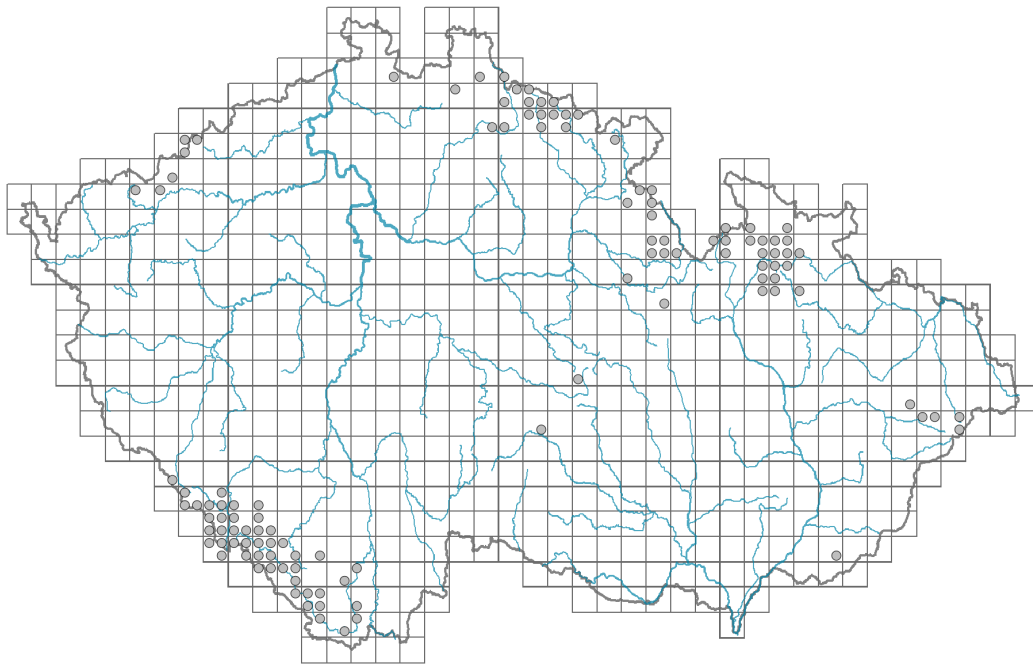


Aconitum plicatum

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**

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



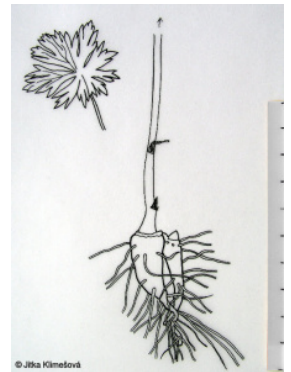
Fruit, seed and dispersal

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]:
 Number of clonal offspring:
 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):
 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]:
 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):
 Number of buds per shoot at a depth greater than 10 cm (root buds included):
 Size of the belowground bud bank (root buds included):
 Depth of the belowground bud bank (root buds included) [cm]:

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**

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**

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-Geranium 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-Geranium 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: **66**

taxon.data.freq_in_quad: **116**

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 %**

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**