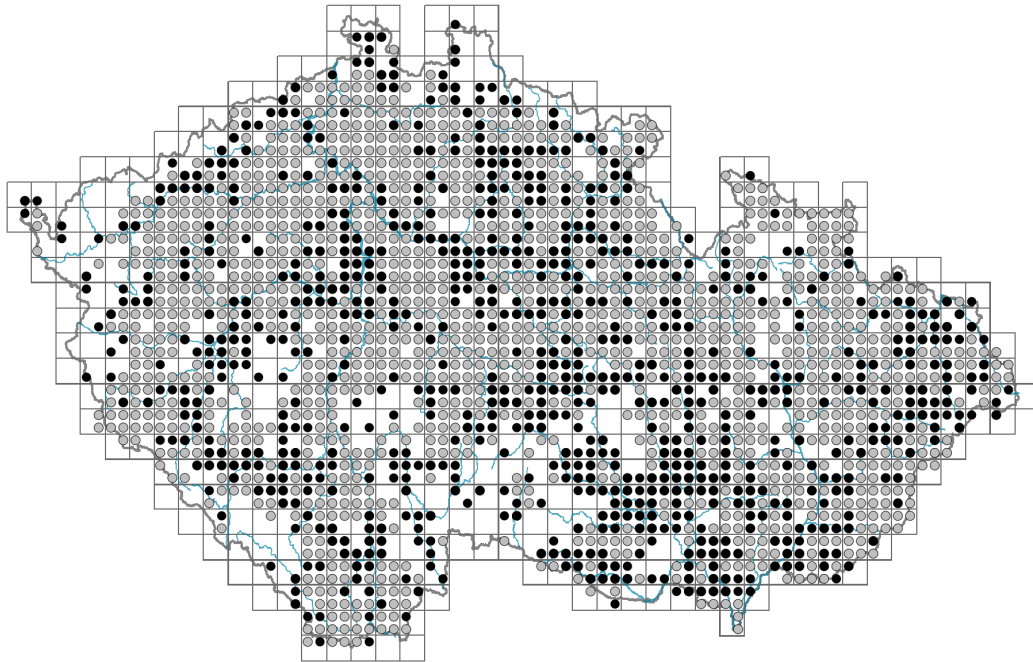


Euphorbia cyparissias

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]: **0.15-0.3**

Growth form: **clonal herb**

Life form: **hemicryptophyte (geophyte)**

Life strategy: **CSR - competitor/stress-tolerator/ruderal**

Life strategy (Pierce method based on leaf traits): **SR**

Life strategy (Pierce method, C-score): **0 %**

Life strategy (Pierce method, S-score): **55.2 %**

Life strategy (Pierce method, R-score): **44.8 %**



Leaf

Leaf presence and metamorphosis: **leaves present, not modified**

Leaf arrangement (phyllotaxis): **alternate**

Leaf shape: **simple - entire**

Stipules: **absent**

Petiole: **absent**

Leaf life span: **summer green**

Leaf anatomy: **mesomorphic**



Flower

Flowering period [month]: **April-June**

Flowering phase: **4 Fagus sylvatica-Galeobdolon (start of mid-spring)**

Flower colour: **yellow-green**

Perianth type: **flower achlamydeous**

Inflorescence type: **pseudumbrella e cyathiis composita**

Dicliny: **synoecious, gynomonoecious**

Generative reproduction type: **allogamy self-incompatibility, facultative allogamy**

Pollination syndrome: **insect-pollination, selfing**

Pollinator spectrum: **hoverflies, flies s. l. (honeybee, solitary bees, other**

Hymenoptera, meat flies s. l., other Diptera, other pollinators)

Fruit, seed and dispersal

Fruit type: **dry fruit - capsule**

Reproduction type: **by seed/spores and vegetatively**

Dispersal unit (diaspore): **seed**

Dispersal strategy: **Allium (mainly autochory)**

Myrmecochory: **myrmecochorous**

Belowground organs and clonality

Shoot metamorphosis: **pleiocorm**

Root metamorphosis: **root shoot**

Storage organ: **pleiocorm**

Type of clonal growth organ: **root with adventitious buds**

Freely dispersible organs of clonal growth: **absent**

Shoot life span (cyclicality): **monocyclic shoots prevailing**

Branching type of stem-derived organs of clonal growth: **sympodial**

Primary root: **absent**

Persistence of the clonal growth organ [year]: **4**

Number of clonal offspring: **1.8**

Lateral spreading distance by clonal growth [m]: **0.12**

Clonal index: **3**

Position of root buds: **lateral roots**

Role of root buds in life-history of a plant: **necessary**

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): **14**

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): **19**

Depth of the belowground bud bank (root buds excluded) [cm]: **4**

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): **21**

Number of buds per shoot at a depth greater than 10 cm (root buds included): **15**

Size of the belowground bud bank (root buds included): **41**

Depth of the belowground bud bank (root buds included) [cm]: **8**

Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**



Carnivory: **non-carnivorous**

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

Karyology

Chromosome number (2n): **40 (20)**

Ploidy level (x): **4 (2)**

2C genome size [Mbp]: **1892.08**

1Cx monoploid genome size [Mbp]: **473.02**

Genomic GC content: **37.1 %**



Taxon origin

Origin in the Czech Republic: **native**



Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **8 - light plant, only exceptionally occurring at less than 40% of diffuse radiation incident in an open area**

Temperature indicator value: **6x - transition between values 5 and 7 (generalist)**

Moisture indicator value: **3 - missing on damp soil**

Reaction indicator value: **6x - transition between values 5 and 7 (generalist)**

Nutrient indicator value: **3 - occurring at nutrient-poor sites more frequently than at average sites and exceptionally at rich 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: **-1.18**

Herb layer disturbance frequency indicator value: **-0.48**

Whole-community disturbance severity indicator value: **0.26**

Herb layer disturbance severity indicator value: **0.26**

Whole-community structure based disturbance indicator value: **0.41**

Herb layer structure-based disturbance indicator value: **0.48**



Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

1A Calcareous cliffs: **1 - rare occurrence**

1B Siliceous cliffs and block fields: **1 - rare occurrence**

1C Walls: **1 - rare occurrence**

1D Mobile calcareous screes: **1 - rare occurrence**

6 Meadows and mesic pastures

6A Mesic Arrhenatherum meadows: **1 - rare occurrence**

6C Pastures and park grasslands: **1 - rare occurrence**

7 Acidophilous grasslands

7B Submontane Nardus grasslands: **1 - rare occurrence**



8 Dry grasslands

8A Hercynian dry grasslands on rock outcrops: **2 - optimum**

8B Submediterranean dry grasslands on rock outcrops: **2 - optimum**

8C Narrow-leaved sub-continental steppes: **2 - optimum**

8D Broad-leaved dry grasslands: **2 - optimum**

8E Acidophilous dry grasslands: **2 - optimum**

8F Thermophilous forest fringe vegetation: **2 - optimum**

9 Sand grasslands and rock-outcrop vegetation

9B Open vegetation of acidic sands: **1 - rare occurrence**

9C Festuca grasslands on acidic sands: **2 - optimum**

9D Pannonian sand steppes: **2 - optimum**

9E Acidophilous vegetation of spring therophytes and succulents: **2 - optimum**

9F Basiphilous vegetation of spring therophytes and succulents: **2 - optimum**

10 Saline vegetation

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

10J Saline steppes: **1 - rare occurrence**

11 Heathlands and scrub

11A Dry lowland to subalpine heathlands: **1 - rare occurrence**

11L Tall mesic and xeric shrub: **2 - optimum**

11N Low xeric scrub: **2 - optimum**

12 Forests

12C Oak-hornbeam forests: **1 - rare occurrence**

12D Ravine forests: **1 - rare occurrence**

12E Herb-rich beech forests: **1 - rare occurrence**

12F Limestone beech forests: **2 - optimum**

12G Acidophilous beech forests: **1 - rare occurrence**

12H Peri-Alpidic basiphilous thermophilous oak forests: **2 - optimum**

12I Sub-continental thermophilous oak forests: **2 - optimum**

12J Acidophilous thermophilous oak forests: **2 - optimum**

12K Acidophilous oak forests: **1 - rare occurrence**

12L Boreo-continental pine forests: **1 - rare occurrence**

12O Peri-Alpidic pine forests: **2 - optimum**

12T Robinia pseudacacia plantations: **1 - rare occurrence**

12V Spruce plantations: **1 - rare occurrence**

12W Pine and larch plantations: **2 - optimum**

13 Anthropogenic vegetation

13A Annual vegetation of ruderal habitats: **1 - rare occurrence**

13B Annual vegetation of arable land: **1 - rare occurrence**

13D Perennial thermophilous ruderal vegetation: **1 - rare occurrence**

13E Perennial nitrophilous herbaceous vegetation of mesic sites: **1 - rare occurrence**

13F Herbaceous vegetation of forests clearings and Rubus scrub: **1 - rare occurrence**

Affinity to the forest environment

Affinity to the forest environment in Thermophyticum: **2.1 - taxon occurring both in the forest and open vegetation**

Affinity to the forest environment in Mesophyticum and Oreophyticum: **2.1 - taxon occurring both in the forest and open vegetation**

Diagnostic taxon



Diagnostic taxon of classes: [TH Festuco-Brometea](#)

Diagnostic taxon of alliances: [LFA Festuco-Pinion sylvestris](#), [THD Festucion valesiacae](#), [THE Cirsio-Brachypodium pinnati](#), [THH Geranion sanguinei](#)

Diagnostic taxon of associations: [LCA02 Lithospermo purpureo-caerulei-Quercetum pubescentis](#), [LFA01 Festuco-Pinetum sylvestris](#), [TFC02 Erysimo diffusi-Agrostietum capillaris](#)

Constant taxon

Constant taxon of classes: [LC Quercetea pubescentis](#), [TG Festucetea vaginatae](#), [TH Festuco-Brometea](#)

Constant taxon of alliances: [KBG Euphorbio cyparissiae-Robinion pseudoacaciae](#), [LCA Quercion pubescenti-petraeae](#), [LFA Festuco-Pinion sylvestris](#), [TEE Euphorbio cyparissiae-Callunion vulgaris](#), [TFC Armerion elongatae](#), [TGA Festucion vaginatae](#), [THA Alysso-Festucion pallentis](#), [THB Bromo pannonici-Festucion pallentis](#), [THC Diantho lumnitzeri-Seslerion](#), [THD Festucion valesiacae](#), [THE Cirsio-Brachypodium pinnati](#), [THF Bromion erecti](#), [THG Koelerio-Phleion phleoidis](#), [THH Geranion sanguinei](#)

Constant taxon of associations: [KAB03 Salici purpureae-Myricarietum germanicae](#), [KBB04 Pruno spinosae-Ligustretum vulgaris](#), [KBG01 Melico transsilvanicae-Robinieta pseudoacaciae](#), [LCA01 Lathyro collini-Quercetum pubescentis](#), [LCA02 Lithospermo purpureo-caerulei-Quercetum pubescentis](#), [LCB02 Carici fritschii-Quercetum roboris](#), [LCC01 Sorbo torminalis-Quercetum](#), [LCC02 Genisto pilosae-Quercetum petraeae](#), [LFA01 Festuco-Pinetum sylvestris](#), [TDC02 Anthoxantho odorati-Agrostietum tenuis](#), [TEE01 Euphorbio cyparissiae-Callunetum vulgaris](#), [TFC02 Erysimo diffusi-Agrostietum capillaris](#), [TGA01 Diantho serotini-Festucetum vaginatae](#), [THA01 Festuco pallentis-Aurinieta saxatilis](#), [THA02 Seselio ossei-Festucetum pallentis](#), [THA03 Sedo albi-Allietum montani](#), [THB01 Poo badensis-Festucetum pallentis](#), [THC01 Carici humilis-Seslerietum caeruleae](#), [THC02 Minuartio setaceae-Seslerietum caeruleae](#), [THC03 Saxifrago paniculatae-Seslerietum caeruleae](#), [THD01 Festuco valesiacae-Stipetum capillatae](#), [THD02 Erysimo crepidifolii-Festucetum valesiacae](#), [THD03 Festuco rupicola-Caricetum humilis](#), [THD04 Koelerio macranthae-Stipetum joannis](#), [THD05 Stipetum tirsae](#), [THE01 Scabioso ochroleuca-Brachypodietum pinnati](#), [THE02 Cirsio pannonici-Seslerietum caeruleae](#), [THE03 Polygalo majoris-Brachypodietum pinnati](#), [THF01 Carlino acaulis-Brometum erecti](#), [THG02 Avenulo pratensis-Festucetum valesiacae](#), [THG03 Viscario vulgaris-Avenuletum pratensis](#), [THH01 Trifolio alpestris-Geranietum sanguinei](#), [THH02 Geranio sanguinei-Dictamneta albae](#), [THH03 Geranio sanguinei-Peucedaneta cervariae](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **3.9**

Ecological specialization index for non-forest vegetation: **4.2**

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

Colonization ability

Index of colonization success (ICS): **8**

Index of colonization potential (ICP): **5**

Optimum successional age [years]: **32**

Distribution and frequency

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

Floristic region: **Europe**

Distribution range extension along the continentality gradient: **5**

Elevational belt in the Czech Republic: **lowlands, colline belt, submontane belt (montane belt)**

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 605

taxon.data.freq_in_quad: 1982

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **5.6 %**

Occurrence frequency in vegetation plots with a cover above 5%: **6 %**

Occurrence frequency in vegetation plots with a cover above 25%: **0.3 %**

Occurrence frequency in vegetation plots with a cover above 50%: **0 %**

Mean percentage cover in vegetation plots: **2.9 %**

Maximum percentage cover in vegetation plots: **38 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **42**

Number of narrow habitats in which the taxon has its optimum: **18**

Number of broad habitats in which the taxon occurs: **9**

Number of broad habitats in which the taxon has its optimum: **4**

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**