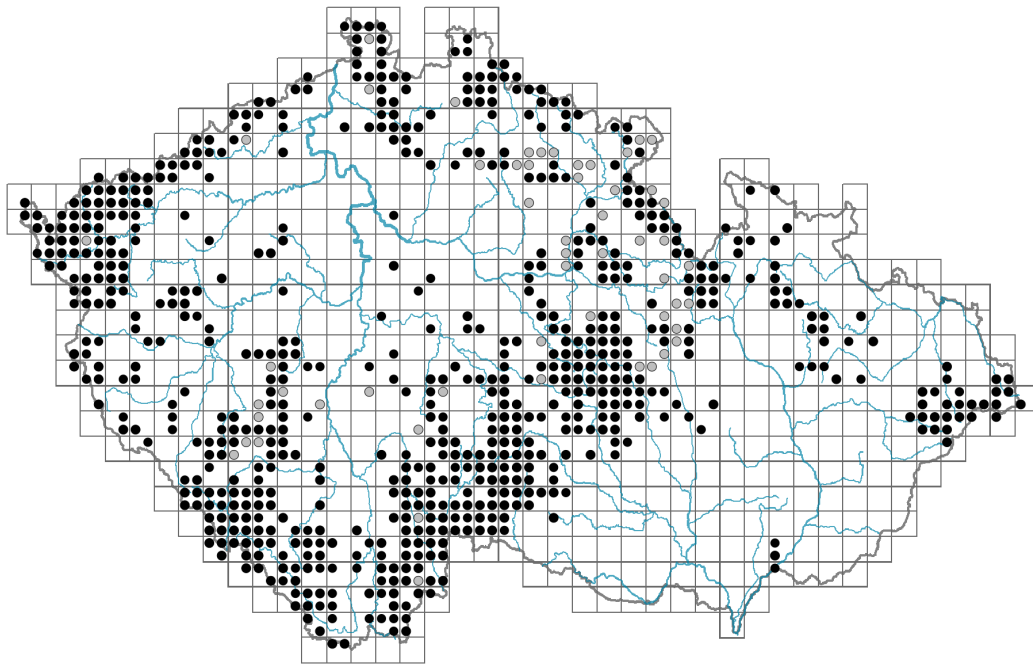


# *Drosera rotundifolia*

## 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]: **0.04-0.2**

Growth form: **clonal herb**

Life form: **hemicryptophyte**

Life strategy: **S - stress-tolerator**

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

Life strategy (Pierce method, C-score): **6 %**

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

Life strategy (Pierce method, R-score): **94 %**

## Leaf

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

Leaf arrangement (phyllotaxis): **rosulate**

Leaf shape: **simple - entire**

Stipules: **present**

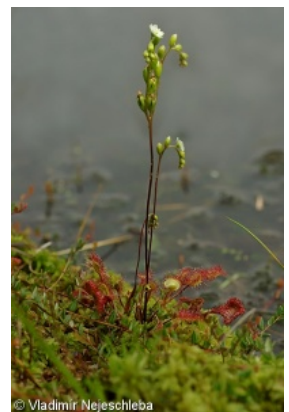
Petiole: **present**

Leaf life span: **summer green**

Leaf anatomy: **succulent, helomorphic**

## Flower

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



Flowering phase: **7 Ligustrum vulgare-Stachys sylvatica (end of early summer)**

Flower colour: **white**

Flower symmetry: **actinomorphic**

Perianth type: **calyx and corolla**

Perianth fusion: **free**

Calyx fusion: **fused at the base**

Inflorescence type: **cincinnus**

Dicliny: **synoecious**

Generative reproduction type: **autogamy**

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



## Fruit, seed and dispersal

Fruit type: **dry fruit - capsule**

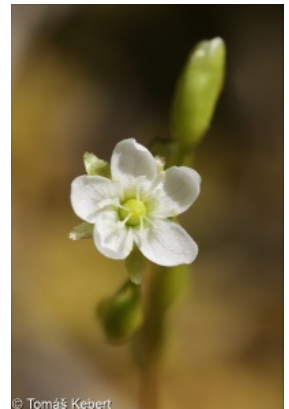
Fruit colour: **brown**

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

Dispersal unit (diaspore): **seed, leaf-born plantlet**

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

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



## Belowground organs and clonality

Type of clonal growth organ: **epigeogenous rhizome**

Freely dispersible organs of clonal growth: **absent**

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

Branching type of stem-derived organs of clonal growth: **monopodial**

Primary root: **absent**

Persistence of the clonal growth organ [year]: **4**

Number of clonal offspring: **3.7**

Lateral spreading distance by clonal growth [m]: **0.04**

Clonal index: **3**

## 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**

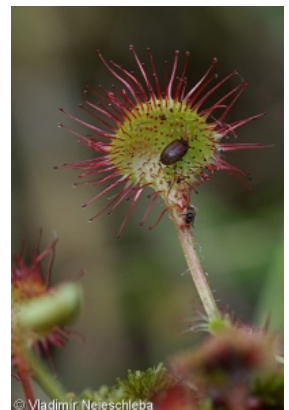
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## Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **carnivorous**

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

## Karyology

Chromosome number (2n): **20**

Ploidy level (x): **2**

2C genome size [Mbp]: **2331.22**

1Cx monoploid genome size [Mbp]: **1165.61**

Genomic GC content: **44.5 %**



## 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: **1 - indicator of strong acidity, never occurring in slightly acidic to alkaline conditions**

Nutrient indicator value: **1 - occurring at nutrient-poorest sites**

Salinity indicator value: **0 - not salt tolerant, glycophyte**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.35**

Herb layer disturbance frequency indicator value: **-1.27**

Whole-community disturbance severity indicator value: **0.03**

Herb layer disturbance severity indicator value: **0.07**

Whole-community structure based disturbance indicator value: **0.56**

Herb layer structure-based disturbance indicator value: **0.51**



## 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

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

4H Vegetation of low annual hygrophilous herbs: **1 - rare occurrence**

5 Vegetation of springs and mires

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: **2 - optimum**

5G Raised bogs: **2 - optimum**

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

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**

11I Willow carrs: **1 - rare occurrence**

## 12 Forests

12P Peatland pine forests: **1 - rare occurrence**

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

12R Acidophilous spruce forests: **1 - rare occurrence**

## Affinity to the forest environment

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](#), [RC Oxycocco-Sphagnetum](#)

Diagnostic taxon of alliances: [RBB Sphagno warnstorffii-Tomentypnion nitentis](#), [RBC Caricion canescenti-nigrae](#), [RBD Sphagno-Caricion canescentis](#), [RBE Sphagnion cuspidati](#), [RCB Oxycocco palustris-Ericion tetralicis](#), [RCC Oxycocco microcarpi-Empetrion hermaphroditi](#), [VDC Sphagno-Utricularion](#)

Diagnostic taxon of associations: [RBB01 Sphagno warnstorffii-Eriophoretum latifolii](#), [RBB02 Campylio stellati-Trichophoretum alpini](#), [RBB03 Menyantho trifoliatae-Sphagnetum teretis](#), [RBC02 Drosero anglicae-Rhynchosporium albae](#), [RBD02 Sphagno recurvi-Caricetum lasiocarpae](#), [RBE03 Rhynchosporium albae-Sphagnetum tenelli](#), [RCB01 Trichophoro cespitosi-Sphagnetum papillosum](#), [RCC02 Empetro nigri-Sphagnetum fusci](#), [VDC03 Scorpidio scorpioidis-Utricularietum](#)

## Constant taxon

Constant taxon of alliances: [RCB Oxycocco palustris-Ericion tetralicis](#)

Constant taxon of associations: [RBB01 Sphagno warnstorffii-Eriophoretum latifolii](#), [RBB02 Campylio stellati-Trichophoretum alpini](#), [RBB03 Menyantho trifoliatae-Sphagnetum teretis](#), [RBC02 Drosero anglicae-Rhynchosporium albae](#), [RBD02 Sphagno recurvi-Caricetum lasiocarpae](#), [RBE03 Rhynchosporium albae-Sphagnetum tenelli](#), [RCB01 Trichophoro cespitosi-Sphagnetum papillosum](#), [VDC03 Scorpidio scorpioidis-Utricularietum](#)

## Dominant taxon

Dominant taxon of associations: [RBC02 Drosero anglicae-Rhynchosporium albae](#)

## Ecological specialization indices

Ecological specialization index for all vegetation types: **5.1**

Ecological specialization index for non-forest vegetation: **5.2**

Ecological specialization index for forest vegetation: **6.2**

## Colonization ability

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

Index of colonization potential (ICP): **7**

Optimum successional age [years]: **27**

## Distribution and frequency

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

## **meridional**

Floristic region: **circumpolar**

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

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

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: **347**

taxon.data.freq\_in\_quad: **739**

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **1 %**

Occurrence frequency in vegetation plots with a cover above 5%: **10.8 %**

Occurrence frequency in vegetation plots with a cover above 25%: **1.6 %**

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

Mean percentage cover in vegetation plots: **3.9 %**

Maximum percentage cover in vegetation plots: **38 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **17**

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

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

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

## **Threats and protection**

Red List 2017 (national categories): **C3 - vulnerable taxon**

Red List 2017 (IUCN categories): **VU - vulnerable**

Legal protection: **endangered taxon**