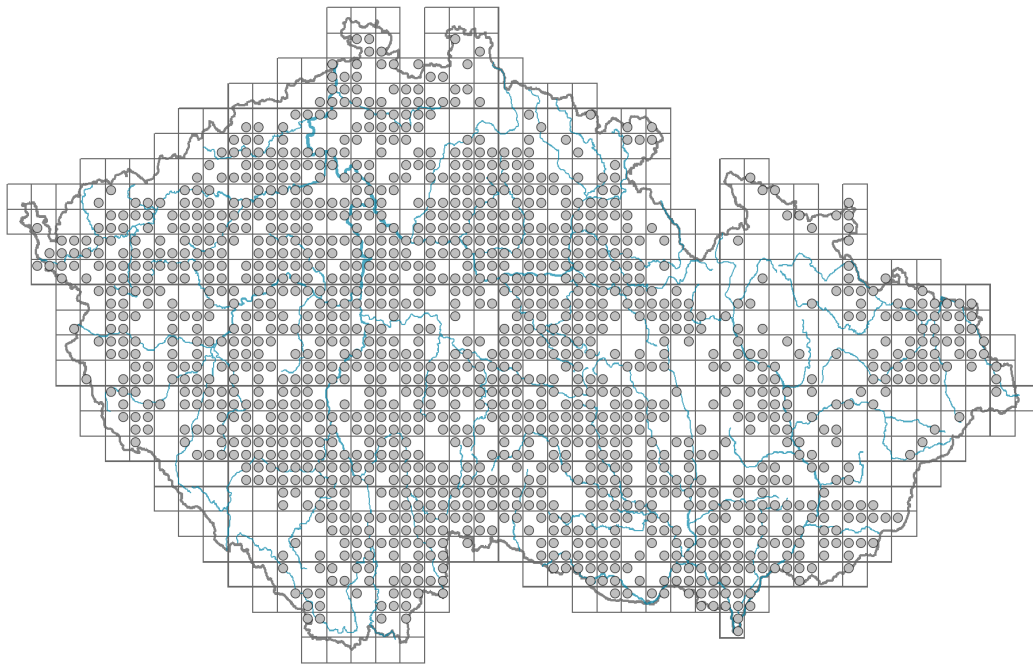


# Ranunculus sceleratus

## 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]: **0.1-1**

Growth form: **annual herb**

Life form: **therophyte**

Life strategy: **SR - stress-tolerator/ruderal**

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

Life strategy (Pierce method, C-score): **34 %**

Life strategy (Pierce method, S-score): **0 %**

Life strategy (Pierce method, R-score): **66 %**

## Leaf

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

Leaf arrangement (phyllotaxis): **alternate, rosulate**

Leaf shape: **simple - palmately divided**

Stipules: **absent**

Petiole: **both present and absent**

Leaf life span: **overwintering green**

Leaf anatomy: **helomorphic**

## Flower

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



Flowering phase: **6 Cornus sanguinea-Melica uniflora (start of early summer)**

Flower colour: **yellow**

Flower symmetry: **actinomorphic**

Perianth type: **calyx and corolla**

Perianth fusion: **free**

Calyx fusion: **aposepalous**

Inflorescence type: **anthella**

Dicliny: **synoecious**

Generative reproduction type: **allogamy self-incompatibility**

Pollination syndrome: **insect-pollination**



## Fruit, seed and dispersal

Fruit type: **dry fruit - head of achenes**

Fruit colour: **brown**

Reproduction type: **only by seed/spores**

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

Dispersal strategy: **Sparganium (mainly autochory and hydrochory)**

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



## Belowground organs and clonality

Shoot life span (cyclicality): **monocyclic shoots prevailing**

Primary root: **absent**

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): **0**

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]: **1**

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): **0**

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]: **1**



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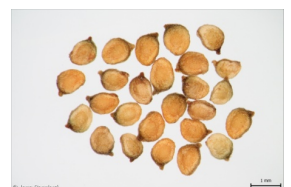
© Dana Miličková

## Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

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



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## Karyology

Chromosome number (2n): **32 (56, 64)**

Ploidy level (x): **4**

2C genome size [Mbp]: **5941.16**

1Cx monoploid genome size [Mbp]: **1485.29**

Genomic GC content: **42.8 %**

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

Moisture indicator value: **9 - wetness indicator, focus on often soaked, poorly aerated soils**

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

Nutrient indicator value: **9 - concentrated at very nutrient-rich sites**

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: **-0.48**

Herb layer disturbance frequency indicator value: **-0.41**

Whole-community disturbance severity indicator value: **0.46**

Herb layer disturbance severity indicator value: **0.47**

Whole-community structure based disturbance indicator value: **0.65**

Herb layer structure-based disturbance indicator value: **0.67**

## 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**

4B Halophilous reed and sedge beds: **2 - optimum**

4C Eutrophic vegetation of muddy substrata: **2 - optimum**

4D Riverine reed vegetation: **1 - rare occurrence**

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

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

4G Tall-sedge beds: **1 - rare occurrence**

4H Vegetation of low annual hygrophilous herbs: **2 - optimum**

4I Vegetation of nitrophilous annual hygrophilous herbs: **2 - optimum**

6 Meadows and mesic pastures

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

12 Forests

12A Alder carrs: **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**

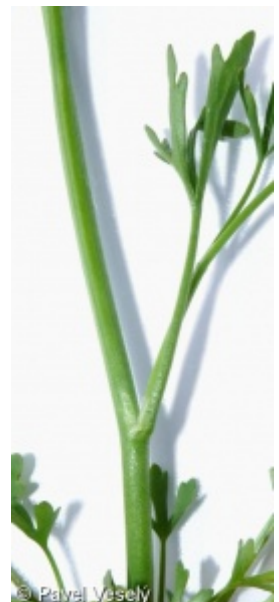
Affinity to the forest environment in Mesophyticum and Oreophyticum: **0 - taxon that**



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**does not spontaneously occur in Czech forests**

## Diagnostic taxon

Diagnostic taxon of classes: [MA Isoëto-Nano-Juncetea](#), [MB Bidentetea tripartitae](#)Diagnostic taxon of alliances: [MAA Eleocharition ovatae](#), [MAC Verbenion supinae](#), [MBA Bidention tripartitae](#)Diagnostic taxon of associations: [MAA01 Polygono-Eleocharitetum ovatae](#), [MAC01 Veronico anagaloidis-Lythretum hyssopifoliae](#), [MBA01 Rumici maritimi-Ranunculetum scelerati](#), [MBA04 Polygono brittingeri-Chenopodietum rubri](#), [MCC08 Alismatetum lanceolati](#)

## Constant taxon

Constant taxon of alliances: [MAC Verbenion supinae](#)Constant taxon of associations: [MAA01 Polygono-Eleocharitetum ovatae](#), [MAC01 Veronico anagaloidis-Lythretum hyssopifoliae](#), [MBA01 Rumici maritimi-Ranunculetum scelerati](#), [MBA04 Polygono brittingeri-Chenopodietum rubri](#), [MBB04 Chenopodio chenopodioidis-Atriplicetum prostratae](#), [MCC08 Alismatetum lanceolati](#), [VBD05 Ranunculetum baudotii](#)

## Dominant taxon

Dominant taxon of associations: [MBA01 Rumici maritimi-Ranunculetum scelerati](#), [VBD04 Batrachietum rionii](#)

## Ecological specialization indices

Ecological specialization index for all vegetation types: **4.7**Ecological specialization index for non-forest vegetation: **4.8**Ecological specialization index for forest vegetation: **4.8**

## Colonization ability

Index of colonization success (ICS): **3**Index of colonization potential (ICP): **2**Optimum successional age [years]: **8****Distribution and frequency**Floristic zone: **boreal, meridional**Floristic region: **circumpolar**Distribution range extension along the continentality gradient: **8**Elevational belt in the Czech Republic: **lowlands, colline belt, submontane belt**

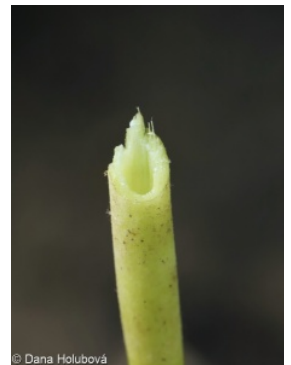
Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 541

taxon.data.freq\_in\_quad: 1422

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **1.6 %**Occurrence frequency in vegetation plots with a cover above 5%: **15.3 %**Occurrence frequency in vegetation plots with a cover above 25%: **8.2 %**Occurrence frequency in vegetation plots with a cover above 50%: **3.1 %**Mean percentage cover in vegetation plots: **6.8 %**Maximum percentage cover in vegetation plots: **88 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **12**Number of narrow habitats in which the taxon has its optimum: **4**Number of broad habitats in which the taxon occurs: **4**

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**