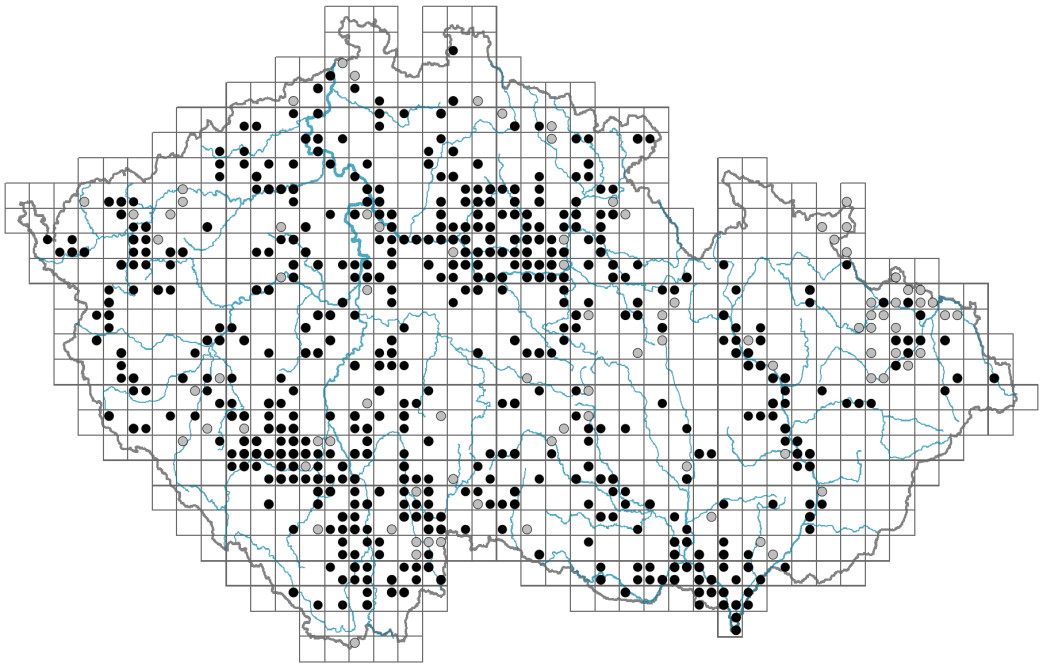
Lemna gibba

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]: **0.002–0.006**
Growth form: **clonal herb**
Life form: **hydrophyte**
Life strategy (Pierce method based on leaf traits): **R**
Life strategy (Pierce method, C-score): **0 %**
Life strategy (Pierce method, S-score): **0 %**
Life strategy (Pierce method, R-score): **100 %**

Leaf

Leaf presence and metamorphosis: **leaves absent**
Stipules: **absent**
Leaf anatomy: **hydromorphic**

Flower

Flowering period [month]: **May–June**
Perianth type: **flower achlamydeous**
Dicliny: **monoecious**
Generative reproduction type: **facultative allogamy**
Pollination syndrome: **wind-pollination, water-pollination, insect-pollination, selfing**

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Fruit, seed and dispersal

Fruit type: **dry fruit – follicle**
Reproduction type: **mostly vegetatively, rarely by seed/spores**
Dispersal unit (diaspore): **seed, fruit, infrutescence or its part, budding**
Dispersal strategy: **Wolffia (mainly hydrochory)**
Myrmecochory: **non-myrmecochorous (b)**

Belowground organs and clonality

Shoot metamorphosis: **stolon, turion**
Storage organ: **turion**
Type of clonal growth organ: **budding plant**
Freely dispersible organs of clonal growth: **present**
Primary root: **absent**
Persistence of the clonal growth organ [year]: **1**
Number of clonal offspring: **13.2**
Lateral spreading distance by clonal growth [m]: **0**
Clonal index: **7**

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**

Karyology

Chromosome number (2n): **40 (50, 70, 80)**
Ploidy level (x): **4**
2C genome size [Mbp]: **1011.64**
1Cx monoploid genome size [Mbp]: **252.91**
Genomic GC content: **45.2 %**

Taxon origin

Origin in the Czech Republic: **native**

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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: **6 – transition between values 5 and 7**

Moisture indicator value: **11 – aquatic plant rooted under water, but at least temporarily with leaves above the surface, or a plant floating on the water surface**

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

Nutrient indicator value: **8 – pronounced nutrient indicator**

Salinity indicator value: **1 – salt tolerant, mostly on low-salt to salt-free soils, but occasionally on slightly salty soils**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-0.32**

Herb layer disturbance frequency indicator value: **-0.32**

Whole-community disturbance severity indicator value: **0.21**

Herb layer disturbance severity indicator value: **0.24**

Whole-community structure based disturbance indicator value: **0.55**

Herb layer structure-based disturbance indicator value: **0.59**

Habitat and sociology

Occurrence in habitats

3 Aquatic vegetation

3A Macrophytic vegetation of eutrophic and mesotrophic still waters: **2 – optimum**

3B Macrophytic vegetation of water streams: **1 – rare occurrence**

4 Wetland and riverine herbaceous vegetation

4A Reed-beds of eutrophic still waters: **2 – optimum**

4B Halophilous reed and sedge beds: **1 – rare occurrence**

4C Eutrophic vegetation of muddy substrata: **2 – optimum**

4E Reed vegetation of brooks: **1 – rare occurrence**

4F Mesotrophic vegetation of muddy substrata: **1 – rare occurrence**

4I Vegetation of nitrophilous annual hygrophilous herbs: **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**

12 Forests

12A Alder carrs: **1 – rare occurrence**

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: **VA *Lemnetea***

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Diagnostic taxon of alliances: **VAA *Lemnion minoris***
Diagnostic taxon of associations: **VAA03 *Lemnetum minori-turioniferae*, VAA05 *Lemnetum gibbae***

Constant taxon

Constant taxon of associations: **VAA03 *Lemnetum minori-turioniferae*, VAA05 *Lemnetum gibbae***

Dominant taxon

Dominant taxon of associations: **MCE04 *Nasturtietum officinalis*, VAA05 *Lemnetum gibbae***

Ecological specialization indices

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

Distribution and frequency

Floristic zone: **northern temperate, southern temperate, submeridional, meridional, subtropical, tropical, austral or antarctic**
Floristic region: **Europe, Asia, Africa, Americas**
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: 337
taxon.data.freq_in_quad: 592

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **1.4 %**
Occurrence frequency in vegetation plots with a cover above 5%: **53.2 %**
Occurrence frequency in vegetation plots with a cover above 25%: **39.7 %**
Occurrence frequency in vegetation plots with a cover above 50%: **32.1 %**
Mean percentage cover in vegetation plots: **31.9 %**
Maximum percentage cover in vegetation plots: **88 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **11**
Number of narrow habitats in which the taxon has its optimum: **3**
Number of broad habitats in which the taxon occurs: **4**
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**

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