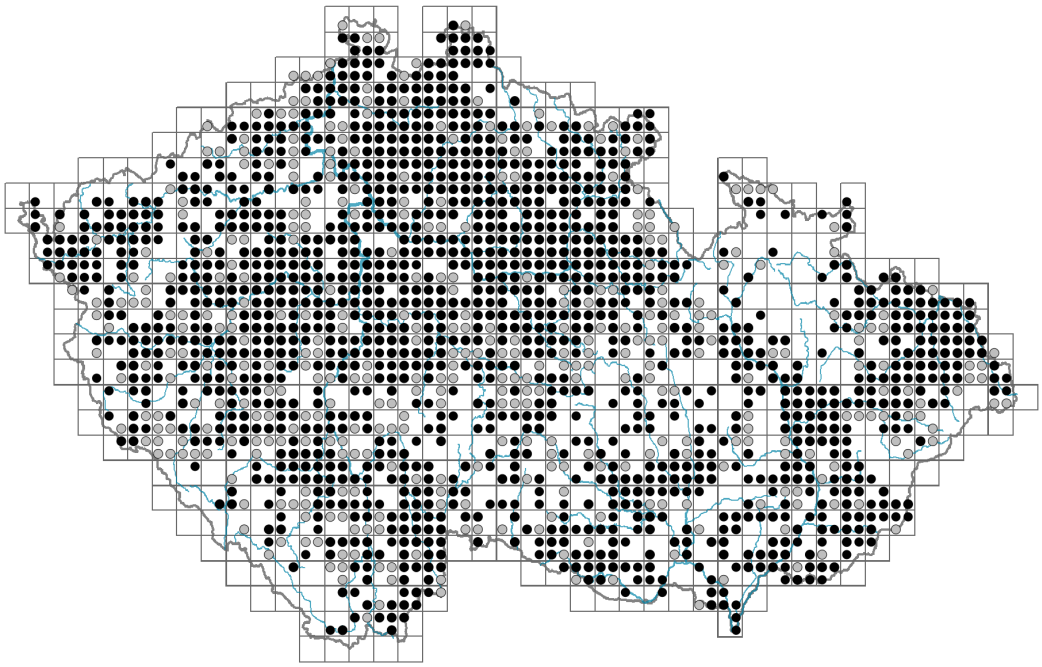
Quercus rubra



Distribution



Map info

revised records

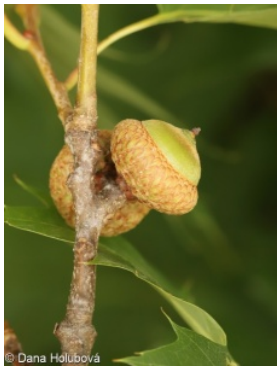
unrevised records

On the map are not visualized records without the coordinates and records marked as incorrect or doubtful.



Habitus and growth type

Height [m]: **20–30**
Growth form: **tree**
Life form: **macrophanerophyte**
Life strategy: **C – competitor**
Life strategy (Pierce method based on leaf traits): **CS/CSR**
Life strategy (Pierce method, C-score): **50.1 %**
Life strategy (Pierce method, S-score): **38 %**
Life strategy (Pierce method, R-score): **11.9 %**



Leaf



Leaf presence and metamorphosis: **leaves present, not modified**
Leaf arrangement (phyllotaxis): **alternate**
Leaf shape: **simple – entire, simple – pinnately divided**
Stipules: **present**
Petiole: **present**
Leaf life span: **summer green**
Leaf deciduousness in woody plants: **winter deciduous**
Leaf anatomy: **mesomorphic**
Functional leaf type in woody plants: **broad deciduous or semi-deciduous**



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Flower



Flowering period [month]: **May**
Flower colour: **green**
Perianth type: **reduced**
Perianth fusion: **reduced**
Inflorescence type: **amentum e floribus masculis, flores solitarii feminei**
Dicliny: **monoecious**
Generative reproduction type: **allogamy**
Pollination syndrome: **wind-pollination**

Fruit, seed and dispersal



Fruit type: **dry fruit – achene/cypsela/samara**
Fruit colour: **brown**
Reproduction type: **only by seed/spores**
Dispersal unit (diaspore): **fruit, infrutescence or its part**
Dispersal strategy: **Cornus (mainly autochory and endozoochory)**
Myrmecochory: **non-myrmecochorous (b)**

Belowground organs and clonality



Bud bank

Number of buds per shoot at the soil surface (root buds excluded): **0**
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): **0**
Number of buds per shoot at the soil surface (root buds included): **0**
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): **0**



Trophic mode

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



Taxon origin

Origin in the Czech Republic: **neophyte**
Invasion status: **invasive**
Geographic origin: **North America**
Period of introduction: **Late Modern Period (1800–1950)**
Introduction pathway: **intentional – ornamental, intentional – nature, intentional – forest**

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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)**

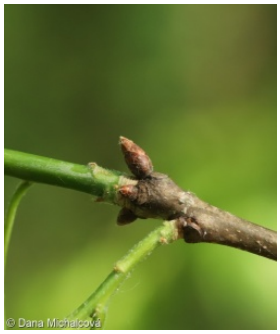
Temperature indicator value: **6 – transition between values 5 and 7**

Moisture indicator value: **5 – indicator of fresh soils, focus on soils of average moisture, missing on wet and on soils that frequently dry out**

Reaction indicator value: **6 – transition between values 5 and 7**

Nutrient indicator value: **5 – occurring at moderately nutrient-rich sites, and less frequently at poor and rich sites**

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



Habitat and sociology

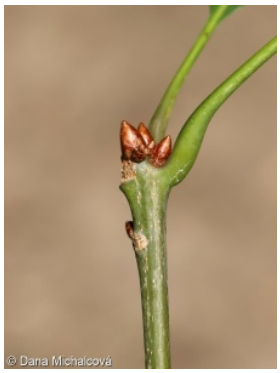
Occurrence in habitats

7 Acidophilous grasslands

7B Submontane Nardus grasslands: **1 – rare occurrence**

8 Dry grasslands

8F Thermophilous forest fringe vegetation: **1 – rare occurrence**



9 Sand grasslands and rock-outcrop vegetation

9C Festuca grasslands on acidic sands: **1 – rare occurrence**

11 Heathlands and scrub

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

11L Tall mesic and xeric shrub: **1 – rare occurrence**

11R Scrub and pioneer woodland of forests clearings: **1 – rare occurrence**

12 Forests

12C Oak-hornbeam forests: **1 – rare occurrence**

12G Acidophilous beech forests: **1 – rare occurrence**

12I Sub-continental thermophilous oak forests: **1 – rare occurrence**

12K Acidophilous oak forests: **2 – optimum**

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

12U Plantations of broad-leaved non-native trees: **3 – dominant**

12W Pine and larch plantations: **2 – optimum**

13 Anthropogenic vegetation

13F Herbaceous vegetation of forests clearings and Rubus scrub: **1 – rare occurrence**

Affinity to the forest environment

Affinity to the forest environment in Thermophyticum: **1.1 – taxon occurring mainly in the closed forest**

Affinity to the forest environment in Mesophyticum and Oreophyticum: **1.1 – taxon occurring mainly in the closed forest**

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.3**

Ecological specialization index for forest vegetation: **4.3**

Colonization ability

Index of colonization success (ICS): **7**

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Index of colonization potential (ICP): **9**
Optimum successional age [years]: **34.5**

Distribution and frequency

Floristic zone: **northern temperate, southern temperate, submeridional, meridional**
Floristic region: **Eastern America**
Distribution range extension along the continentality gradient: **5**
Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 588
taxon.data.freq_in_quad: 1727

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0 %**
Occurrence frequency in vegetation plots with a cover above 5%: **20 %**
Occurrence frequency in vegetation plots with a cover above 25%: **10 %**
Occurrence frequency in vegetation plots with a cover above 50%: **0 %**
Mean percentage cover in vegetation plots: **5.9 %**
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: **14**
Number of narrow habitats in which the taxon has its optimum: **3**
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): **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**

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