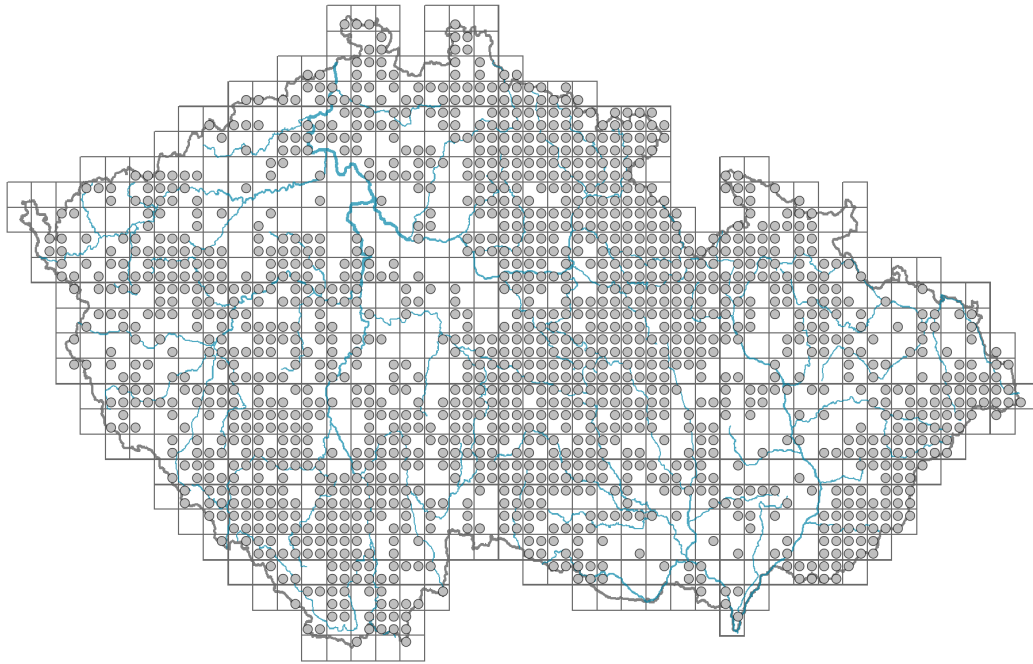


Carum carvi

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]: **0.3-0.8**

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

Life form: **hemicryptophyte**

Life strategy: **C - competitor**

Life strategy (Pierce method based on leaf traits): **CR**

Life strategy (Pierce method, C-score): **38.1 %**

Life strategy (Pierce method, S-score): **8.7 %**

Life strategy (Pierce method, R-score): **53.2 %**

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**

Leaf life span: **summer green**

Leaf anatomy: **mesomorphic**

Flower

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

Flowering phase: **5 Sorbus aucuparia-Galium odoratum (end of mid-spring)**
 Flower colour: **white**
 Flower symmetry: **actinomorphic**
 Perianth type: **calyx absent, corolla present**
 Perianth fusion: **free**
 Inflorescence type: **umbella composita**
 Dicliny: **gynomonoecious, gynodioecious**
 Generative reproduction type: **facultative allogamy**
 Pollination syndrome: **insect-pollination**
 Pollinator spectrum: **hoverflies, flies s. l., other Diptera, unknown (other Hymenoptera, meat flies s. l., beetles)**



Fruit, seed and dispersal

Fruit type: **dry fruit - cremocarp**
 Fruit colour: **brown, grey**
 Reproduction type: **only by seed/spores**
 Dispersal unit (diaspore): **fruit, infructescence or its part**
 Dispersal strategy: **Allium (mainly autochory)**
 Myrmecochory: **non-myrmecochorous (b)**



Belowground organs and clonality

Root metamorphosis: **primary storage root**
 Storage organ: **primary storage root**
 Shoot life span (cyclicity): **dicyclic or polycyclic shoots prevailing**
 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): **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): **20 (22)**
 Ploidy level (x): **2**

2C genome size [Mbp]: **3724.17**
 1Cx monoploid genome size [Mbp]: **1862.08**
 Genomic GC content: **39 %**

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: **5 - moderate heat indicator, occurring from lowland to montane belt, mainly in submontane-temperate areas**

Moisture indicator value: **5 - indicator of fresh soils, focus on soils of average moisture, missing on wet and on soils that frequently dry out**

Reaction indicator value: **6x - transition between values 5 and 7 (generalist)**

Nutrient indicator value: **6 - transition between values 5 and 7**

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

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-0.06**

Herb layer disturbance frequency indicator value: **-0.06**

Whole-community disturbance severity indicator value: **0.38**

Herb layer disturbance severity indicator value: **0.41**

Whole-community structure based disturbance indicator value: **0.72**

Herb layer structure-based disturbance indicator value: **0.88**

Habitat and sociology

Occurrence in habitats

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: **2 - optimum**

6C Pastures and park grasslands: **2 - optimum**

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

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

6F Intermittently wet Molinia meadows: **1 - rare occurrence**

6G Vegetation of wet disturbed soils: **1 - rare occurrence**

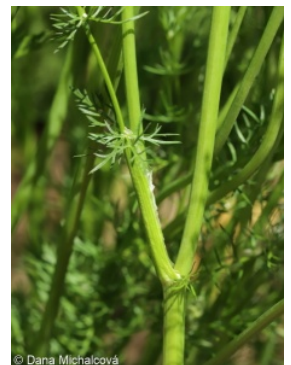
7 Acidophilous grasslands

7A Subalpine and montane acidophilous grasslands: **1 - rare occurrence**

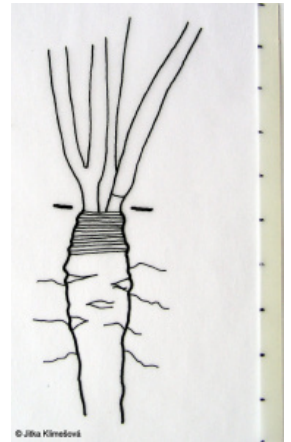
7B Submontane Nardus grasslands: **1 - rare occurrence**

8 Dry grasslands

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**
 10 Saline vegetation
 10I Inland saline meadows: **1 - rare occurrence**
 12 Forests
 12W Pine and larch plantations: **1 - rare occurrence**
 13 Anthropogenic vegetation
 13C Annual vegetation of trampled habitats: **1 - rare occurrence**
 13D Perennial thermophilous ruderal vegetation: **1 - rare occurrence**
 13E Perennial nitrophilous herbaceous vegetation of mesic sites: **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 associations: [TDC01 *Lolio perennis*-*Cynosuretum cristati*](#)
 Ecological specialization indices
 Ecological specialization index for all vegetation types: **5.5**
 Ecological specialization index for non-forest vegetation: **5.5**
 Colonization ability
 Index of colonization success (ICS): **4**
 Index of colonization potential (ICP): **4**
 Optimum successional age [years]: **26.5**



Distribution and frequency

Floristic zone: **boreal, northern temperate, southern temperate, submeridional, meridional**
 Floristic region: **Europe, Siberia**
 Continentality degree: **6**
 Distribution range extension along the continentality gradient: **6**
 Elevational belt in the Czech Republic: **lowlands, colline belt, submontane belt, montane belt, subalpine belt**
 Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 566
 taxon.data.freq_in_quad: 1482
 Commonness in vegetation plots from the Czech Republic
 Occurrence frequency in vegetation plots: **0.6 %**
 Occurrence frequency in vegetation plots with a cover above 5%: **4.6 %**
 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: **2.3 %**
 Maximum percentage cover in vegetation plots: **18 %**
 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: **8**

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

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**