

# *Caltha palustris*

## Habitus and growth type

Plant height [m]: **0.33**

Life span: **Perennial**

Life form: **Hemicryptophyte**

## Leaf

Specific leaf area [mm<sup>2</sup>/mg]: **27.39**

## Flower

Flowering period: **February-June**

## Fruit, seed and dispersal

Seed mass [mg]: **0.98**

Dispersal mode: **Local non-specific dispersal**

Dispersal distance class: **2**

## 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: **Wet**

Substrate reaction relationship: **Slightly acidic to near-neutral**

Nutrient relationship: **Eutrophic**

Salinity relationship: **Non-saline**

### Ellenberg-type indicator values

Temperature indicator value: **4.6**

Moisture indicator value: **9**

Reaction indicator value: **4.8**

Salinity indicator value: **0**

### Disturbance indicator values

Disturbance frequency: **0.77**

Disturbance frequency (herb layer): **1.58**

Disturbance severity: **0.5**

Disturbance severity (herb layer): **0.41**

Mowing frequency: **0.41**

Grazing pressure: **0.18**

Soil disturbance: **0.12**

## Habitat and sociology

### Syntaxon

Diagnostic species of phytosociological classes: [CM \(MOL\) \*Molinio-Arrhenatheretea\*](#),  
[OA \(MON\) \*Montio-Cardaminetea\*](#)

### EUNIS habitat

Diagnostic species of EUNIS habitats: [P2N Spring](#), [R35 Moist or wet mesotrophic to eutrophic hay meadow](#), [T12 \*Alnus glutinosa\*-\*Alnus incana\* forest on riparian and mineral soils](#)

Constant species of EUNIS habitats: [P2N Spring](#), [Q24 Intermediate fen and soft-water spring mire](#), [Q41 Alkaline, calcareous, carbonate-rich small-sedge spring fen](#), [Q42 Extremely rich moss-sedge fen](#), [Q53 Tall-sedge bed](#), [R35 Moist or wet mesotrophic to eutrophic hay meadow](#), [R55 Lowland moist or wet tall-herb and fern fringe](#), [T12 \*Alnus glutinosa\*-\*Alnus incana\* forest on riparian and mineral soils](#), [T13 Temperate hardwood riparian forest](#), [T15 Broadleaved swamp forest on non-acid peat](#)

### Broad habitat

Occurrence in broad habitats: **Spring, Wetland, Mire, Grassland (non-alpine, non-saline), Scrub, Forest, Sparsely vegetated (incl. rock and scree)**

## Distribution

Continentality amplitude: **8**