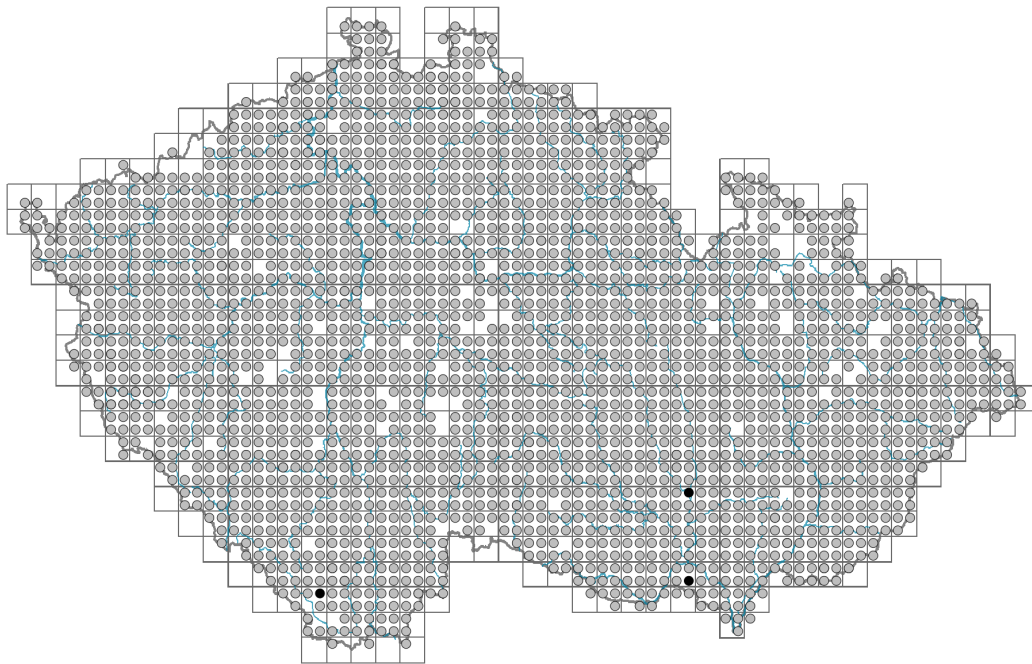


Elymus repens

Distribution



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Map info

● revised records

○ unrevised records

On the map are not visualized records without the coordinates and records marked as incorrect or doubtful.



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Habitus and growth type

Height [m]: **0.3-1.5**

Growth form: **clonal herb**

Life form: **geophyte (hemicryptophyte)**

Life strategy: **C - competitor**

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

Life strategy (Pierce method, C-score): **33.8 %**

Life strategy (Pierce method, S-score): **35.9 %**

Life strategy (Pierce method, R-score): **30.3 %**

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: **scleromorphic, mesomorphic**

Flower

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

Flowering phase: **8 Clematis vitalba-Galium sylvaticum (mid-summer)**

Flower colour: **green**

Perianth type: **reduced**

Perianth fusion: **reduced**

Inflorescence type: **spica e spiculis composita**

Dicliny: **synoecious**

Generative reproduction type: **allogamy, facultative allogamy**

Pollination syndrome: **wind-pollination**

Fruit, seed and dispersal

Fruit type: **dry fruit - caryopsis**

Fruit colour: **brown**

Reproduction type: **mostly vegetatively, rarely by seed/spores**

Dispersal unit (diaspore): **fruit, infrutescence or its part**

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

Myrmecochory: **probably non-myrmecochorous**

Belowground organs and clonality

Shoot metamorphosis: **stolon-like rhizome**

Storage organ: **stolon-like rhizome**

Type of clonal growth organ: **hypogeogenous rhizome**

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: **6.4**

Lateral spreading distance by clonal growth [m]: **0.25**

Clonal index: **6**

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): **15**

Number of buds per shoot at a depth greater than 10 cm (root buds excluded): **6**

Size of the belowground bud bank (root buds excluded): **26**

Depth of the belowground bud bank (root buds excluded) [cm]: **6**

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): **15**

Number of buds per shoot at a depth greater than 10 cm (root buds included): **6**

Size of the belowground bud bank (root buds included): **26**

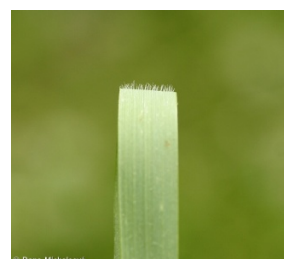
Depth of the belowground bud bank (root buds included) [cm]: **6**

Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

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



Karyology

Chromosome number (2n): **42**

Ploidy level (x): **6**

2C genome size [Mbp]: **20597.85**

1Cx monoploid genome size [Mbp]: **3432.98**

Genomic GC content: **47.2 %**

Taxon origin

Origin in the Czech Republic: **native**

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: **5x - moderate heat indicator, occurring from lowland to montane belt, mainly in submontane-temperate areas (generalist)**

Moisture indicator value: **5x - indicator of fresh soils, focus on soils of average moisture, missing on wet and on soils that frequently dry out (generalist)**

Reaction indicator value: **6x - transition between values 5 and 7 (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: **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: **-0.4**

Herb layer disturbance frequency indicator value: **-0.32**

Whole-community disturbance severity indicator value: **0.7**

Herb layer disturbance severity indicator value: **0.71**

Whole-community structure based disturbance indicator value: **0.58**

Herb layer structure-based disturbance indicator value: **0.64**

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**

2 Alpine and subalpine grasslands

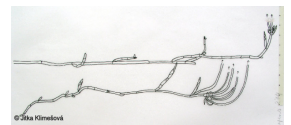
2B Subalpine tall-forb and tall-grass vegetation: **1 - rare occurrence**

4 Wetland and riverine herbaceous vegetation

4A Reed-beds of eutrophic still waters: **1 - rare occurrence**

4B Halophilous reed and sedge beds: **1 - rare occurrence**

4D Riverine reed vegetation: **1 - rare occurrence**



- 4E Reed vegetation of brooks: **1 - rare occurrence**
4G Tall-sedge beds: **1 - rare occurrence**
4H Vegetation of low annual hygrophilous herbs: **1 - rare occurrence**
4I Vegetation of nitrophilous annual hygrophilous herbs: **1 - rare occurrence**
4J River gravel banks: **1 - rare occurrence**
4K Petasites fringes of montane brooks: **1 - rare occurrence**
4L Nitrophilous herbaceous fringes of lowland rivers: **2 - optimum**
- 6 Meadows and mesic pastures
6A Mesic Arrhenatherum meadows: **1 - rare occurrence**
6B Montane mesic meadows: **1 - rare occurrence**
6C Pastures and park grasslands: **2 - optimum**
6D Alluvial meadows of lowland rivers: **2 - optimum**
6E Wet Cirsium meadows: **1 - rare occurrence**
6F Intermittently wet Molinia meadows: **1 - rare occurrence**
6G Vegetation of wet disturbed soils: **2 - optimum**
- 7 Acidophilous grasslands
7B Submontane Nardus grasslands: **1 - rare occurrence**
- 8 Dry grasslands
8C Narrow-leaved sub-continental steppes: **1 - rare occurrence**
8D Broad-leaved dry grasslands: **1 - rare occurrence**
8E Acidophilous dry grasslands: **1 - rare occurrence**
8F Thermophilous forest fringe vegetation: **1 - rare occurrence**
- 9 Sand grasslands and rock-outcrop vegetation
9B Open vegetation of acidic sands: **1 - rare occurrence**
9C Festuca grasslands on acidic sands: **1 - rare occurrence**
9E Acidophilous vegetation of spring therophytes and succulents: **1 - rare occurrence**
9F Basiphilous vegetation of spring therophytes and succulents: **1 - rare occurrence**
- 10 Saline vegetation
10I Inland saline meadows: **2 - optimum**
10J Saline steppes: **1 - rare occurrence**
- 11 Heathlands and scrub
11A Dry lowland to subalpine heathlands: **1 - rare occurrence**
11H Subalpine deciduous scrub: **1 - rare occurrence**
11I Willow carrs: **1 - rare occurrence**
11J Willow galleries of loamy and sandy river banks: **1 - rare occurrence**
11L Tall mesic and xeric shrub: **2 - optimum**
11N Low xeric scrub: **1 - rare occurrence**
11R Scrub and pioneer woodland of forests clearings: **1 - rare occurrence**
- 12 Forests
12B Alluvial forests: **1 - rare occurrence**
12H Peri-Alpidic basiphilous thermophilous oak forests: **1 - rare occurrence**
12I Sub-continental thermophilous oak forests: **1 - rare occurrence**
12L Boreo-continental pine forests: **1 - rare occurrence**
12O Peri-Alpidic pine forests: **1 - rare occurrence**
12T Robinia pseudacacia plantations: **1 - rare occurrence**
12U Plantations of broad-leaved non-native trees: **1 - rare occurrence**
12W Pine and larch plantations: **1 - rare occurrence**

13 Anthropogenic vegetation

13A Annual vegetation of ruderal habitats: **2 - optimum**13B Annual vegetation of arable land: **4 - constant dominant**13C Annual vegetation of trampled habitats: **1 - rare occurrence**13D Perennial thermophilous ruderal vegetation: **4 - constant dominant**13E Perennial nitrophilous herbaceous vegetation of mesic sites: **2 - optimum**13F Herbaceous vegetation of forests clearings and Rubus scrub: **1 - rare occurrence**

Affinity to the forest environment

Affinity to the forest environment in Thermophyticum: **2.2 - taxon occurring partly in the forest, but mainly in open vegetation**Affinity to the forest environment in Mesophyticum and Oreophyticum: **2.2 - taxon occurring partly in the forest, but mainly in open vegetation**

Diagnostic taxon

Diagnostic taxon of classes: [XB *Stellarietea mediae*](#), [XC *Artemisietea vulgaris*](#)Diagnostic taxon of alliances: [XCC *Convolvulo arvensis-Elytrigion repentis*](#)Diagnostic taxon of associations: [TDE04 *Cnidio dubii-Deschampsietum cespitosae*](#), [XCC01 *Convolvulo arvensis-Elytrigietum repentis*](#)

Constant taxon

Constant taxon of classes: [XB *Stellarietea mediae*](#), [XC *Artemisietea vulgaris*](#)Constant taxon of alliances: [KBD *Aegopodio podagrariae-Sambucion nigrae*](#), [XBA *Caucalidion*](#), [XBB *Veronico-Euphorbion*](#), [XBC *Scleranthion annui*](#), [XBE *Oxalidion fontanae*](#), [XBF *Spergulo arvensis-Erodion cicutariae*](#), [XBG *Atriplicion*](#), [XCA *Onopordion acanthii*](#), [XCB *Dauco carotae-Melilotion*](#), [XCC *Convolvulo arvensis-Elytrigion repentis*](#), [XCE *Arction lappae*](#), [XDE *Aegopodion podagrariae*](#)Constant taxon of associations: [KBB05 *Rhamno catharticae-Cornetum sanguineae*](#), [KBD01 *Sambucetum nigrae*](#), [KBD02 *Lycietum barbari*](#), [LCA02 *Lithospermo purpureo-caerulei-Quercetum pubescentis*](#), [TCB03 *Agrostio stoloniferae-Juncetum ranarii*](#), [TDE01 *Poo trivialis-Alopecuretum pratensis*](#), [TDE04 *Cnidio dubii-Deschampsietum cespitosae*](#), [XBA01 *Caucalido platycarpi-Conringietum orientalis*](#), [XBA02 *Lathyro tuberosi-Adonidetum aestivalis*](#), [XBA03 *Euphorbio exiguae-Melandrietum noctiflori*](#), [XBA04 *Stachyo annuae-Setarietum pumilae*](#), [XBA05 *Veronicetum hederifolio-triphylly*](#), [XBB01 *Mercurialietum annuae*](#), [XBB02 *Veronico-Lamietum hybridi*](#), [XBC01 *Aphano arvensis-Matricarietum chamomillae*](#), [XBC02 *Spergulo arvensis-Scleranthetum annui*](#), [XBC03 *Erophilo vernaе-Arabidopsietum thalianae*](#), [XBE01 *Echinochloo cruris-galli-Chenopodietum polyspermi*](#), [XBF01 *Setario pumilae-Echinochloetum cruris-galli*](#), [XBG01 *Chenopodietum stricti*](#), [XBG03 *Atriplicetum nitentis*](#), [XBG04 *Descurainio sophiae-Atriplicetum oblongifoliae*](#), [XBG07 *Sisymbrietum loeselii*](#), [XBG08 *Descurainietum sophiae*](#), [XBG12 *Ivaetum xanthiifoliae*](#), [XBK03 *Eragrostio poaeoidis-Panicetum capillaris*](#), [XCA01 *Carduo acanthoidis-Onopordetum acanthii*](#), [XCA02 *Salvio nemorosae-Marrubietum peregrini*](#), [XCA03 *Potentillo argenteae-Artemisietum absinthii*](#), [XCB01 *Melilotetum albo-officinalis*](#), [XCB04 *Dauco carotae-Picridetum hieracioidis*](#), [XCB05 *Poo compressae-Tussilaginetum farfarae*](#), [XCB07 *Tanaceto vulgaris-Artemisietum vulgaris*](#), [XCB08 *Artemisio vulgaris-Echinopsietum sphaerocephali*](#), [XCB09 *Rudbeckio laciniatae-Solidaginetum canadensis*](#), [XCB10 *Buniadetum orientalis*](#), [XCB11 *Asclepiadetum syriacae*](#), [XCC01 *Convolvulo arvensis-Elytrigietum repentis*](#), [XCC02 *Falcario vulgaris-Elytrigietum repentis*](#), [XCC04 *Cardarietum drabae*](#), [XCE02 *Arctietum lappae*](#), [XCE03 *Hyoscyamo nigri-Conietum maculati*](#), [XCE04 *Sambucetum ebuli*](#), [XDA02 *Calystegio sepium-Epilobietum hirsuti*](#), [XDD02 *Torilidetum japonicae*](#),

[XDE01 Elytrigio repentis-Aegopodietum podagrariae](#), [XDE02 Symphyto officinalis-Anthriscetum sylvestris](#), [XDE03 Chaerophylletum aromatici](#), [XDE04 Chaerophylletum aurei](#), [XDE05 Chaerophylletum bulbosi](#), [XDE07 Oenothero biennis-Helianthetum tuberosi](#), [XDE09 Asteretum lanceolati](#)

Dominant taxon

Dominant taxon of associations: [TDE01 Poo trivialis-Alopecuretum pratensis](#), [TFA02 Festuco psammophilae-Koelerietum glaucae](#), [THD04 Koelerio macranthae-Stipetum joannis](#), [XBG04 Descurainio sophiae-Atriplicetum oblongifoliae](#), [XBG07 Sisymbrietum loeselii](#), [XBH03 Linario-Brometum tectorum](#), [XCB07 Tanaceto vulgaris-Artemisietum vulgaris](#), [XCB08 Artemisio vulgaris-Echinopsietum sphaerocephali](#), [XCB11 Asclepiadetum syriacae](#), [XCC01 Convolvulo arvensis-Elytrigietum repentis](#), [XCC02 Falcario vulgaris-Elytrigietum repentis](#), [XCC04 Cardarietum drabae](#), [XCE02 Arctietum lappae](#), [XDE05 Chaerophylletum bulbosi](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **3.8**

Ecological specialization index for non-forest vegetation: **3.8**

Ecological specialization index for forest vegetation: **3.5**

Colonization ability

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

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

Optimum successional age [years]: **8**

Distribution and frequency

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

Floristic region: **Europe, Asia**

Distribution range extension along the continentality gradient: **8**

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

Expansive taxon in the region: **Bohemian Thermophyticum, Bohemian Moravian Mesophyticum, Bohemian Moravian Oreophyticum, Pannonian Thermophyticum, Carpathian Mesophyticum, Carpathian Oreophyticum**

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 656

taxon.data.freq_in_quad: 2366

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **11.1 %**

Occurrence frequency in vegetation plots with a cover above 5%: **26.1 %**

Occurrence frequency in vegetation plots with a cover above 25%: **8.7 %**

Occurrence frequency in vegetation plots with a cover above 50%: **4.8 %**

Mean percentage cover in vegetation plots: **9.1 %**

Maximum percentage cover in vegetation plots: **99 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **54**

Number of narrow habitats in which the taxon has its optimum: **10**

Number of broad habitats in which the taxon occurs: **11**

Number of broad habitats in which the taxon has its optimum: **5**

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**