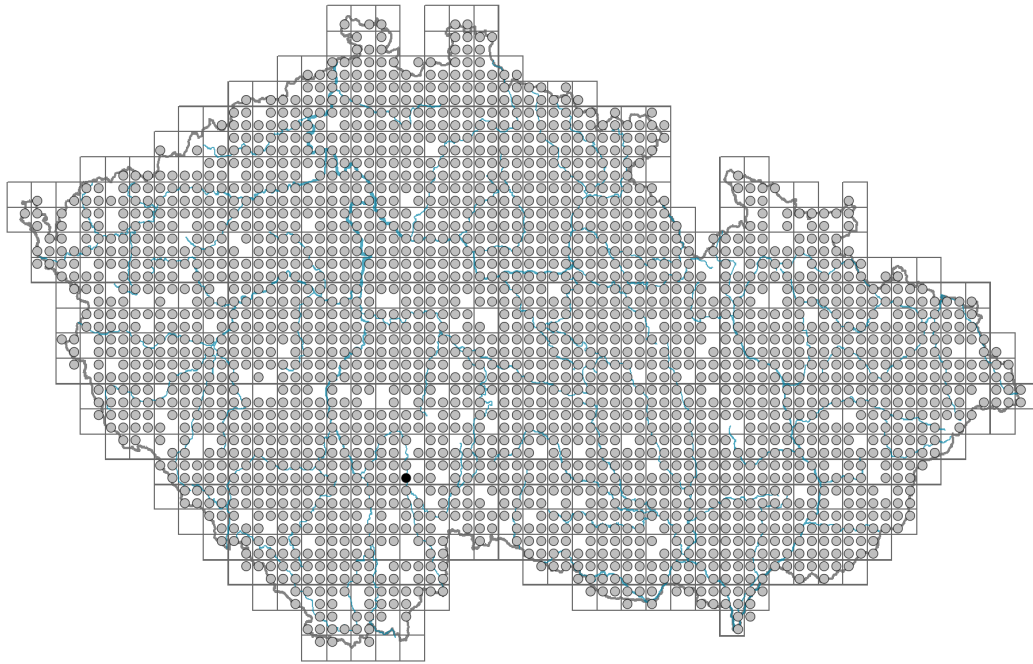


Artemisia vulgaris

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]: **0.5**

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

Life form: **hemicryptophyte**

Life strategy: **C - competitor**

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

Life strategy (Pierce method, C-score): **41.6 %**

Life strategy (Pierce method, S-score): **29.6 %**

Life strategy (Pierce method, R-score): **28.8 %**



Leaf

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

Leaf arrangement (phyllotaxis): **alternate**

Leaf shape: **simple - pinnately divided**

Stipules: **absent**

Petiole: **both present and absent**

Leaf life span: **summer green**

Leaf anatomy: **scleromorphic, mesomorphic**



Flower

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

Flowering phase: **8 Clematis vitalba-Galium sylvaticum (mid-summer)**

Flower colour: **green-white, red-brown**

Flower symmetry: **actinomorphic**

Perianth type: **calyx absent, corolla present**

Perianth fusion: **fused**

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

Inflorescence type: **panicula ex anthodiis composita**

Dicliny: **gynomonoecious**

Generative reproduction type: **facultative allogamy**

Pollination syndrome: **wind-pollination**



© Pavel Veselý

Fruit, seed and dispersal

Fruit type: **dry fruit - achene/cypsela/samara**

Fruit colour: **brown**

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

Dispersal unit (diaspore): **fruit, infrutescence or its part**

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

Myrmecochory: **probably myrmecochorous**



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Belowground organs and clonality

Shoot metamorphosis: **pleiocorm**

Storage organ: **pleiocorm**

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

Branching type of stem-derived organs of clonal growth: **sympodial**

Primary root: **present**

Position of root buds: **lateral roots**

Role of root buds in life-history of a plant: **additive**

Bud bank

Number of buds per shoot at the soil surface (root buds excluded):

Number of buds per shoot at a depth of 0–10 cm (root buds excluded):

Number of buds per shoot at a depth greater than 10 cm (root buds excluded):

Size of the belowground bud bank (root buds excluded):

Depth of the belowground bud bank (root buds excluded) [cm]: **4**

Number of buds per shoot at the soil surface (root buds included):

Number of buds per shoot at a depth of 0–10 cm (root buds included): **16**

Number of buds per shoot at a depth greater than 10 cm (root buds included):

Size of the belowground bud bank (root buds included): **36**

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



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Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

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



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Karyology

Chromosome number (2n): **16**

Ploidy level (x): **2**

2C genome size [Mbp]: **5457.03**

1Cx monoploid genome size [Mbp]: **2728.52**

Genomic GC content: **38.2 %**



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: **5 - indicator of fresh soils, focus on soils of average moisture, missing on wet and on soils that frequently dry out**

Reaction indicator value: **6x - transition between values 5 and 7 (generalist)**

Nutrient indicator value: **8 - pronounced nutrient indicator**

Salinity indicator value: **1 - salt tolerant, mostly on low-salt to salt-free soils, but occasionally on slightly salty soils**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-0.39**

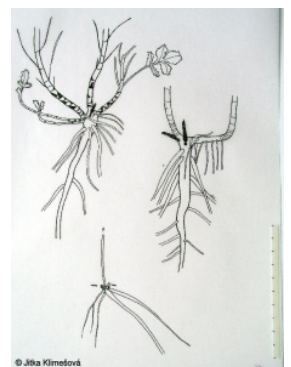
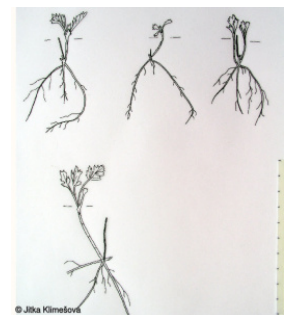
Herb layer disturbance frequency indicator value: **-0.33**

Whole-community disturbance severity indicator value: **0.68**

Herb layer disturbance severity indicator value: **0.69**

Whole-community structure based disturbance indicator value: **0.54**

Herb layer structure-based disturbance indicator value: **0.59**



Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

1A Calcareous cliffs: **1 - rare occurrence**

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

1C Walls: **1 - rare occurrence**

1D Mobile calcareous screes: **1 - rare occurrence**

2 Alpine and subalpine grasslands

2B Subalpine tall-forb and tall-grass vegetation: **1 - rare occurrence**

4 Wetland and riverine herbaceous vegetation

4A Reed-beds of eutrophic still waters: **1 - rare occurrence**

4B Halophilous reed and sedge beds: **1 - rare occurrence**

4D Riverine reed vegetation: **2 - optimum**

4H Vegetation of low annual hygrophilous herbs: **1 - rare occurrence**

4I Vegetation of nitrophilous annual hygrophilous herbs: **2 - optimum**

4J River gravel banks: **1 - rare occurrence**

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

4L Nitrophilous herbaceous fringes of lowland rivers: **2 - optimum**

6 Meadows and mesic pastures

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

6C Pastures and park grasslands: **1 - rare occurrence**

6D Alluvial meadows of lowland rivers: **1 - rare occurrence**

6F Intermittently wet Molinia meadows: **1 - rare occurrence**

6G Vegetation of wet disturbed soils: **2 - optimum**

8 Dry grasslands

8C Narrow-leaved sub-continental steppes: **1 - rare occurrence**

8D Broad-leaved dry grasslands: **1 - rare occurrence**

8E Acidophilous dry grasslands: **1 - rare occurrence**

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

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**

9D Pannonian sand steppes: **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**

10 Saline vegetation

10I Inland saline meadows: **1 - rare occurrence**

11 Heathlands and scrub

11I Willow carrs: **1 - rare occurrence**

11J Willow galleries of loamy and sandy river banks: **2 - optimum**

11L Tall mesic and xeric shrub: **1 - rare occurrence**

11R Scrub and pioneer woodland of forests clearings: **2 - optimum**

12 Forests

12B Alluvial forests: **1 - rare occurrence**

12T Robinia pseudacacia plantations: **1 - rare occurrence**

12U Plantations of broad-leaved non-native trees: **1 - rare occurrence**

13 Anthropogenic vegetation

13A Annual vegetation of ruderal habitats: **2 - optimum**

13B Annual vegetation of arable land: **1 - rare occurrence**

13C Annual vegetation of trampled habitats: **1 - rare occurrence**

13D Perennial thermophilous ruderal vegetation: **4 - constant dominant**

13E Perennial nitrophilous herbaceous vegetation of mesic sites: **2 - optimum**

13F Herbaceous vegetation of forests clearings and Rubus scrub: **1 - rare occurrence**

Affinity to the forest environment

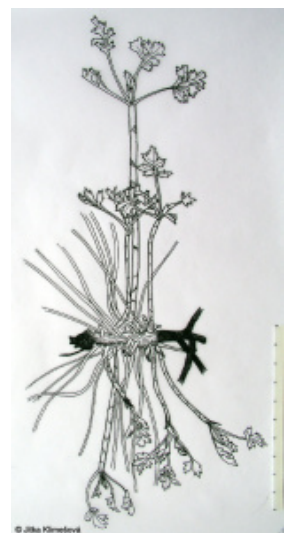
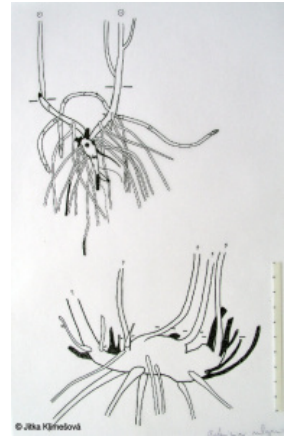
Affinity to the forest environment in Thermophyticum: **2.2 - taxon occurring partly in the forest, but mainly in open vegetation**

Affinity to the forest environment in Mesophyticum and Oreophyticum: **2.2 - taxon occurring partly in the forest, but mainly in open vegetation**

Diagnostic taxon

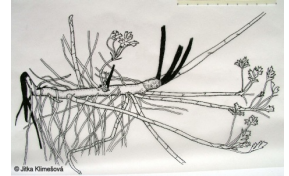
Diagnostic taxon of classes: [XC *Artemisietea vulgaris*](#)

Diagnostic taxon of alliances: [KBD *Aegopodio podagrariae-Sambucion nigrae*](#), [XBG *Atriplicion*](#), [XCA *Onopordion acanthii*](#), [XCB *Dauco carotae-Melilotion*](#), [XCE](#)



Arction lappae

Diagnostic taxon of associations: [XBG12 *Ivaetum xanthiifoliae*](#), [XCB01 *Melilotetum albo-officinalis*](#), [XCB07 *Tanaceto vulgaris-Artemisietum vulgaris*](#), [XCE02 *Arctietum lappae*](#), [XDA04 *Sicyo angulatae-Echinocystietum lobatae*](#)



Constant taxon

Constant taxon of classes: [XC *Artemisietea vulgaris*](#)

Constant taxon of alliances: [KBD *Aegopodio podagrariae-Sambucion nigrae*](#), [XBG *Atriplicion*](#), [XBH *Sisymbrium officinalis*](#), [XCA *Onopordion acanthii*](#), [XCB *Dauco carotae-Melilotion*](#), [XCC *Convolvulo arvensis-Elytrigion repentis*](#), [XCE *Arction lappae*](#), [XDA *Senecionion fluviatilis*](#)

Constant taxon of associations: [KAB03 *Salici purpureae-Myricarietum germanicae*](#), [KBD01 *Sambucetum nigrae*](#), [KBD02 *Lycietum barbari*](#), [XBA04 *Stachyo annuae-Setarietum pumilae*](#), [XBG01 *Chenopodietum stricti*](#), [XBG02 *Chenopodietum urbici*](#), [XBG03 *Atriplicetum nitentis*](#), [XBG04 *Descurainio sophiae-Atriplicetum oblongifoliae*](#), [XBG05 *Cynodonto dactyli-Atriplicetum tataricae*](#), [XBG06 *Atriplicetum roseae*](#), [XBG07 *Sisymbrietum loeselii*](#), [XBG08 *Descurainietum sophiae*](#), [XBG09 *Sisymbrietum altissimi*](#), [XBG10 *Chamaeplietum officinalis*](#), [XBG11 *Conyzo canadensis-Lactucetum serriolae*](#), [XBG12 *Ivaetum xanthiifoliae*](#), [XBG13 *Kochietum densiflorae*](#), [XBH01 *Hordeetum murini*](#), [XBK04 *Cynodontetum dactyli*](#), [XCA01 *Carduo acanthoidis-Onopordetum acanthii*](#), [XCA02 *Salvio nemorosae-Marrubietum peregrini*](#), [XCA03 *Potentillo argenteae-Artemisietum absinthii*](#), [XCB01 *Melilotetum albo-officinalis*](#), [XCB02 *Berteroetum incanae*](#), [XCB03 *Dauco carotae-Crepidetum rhoeadifoliae*](#), [XCB04 *Dauco carotae-Picridetum hieracioidis*](#), [XCB05 *Poo compressae-Tussilaginetum farfarae*](#), [XCB06 *Poëtum humili-compressae*](#), [XCB07 *Tanaceto vulgaris-Artemisietum vulgaris*](#), [XCB08 *Artemisio vulgaris-Echinopsietum sphaerocephali*](#), [XCB09 *Rudbeckio laciniatae-Solidaginetum canadensis*](#), [XCB10 *Buniadetum orientalis*](#), [XCB11 *Asclepiadetum syriacae*](#), [XCC01 *Convolvulo arvensis-Elytrigietum repentis*](#), [XCC02 *Falcario vulgaris-Elytrigietum repentis*](#), [XCE01 *Urtico urentis-Chenopodietum boni-henrici*](#), [XCE02 *Arctietum lappae*](#), [XCE03 *Hyoscyamo nigri-Conietum maculati*](#), [XCE04 *Sambucetum ebuli*](#), [XDA01 *Cuscuta europaeae-Calystegietum sepium*](#), [XDA03 *Calystegio sepium-Impatientetum glanduliferae*](#), [XDA04 *Sicyo angulatae-Echinocystietum lobatae*](#), [XDD02 *Torilidetum japonicae*](#), [XDE02 *Symphyto officinalis-Anthriscetum sylvestris*](#), [XDE03 *Chaerophylletum aromatici*](#), [XDE04 *Chaerophylletum aurei*](#), [XDE05 *Chaerophylletum bulbosi*](#), [XDE07 *Oenothero biennis-Helianthetum tuberosi*](#)

Dominant taxon

Dominant taxon of associations: [XBG12 *Ivaetum xanthiifoliae*](#), [XCB01 *Melilotetum albo-officinalis*](#), [XCB05 *Poo compressae-Tussilaginetum farfarae*](#), [XCB07 *Tanaceto vulgaris-Artemisietum vulgaris*](#), [XCB11 *Asclepiadetum syriacae*](#), [XCE02 *Arctietum lappae*](#), [XDA04 *Sicyo angulatae-Echinocystietum lobatae*](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **3.8**

Ecological specialization index for non-forest vegetation: **3.8**

Ecological specialization index for forest vegetation: **4**

Colonization ability

Index of colonization success (ICS): **9**

Index of colonization potential (ICP): **7**

Optimum successional age [years]: **10**

Distribution and frequency

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

Floristic region: **Europe, Asia**

Distribution range extension along the continentality gradient: **8**

Elevational belt in the Czech Republic: **lowlands, colline belt, submontane belt, montane belt**

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: **657**

taxon.data.freq_in_quad: **2267**

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **8.1 %**

Occurrence frequency in vegetation plots with a cover above 5%: **17.8 %**

Occurrence frequency in vegetation plots with a cover above 25%: **8.8 %**

Occurrence frequency in vegetation plots with a cover above 50%: **5.5 %**

Mean percentage cover in vegetation plots: **8.1 %**

Maximum percentage cover in vegetation plots: **99 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **41**

Number of narrow habitats in which the taxon has its optimum: **9**

Number of broad habitats in which the taxon occurs: **10**

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**