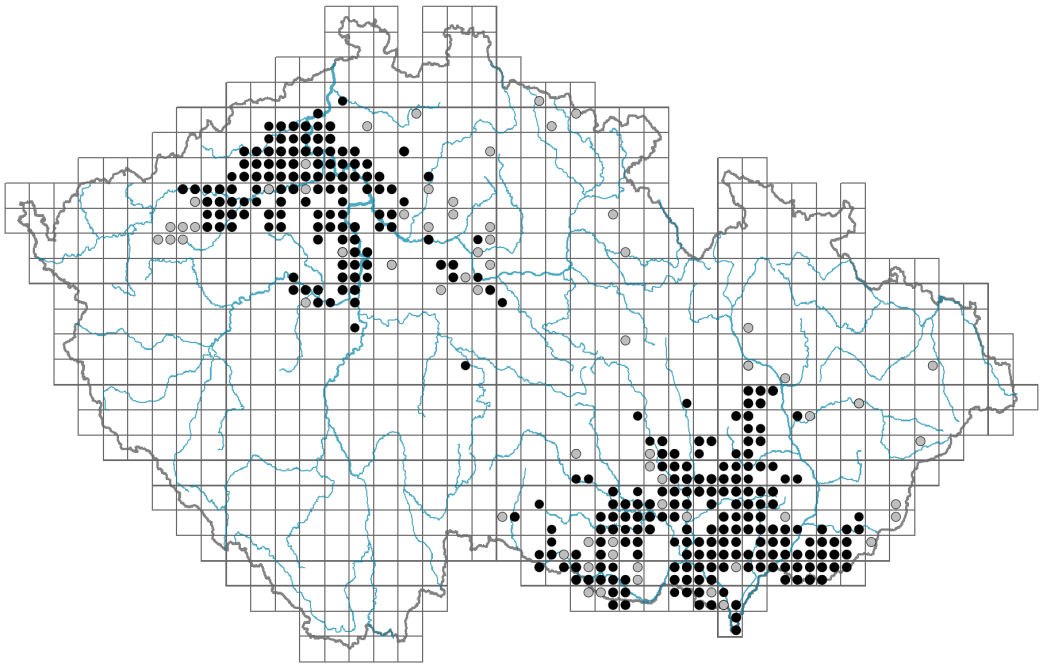
Elymus hispidus

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]: **0.3–1.1**
Growth form: **clonal herb**
Life form: **geophyte (hemicryptophyte)**
Life strategy: **CS – competitor/stress-tolerator**

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]: **May–August**
Flowering phase: **8 Clematis vitalba-Galium sylvaticum (mid-summer)**
Flower colour: **green**
Perianth type: **reduced**
Perianth fusion: **reduced**

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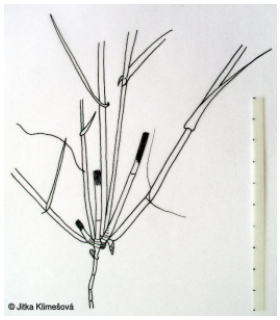
Inflorescence type: **spica e spiculis composita**
Dicliny: **synoecious**
Generative reproduction type: **allogamy, facultative allogamy**
Pollination syndrome: **wind-pollination**

Fruit, seed and dispersal

Fruit type: **dry fruit – caryopsis**
Reproduction type: **by seed/spores and vegetatively**
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 (cyclicity): **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: **4.8**
Lateral spreading distance by clonal growth [m]: **0.14**
Clonal index: **4**

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): **12**
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): **17**
Depth of the belowground bud bank (root buds exluded) [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): **12**
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): **17**
Depth of the belowground bud bank (root buds included) [cm]: **4**

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]: **23172.3**

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1Cx monoploid genome size [Mbp]: **3862.05**
Genomic GC content: **46.9 %**

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: **7 – heat indicator, occurring in relatively warm lowlands**
Moisture indicator value: **3 – missing on damp soil**
Reaction indicator value: **7 – indicator of slightly acidic to slightly basic conditions, never occurring in very acidic conditions**
Nutrient indicator value: **4 – transition between values 3 and 5**
Salinity indicator value: **0 – not salt tolerant, glycophyte**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-0.66**
Herb layer disturbance frequency indicator value: **-0.52**
Whole-community disturbance severity indicator value: **0.29**
Herb layer disturbance severity indicator value: **0.31**
Whole-community structure based disturbance indicator value: **0.5**
Herb layer structure-based disturbance indicator value: **0.58**

Habitat and sociology

Occurrence in habitats

6 Meadows and mesic pastures

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

8 Dry grasslands

8A Hercynian dry grasslands on rock outcrops: **1 – rare occurrence**
8B Submediterranean dry grasslands on rock outcrops: **1 – rare occurrence**
8C Narrow-leaved sub-continental steppes: **2 – optimum**
8D Broad-leaved dry grasslands: **1 – rare occurrence**
8E Acidophilous dry grasslands: **1 – rare occurrence**
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: **1 – rare occurrence**

11 Heathlands and scrub

11L Tall mesic and xeric shrub: **1 – rare occurrence**
11N Low xeric scrub: **2 – optimum**

12 Forests

12H Peri-Alpidic basiphilous thermophilous oak forests: **2 – optimum**
12I Sub-continental thermophilous oak forests: **1 – rare occurrence**

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12J Acidophilous thermophilous oak forests: **1 – rare occurrence**
12O Peri-Alpidic pine forests: **1 – rare occurrence**
12T Robinia pseudacacia plantations: **1 – rare occurrence**
12W Pine and larch plantations: **1 – rare occurrence**

13 Anthropogenic vegetation

13A Annual vegetation of ruderal habitats: **1 – rare occurrence**
13D Perennial thermophilous ruderal vegetation: **3 – dominant**
13E Perennial nitrophilous herbaceous vegetation of mesic sites: **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 alliances: **KBA *Prunion fruticosae***
Diagnostic taxon of associations: **KBA01 *Prunetum fruticosae*, KBA02 *Prunetum tenellae*, TFF01 *Cerastietum*, THE03 *Polygalo majoris-Brachypodietum pinnati***

Constant taxon

Constant taxon of alliances: **KBA *Prunion fruticosae***
Constant taxon of associations: **KBA02 *Prunetum tenellae***

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.7**
Ecological specialization index for non-forest vegetation: **4.8**
Ecological specialization index for forest vegetation: **5.2**

Colonization ability

Index of colonization success (ICS): **6**
Index of colonization potential (ICP): **6**
Optimum successional age [years]: **75**

Distribution and frequency

Floristic zone: **southern temperate, submeridional, meridional**
Floristic region: **Europe, Western Asia**
Continentality degree: **7**
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: 172
taxon.data.freq_in_quad: 391

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.7 %**
Occurrence frequency in vegetation plots with a cover above 5%: **16.3 %**
Occurrence frequency in vegetation plots with a cover above 25%: **1.4 %**
Occurrence frequency in vegetation plots with a cover above 50%: **0 %**
Mean percentage cover in vegetation plots: **4.1 %**
Maximum percentage cover in vegetation plots: **38 %**

Number of habitats with taxon occurrence in the Czech Republic

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Number of narrow habitats in which the taxon occurs: **20**
Number of narrow habitats in which the taxon has its optimum: **5**
Number of broad habitats in which the taxon occurs: **6**
Number of broad habitats in which the taxon has its optimum: **4**

Threats and protection

Legal protection: **not protected by law**

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