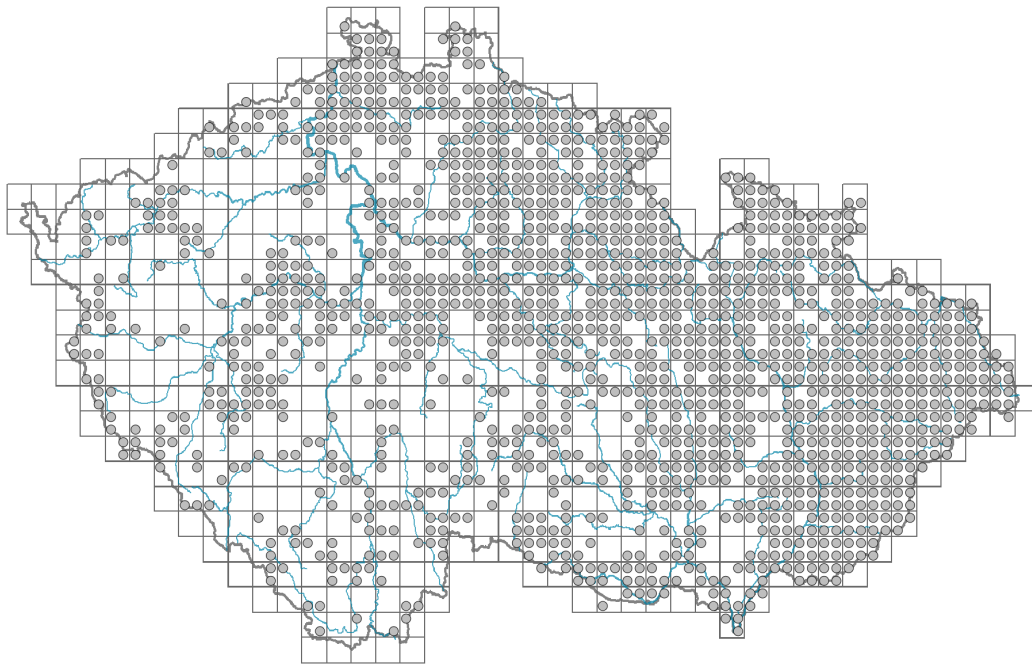


Circaea lutetiana

Distribution



© Pavel Veselý

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]: **0.2-0.8**

Growth form: **clonal herb**

Life form: **geophyte**

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

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

Life strategy (Pierce method, C-score): **39 %**

Life strategy (Pierce method, S-score): **12.1 %**

Life strategy (Pierce method, R-score): **48.9 %**

Leaf

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

Leaf arrangement (phyllotaxis): **opposite**

Leaf shape: **simple - entire**

Stipules: **absent**

Petiole: **present**

Leaf life span: **summer green**

Leaf anatomy: **hygromorphic**

Flower

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



© Aleš Zvara



© Josef Klíř

Flowering phase: **8 Clematis vitalba-Galium sylvaticum (mid-summer)**

Flower colour: **white**

Flower symmetry: **actinomorphic**

Perianth type: **calyx and corolla**

Perianth fusion: **free**

Calyx fusion: **hypanthium**

Inflorescence type: **racemus**

Dicliny: **synoecious**

Generative reproduction type: **mixed mating**

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

Fruit, seed and dispersal

Fruit type: **dry fruit - achene/cypsela/samara**

Fruit colour: **brown**

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

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

Dispersal strategy: **Bidens (mainly autochory and epizoochory)**

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

Belowground organs and clonality

Shoot metamorphosis: **stolon, stolon with tuberous tip**

Storage organ: **stolon, stolon with tuberous tip**

Type of clonal growth organ: **belowground stem tuber**

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

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

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

Primary root: **absent**

Persistence of the clonal growth organ [year]: **1**

Number of clonal offspring: **6**

Lateral spreading distance by clonal growth [m]: **0.13**

Clonal index: **5**

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): **14**

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): **19**

Depth of the belowground bud bank (root buds excluded) [cm]: **4**

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): **14**

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

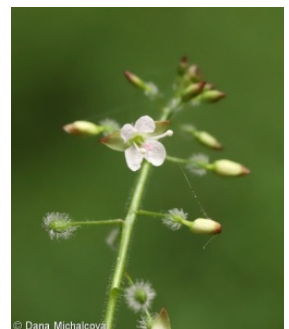
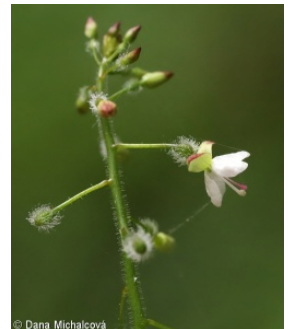
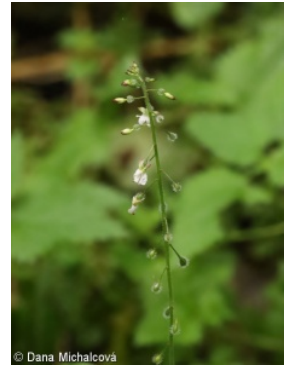
Size of the belowground bud bank (root buds included): **19**

Depth of the belowground bud bank (root buds included) [cm]: **4**

Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**



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

Karyology

Chromosome number (2n): **22**

Ploidy level (x): **2**

2C genome size [Mbp]: **1031.01**

1Cx monoploid genome size [Mbp]: **515.51**

Genomic GC content: **40.8 %**

Taxon origin

Origin in the Czech Republic: **native**

Ecological indicator values

Ellenberg-type indicator values

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

Temperature indicator value: **5 - moderate heat indicator, occurring from lowland to montane belt, mainly in submontane-temperate areas**

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

Reaction indicator value: **7 - indicator of slightly acidic to slightly basic conditions, never occurring in very acidic conditions**

Nutrient indicator value: **7 - occurring at nutrient-rich sites more often than at average sites and only exceptionally at poor sites**

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

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.91**

Herb layer disturbance frequency indicator value: **-0.69**

Whole-community disturbance severity indicator value: **0.28**

Herb layer disturbance severity indicator value: **0.13**

Whole-community structure based disturbance indicator value: **0.16**

Herb layer structure-based disturbance indicator value: **0.25**

Habitat and sociology

Occurrence in habitats

4 Wetland and riverine herbaceous vegetation

4D Riverine reed vegetation: **1 - rare occurrence**

4K Petasites fringes of montane brooks: **1 - rare occurrence**

4L Nitrophilous herbaceous fringes of lowland rivers: **1 - rare occurrence**

5 Vegetation of springs and mires

5B Lowland to montane soft-water springs: **1 - rare occurrence**

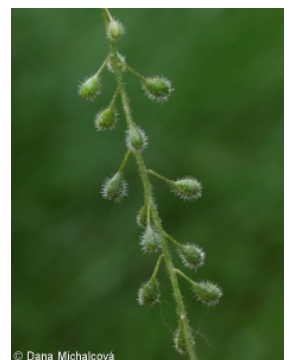
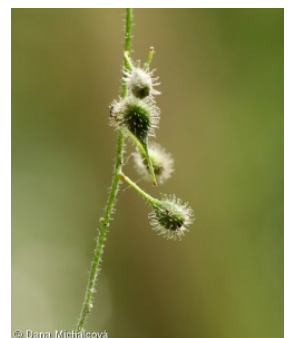
11 Heathlands and scrub

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

11J Willow galleries of loamy and sandy river banks: **1 - rare occurrence**

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

12 Forests



- 12A Alder carrs: **1 - rare occurrence**
 12B Alluvial forests: **2 - optimum**
 12C Oak-hornbeam forests: **2 - optimum**
 12D Ravine forests: **2 - optimum**
 12E Herb-rich beech forests: **2 - optimum**
 12F Limestone beech forests: **1 - rare occurrence**
 12I Sub-continental thermophilous oak forests: **1 - rare occurrence**
 12K Acidophilous oak forests: **1 - rare occurrence**
 12U Plantations of broad-leaved non-native trees: **1 - rare occurrence**
 12V Spruce plantations: **1 - rare occurrence**
 12W Pine and larch plantations: **1 - rare occurrence**

13 Anthropogenic vegetation

- 13E Perennial nitrophilous herbaceous vegetation of mesic sites: **2 - optimum**
 13F Herbaceous vegetation of forests clearings and *Rubus* scrub: **2 - optimum**

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**

Diagnostic taxon

Diagnostic taxon of alliances: [LBA *Alnion incanae*](#)

Diagnostic taxon of associations: [LBA07 *Fraxino pannonicae-Ulmetum glabrae*](#), [XDC01 *Stachyo sylvaticae-Impatientetum noli-tangere*](#), [XDC04 *Carici pendulae-Eupatorietum cannabini*](#)

Constant taxon

Constant taxon of associations: [LBA07 *Fraxino pannonicae-Ulmetum glabrae*](#), [XDC01 *Stachyo sylvaticae-Impatientetum noli-tangere*](#), [XDC04 *Carici pendulae-Eupatorietum cannabini*](#)

Ecological specialization indices

- Ecological specialization index for all vegetation types: **5.4**
 Ecological specialization index for non-forest vegetation: **4.7**
 Ecological specialization index for forest vegetation: **5.5**

Colonization ability

- Index of colonization success (ICS): **6**
 Index of colonization potential (ICP): **3**
 Optimum successional age [years]: **35**

Distribution and frequency

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

Floristic region: **Europe, Asia, Americas**

Distribution range extension along the continentality gradient: **5**

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

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: **526**

taxon.data.freq_in_quad: **1429**

Commonness in vegetation plots from the Czech Republic



Occurrence frequency in vegetation plots: **1.5 %**
 Occurrence frequency in vegetation plots with a cover above 5%: **7.7 %**
 Occurrence frequency in vegetation plots with a cover above 25%: **0.9 %**
 Occurrence frequency in vegetation plots with a cover above 50%: **0 %**
 Mean percentage cover in vegetation plots: **3.2 %**
 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: **20**
 Number of narrow habitats in which the taxon has its optimum: **6**
 Number of broad habitats in which the taxon occurs: **5**
 Number of broad habitats in which the taxon has its optimum: **2**

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**

