

Adenostyles alliariae subsp. *alliariae*

Distribution



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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]: **0.6-1.5**

Growth form: **clonal herb**

Life form: **hemicryptophyte**

Life strategy: **CS - competitor/stress-tolerator**

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

Life strategy (Pierce method, C-score): **85.8 %**

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

Life strategy (Pierce method, R-score): **14.2 %**

Leaf

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

Leaf arrangement (phyllotaxis): **alternate**

Leaf shape: **simple - entire**

Stipules: **absent**

Petiole: **both present and absent**

Leaf life span: **summer green**

Leaf anatomy: **mesomorphic, hygromorphic**

Flower

Flowering phase: **7 Ligustrum vulgare-Stachys sylvatica (end of early summer)**



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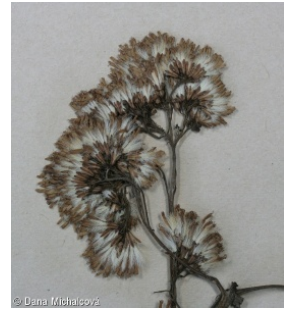


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Flower colour: **white, pink-violet**
 Flower symmetry: **actinomorphic**
 Perianth type: **calyx reduced, corolla present**
 Perianth fusion: **fused**
 Shape of the sympetalous corolla or syntepalous perianth: **tubular**
 Calyx fusion: **pappus**
 Inflorescence type: **corymbothyrus ex anthodiis compositus**
 Dicliny: **synoecious**
 Generative reproduction type: **facultative allogamy**
 Pollination syndrome: **insect-pollination, selfing**



Fruit, seed and dispersal

Fruit type: **dry fruit - achene/cypsela/samara**
 Fruit colour: **brown**
 Reproduction type: **by seed/spores and vegetatively**
 Dispersal unit (diaspore): **fruit, infrutescence or its part**
 Dispersal strategy: **Epilobium (mainly anemochory and autochory)**
 Myrmecochory: **probably non-myrmecochorous**



Belowground organs and clonality

Shoot metamorphosis: **rhizome**
 Storage organ: **rhizome**
 Type of clonal growth organ: **epigeogenous rhizome**
 Freely dispersible organs of clonal growth: **absent**
 Shoot life span (cyclicality): **dicyclic or polycyclic 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: **0.8**
 Lateral spreading distance by clonal growth [m]: **0.07**
 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): **15**
 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): **20**
 Depth of the belowground bud bank (root buds excluded) [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): **15**
 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): **20**
 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): **38**

Ploidy level (x): **4**

2C genome size [Mbp]: **15823.33**

1Cx monoploid genome size [Mbp]: **3955.83**

Genomic GC content: **39.7 %**



Taxon origin

Origin in the Czech Republic: **native**

Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **5 - semi-shade plant, only exceptionally occurring in full light, but usually at more than 10% of the diffuse radiation incident in an open area**

Temperature indicator value: **3 - cool indicator, occurring mainly in subalpine areas**

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

Reaction indicator value: **5x - indicator of moderate acidity, occurring rarely in strongly acidic as well as in neutral to alkaline conditions (generalist)**

Nutrient indicator value: **7 - occurring at nutrient-rich sites more often than at average sites and only exceptionally at poor sites**

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

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.48**

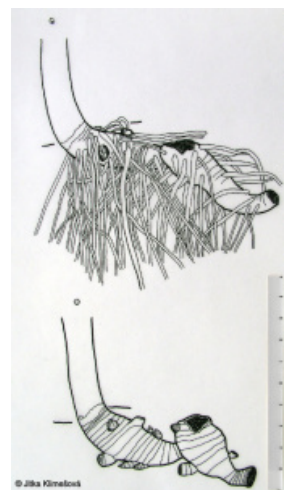
Herb layer disturbance frequency indicator value: **-0.73**

Whole-community disturbance severity indicator value: **0.14**

Herb layer disturbance severity indicator value: **0.13**

Whole-community structure based disturbance indicator value: **0.25**

Herb layer structure-based disturbance indicator value: **0.31**



Habitat and sociology

Occurrence in habitats

2 Alpine and subalpine grasslands

2B Subalpine tall-forb and tall-grass vegetation: **3 - dominant**

4 Wetland and riverine herbaceous vegetation

4K Petasites fringes of montane brooks: **1 - rare occurrence**

5 Vegetation of springs and mires

5B Lowland to montane soft-water springs: **1 - rare occurrence**

5C Alpine and subalpine soft-water springs: **1 - rare occurrence**

11 Heathlands and scrub

11D Subalpine acidophilous Pinus mugo scrub: **1 - rare occurrence**

11H Subalpine deciduous scrub: **2 - optimum**

12 Forests

12E Herb-rich beech forests: **1 - rare occurrence**

12R Acidophilous spruce forests: **1 - rare occurrence**

12S Basiphilous spruce forests: **2 - optimum**

Affinity to the forest environment

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 classes: [AD *Mulgedio-Aconitetea*](#)

Diagnostic taxon of alliances: [ADC *Salicion silesiacae*](#), [ADD *Adenostylion alliariae*](#), [ADE *Dryopterido filicis-maris-Athyrium distentifolii*](#), [RAD *Swertio perennis-Dichodontion palustris*](#)

Diagnostic taxon of associations: [ADA03 *Violo sudeticae-Deschampsietum cespitosae*](#), [ADC01 *Salici silesiacae-Betuletum carpaticae*](#), [ADC02 *Pado borealis-Sorbetum aucupariae*](#), [ADD01 *Ranunculo platanifolii-Adenostyletum alliariae*](#), [ADD02 *Salicetum lapponum*](#), [ADD04 *Laserpitio archangelicae-Dactylidetum glomeratae*](#), [ADE02 *Adenostylo alliariae-Athyrietum distentifolii*](#), [LBC04 *Athyrio distentifolii-Fagetum sylvaticae*](#), [LFC02 *Athyrio distentifolii-Piceetum abietis*](#), [RAD03 *Cardaminetum opicii*](#)

Constant taxon

Constant taxon of alliances: [ADC *Salicion silesiacae*](#), [ADD *Adenostylion alliariae*](#), [ADE *Dryopterido filicis-maris-Athyrium distentifolii*](#)

Constant taxon of associations: [ADC01 *Salici silesiacae-Betuletum carpaticae*](#), [ADC02 *Pado borealis-Sorbetum aucupariae*](#), [ADD01 *Ranunculo platanifolii-Adenostyletum alliariae*](#), [ADD02 *Salicetum lapponum*](#), [ADD04 *Laserpitio archangelicae-Dactylidetum glomeratae*](#), [ADE02 *Adenostylo alliariae-Athyrietum distentifolii*](#), [KCA02 *Adenostylo alliariae-Pinetum mugo*](#), [RAD03 *Cardaminetum opicii*](#)

Dominant taxon

Dominant taxon of associations: [ADD01 *Ranunculo platanifolii-Adenostyletum alliariae*](#), [ADD04 *Laserpitio archangelicae-Dactylidetum glomeratae*](#), [LFC02 *Athyrio distentifolii-Piceetum abietis*](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **5.7**

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

Ecological specialization index for forest vegetation: **6.3**

Distribution and frequency

Floristic zone: **northern temperate, southern temperate, submeridional**

Floristic region: **Europe**

Continental degree: **4**

Distribution range extension along the continentality gradient: **4**

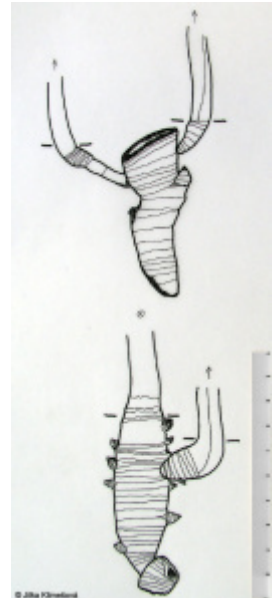
Elevational belt in the Czech Republic: **montane belt, subalpine belt**

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: **20**

taxon.data.freq_in_quad: **36**

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.2 %**



Occurrence frequency in vegetation plots with a cover above 5%: **41.1 %**

Occurrence frequency in vegetation plots with a cover above 25%: **28.8 %**

Occurrence frequency in vegetation plots with a cover above 50%: **15.1 %**

Mean percentage cover in vegetation plots: **18.5 %**

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: **9**

Number of narrow habitats in which the taxon has its optimum: **3**

Number of broad habitats in which the taxon occurs: **5**

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**