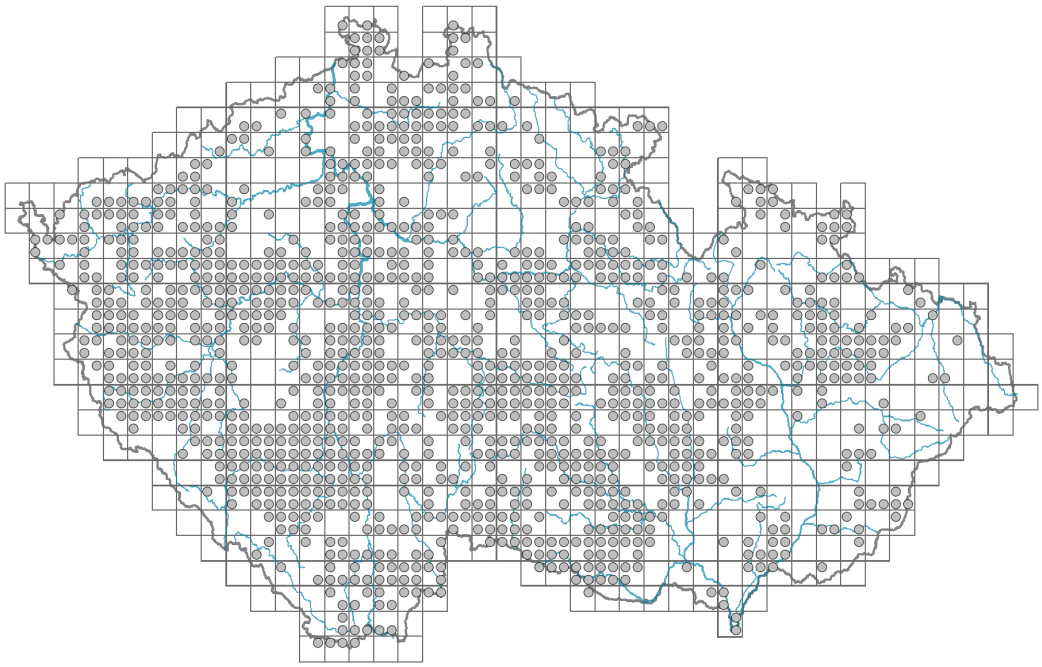
Jasione montana

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]: **0.15–0.5**
Growth form: **monocarpic perennial non-clonal herb**
Life form: **hemicryptophyte (therophyte)**
Life strategy: **CSR – competitor/stress-tolerator/ruderal**
Life strategy (Pierce method based on leaf traits): **R/SR**
Life strategy (Pierce method, C-score): **1.3 %**
Life strategy (Pierce method, S-score): **27.2 %**
Life strategy (Pierce method, R-score): **71.5 %**

Leaf

Leaf presence and metamorphosis: **leaves present, not modified**
Leaf arrangement (phyllotaxis): **alternate, rosulate**
Leaf shape: **simple – entire**
Stipules: **absent**
Petiole: **absent**
Leaf life span: **evergreen**
Leaf anatomy: **scleromorphic, mesomorphic**

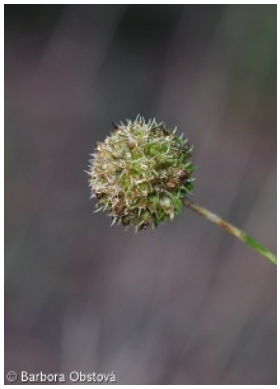
Flower

Flowering period [month]: **June–July**

Flowering phase: **7 Ligustrum vulgare-Stachys sylvatica (end of early summer)**
Flower colour: **white, pink, blue**
Flower symmetry: **actinomorphic**
Perianth type: **calyx and corolla**
Perianth fusion: **fused**
Shape of the sympetalous corolla or syntepalous perianth: **tubular**
Calyx fusion: **synsepalous**
Inflorescence type: **capitulum**
Dicliny: **synoecious**
Generative reproduction type: **facultative allogamy**
Pollination syndrome: **insect-pollination**
Pollinator spectrum: **honeybee, solitary bees, hoverflies**

Fruit, seed and dispersal

Fruit type: **dry fruit – capsule**
Fruit colour: **brown**
Reproduction type: **only by seed/spores**
Dispersal unit (diaspore): **fruit, infrutescence or its part**
Dispersal strategy: **Allium (mainly autochory)**
Myrmecochory: **non-myrmecochorous (b)**



Belowground organs and clonality

Root metamorphosis: **primary storage root**
Storage organ: **primary storage root**
Shoot life span (cyclicity): **dicyclic or polycyclic shoots prevailing**
Primary root: **present**
Position of root buds: **primary root**
Role of root buds in life-history of a plant: **regenerative**

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): **4**
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): **9**
Depth of the belowground bud bank (root buds exluded) [cm]: **3**
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): **4**
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): **9**
Depth of the belowground bud bank (root buds included) [cm]: **3**

Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**
Carnivory: **non-carnivorous**
Symbiotic nitrogen fixation: **no nitrogen-fixing symbionts**

Karyology

Chromosome number (2n): **12**
Ploidy level (x): **2**
2C genome size [Mbp]: **2525.24**
1Cx monoploid genome size [Mbp]: **1262.62**
Genomic GC content: **39.3 %**

Taxon origin

Origin in the Czech Republic: **native**

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: **5 – moderate heat indicator, occurring from lowland to montane belt, mainly in submontane-temperate areas**
Moisture indicator value: **2 – transition between values 1 and 3**
Reaction indicator value: **3 – acidity indicator, occurring mainly in acidic conditions, exceptionally in neutral conditions**
Nutrient indicator value: **2 – transition between values 1 and 3**
Salinity indicator value: **0 – not salt tolerant, glycophyte**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.19**
Herb layer disturbance frequency indicator value: **-0.29**
Whole-community disturbance severity indicator value: **0.27**
Herb layer disturbance severity indicator value: **0.28**
Whole-community structure based disturbance indicator value: **0.41**
Herb layer structure-based disturbance indicator value: **0.41**

Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

1B Siliceous cliffs and block fields: **1 – rare occurrence**

6 Meadows and mesic pastures

6A Mesic Arrhenatherum meadows: **1 – rare occurrence**
6B Montane mesic meadows: **1 – rare occurrence**
6C Pastures and park grasslands: **1 – rare occurrence**

7 Acidophilous grasslands

7A Subalpine and montane acidophilous grasslands: **1 – rare occurrence**
7B Submontane Nardus grasslands: **1 – rare occurrence**

8 Dry grasslands

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

8F Thermophilous forest fringe vegetation: **1 – rare occurrence**

9 Sand grasslands and rock-outcrop vegetation

9B Open vegetation of acidic sands: **2 – optimum**

9C Festuca grasslands on acidic sands: **2 – optimum**

9D Pannonian sand steppes: **2 – optimum**

9E Acidophilous vegetation of spring therophytes and succulents: **1 – rare occurrence**

11 Heathlands and scrub

11A Dry lowland to subalpine heathlands: **2 – optimum**

11H Subalpine deciduous scrub: **1 – rare occurrence**

12 Forests

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**

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: **TF *Koelerio-Corynephoretea***, **TG *Festucetea vaginatae***

Diagnostic taxon of alliances: **TEE *Euphorbio cyparissiae-Callunion vulgaris***, **TFA *Corynephorion canescentis***, **TFD *Hyperico perforati-Scleranthion perennis***, **TGA *Festucion vaginatae***, **THG *Koelerio-Phleion phleoidis***

Diagnostic taxon of associations: **LCC02 *Genisto pilosae-Quercetum petraeae***, **LDA02 *Viscario vulgaris-Quercetum petraeae***, **TEE01 *Euphorbio cyparissiae-Callunetum vulgaris***, **TFA01 *Cornicularo aculeatae-Corynephoretum canescentis***, **TFD01 *Polytricho piliferi-Scleranthetum perennis***, **TFD02 *Jasiono montanae-Festucetum ovinae***, **TGA01 *Diantho serotini-Festucetum vaginatae***, **THA04 *Helichryso arenariae-Festucetum pallentis***, **THG02 *Avenulo pratensis-Festucetum valesiacae***, **THG03 *Viscario vulgaris-Avenuletum pratensis***

Constant taxon

Constant taxon of classes: **TG *Festucetea vaginatae***

Constant taxon of alliances: **TEE *Euphorbio cyparissiae-Callunion vulgaris***, **TFD *Hyperico perforati-Scleranthion perennis***, **TGA *Festucion vaginatae***

Constant taxon of associations: **LCC02 *Genisto pilosae-Quercetum petraeae***, **TEE01 *Euphorbio cyparissiae-Callunetum vulgaris***, **TFD02 *Jasiono montanae-Festucetum ovinae***, **TGA01 *Diantho serotini-Festucetum vaginatae***, **THA04 *Helichryso arenariae-Festucetum pallentis***, **THG02 *Avenulo pratensis-Festucetum valesiacae***

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.9**

Ecological specialization index for non-forest vegetation: **5.1**

Ecological specialization index for forest vegetation: **5.9**

Colonization ability

Index of colonization success (ICS): **4**

Index of colonization potential (ICP): **3**

Optimum successional age [years]: **9.5**

Distribution and frequency

Floristic zone: **northern temperate, southern temperate, submeridional, meridional**
Floristic region: **Europe**
Continentality degree: **4**
Distribution range extension along the continentality gradient: **4**
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: 494
taxon.data.freq_in_quad: 1189

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.9 %**
Occurrence frequency in vegetation plots with a cover above 5%: **6.4 %**
Occurrence frequency in vegetation plots with a cover above 25%: **0.4 %**
Occurrence frequency in vegetation plots with a cover above 50%: **0 %**
Mean percentage cover in vegetation plots: **2.9 %**
Maximum percentage cover in vegetation plots: **38 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **20**
Number of narrow habitats in which the taxon has its optimum: **6**
Number of broad habitats in which the taxon occurs: **7**
Number of broad habitats in which the taxon has its optimum: **4**

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**