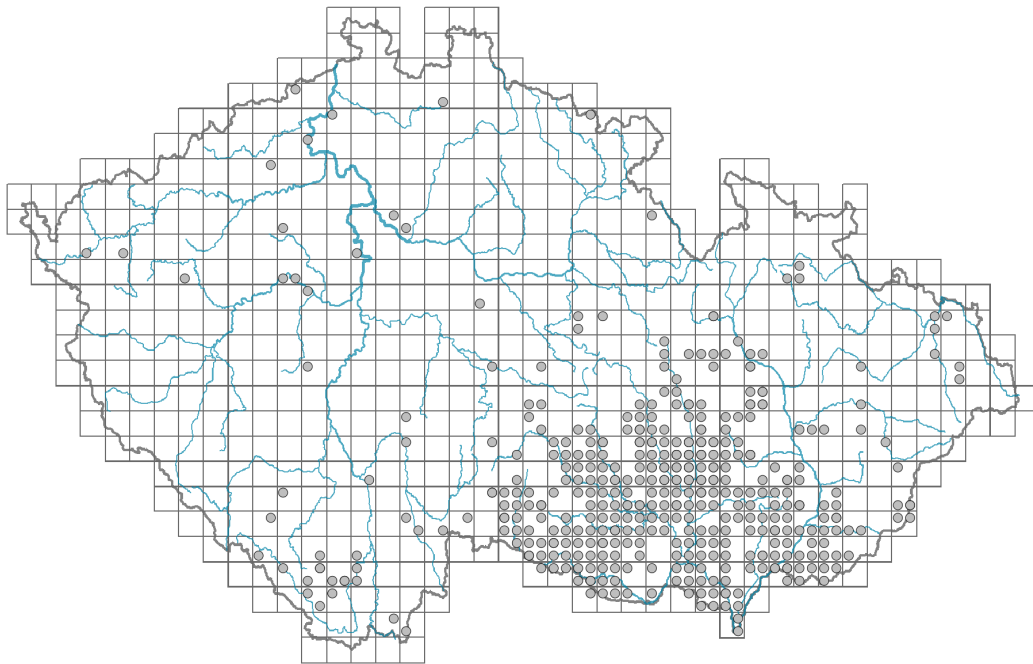


# *Verbascum chaixii*

## Distribution



© Dana Michalcova

### 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]: **0.6-1.3**

Growth form: **polycarpic perennial non-clonal herb**

Life form: **hemicryptophyte**

## Leaf

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

Leaf arrangement (phyllotaxis): **alternate**

Leaf shape: **simple - entire**

Stipules: **absent**

Petiole: **both present and absent**

## Flower

Flowering period [month]: **July-September**

Flower colour: **yellow**

Flower symmetry: **zygomorphic**

Perianth type: **calyx and corolla**

Perianth fusion: **fused**

Shape of the sympetalous corolla or syntepalous perianth: **rotate**

Calyx fusion: **synsepalous**

Inflorescence type: **pseudospica**



© Ales Moravec



© Pavel Kusák

## Fruit, seed and dispersal

Fruit type: **dry fruit - capsule**

Fruit colour: **brown**

Dispersal unit (diaspore): **seed**

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

Myrmecochory: **non-myrmecochorous (b)**

## Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

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

## Karyology

Chromosome number (2n): **26**

Ploidy level (x): **2**

2C genome size [Mbp]: **750.88**

1Cx monoploid genome size [Mbp]: **375.44**

Genomic GC content: **37.7 %**

## 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: **6 - transition between values 5 and 7**

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: **5 - occurring at moderately nutrient-rich sites, and less frequently at poor and rich sites**

Salinity indicator value: **0 - not salt tolerant, glycophyte**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.5**

Herb layer disturbance frequency indicator value: **-0.53**

Whole-community disturbance severity indicator value: **0.29**

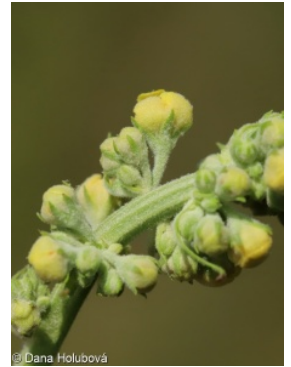
Herb layer disturbance severity indicator value: **0.25**

Whole-community structure based disturbance indicator value: **0.34**

Herb layer structure-based disturbance indicator value: **0.34**

## Habitat and sociology

Occurrence in habitats



## 6 Meadows and mesic pastures

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

## 7 Acidophilous grasslands

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

## 8 Dry grasslands

8A Hercynian dry grasslands on rock outcrops: **1 - rare occurrence**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: **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**9E Acidophilous vegetation of spring therophytes and succulents: **1 - rare occurrence**9F Basiphilous vegetation of spring therophytes and succulents: **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: **1 - rare occurrence**

## 12 Forests

12C Oak-hornbeam 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**12W Pine and larch plantations: **1 - rare occurrence**

## 13 Anthropogenic vegetation

13D Perennial thermophilous ruderal vegetation: **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**

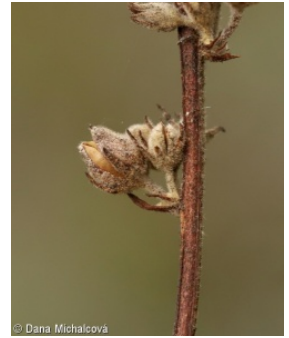
## Diagnostic taxon

Diagnostic taxon of alliances: [LCB \*Aceri tatarici-Quercion\*](#)Diagnostic taxon of associations: [LCB01 \*Quercetum pubescenti-roboris\*](#), [LCC02 \*Genisto pilosae-Quercetum petraeae\*](#)

## Constant taxon

Constant taxon of associations: [LCC02 \*Genisto pilosae-Quercetum petraeae\*](#)

## Ecological specialization indices

Ecological specialization index for all vegetation types: **4.2**Ecological specialization index for non-forest vegetation: **4.4**Ecological specialization index for forest vegetation: **5.4**

## Colonization ability

Index of colonization success (ICS): **6**  
Index of colonization potential (ICP): **6**  
Optimum successional age [years]: **13**

## Distribution and frequency

Continentality degree: **6**  
Distribution range extension along the continentality gradient: **3**  
Elevational belt in the Czech Republic: **lowlands, colline belt (montane belt)**  
Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: **168**  
taxon.data.freq\_in\_quad: **362**

## Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.4 %**  
Occurrence frequency in vegetation plots with a cover above 5%: **3.9 %**  
Occurrence frequency in vegetation plots with a cover above 25%: **0 %**  
Occurrence frequency in vegetation plots with a cover above 50%: **0 %**  
Mean percentage cover in vegetation plots: **2.6 %**  
Maximum percentage cover in vegetation plots: **18 %**

## Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **24**  
Number of narrow habitats in which the taxon has its optimum: **8**  
Number of broad habitats in which the taxon occurs: **7**  
Number of broad habitats in which the taxon has its optimum: **3**

## Threats and protection

Red List 2017 (national categories): **C4a - near threatened taxon**  
Red List 2017 (IUCN categories): **LC - least concern**  
Legal protection: **not protected by law**

