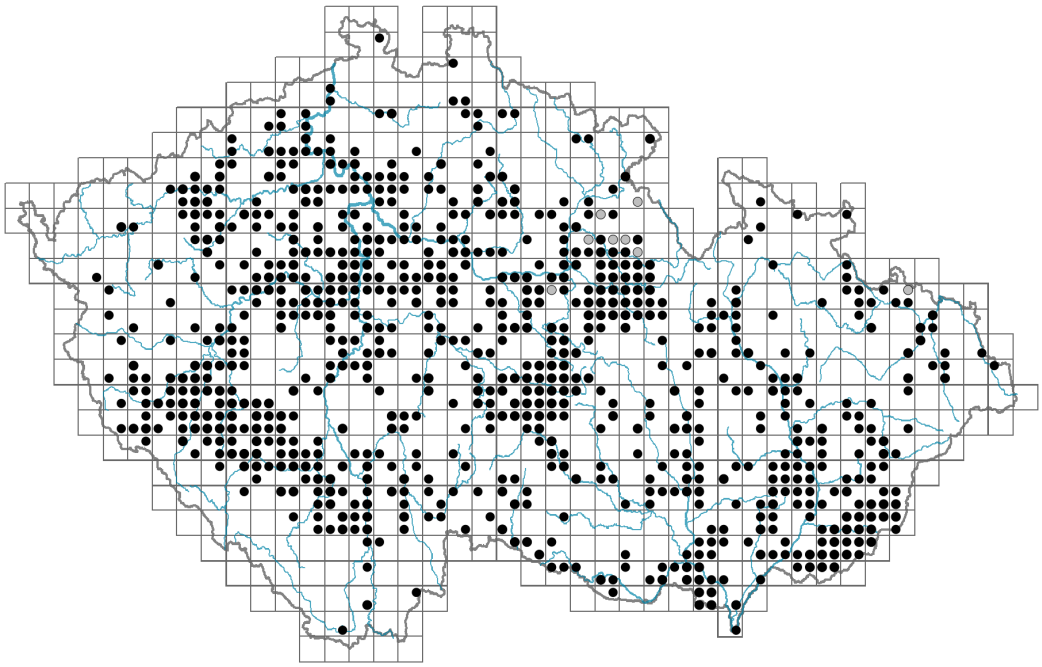
Anthemis cotula

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]: **0.1–0.5**
Growth form: **annual herb**
Life form: **therophyte**
Life strategy: **CR – competitor/ruderal**
Life strategy (Pierce method based on leaf traits): **R**
Life strategy (Pierce method, C-score): **15.6 %**
Life strategy (Pierce method, S-score): **0 %**
Life strategy (Pierce method, R-score): **84.5 %**

Leaf

Leaf presence and metamorphosis: **leaves present, not modified**
Leaf arrangement (phyllotaxis): **alternate**
Leaf shape: **simple – pinnately divided**
Stipules: **absent**
Petiole: **present**
Leaf life span: **summer green**
Leaf anatomy: **mesomorphic**

Flower

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

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Flowering phase: **8 Clematis vitalba-Galium sylvaticum (mid-summer)**
Flower colour: **white, yellow**
Flower symmetry: **actinomorphic, zygomorphic**
Perianth type: **calyx reduced, corolla present**
Perianth fusion: **fused**
Shape of the sympetalous corolla or syntepalous perianth: **ligulate, tubular**
Calyx fusion: **pappus**
Inflorescence type: **anthodium solitarium**
Dicliny: **gynomonoecious**
Generative reproduction type: **allogamy self-incompatibility**
Pollination syndrome: **insect-pollination**

Fruit, seed and dispersal

Fruit type: **dry fruit – achene/cypsela/samara**
Fruit colour: **brown**
Reproduction type: **only by seed/spores**
Dispersal unit (diaspore): **fruit, infrutescence or its part**
Dispersal strategy: **Allium (mainly autochory)**
Myrmecochory: **probably myrmecochorous**

Belowground organs and clonality

Shoot life span (cyclicity): **monocyclic shoots prevailing**
Primary root: **present**

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): **0**
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): **5**
Depth of the belowground bud bank (root buds exluded) [cm]: **1**
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): **0**
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): **5**
Depth of the belowground bud bank (root buds included) [cm]: **1**

Trophic mode

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

Taxon origin

Origin in the Czech Republic: **archaeophyte**
Invasion status: **naturalized**
Geographic origin: **Mediterranean**
Period of introduction: **Bronze Age (2300–750 BCE)**

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Introduction pathway: **unintentional – anthropogenic**

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: **5 – indicator of fresh soils, focus on soils of average moisture, missing on wet and on soils that frequently dry out**
Reaction indicator value: **7x – indicator of slightly acidic to slightly basic conditions, never occurring in very acidic conditions (generalist)**
Nutrient indicator value: **7 – occurring at nutrient-rich sites more often than at average sites and only exceptionally at poor sites**
Salinity indicator value: **2 – oligohaline, often on soils with very low salt content**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **0.06**
Herb layer disturbance frequency indicator value: **0.06**
Whole-community disturbance severity indicator value: **0.89**
Herb layer disturbance severity indicator value: **0.89**
Whole-community structure based disturbance indicator value: **0.71**
Herb layer structure-based disturbance indicator value: **0.78**

Habitat and sociology

Occurrence in habitats

6 Meadows and mesic pastures

6G Vegetation of wet disturbed soils: **2 – optimum**

10 Saline vegetation

10I Inland saline meadows: **1 – rare occurrence**

13 Anthropogenic vegetation

13A Annual vegetation of ruderal habitats: **2 – optimum**
13B Annual vegetation of arable land: **1 – rare occurrence**
13C Annual vegetation of trampled habitats: **2 – optimum**

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 alliances: **XBI *Malvion neglectae***
Diagnostic taxon of associations: **XBI01 *Hyoscyamo nigri-Malvetum neglectae***, **XBI02 *Malvetum pusillae***, **XBI05 *Matricario discoideae-Anthemidetum cotulae***

Constant taxon

Constant taxon of associations: **XBG06 *Atriplicetum roseae***, **XBI02 *Malvetum pusillae***, **XBI05 *Matricario discoideae-Anthemidetum cotulae***

Dominant taxon

Dominant taxon of associations: **XBI02 *Malvetum pusillae***, **XBI05 *Matricario***

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discoideae-Anthemidetum cotulae

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.5**

Ecological specialization index for non-forest vegetation: **4.5**

Colonization ability

Index of colonization success (ICS): **1**

Index of colonization potential (ICP): **1**

Distribution and frequency

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

Floristic region: **Europe**

Distribution range extension along the continentality gradient: **6**

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: 410

taxon.data.freq_in_quad: 836

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.3 %**

Occurrence frequency in vegetation plots with a cover above 5%: **28.6 %**

Occurrence frequency in vegetation plots with a cover above 25%: **11.7 %**

Occurrence frequency in vegetation plots with a cover above 50%: **2.6 %**

Mean percentage cover in vegetation plots: **9.3 %**

Maximum percentage cover in vegetation plots: **63 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **5**

Number of narrow habitats in which the taxon has its optimum: **3**

Number of broad habitats in which the taxon occurs: **3**

Number of broad habitats in which the taxon has its optimum: **2**

Threats and protection

Red List 2017 (national categories): **C2t – endangered taxon, declining**

Red List 2017 (IUCN categories): **EN – endangered**

Legal protection: **not protected by law**

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