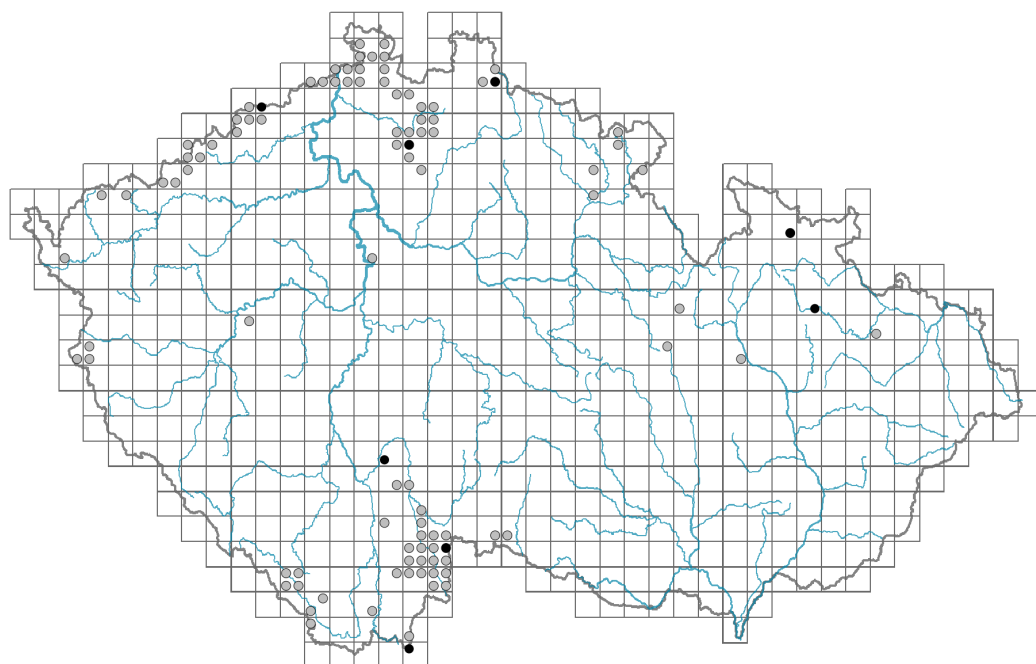


# *Rhododendron tomentosum*

## Distribution

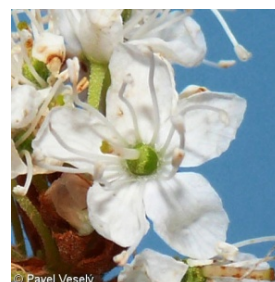
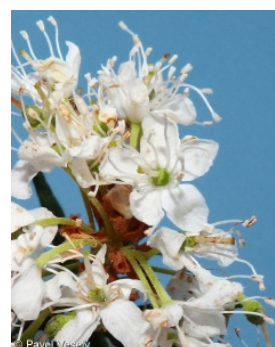


### Map info

● 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]: **0.5-1.5**

Growth form: **shrub**

Life form: **nanophanerophyte (chamaephyte)**

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

Life strategy (Pierce method based on leaf traits): **S/SR**

Life strategy (Pierce method, C-score): **8 %**

Life strategy (Pierce method, S-score): **78.5 %**

Life strategy (Pierce method, R-score): **13.5 %**

## Leaf

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

Leaf arrangement (phyllotaxis): **alternate**

Leaf shape: **simple - entire**

Stipules: **absent**

Petiole: **present**

Leaf life span: **evergreen**

Leaf deciduousness in woody plants: **evergreen**

Leaf anatomy: **scleromorphic, helomorphic**

Functional leaf type in woody plants: **sclerophyllous**

## Flower

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

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: **aposepalous**

Inflorescence type: **racemus**

Dicliny: **synoecious**

Generative reproduction type: **facultative allogamy**

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

## Fruit, seed and dispersal

Fruit type: **dry fruit - capsule**

Fruit colour: **brown**

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

Dispersal unit (diaspore): **seed**

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

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

## Belowground organs and clonality

Shoot life span (cyclicity): **dicyclic or polycyclic shoots prevailing**

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

Primary root: **present**

Position of root buds: **lateral roots**

Role of root buds in life-history of a plant: **additive**

## Bud bank

Number of buds per shoot at the soil surface (root buds excluded):

Number of buds per shoot at a depth of 0–10 cm (root buds excluded):

Number of buds per shoot at a depth greater than 10 cm (root buds excluded):

Size of the belowground bud bank (root buds excluded):

Depth of the belowground bud bank (root buds excluded) [cm]:

Number of buds per shoot at the soil surface (root buds included):

Number of buds per shoot at a depth of 0–10 cm (root buds included): **18**

Number of buds per shoot at a depth greater than 10 cm (root buds included):

Size of the belowground bud bank (root buds included): **48**

Depth of the belowground bud bank (root buds included) [cm]: **7**

## Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

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



© Pavel Veselý



© Pavel Veselý



## Karyology

Chromosome number (2n): **52**

Ploidy level (x): **4**

2C genome size [Mbp]: **2058.6**

1Cx monoploid genome size [Mbp]: **514.65**

Genomic GC content: **41.5 %**

## Taxon origin

Origin in the Czech Republic: **native**

## Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **5x - semi-shade plant, only exceptionally occurring in full light, but usually at more than 10% of the diffuse radiation incident in an open area (generalist)**

Temperature indicator value: **4 - transition between values 3 and 5**

Moisture indicator value: **7 - humidity indicator, focus on well moistened, but not wet soils**

Reaction indicator value: **1 - indicator of strong acidity, never occurring in slightly acidic to alkaline 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: **-1.92**

Herb layer disturbance frequency indicator value: **-1.39**

Whole-community disturbance severity indicator value: **0.18**

Herb layer disturbance severity indicator value: **0.08**

Whole-community structure based disturbance indicator value: **0.15**

Herb layer structure-based disturbance indicator value: **0.05**

## Habitat and sociology

Occurrence in habitats

5 Vegetation of springs and mires

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

11 Heathlands and scrub

11A Dry lowland to subalpine heathlands: **1 - rare occurrence**

12 Forests

12L Boreo-continental pine forests: **1 - rare occurrence**

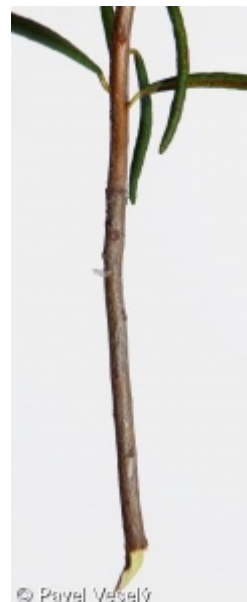
12P Peatland pine forests: **2 - optimum**

12Q Peatland birch forests: **2 - optimum**

12W Pine and larch plantations: **1 - rare occurrence**

Affinity to the forest environment

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 alliances: [LFD \*Vaccinio uliginosi\*-\*Pinion sylvestris\*](#)

Diagnostic taxon of associations: [LFD02 \*Vaccinio uliginosi\*-\*Pinetum sylvestris\*](#),  
[LFD03 \*Vaccinio\*-\*Pinetum montanae\*](#), [RCA04 \*Sphagno\*-\*Pinetum sylvestris\*](#)

## Dominant taxon

Dominant taxon of associations: [LFD02 \*Vaccinio uliginosi\*-\*Pinetum sylvestris\*](#), [LFD03 \*Vaccinio\*-\*Pinetum montanae\*](#)

## Ecological specialization indices

Ecological specialization index for all vegetation types: 7

Ecological specialization index for non-forest vegetation: 6.3

Ecological specialization index for forest vegetation: 7.2

## Colonization ability

Index of colonization success (ICS): 5

Index of colonization potential (ICP): 9

Optimum successional age [years]: 75

## Distribution and frequency

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

Floristic region: **circumpolar**

Continentality degree: 7

Distribution range extension along the continentality gradient: 5

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

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 62

taxon.data.freq\_in\_quad: 100

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.1 %**

Occurrence frequency in vegetation plots with a cover above 5%: **45.5 %**

Occurrence frequency in vegetation plots with a cover above 25%: **20.5 %**

Occurrence frequency in vegetation plots with a cover above 50%: **6.8 %**

Mean percentage cover in vegetation plots: **14.4 %**

Maximum percentage cover in vegetation plots: **63 %**

Number of habitats with taxon occurrence in the Czech Republic

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

Number of narrow habitats in which the taxon has its optimum: **3**

Number of broad habitats in which the taxon occurs: **3**

Number of broad habitats in which the taxon has its optimum: **2**

## Threats and protection

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

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

Legal protection: **vulnerable taxon**

