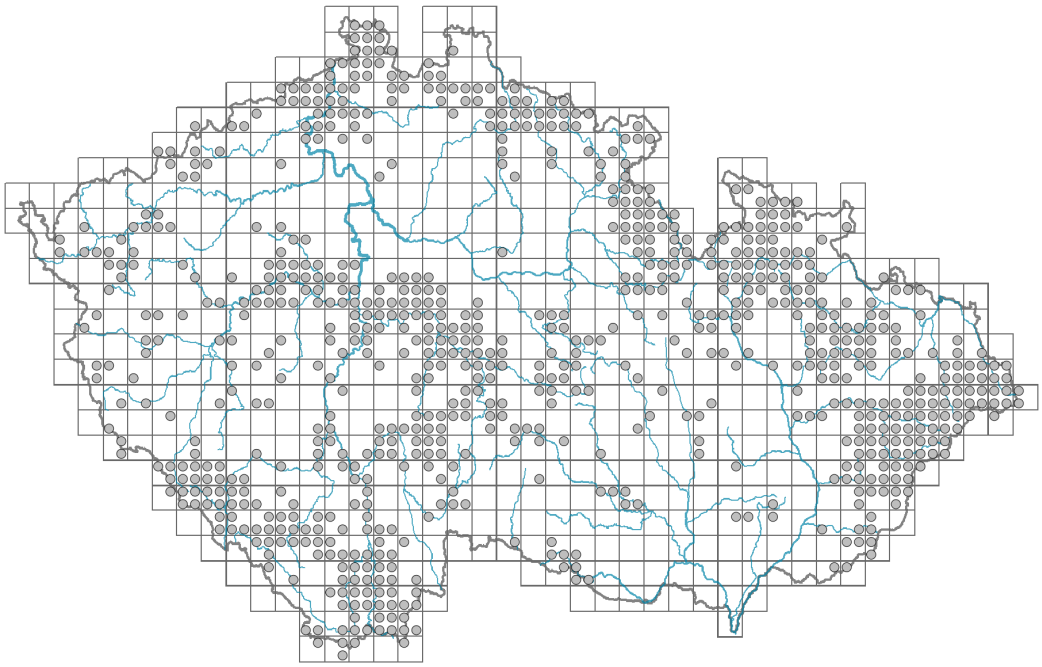
Aruncus dioicus

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]: **0.5–2**
Growth form: **clonal herb**
Life form: **hemicryptophyte (geophyte)**
Life strategy: **C – competitor**
Life strategy (Pierce method based on leaf traits): **C/CR**
Life strategy (Pierce method, C-score): **78.6 %**
Life strategy (Pierce method, S-score): **4.6 %**
Life strategy (Pierce method, R-score): **16.8 %**

Leaf

Leaf presence and metamorphosis: **leaves present, not modified**
Leaf arrangement (phyllotaxis): **alternate**
Leaf shape: **compound – bipinnate, compound – tripinnate**
Stipules: **absent**
Petiole: **present**
Leaf life span: **summer green**
Leaf anatomy: **hygromorphic**

Flower

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

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Flowering phase: **6 Cornus sanguinea-Melica uniflora (start of early summer)**
Flower colour: **white**
Flower symmetry: **actinomorphic**
Perianth type: **calyx and corolla**
Perianth fusion: **free**
Calyx fusion: **aposepalous**
Inflorescence type: **panicula**
Dicliny: **dioecious, trioecious**
Generative reproduction type: **allogamy**
Pollination syndrome: **insect-pollination**

Fruit, seed and dispersal



Fruit type: **dry fruit – cluster of follicles**
Fruit colour: **brown**
Reproduction type: **by seed/spores and vegetatively**
Dispersal unit (diaspore): **seed**
Dispersal strategy: **Allium (mainly autochory)**
Myrmecochory: **non-myrmecochorous (b)**

Belowground organs and clonality

Shoot metamorphosis: **rhizome**
Storage organ: **rhizome**
Type of clonal growth organ: **hypogeogenous rhizome**
Freely dispersible organs of clonal growth: **absent**
Shoot life span (cyclicity): **monocyclic 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: **2.7**
Lateral spreading distance by clonal growth [m]: **0.05**
Clonal index: **3**



Bud bank

Number of buds per shoot at the soil surface (root buds excluded): **3**
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): **18**
Depth of the belowground bud bank (root buds exluded) [cm]: **4**
Number of buds per shoot at the soil surface (root buds included): **3**
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): **18**
Depth of the belowground bud bank (root buds included) [cm]: **4**

Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**
Carnivory: **non-carnivorous**

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

Karyology

Chromosome number (2n): **18**
Ploidy level (x): **2**
2C genome size [Mbp]: **349.5**
1Cx monoploid genome size [Mbp]: **174.75**
Genomic GC content: **41.4 %**



Taxon origin

Origin in the Czech Republic: **native**

Ecological indicator values



Ellenberg-type indicator values

Light indicator value: **4 – transition between values 3 and 5**
Temperature indicator value: **4 – transition between values 3 and 5**
Moisture indicator value: **6 – transition between values 5 and 7**
Reaction indicator value: **7x – indicator of slightly acidic to slightly basic conditions, never occurring in very acidic conditions (generalist)**
Nutrient indicator value: **8 – pronounced nutrient indicator**
Salinity indicator value: **0 – not salt tolerant, glycophyte**

Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.9**
Herb layer disturbance frequency indicator value: **-0.73**
Whole-community disturbance severity indicator value: **0.26**
Herb layer disturbance severity indicator value: **0.12**
Whole-community structure based disturbance indicator value: **0.12**
Herb layer structure-based disturbance indicator value: **0.16**



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: **2 – optimum**

2 Alpine and subalpine grasslands

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

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**

11 Heathlands and scrub

11H Subalpine deciduous scrub: **2 – optimum**
11R Scrub and pioneer woodland of forests clearings: **2 – optimum**

12 Forests

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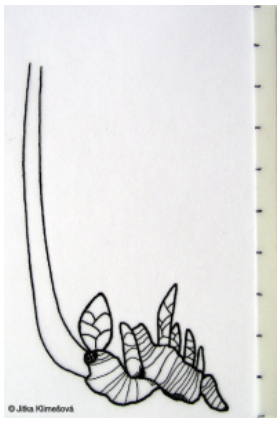
12B Alluvial forests: **2 – optimum**
12C Oak-hornbeam forests: **1 – rare occurrence**
12D Ravine forests: **2 – optimum**
12E Herb-rich beech forests: **1 – rare occurrence**
12F Limestone beech forests: **1 – rare occurrence**
12G Acidophilous beech forests: **1 – rare occurrence**
12U Plantations of broad-leaved non-native trees: **1 – rare occurrence**
12V Spruce plantations: **1 – rare occurrence**

13 Anthropogenic vegetation

13E Perennial nitrophilous herbaceous vegetation of mesic sites: **2 – optimum**
13F Herbaceous vegetation of forests clearings and Rubus scrub: **2 – optimum**

Affinity to the forest environment

Affinity to the forest environment in Thermophyticum: **2.1 – taxon occurring both in the forest and open vegetation**
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 associations: **LBF03 *Arunco dioici-Aceretum pseudoplatani***, **XDC03 *Arunco vulgaris-Lunarietum redivivae***

Dominant taxon

Dominant taxon of associations: **LBF03 *Arunco dioici-Aceretum pseudoplatani***, **XDC03 *Arunco vulgaris-Lunarietum redivivae***

Ecological specialization indices

Ecological specialization index for all vegetation types: **5.6**
Ecological specialization index for non-forest vegetation: **4.4**
Ecological specialization index for forest vegetation: **5.9**

Colonization ability

Index of colonization success (ICS): **1**
Index of colonization potential (ICP): **1**

Distribution and frequency

Floristic zone: **northern temperate, southern temperate, submeridional**
Floristic region: **Europe**
Continentality degree: **5**
Distribution range extension along the continentality gradient: **4**
Elevational belt in the Czech Republic: **colline belt, submontane belt, montane belt**
Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 374
taxon.data.freq_in_quad: 789

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.4 %**
Occurrence frequency in vegetation plots with a cover above 5%: **38.6 %**
Occurrence frequency in vegetation plots with a cover above 25%: **22.8 %**
Occurrence frequency in vegetation plots with a cover above 50%: **1.8 %**
Mean percentage cover in vegetation plots: **12.6 %**
Maximum percentage cover in vegetation plots: **63 %**

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Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **17**
Number of narrow habitats in which the taxon has its optimum: **7**
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): **C4a – near threatened taxon**
Red List 2017 (IUCN categories): **LC – least concern**
Legal protection: **not protected by law**

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