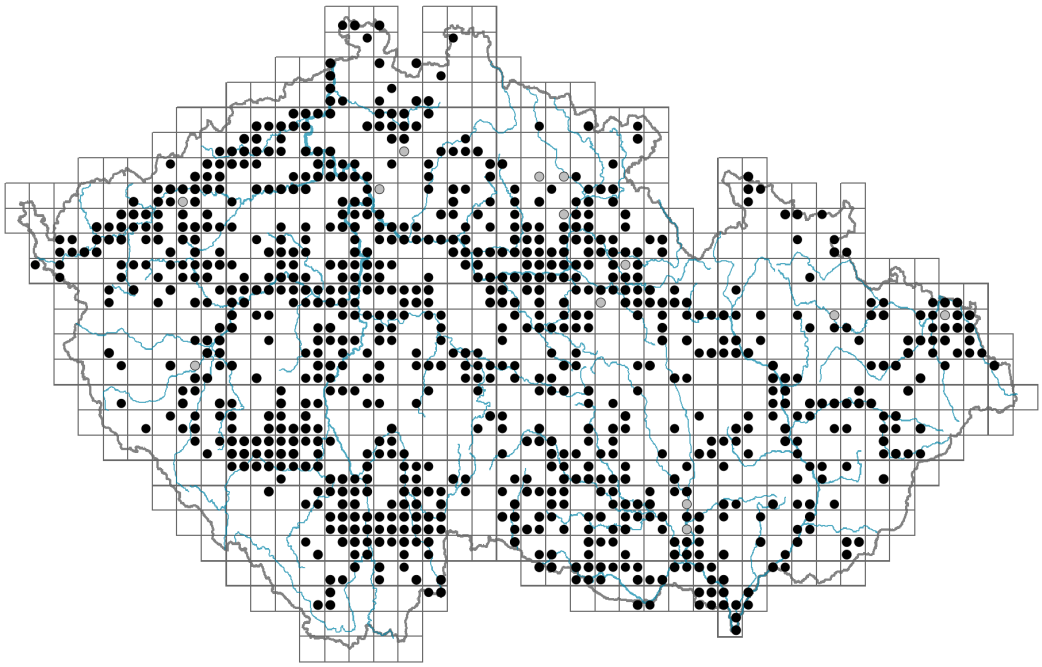
Myriophyllum spicatum

Distribution





Map info

revised records

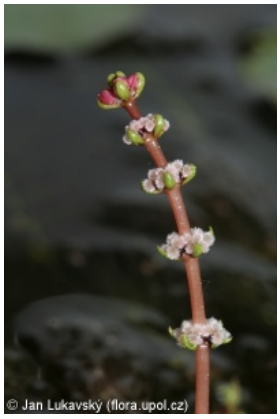
unrevised records

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









Habitus and growth type

Height [m]: **0.4–3**
Growth form: **clonal herb**
Life form: **hydrophyte**
Life strategy (Pierce method based on leaf traits): **SR**
Life strategy (Pierce method, C-score): **1.1 %**
Life strategy (Pierce method, S-score): **44.9 %**
Life strategy (Pierce method, R-score): **54.1 %**

Leaf

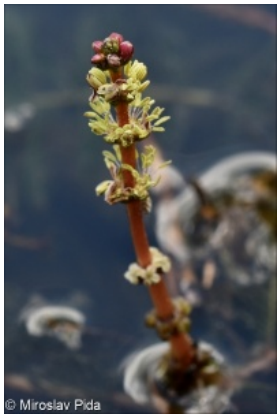
Leaf presence and metamorphosis: **leaves present, not modified**
Leaf arrangement (phyllotaxis): **verticillate**
Leaf shape: **simple – pinnately divided**
Stipules: **absent**
Petiole: **absent**

Flower

Flowering period [month]: **June–September**
Flower colour: **red**
Perianth type: **reduced or absent**
Perianth fusion: **reduced**

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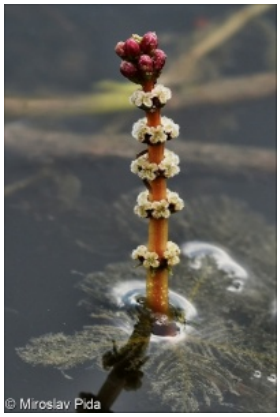
Calyx fusion: **aposepalous**
Inflorescence type: **spica**
Generative reproduction type: **facultative allogamy**



Fruit, seed and dispersal

Fruit type: **dry fruit – cluster of four one-seeded nutlets**
Dispersal unit (diaspore): **fruit, infrutescence or its part, shoot fragment**
Dispersal strategy: **Wolffia (mainly hydrochory)**
Myrmecochory: **non-myrmecochorous (b)**

Belowground organs and clonality



Type of clonal growth organ: **stolon**
Freely dispersible organs of clonal growth: **present**
Shoot life span (cyclicity): **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: **8**
Lateral spreading distance by clonal growth [m]: **0.13**
Clonal index: **7**

Bud bank



Number of buds per shoot at the soil surface (root buds excluded): **8**
Number of buds per shoot at a depth of 0–10 cm (root buds excluded): **5**
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): **13**
Depth of the belowground bud bank (root buds exluded) [cm]: **3**
Number of buds per shoot at the soil surface (root buds included): **8**
Number of buds per shoot at a depth of 0–10 cm (root buds included): **5**
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): **13**
Depth of the belowground bud bank (root buds included) [cm]: **3**

Trophic mode



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

Karyology



Chromosome number (2n): **42 (28, 36)**
Ploidy level (x): **6 (2, 3)**
2C genome size [Mbp]: **1554.08**
1Cx monoploid genome size [Mbp]: **259.01**
Genomic GC content: **38 %**

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Taxon origin



Origin in the Czech Republic: **native**

Ecological indicator values

Ellenberg-type indicator values



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

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

Moisture indicator value: **12 – permanently or almost permanently submerged aquatic plant**

Reaction indicator value: **8 – transition between values 7 and 9, occurring mostly in calcium-rich 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: **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: **-0.5**

Herb layer disturbance frequency indicator value: **-0.5**

Whole-community disturbance severity indicator value: **0.14**

Herb layer disturbance severity indicator value: **0.18**

Whole-community structure based disturbance indicator value: **0.53**

Herb layer structure-based disturbance indicator value: **0.53**

Habitat and sociology

Occurrence in habitats

3 Aquatic vegetation

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

3B Macrophytic vegetation of water streams: **3 – dominant**

3C Macrophytic vegetation of oligotrophic lakes and pools: **1 – rare occurrence**

4 Wetland and riverine herbaceous vegetation

4A Reed-beds of eutrophic still waters: **1 – rare occurrence**

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

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

4H Vegetation of low annual hygrophilous herbs: **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: **VB *Potametea***

Diagnostic taxon of associations: **VBB07 *Potamo pectinati-Myriophylletum spicati***, **VBB16 *Najadetum marinae***, **VBB17 *Najadetum minoris***, **VBD07 *Callitrichetum***

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hermaphroditicae

Constant taxon

Constant taxon of associations: **VBB07 *Potamo pectinati-Myriophylletum spicati***, **VBB16 *Najadetum marinae***, **VBD07 *Callitrichetum hermaphroditicae***

Dominant taxon

Dominant taxon of associations: **VBB07 *Potamo pectinati-Myriophylletum spicati***, **VBB08 *Myriophylletum verticillati***

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.6**
Ecological specialization index for non-forest vegetation: **4.4**

Colonization ability

Index of colonization success (ICS): **2**
Index of colonization potential (ICP): **2**
Optimum successional age [years]: **22.5**

Distribution and frequency

Distribution range extension along the continentality gradient: **9**
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: 431
taxon.data.freq_in_quad: 887

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **1.1 %**
Occurrence frequency in vegetation plots with a cover above 5%: **45.7 %**
Occurrence frequency in vegetation plots with a cover above 25%: **33.2 %**
Occurrence frequency in vegetation plots with a cover above 50%: **31.4 %**
Mean percentage cover in vegetation plots: **28.8 %**
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: **7**
Number of narrow habitats in which the taxon has its optimum: **2**
Number of broad habitats in which the taxon occurs: **2**
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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