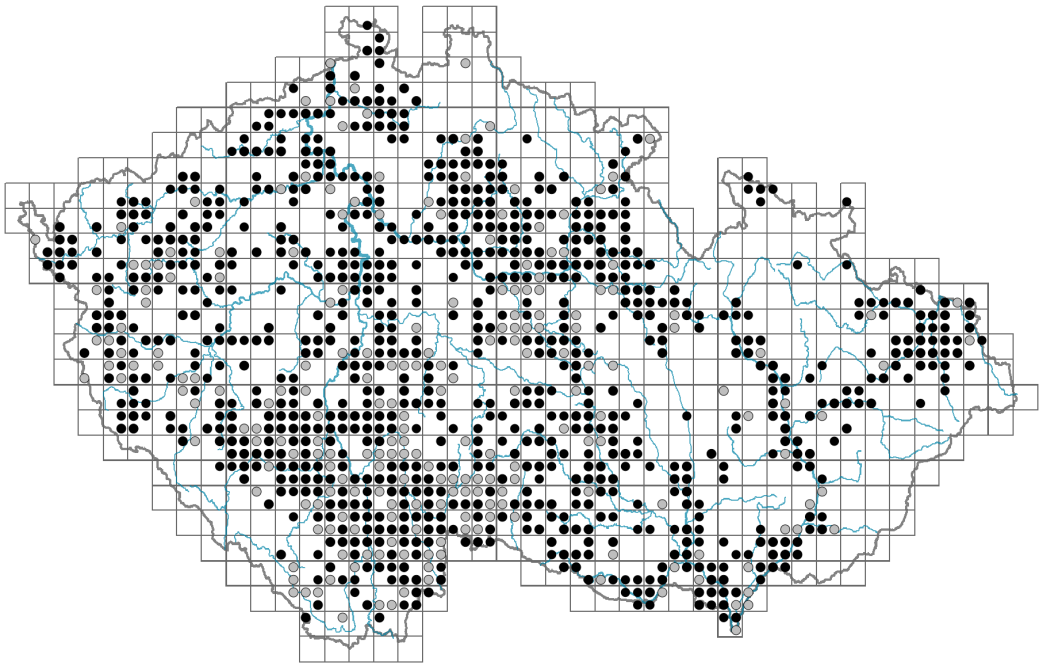
Oenanthe aquatica

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]: **0.3–1.5**
Growth form: **monocarpic perennial non-clonal herb**
Life form: **therophyte (hemicryptophyte)**
Life strategy: **CS – competitor/stress-tolerator**
Life strategy (Pierce method based on leaf traits): **CR**
Life strategy (Pierce method, C-score): **57.2 %**
Life strategy (Pierce method, S-score): **0 %**
Life strategy (Pierce method, R-score): **42.8 %**

Leaf

Leaf presence and metamorphosis: **leaves present, not modified**
Leaf arrangement (phyllotaxis): **alternate**
Leaf shape: **compound – bipinnate, compound – tripinnate**
Stipules: **absent**
Petiole: **present**
Leaf life span: **evergreen**
Leaf anatomy: **hydromorphic**

Flower

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

Flowering phase: **8 Clematis vitalba-Galium sylvaticum (mid-summer)**
Flower colour: **white**
Flower symmetry: **actinomorphic**
Perianth type: **calyx reduced, corolla present**
Perianth fusion: **free**
Calyx fusion: **aposepalous**
Inflorescence type: **umbella composita**
Dicliny: **andromonoecious**
Generative reproduction type: **mixed mating**
Pollination syndrome: **insect-pollination, selfing**

Fruit, seed and dispersal

Fruit type: **dry fruit – cremocarp**
Fruit colour: **brown**
Reproduction type: **by seed/spores and vegetatively**
Dispersal unit (diaspore): **fruit, infrutescence or its part**
Dispersal strategy: **Sparganium (mainly autochory and hydrochory)**
Myrmecochory: **non-myrmecochorous (b)**

Belowground organs and clonality

Shoot metamorphosis: **stolon, rhizome**
Storage organ: **stolon, rhizome**
Shoot life span (cyclicity): **dicyclic or polycyclic shoots prevailing**
Primary root: **present**
Number of clonal offspring: **0**

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): **8**
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): **5**
Number of buds per shoot at a depth of 0–10 cm (root buds included): **8**
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): **22**
Ploidy level (x): **2**

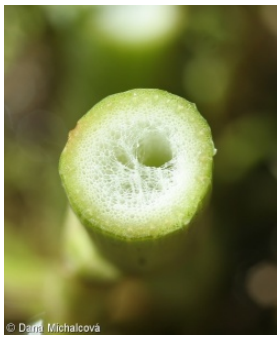
2C genome size [Mbp]: **1667.98**
1Cx monoploid genome size [Mbp]: **833.99**
Genomic GC content: **38.5 %**

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: **10 – aquatic plant that survives long periods without soil flooding**
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: **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: **-0.63**
Herb layer disturbance frequency indicator value: **-0.57**
Whole-community disturbance severity indicator value: **0.3**
Herb layer disturbance severity indicator value: **0.33**
Whole-community structure based disturbance indicator value: **0.6**
Herb layer structure-based disturbance indicator value: **0.61**

Habitat and sociology

Occurrence in habitats

3 Aquatic vegetation

3A Macrophytic vegetation of eutrophic and mesotrophic still waters: **1 – rare occurrence**
3C Macrophytic vegetation of oligotrophic lakes and pools: **2 – optimum**

4 Wetland and riverine herbaceous vegetation

4A Reed-beds of eutrophic still waters: **2 – optimum**
4B Halophilous reed and sedge beds: **2 – optimum**
4C Eutrophic vegetation of muddy substrata: **2 – optimum**
4D Riverine reed vegetation: **1 – rare occurrence**
4E Reed vegetation of brooks: **1 – rare occurrence**
4F Mesotrophic vegetation of muddy substrata: **1 – rare occurrence**
4G Tall-sedge beds: **1 – rare occurrence**
4H Vegetation of low annual hygrophilous herbs: **2 – optimum**
4I Vegetation of nitrophilous annual hygrophilous herbs: **2 – optimum**

6 Meadows and mesic pastures

6G Vegetation of wet disturbed soils: **1 – rare occurrence**

10 Saline vegetation

10I Inland saline meadows: **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: **2.2 – taxon occurring partly in the forest, but mainly in open vegetation**

Affinity to the forest environment in Mesophyticum and Oreophyticum: **2.2 – taxon occurring partly in the forest, but mainly in open vegetation**

Diagnostic taxon

Diagnostic taxon of classes: **MA *Isoëto-Nano-Juncetea*, MB *Bidentetea tripartitae***

Diagnostic taxon of alliances: **MAA *Eleocharition ovatae*, MBA *Bidention tripartitae*, MCC *Eleocharito palustris-Sagittarion sagittifoliae***

Diagnostic taxon of associations: **MBA01 *Rumici maritimi-Ranunculetum scelerati*, MBA04 *Polygono brittingeri-Chenopodietum rubri*, MBA05 *Corrigiolo littoralis-Bidentetum radiatae*, MCC01 *Oenanthetum aquaticae*, MCC05 *Scirpetum radicantis***

Constant taxon

Constant taxon of associations: **MBA01 *Rumici maritimi-Ranunculetum scelerati*, MBA04 *Polygono brittingeri-Chenopodietum rubri*, MBA05 *Corrigiolo littoralis-Bidentetum radiatae*, MBB04 *Chenopodio chenopodioidis-Atriplicetum prostratae*, MCC01 *Oenanthetum aquaticae*, MCC05 *Scirpetum radicantis*, MCC11 *Bolboschoenetum yagarae***

Dominant taxon

Dominant taxon of associations: **MCC01 *Oenanthetum aquaticae*, MCC02 *Oenantho aquaticae-Rorippetum amphibiae*, MCC09 *Batrachio circinati-Alismatetum graminei***

Ecological specialization indices

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

Ecological specialization index for non-forest vegetation: **4.4**

Ecological specialization index for forest vegetation: **5.1**

Colonization ability

Index of colonization success (ICS): **3**

Index of colonization potential (ICP): **2**

Optimum successional age [years]: **30**

Distribution and frequency

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

Floristic region: **Europe, Western Asia**

Distribution range extension along the continentality gradient: **8**

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: 452

taxon.data.freq_in_quad: 1060

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **2.6 %**
Occurrence frequency in vegetation plots with a cover above 5%: **27.7 %**
Occurrence frequency in vegetation plots with a cover above 25%: **17 %**
Occurrence frequency in vegetation plots with a cover above 50%: **8.3 %**
Mean percentage cover in vegetation plots: **12.3 %**
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: **16**
Number of narrow habitats in which the taxon has its optimum: **6**
Number of broad habitats in which the taxon occurs: **6**
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**