca](#), [THG02 Avenulo pratensis-Festucetum valesiaca](#)

Constant taxon

Constant taxon of alliances: [THA Alysso-Festucion pallentis](#), [THB Bromo pannonici-Festucion pallentis](#), [THC Diantho lumnitzeri-Seslerion](#)

Constant taxon of associations: [TFF01 Cerastietum](#), [THA02 Seselio ossei-Festucetum pallentis](#), [THA03 Sedo albi-Allietum montani](#), [THA04 Helichryso arenarii-Festucetum pallentis](#), [THB01 Poo badensis-Festucetum pallentis](#), [THC01 Carici humilis-Seslerietum caeruleae](#), [THC02 Minuartio setaceae-Seslerietum caeruleae](#), [THC03 Saxifrago paniculatae-Seslerietum caeruleae](#), [THD02 Erysimo crepidifolii-Festucetum valesiaca](#), [THG02 Avenulo pratensis-Festucetum valesiaca](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.7**

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

Ecological specialization index for forest vegetation: **5**

Colonization ability

Index of colonization success (ICS): **5**

Index of colonization potential (ICP): **3**

Optimum successional age [years]: **21.5**

## Distribution and frequency

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: **127**

taxon.data.freq\_in\_quad: **252**

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **1.1 %**

Occurrence frequency in vegetation plots with a cover above 5%: **5.2 %**

Occurrence frequency in vegetation plots with a cover above 25%: **1.2 %**

Occurrence frequency in vegetation plots with a cover above 50%: **0 %**

Mean percentage cover in vegetation plots: **3.1 %**

Maximum percentage cover in vegetation plots: **42 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **20**

Number of narrow habitats in which the taxon has its optimum: **3**

Number of broad habitats in which the taxon occurs: **5**

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**