

# *Marsilea quadrifolia*

## Habitus and growth type

Plant height [m]: **0.14**

Life span: **Perennial**

Life form: **Hydrophyte**

## Flower

Flowering period: **May-September**

## Fruit, seed and dispersal

Dispersal mode: **Hydrochory**

## Trophic mode

Parasitism and mycoheterotrophy: **autotroph**

Carnivory: **non-carnivorous**

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

## Taxon origin

Origin in Europe: **Native**

## Ecology

### Environmental relationships

Substrate humidity relationship: **Water**

Substrate reaction relationship: **Alkaline**

Nutrient relationship: **Eutrophic**

Salinity relationship: **Non-saline**

### Ellenberg-type indicator values

Light indicator value: **8**

Temperature indicator value: **7.8**

Moisture indicator value: **10**

Reaction indicator value: **6.8**

Nutrient indicator value: **6**

Salinity indicator value: **0**

### Disturbance indicator values

Disturbance frequency: **1.68**

Disturbance frequency (herb layer): **1.68**

Disturbance severity: **0.42**

Disturbance severity (herb layer): **0.42**

Mowing frequency: **0.18**

Grazing pressure: **0.08**

Soil disturbance: **0.2**

## Habitat and sociology

Syntaxon

Diagnostic species of phytosociological classes: [OB \(LIT\) \*Littorelletea uniflorae\*](#)

EUNIS habitat

Diagnostic species of EUNIS habitats: [V14 Inundated or inundatable cropland, including rice fields](#)

Constant species of EUNIS habitats: [V14 Inundated or inundatable cropland, including rice fields](#)

Broad habitat

Occurrence in broad habitats: **Aquatic, Synanthropic**

## Distribution

Continentality amplitude: **5**