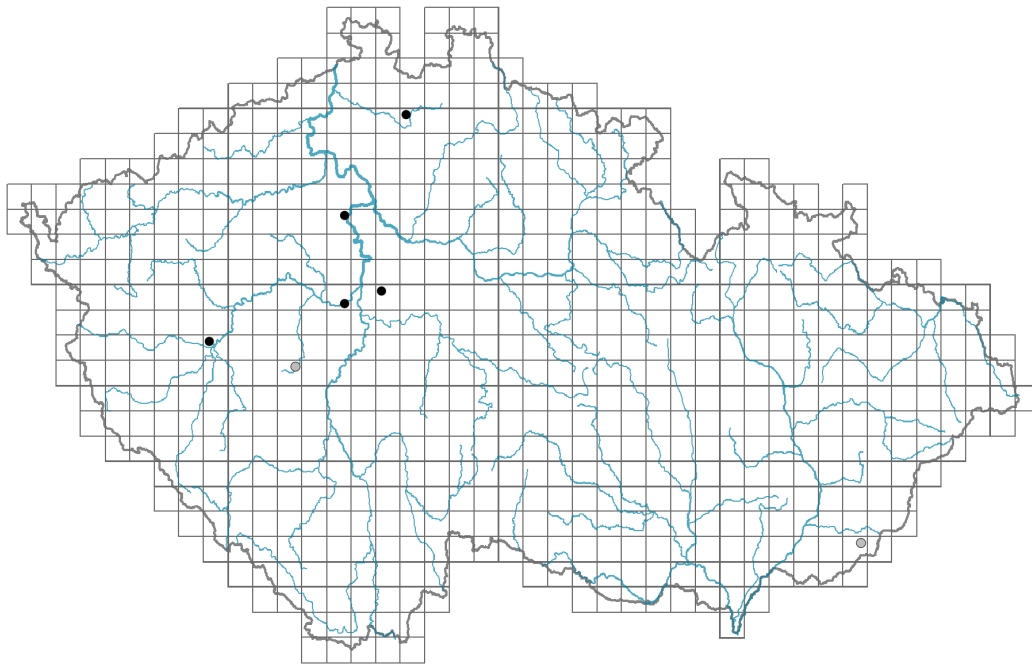


# *Echium plantagineum*

## 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

Life form: **hemicryptophyte (therophyte)**

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

Life strategy (Pierce method, C-score): **9 %**

Life strategy (Pierce method, S-score): **85.6 %**

Life strategy (Pierce method, R-score): **5.4 %**

## Leaf

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

Leaf arrangement (phyllotaxis): **alternate, rosulate**

Leaf shape: **simple - entire**

Stipules: **absent**

Petiole: **both present and absent**

## Flower

Flower colour: **red-violet, violet, blue**

Flower symmetry: **zygomorphic**

Perianth type: **calyx and corolla**

Perianth fusion: **fused**

Shape of the sympetalous corolla or syntepalous perianth: **funnel-shaped**

Calyx fusion: **synsepalous**

Inflorescence type: **cincinnus**

Pollinator spectrum: **honeybee, solitary bees, unknown (bumblebees)**

### **Fruit, seed and dispersal**

Fruit type: **dry fruit - cluster of four one-seeded nutlets**

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

### **Trophic mode**

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

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

### **Taxon origin**

Origin in the Czech Republic: **neophyte**

Invasion status: **casual**

Geographic origin: **Mediterranean**

Year of the first record in the wild: **1940**

Year of the last record: **1940**

Period of introduction: **Late Modern Period (1800-1950)**

Introduction pathway: **intentional - ornamental, unintentional - plantations**

### **Ecological indicator values**

Ellenberg-type indicator values

Light indicator value: **9 - full light plant, occurring only in fully irradiated places, not at less than 50% of diffuse radiation incident in an open area**

Temperature indicator value: **9 - extreme heat indicator, restricted to warmest sites in southern Central Europe**

Moisture indicator value: **2 - transition between values 1 and 3**

Reaction indicator value: **7 - indicator of slightly acidic to slightly basic conditions, never occurring in very acidic conditions**

Nutrient indicator value: **6 - transition between values 5 and 7**

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

### **Habitat and sociology**

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**

### **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**