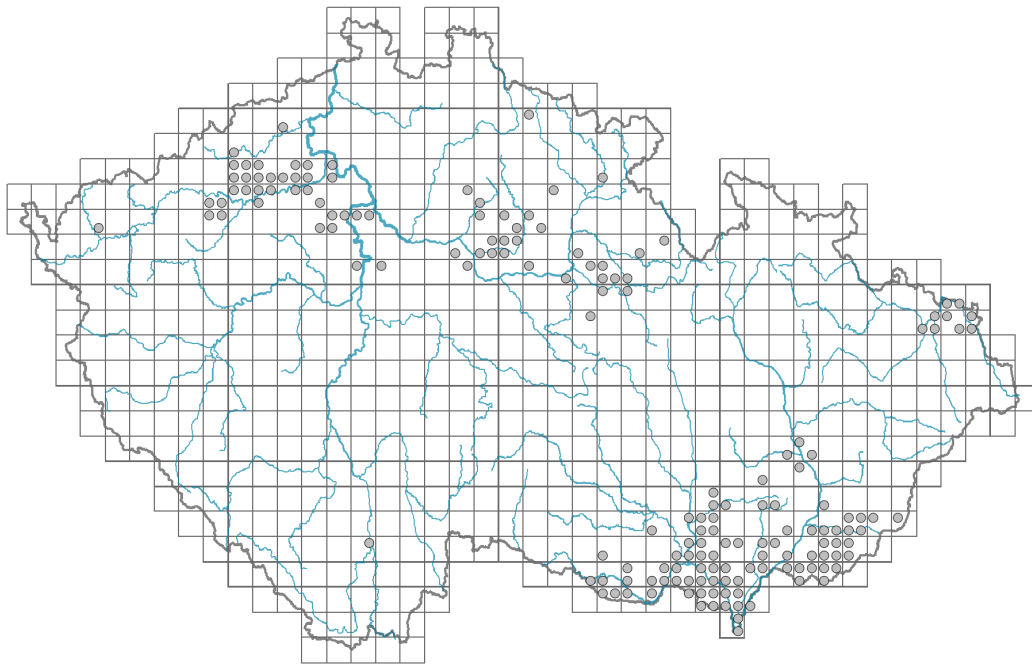


# Lotus tenuis

## Distribution



© Vladimír Nejšlechta

### Map info

● revised records

○ unrevised records

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



© Vladimír Nejšlechta



© Vladimír Nejšlechta



© Vladimír Nejšlechta

## Habitus and growth type

Height [m]: **0.1-0.5**

Growth form: **polycarpic perennial non-clonal herb**

Life form: **hemicryptophyte**

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

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

Life strategy (Pierce method, C-score): **11.2 %**

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

Life strategy (Pierce method, R-score): **88.9 %**

## Leaf

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

Leaf arrangement (phyllotaxis): **alternate**

Leaf shape: **compound - ternate**

Stipules: **absent**

Petiole: **present**

Leaf life span: **summer green**

Leaf anatomy: **mesomorphic**

## Flower

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

Flower colour: **yellow**  
 Flower symmetry: **zygomorphic**  
 Perianth type: **calyx and corolla**  
 Perianth fusion: **free**  
 Calyx fusion: **synsepalous**  
 Inflorescence type: **umbrella**  
 Dicliny: **synoecious**  
 Generative reproduction type: **alogamy self-incompatibility**  
 Pollination syndrome: **insect-pollination**

### Fruit, seed and dispersal

Fruit type: **dry fruit - legume**  
 Fruit colour: **red, brown, grey**  
 Reproduction type: **only by seed/spores**  
 Dispersal unit (diaspore): **seed**  
 Dispersal strategy: **Allium (mainly autochory)**  
 Myrmecochory: **non-myrmecochorous (b)**

### Belowground organs and clonality

Shoot metamorphosis: **pleiocorm**  
 Storage organ: **pleiocorm**  
 Shoot life span (cyclicality): **monocyclic shoots prevailing**  
 Branching type of stem-derived organs of clonal growth: **sympodial**  
 Primary root: **present**

#### Bud bank

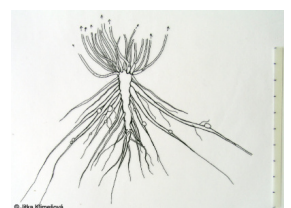
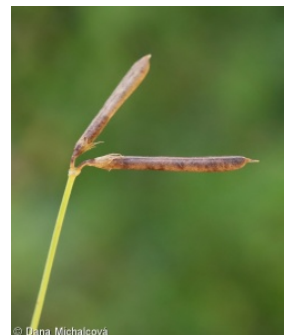
Number of buds per shoot at the soil surface (root buds excluded): **5**  
 Number of buds per shoot at a depth of 0–10 cm (root buds excluded): **3**  
 Number of buds per shoot at a depth greater than 10 cm (root buds excluded): **0**  
 Size of the belowground bud bank (root buds excluded): **8**  
 Depth of the belowground bud bank (root buds excluded) [cm]: **2**  
 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): **3**  
 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): **8**  
 Depth of the belowground bud bank (root buds included) [cm]: **2**

### Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**  
 Carnivory: **non-carnivorous**  
 Symbiotic nitrogen fixation: **symbiosis with rhizobia**

### Karyology

Chromosome number (2n): **12**  
 Ploidy level (x): **2**  
 2C genome size [Mbp]: **1137.56**



1Cx monoploid genome size [Mbp]: **568.78**

Genomic GC content: **40.2 %**

## Taxon origin

Origin in the Czech Republic: **native**

## Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **7 - half-light plant, mostly occurring at full light, but also in the shade up to about 30% of diffuse radiation incident in an open area**

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

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

Reaction indicator value: **8 - transition between values 7 and 9, occurring mostly in calcium-rich conditions**

Nutrient indicator value: **6 - transition between values 5 and 7**

Salinity indicator value: **6 -  $\alpha$ -meso/polyhaline, on soils with moderate to high salt content**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-0.33**

Herb layer disturbance frequency indicator value: **-0.1**

Whole-community disturbance severity indicator value: **0.33**

Herb layer disturbance severity indicator value: **0.36**

Whole-community structure based disturbance indicator value: **0.58**

Herb layer structure-based disturbance indicator value: **0.65**

## Habitat and sociology

Occurrence in habitats

4 Wetland and riverine herbaceous vegetation

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

4C Eutrophic vegetation of muddy substrata: **1 - rare occurrence**

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

4I Vegetation of nitrophilous annual hygrophilous herbs: **1 - rare occurrence**

6 Meadows and mesic pastures

6C Pastures and park grasslands: **1 - rare occurrence**

6D Alluvial meadows of lowland rivers: **1 - rare occurrence**

6G Vegetation of wet disturbed soils: **2 - optimum**

10 Saline vegetation

10G Continental vegetation of annual halophilous grasses: **1 - rare occurrence**

10I Inland saline meadows: **2 - optimum**

10J Saline steppes: **2 - optimum**

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**

**does not spontaneously occur in Czech forests**

## Diagnostic taxon

Diagnostic taxon of classes: [TC Festuco-Puccinellietea](#)Diagnostic taxon of alliances: [TCA Puccinellion limosae](#), [TCB Juncion gerardii](#)Diagnostic taxon of associations: [MCB01 Astero pannonici-Bolboschoenetum compacti](#), [MCC04 Eleocharito palustris-Hippuridetum vulgaris](#), [TAA02 Heleochloëtum schoenoidis](#), [TCA01 Puccinellietum limosae](#), [TCB01 Scorzonero parviflorae-Juncetum gerardii](#), [TCB02 Loto tenuis-Potentilletum anserinae](#), [TCB03 Agrostio stoloniferae-Juncetum ranarii](#), [TDE03 Lathyro palustris-Gratioletum officinalis](#)

## Constant taxon

Constant taxon of classes: [TC Festuco-Puccinellietea](#)Constant taxon of alliances: [TCA Puccinellion limosae](#), [TCB Juncion gerardii](#)Constant taxon of associations: [MBB04 Chenopodio chenopodioidis-Atriplicetum prostratae](#), [TCA01 Puccinellietum limosae](#), [TCB01 Scorzonero parviflorae-Juncetum gerardii](#), [TCB02 Loto tenuis-Potentilletum anserinae](#)

## Dominant taxon

Dominant taxon of associations: [MCB01 Astero pannonici-Bolboschoenetum compacti](#), [TCB01 Scorzonero parviflorae-Juncetum gerardii](#), [TCB02 Loto tenuis-Potentilletum anserinae](#)

## Ecological specialization indices

Ecological specialization index for all vegetation types: **5**Ecological specialization index for non-forest vegetation: **5**

## Colonization ability

Index of colonization success (ICS): **2**Index of colonization potential (ICP): **2**Optimum successional age [years]: **10****Distribution and frequency**Floristic zone: **northern temperate, southern temperate, submeridional, meridional**Floristic region: **Europe, Western Asia**Continental degree: **6**Distribution range extension along the continentality gradient: **6**Elevational belt in the Czech Republic: **lowlands, colline belt**Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: **93**taxon.data.freq\_in\_quad: **167**

## Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.4 %**Occurrence frequency in vegetation plots with a cover above 5%: **35.2 %**Occurrence frequency in vegetation plots with a cover above 25%: **8.3 %**Occurrence frequency in vegetation plots with a cover above 50%: **0.9 %**Mean percentage cover in vegetation plots: **8.2 %**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: **10**

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

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

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

### **Threats and protection**

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

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

Legal protection: **not protected by law**