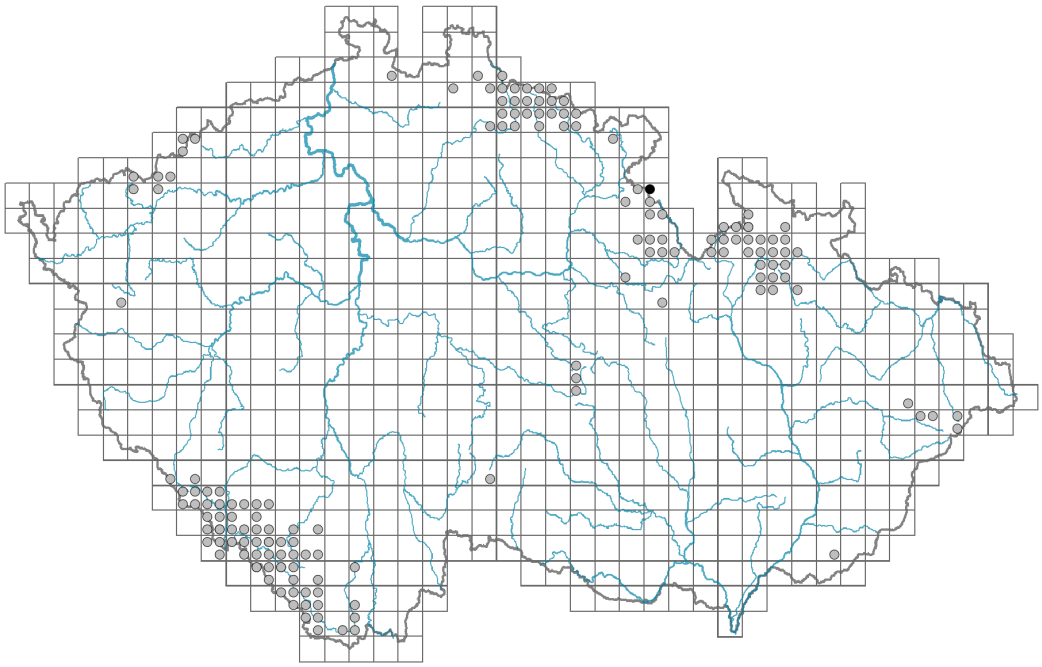
Aconitum plicatum



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]: **0.3–1.5**
Growth form: **clonal herb**
Life form: **hemicryptophyte (geophyte)**
Life strategy: **C – competitor**



Leaf

Leaf presence and metamorphosis: **leaves present, not modified**
Leaf arrangement (phyllotaxis): **alternate**
Leaf shape: **simple – palmately divided**
Stipules: **absent**
Petiole: **present**
Leaf life span: **summer green**
Leaf anatomy: **mesomorphic**



Flower

Flowering period [month]: **July–September**
Flower colour: **blue-violet**
Flower symmetry: **zygomorphic**
Perianth type: **homochlamydeous**
Perianth fusion: **free**

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Inflorescence type: **racemus**
Dicliny: **synoecious**
Generative reproduction type: **facultative allogamy**
Pollination syndrome: **insect-pollination**

Fruit, seed and dispersal

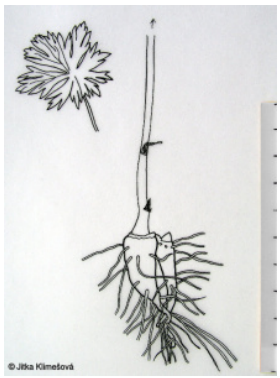


Fruit type: **dry fruit – cluster of follicles**
Fruit colour: **brown**
Reproduction type: **only by seed/spores**
Dispersal unit (diaspore): **seed**
Dispersal strategy: **Allium (mainly autochory)**
Myrmecochory: **probably non-myrmecochorous nv**

Belowground organs and clonality



Root metamorphosis: **secondary storage root**
Storage organ: **secondary storage root**
Type of clonal growth organ: **root tuber**
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]: **1**
Number of clonal offspring: **1**
Lateral spreading distance by clonal growth [m]: **0.01**
Clonal index: **3**



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): **5**
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): **10**
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): **5**
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): **10**
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): **32**
Ploidy level (x): **4**

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2C genome size [Mbp]: **18573.67**
1Cx monoploid genome size [Mbp]: **4643.42**
Genomic GC content: **43 %**

Taxon origin

Origin in the Czech Republic: **native**

Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **6 – transition between values 5 and 7; rarely at less than 20% of diffuse radiation incident in an open area**
Temperature indicator value: **3 – cool indicator, occurring mainly in subalpine areas**
Moisture indicator value: **7 – humidity indicator, focus on well moistened, but not wet soils**
Reaction indicator value: **6 – transition between values 5 and 7**
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: **-1.41**
Herb layer disturbance frequency indicator value: **-0.63**
Whole-community disturbance severity indicator value: **0.2**
Herb layer disturbance severity indicator value: **0.2**
Whole-community structure based disturbance indicator value: **0.4**
Herb layer structure-based disturbance indicator value: **0.41**

Habitat and sociology

Occurrence in habitats

2 Alpine and subalpine grasslands

2B Subalpine tall-forb and tall-grass vegetation: **2 – optimum**

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: **2 – optimum**

6 Meadows and mesic pastures

6B Montane mesic meadows: **1 – rare occurrence**

7 Acidophilous grasslands

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

11 Heathlands and scrub

11A Dry lowland to subalpine heathlands: **1 – rare occurrence**
11D Subalpine acidophilous Pinus mugo scrub: **2 – optimum**
11H Subalpine deciduous scrub: **2 – optimum**

12 Forests

12B Alluvial forests: **2 – optimum**

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

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

13 Anthropogenic vegetation

13E Perennial nitrophilous herbaceous vegetation of mesic sites: **1 – rare occurrence**

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: **ADB *Calamagrostion arundinaceae*, ADD *Adenostylion alliariae*, RAD *Swertio perennis-Dichodontion palustris***

Diagnostic taxon of associations: **ADA03 *Violo sudeticae-Deschampsietum cespitosae*, ADB01 *Bupleuro longifoliae-Calamagrostietum arundinaceae*, ADC01 *Salici silesiacae-Betuletum carpaticae*, ADD01 *Ranunculo platanifolii-Adenostyletum alliariae*, ADD02 *Salicetum lapponum*, ADD03 *Trollio altissimi-Geranietum sylvatici*, ADD04 *Laserpitio archangelicae-Dactylidetum glomeratae*, LBA01 *Alnetum incanae*, LBC04 *Athyrio distentifolii-Fagetum sylvaticae*, RAD01 *Crepido paludosae-Philonotidetum seriatae*, RAD02 *Swertietum perennis*, RAD03 *Cardaminetum opicii***

Constant taxon

Constant taxon of alliances: **ADB *Calamagrostion arundinaceae*, RAD *Swertio perennis-Dichodontion palustris***

Constant taxon of associations: **ADB01 *Bupleuro longifoliae-Calamagrostietum arundinaceae*, ADD03 *Trollio altissimi-Geranietum sylvatici*, ADD04 *Laserpitio archangelicae-Dactylidetum glomeratae*, RAD02 *Swertietum perennis*, RAD03 *Cardaminetum opicii***

Dominant taxon

Dominant taxon of associations: **RAD02 *Swertietum perennis*, RAD03 *Cardaminetum opicii***

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.5**

Ecological specialization index for non-forest vegetation: **4.5**

Ecological specialization index for forest vegetation: **5.7**

Colonization ability

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

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

Distribution and frequency

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

Floristic region: **Europe**

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: 75

taxon.data.freq_in_quad: 156

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%: **9.1 %**

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Occurrence frequency in vegetation plots with a cover above 25%: **2.3 %**
Occurrence frequency in vegetation plots with a cover above 50%: **0 %**
Mean percentage cover in vegetation plots: **3.7 %**
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: **13**
Number of narrow habitats in which the taxon has its optimum: **6**
Number of broad habitats in which the taxon occurs: **8**
Number of broad habitats in which the taxon has its optimum: **4**

Threats and protection

Red List 2017 (national categories): **C3 – vulnerable taxon**
Red List 2017 (IUCN categories): **LC – least concern**
Legal protection: **vulnerable taxon**

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