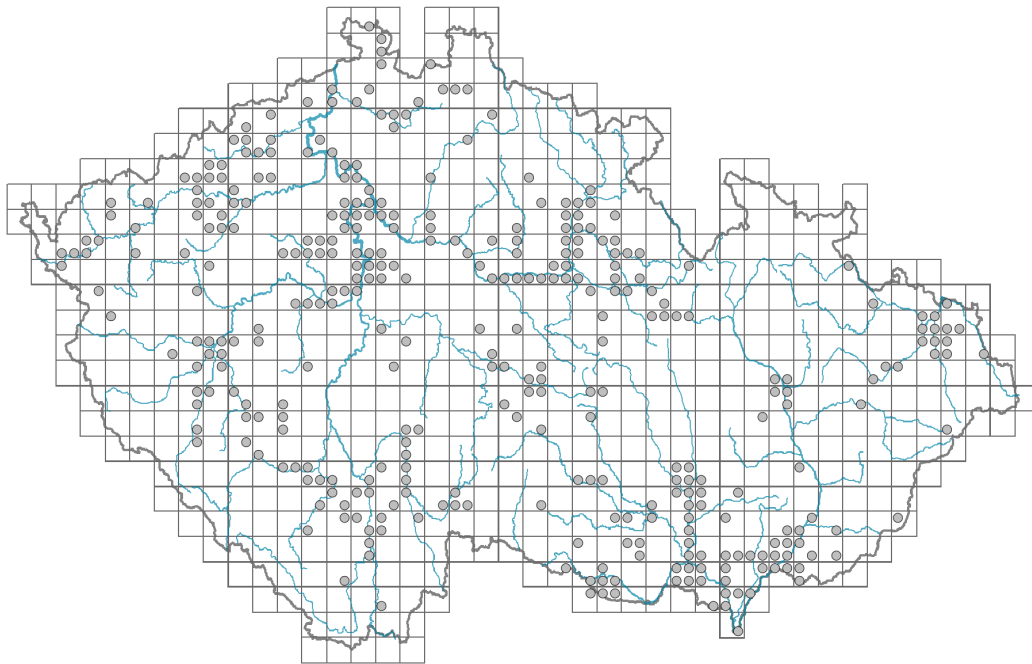


Sisymbrium altissimum

Distribution



© Petr Šymon

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]: **0.3-0.6**

Growth form: **annual herb**

Life form: **therophyte**

Life strategy: **CR - competitor/ruderal**

Life strategy (Pierce method based on leaf traits): **C/CR**

Life strategy (Pierce method, C-score): **69 %**

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

Life strategy (Pierce method, R-score): **31 %**

Leaf

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

Leaf arrangement (phyllotaxis): **alternate**

Leaf shape: **simple - pinnately divided**

Stipules: **absent**

Petiole: **mainly present**

Leaf life span: **overwintering green**

Leaf anatomy: **scleromorphic, mesomorphic**

Flower

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



© Dana Michalčová



© Dana Michalčová

Flowering phase: **6 Cornus sanguinea-Melica uniflora (start of early summer)**

Flower colour: **yellow**

Flower symmetry: **actinomorphic**

Perianth type: **calyx and corolla**

Perianth fusion: **free**

Calyx fusion: **aposepalous**

Inflorescence type: **panicula**

Dicliny: **synoecious**

Generative reproduction type: **autogamy**

Pollination syndrome: **selfing**

Fruit, seed and dispersal

Fruit type: **dry fruit - siliqua**

Fruit colour: **brown**

Reproduction type: **only by seed/spores**

Dispersal unit (diaspore): **seed, tumbleweed**

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

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

Belowground organs and clonality

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

Primary root: **present**

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): **0**

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): **5**

Depth of the belowground bud bank (root buds excluded) [cm]: **1**

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): **0**

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): **5**

Depth of the belowground bud bank (root buds included) [cm]: **1**

Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

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

Karyology

Chromosome number (2n): **14**

Ploidy level (x): **2**

2C genome size [Mbp]: **484.76**

1Cx monoploid genome size [Mbp]: **242.38**

Genomic GC content: **39.4 %**



Taxon origin

Origin in the Czech Republic: **neophyte**
 Invasion status: **naturalized**
 Geographic origin: **Mediterranean**
 Year of the first record in the wild: **1815**
 Period of introduction: **Late Modern Period (1800-1950)**
 Introduction pathway: **unintentional - anthropogenic**

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: **6 - transition between values 5 and 7**
 Moisture indicator value: **4 - transition between values 3 and 5**
 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**
 Indicator values for disturbance
 Whole-community disturbance frequency indicator value: **0.15**
 Herb layer disturbance frequency indicator value: **0.17**
 Whole-community disturbance severity indicator value: **0.88**
 Herb layer disturbance severity indicator value: **0.88**
 Whole-community structure based disturbance indicator value: **0.63**
 Herb layer structure-based disturbance indicator value: **0.69**

Habitat and sociology

Occurrence in habitats

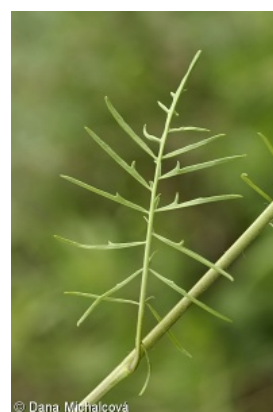
9 Sand grasslands and rock-outcrop vegetation
 9B Open vegetation of acidic sands: **2 - optimum**
 9C Festuca grasslands on acidic sands: **1 - rare occurrence**
 9D Pannonian sand steppes: **1 - rare occurrence**
 13 Anthropogenic vegetation
 13A Annual vegetation of ruderal habitats: **2 - optimum**
 13D Perennial thermophilous ruderal vegetation: **1 - rare occurrence**

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**

Diagnostic taxon

Diagnostic taxon of alliances: [XBG Atriplicion](#), [XBJ Salsolion ruthenicae](#)
 Diagnostic taxon of associations: [XBG07 Sisymbrietum loeselii](#), [XBG09 Sisymbrietum altissimi](#), [XBG12 Ivaetum xanthiifoliae](#), [XBG13 Kochietum densiflorae](#), [XBJ01 Chenopodietum botryos](#), [XBJ02 Bromo tectorum-](#)



***Corispermetum leptopteri*, XBJ03 Plantagini arenariae-Senecionetum viscosi**

Constant taxon

Constant taxon of alliances: ***XBJ Salsolion ruthenicae***Constant taxon of associations: ***XBG09 Sisymbrietum altissimi*, *XBG13 Kochietum densiflorae*, *XBJ01 Chenopodietum botryos*, *XBJ02 Bromo tectorum-Corispermetum leptopteri***

Dominant taxon

Dominant taxon of associations: ***XBG09 Sisymbrietum altissimi***

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.5**Ecological specialization index for non-forest vegetation: **4.7**

Colonization ability

Index of colonization success (ICS): **3**Index of colonization potential (ICP): **5**Optimum successional age [years]: **3****Distribution and frequency**Floristic zone: **northern temperate, southern temperate, submeridional, meridional**Floristic region: **Europe, Western Asia**Continentality degree: **7**Distribution range extension along the continentality gradient: **7**Elevational belt in the Czech Republic: **lowlands, colline belt**Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: **213**taxon.data.freq_in_quad: **347**

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.3 %**Occurrence frequency in vegetation plots with a cover above 5%: **23.5 %**Occurrence frequency in vegetation plots with a cover above 25%: **13.3 %**Occurrence frequency in vegetation plots with a cover above 50%: **10.2 %**Mean percentage cover in vegetation plots: **11.3 %**Maximum percentage cover in vegetation plots: **88 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **5**Number of narrow habitats in which the taxon has its optimum: **2**Number of broad habitats in which the taxon occurs: **2**Number of broad habitats in which the taxon has its optimum: **2****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**