Caltha palustris

Habitus and growth type

Plant height [m]: **0.33**
Life span: **Perennial**
Life form: **Hemicryptophyte**

Leaf

Specific leaf area [mm^2/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**

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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**

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