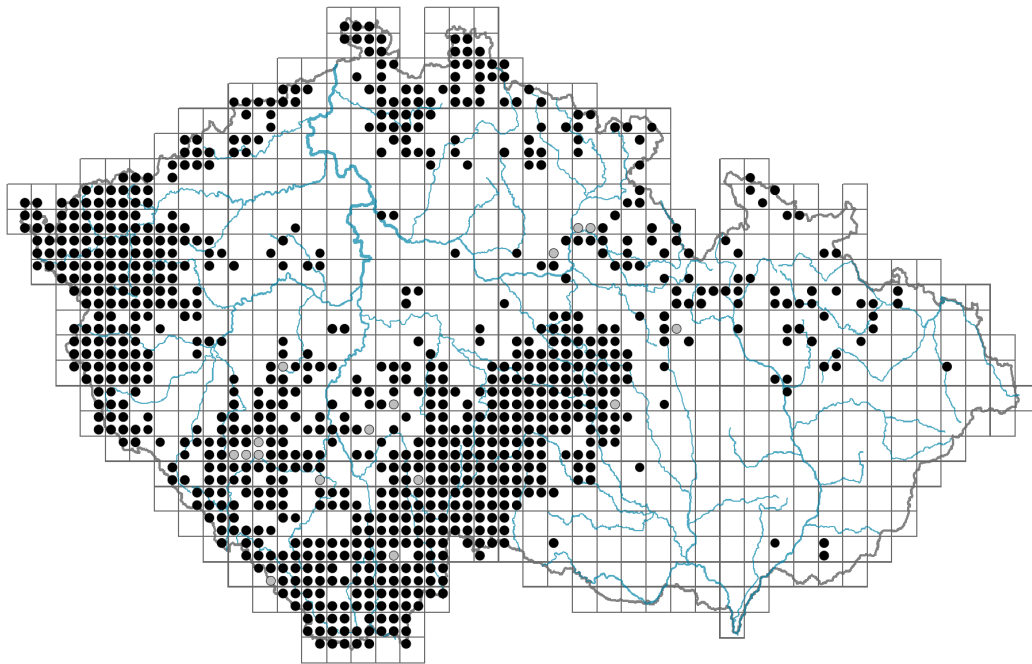


Comarum palustre

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]: **0.2-1**

Growth form: **clonal herb**

Life form: **hemicryptophyte**

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

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

Life strategy (Pierce method, C-score): **34.9 %**

Life strategy (Pierce method, S-score): **38.8 %**

Life strategy (Pierce method, R-score): **26.4 %**

Leaf

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

Leaf arrangement (phyllotaxis): **alternate**

Leaf shape: **compound - ternate, compound - imparipinnate**

Stipules: **present**

Petiole: **present**

Leaf life span: **summer green**

Leaf anatomy: **helomorphic**

Flower

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

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

Flower colour: **red-violet**

Flower symmetry: **actinomorphic**

Perianth type: **calyx and corolla**

Perianth fusion: **free**

Calyx fusion: **aposepalous**

Inflorescence type: **anthella**

Dicliny: **synoecious**

Generative reproduction type: **mixed mating**

Pollination syndrome: **insect-pollination, selfing**

Pollinator spectrum: **flies s. l., other Diptera, nitidulids (solitary bees, other Hymenoptera)**

Fruit, seed and dispersal

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

Fruit colour: **red, brown**

Reproduction type: **by seed/spores and vegetatively**

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

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

Myrmecochory: **probably myrmecochorous**

Belowground organs and clonality

Shoot metamorphosis: **rhizome**

Storage organ: **rhizome**

Type of clonal growth organ: **epigeogenous 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]: **0.13**

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**

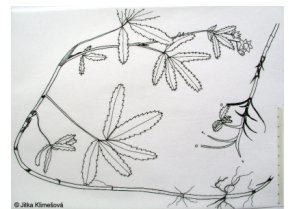
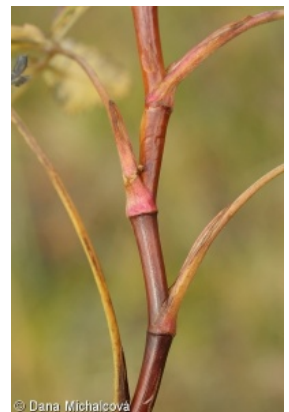
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Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

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

Karyology

Chromosome number (2n): **28 (35, 42, 62, 64)**

Ploidy level (x): **4 (5, 6, 8)**

2C genome size [Mbp]: **1105.4**

1Cx monoploid genome size [Mbp]: **276.35**

Genomic GC content: **40.9 %**

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

Reaction indicator value: **3 - acidity indicator, occurring mainly in acidic conditions, exceptionally in neutral 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: **-0.84**

Herb layer disturbance frequency indicator value: **-0.7**

Whole-community disturbance severity indicator value: **0.14**

Herb layer disturbance severity indicator value: **0.18**

Whole-community structure based disturbance indicator value: **0.54**

Herb layer structure-based disturbance indicator value: **0.56**

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**

4F Mesotrophic vegetation of muddy substrata: **2 - optimum**

4G Tall-sedge beds: **2 - optimum**

5 Vegetation of springs and mires

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

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

5F Transitional mires: **2 - optimum**

5G Raised bogs: **1 - rare occurrence**

5H Wet peat soils and bog hollows: **2 - optimum**

6 Meadows and mesic pastures

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

11 Heathlands and scrub

11H Subalpine deciduous scrub: **1 - rare occurrence**

11I Willow carrs: **2 - optimum**

12 Forests

12A Alder carrs: **2 - optimum**

12Q Peatland birch forests: **1 - rare occurrence**

Affinity to the forest environment

Affinity to the forest environment in Thermophyticum: **2.1 - taxon occurring both in the forest and open vegetation**

Affinity to the forest environment in Mesophyticum and Oreophyticum: **2.1 - taxon occurring both in the forest and open vegetation**

Diagnostic taxon

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

Diagnostic taxon of alliances: [LAB *Salicion cinereae*](#), [RBB *Sphagno warnstorffii-Tomentypnion nitentis*](#), [RBC *Caricion canescenti-nigrae*](#), [RBD *Sphagno-Caricion canescentis*](#)

Diagnostic taxon of associations: [LAB01 *Salicetum auritae*](#), [MCG04 *Comaro palustris-Caricetum cespitosae*](#), [RBB03 *Menyantho trifoliatae-Sphagnetum teretis*](#), [RBC02 *Drosero anglicae-Rhynchosporium albae*](#), [RBC03 *Agrostio caninae-Caricetum diandrae*](#), [RBD01 *Sphagno recurvi-Caricetum rostratae*](#), [RBD02 *Sphagno recurvi-Caricetum lasiocarpae*](#)

Constant taxon

Constant taxon of associations: [LAB01 *Salicetum auritae*](#), [MCG04 *Comaro palustris-Caricetum cespitosae*](#), [RBB03 *Menyantho trifoliatae-Sphagnetum teretis*](#), [RBC02 *Drosero anglicae-Rhynchosporium albae*](#), [RBC03 *Agrostio caninae-Caricetum diandrae*](#), [RBD01 *Sphagno recurvi-Caricetum rostratae*](#), [RBD02 *Sphagno recurvi-Caricetum lasiocarpae*](#)

Dominant taxon

Dominant taxon of associations: [MCG04 *Comaro palustris-Caricetum cespitosae*](#), [MCG06 *Caricetum appropinquatae*](#), [RBA04 *Campylio stellati-Caricetum lasiocarpae*](#), [RBC03 *Agrostio caninae-Caricetum diandrae*](#), [RBD01 *Sphagno recurvi-Caricetum rostratae*](#), [RBD02 *Sphagno recurvi-Caricetum lasiocarpae*](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **5.4**

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

Ecological specialization index for forest vegetation: **5.8**

Colonization ability

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

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

Optimum successional age [years]: **50**

Distribution and frequency

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

Floristic region: **circumpolar**

Distribution range extension along the continentality gradient: **7**

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: **358**

taxon.data.freq_in_quad: **880**

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **1.7 %**

Occurrence frequency in vegetation plots with a cover above 5%: **32.7 %**

Occurrence frequency in vegetation plots with a cover above 25%: **9.8 %**

Occurrence frequency in vegetation plots with a cover above 50%: **2.2 %**

Mean percentage cover in vegetation plots: **8.7 %**

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: **14**

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

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

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

Threats and protection

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

Red List 2017 (IUCN categories): **NT - near threatened**

Legal protection: **not protected by law**