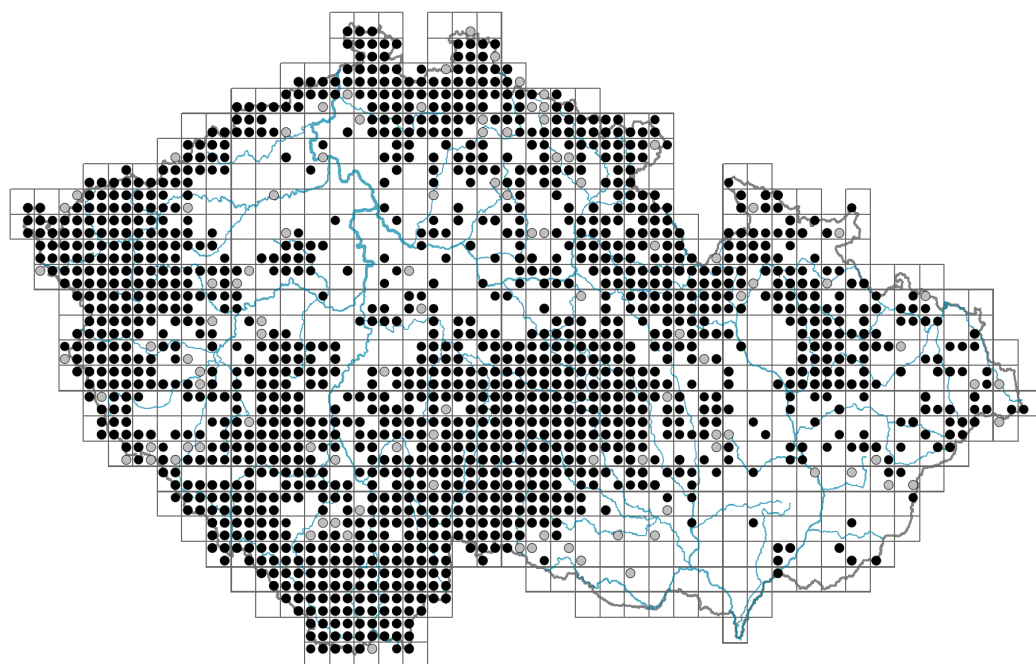


# Carex rostrata

## 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**

Growth form: **clonal herb**

Life form: **hemicryptophyte (geophyte)**

Life strategy: **CS - competitor/stress-tolerator**

Life strategy (Pierce method based on leaf traits): **CS/CSR**

Life strategy (Pierce method, C-score): **33.8 %**

Life strategy (Pierce method, S-score): **42.1 %**

Life strategy (Pierce method, R-score): **24.1 %**



## Leaf

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

Leaf arrangement (phyllotaxis): **alternate**

Leaf shape: **simple - entire**

Stipules: **absent**

Petiole: **absent**

Leaf life span: **evergreen**

Leaf anatomy: **helomorphic**

## Flower

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

Flowering phase: **4 Fagus sylvatica-Galeobdolon (start of mid-spring)**  
 Flower colour: **green**  
 Perianth type: **flower achlamydeous**  
 Inflorescence type: **spica e spiculis composita**  
 Dicliny: **monoecious**  
 Generative reproduction type: **facultative allogamy**  
 Pollination syndrome: **wind-pollination**

### Fruit, seed and dispersal

Fruit type: **dry fruit - nut enclosed in an utricle**  
 Fruit colour: **green, yellow, brown**  
 Reproduction type: **by seed/spores and vegetatively**  
 Dispersal unit (diaspore): **fruit, infrutescence or its part**  
 Dispersal strategy: **Sparganium (mainly autochory and hydrochory)**  
 Myrmecochory: **non-myrmecochorous (a)**

### Belowground organs and clonality

Shoot metamorphosis: **stolon, rhizome**  
 Storage organ: **stolon, rhizome**  
 Type of clonal growth organ: **hypogeogenous 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: **1**  
 Lateral spreading distance by clonal growth [m]: **0.07**  
 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): **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**

### Trophic mode

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



## Karyology

Chromosome number (2n): **76**

Ploidy level (x): **2**

2C genome size [Mbp]: **720.18**

1Cx monoploid genome size [Mbp]: **360.09**

Genomic GC content: **35.7 %**

## 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: **4 - transition between values 3 and 5**

Moisture indicator value: **10 - aquatic plant that survives long periods without soil flooding**

Reaction indicator value: **3 - acidity indicator, occurring mainly in acidic conditions, exceptionally in neutral conditions**

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: **-0.9**

Herb layer disturbance frequency indicator value: **-0.73**

Whole-community disturbance severity indicator value: **0.15**

Herb layer disturbance severity indicator value: **0.19**

Whole-community structure based disturbance indicator value: **0.58**

Herb layer structure-based disturbance indicator value: **0.6**

## Habitat and sociology

Occurrence in habitats

3 Aquatic vegetation

3C Macrophytic vegetation of oligotrophic lakes and pools: **1 - rare occurrence**

4 Wetland and riverine herbaceous vegetation

4A Reed-beds of eutrophic still waters: **1 - rare occurrence**

4E Reed vegetation of brooks: **1 - rare occurrence**

4F Mesotrophic vegetation of muddy substrata: **1 - rare occurrence**

4G Tall-sedge beds: **3 - dominant**

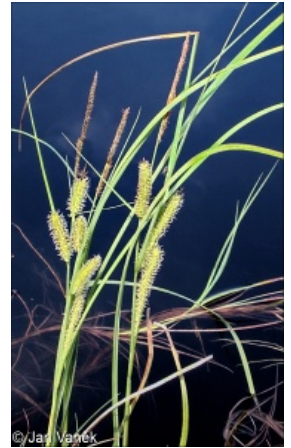
5 Vegetation of springs and mires

5B Lowland to montane soft-water springs: **1 - rare occurrence**

5C Alpine and subalpine soft-water springs: **1 - rare occurrence**

5D Calcareous fens: **1 - rare occurrence**

5E Acidic moss-rich fens and peatland meadows: **2 - optimum**



- 5F Transitional mires: **3 - dominant**  
 5G Raised bogs: **1 - rare occurrence**  
 5H Wet peat soils and bog hollows: **3 - dominant**  
 6 Meadows and mesic pastures  
 6E Wet *Cirsium* meadows: **2 - optimum**  
 6F Intermittently wet *Molinia* meadows: **1 - rare occurrence**  
 7 Acidophilous grasslands  
 7A Subalpine and montane acidophilous grasslands: **1 - rare occurrence**  
 7B Submontane *Nardus* grasslands: **1 - rare occurrence**  
 11 Heathlands and scrub  
 11A Dry lowland to subalpine heathlands: **1 - rare occurrence**  
 11D Subalpine acidophilous *Pinus mugo* scrub: **1 - rare occurrence**  
 11H Subalpine deciduous scrub: **1 - rare occurrence**  
 11I Willow carrs: **2 - optimum**  
 12 Forests  
 12A Alder carrs: **1 - rare occurrence**  
 12P Peatland pine forests: **1 - rare occurrence**  
 12Q Peatland birch forests: **2 - optimum**  
 12R Acidophilous spruce forests: **1 - rare occurrence**



#### 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 classes: [RB \*Scheuchzerio palustris\*-\*Caricetea nigrae\*](#)

Diagnostic taxon of alliances: [MCG \*Magno-Caricion elatae\*](#), [RBB \*Sphagno warnstorffii\*-\*Tomentypnion nitentis\*](#), [RBC \*Caricion canescenti-nigrae\*](#), [RBD \*Sphagno-Caricion canescentis\*](#), [VDC \*Sphagno-Utricularion\*](#)

Diagnostic taxon of associations: [MCG02 \*Equiseto fluviatilis\*-\*Caricetum rostratae\*](#), [MCG04 \*Comaro palustris\*-\*Caricetum cespitosae\*](#), [MCG06 \*Caricetum appropinquatae\*](#), [RBA04 \*Campylio stellati\*-\*Caricetum lasiocarpae\*](#), [RBB01 \*Sphagno warnstorffii\*-\*Eriophoretum latifolii\*](#), [RBB02 \*Campylio stellati\*-\*Trichophoretum alpini\*](#), [RBB03 \*Menyantho trifoliatae\*-\*Sphagnetum teretis\*](#), [RBC03 \*Agrostio caninae\*-\*Caricetum diandrae\*](#), [RBD01 \*Sphagno recurvi\*-\*Caricetum rostratae\*](#), [RBD02 \*Sphagno recurvi\*-\*Caricetum lasiocarpae\*](#), [RBE02 \*Carici rostratae\*-\*Drepanocladetum fluitantis\*](#), [VDC02 \*Sphagno-Utricularietum ochroleuca\*](#), [VDC03 \*Scorpidio scorpioidis\*-\*Utricularietum\*](#)

#### Constant taxon

Constant taxon of classes: [RB \*Scheuchzerio palustris\*-\*Caricetea nigrae\*](#)

Constant taxon of alliances: [MCG \*Magno-Caricion elatae\*](#), [RBD \*Sphagno-Caricion canescentis\*](#)

Constant taxon of associations: [LAA01 \*Thelypterido palustris\*-\*Alnetum glutinosae\*](#), [LAB01 \*Salicetum auritae\*](#), [MCG02 \*Equiseto fluviatilis\*-\*Caricetum rostratae\*](#), [MCG03 \*Peucedano palustris\*-\*Caricetum lasiocarpae\*](#), [MCG04 \*Comaro palustris\*-\*Caricetum cespitosae\*](#), [MCG06 \*Caricetum appropinquatae\*](#), [RBA04 \*Campylio stellati\*-\*Caricetum lasiocarpae\*](#), [RBB01 \*Sphagno warnstorffii\*-\*Eriophoretum latifolii\*](#), [RBB02 \*Campylio stellati\*-\*Trichophoretum alpini\*](#), [RBB03 \*Menyantho trifoliatae\*-\*Sphagnetum teretis\*](#), [RBC03 \*Agrostio caninae\*-\*Caricetum diandrae\*](#),

[RBD01 \*Sphagno recurvi-Caricetum rostratae\*](#), [RBD02 \*Sphagno recurvi-Caricetum lasiocarpae\*](#), [RBE02 \*Carici rostratae-Drepanocladetum fluitantis\*](#), [VDC02 \*Sphagno-Utricularietum ochroleucae\*](#), [VDC03 \*Scorpidio scorpioidis-Utricularietum\*](#)

Dominant taxon

Dominant taxon of associations: [MCC05 \*Scirpetum radicans\*](#), [MCG02 \*Equiseto fluviatilis-Caricetum rostratae\*](#), [MCG06 \*Caricetum appropinquatae\*](#), [RBA04 \*Campylio stellati-Caricetum lasiocarpae\*](#), [RBC03 \*Agrostio caninae-Caricetum diandrae\*](#), [RBD01 \*Sphagno recurvi-Caricetum rostratae\*](#), [RBE02 \*Carici rostratae-Drepanocladetum fluitantis\*](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.9**

Ecological specialization index for non-forest vegetation: **4.9**

Ecological specialization index for forest vegetation: **5.4**

Colonization ability

Index of colonization success (ICS): **6**

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

Optimum successional age [years]: **25**

## Distribution and frequency

Floristic zone: **boreal, northern temperate, southern temperate, submeridional**

Floristic region: **circumpolar**

Distribution range extension along the continentality gradient: **8**

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

Expansive taxon in the region: **Bohemian Moravian Mesophyticum**

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 555

taxon.data.freq\_in\_quad: 1538

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **3.4 %**

Occurrence frequency in vegetation plots with a cover above 5%: **46.2 %**

Occurrence frequency in vegetation plots with a cover above 25%: **28.9 %**

Occurrence frequency in vegetation plots with a cover above 50%: **21.4 %**

Mean percentage cover in vegetation plots: **22.9 %**

Maximum percentage cover in vegetation plots: **99 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **24**

Number of narrow habitats in which the taxon has its optimum: **7**

Number of broad habitats in which the taxon occurs: **7**

Number of broad habitats in which the taxon has its optimum: **5**

## 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**