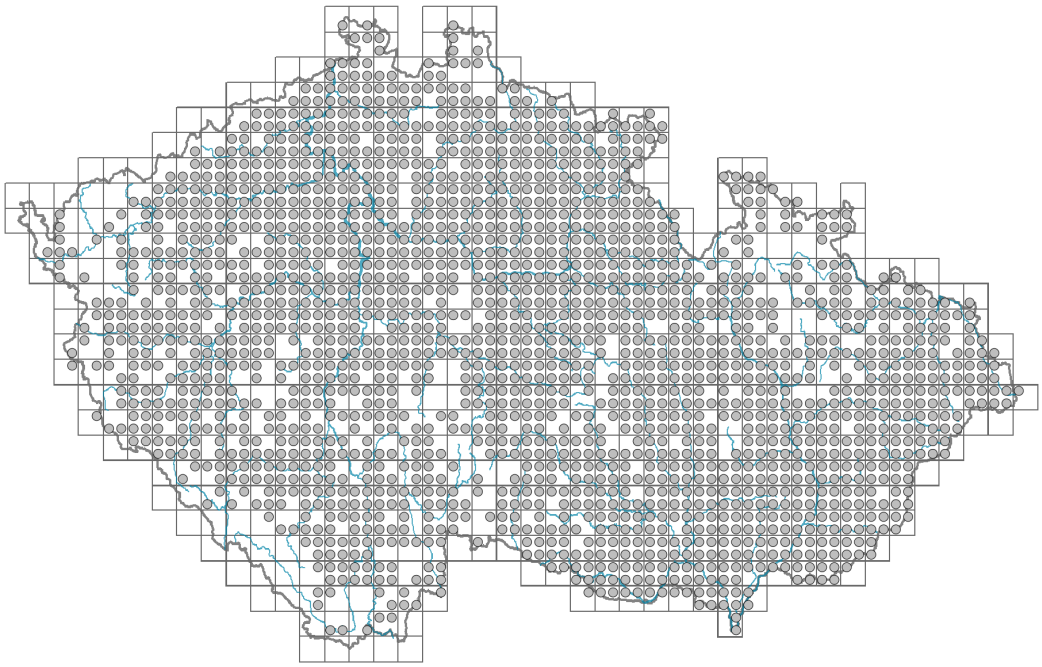
Convolvulus arvensis

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]: **0.1–0.7**
Growth form: **clonal herb**
Life form: **geophyte (hemicryptophyte)**
Life strategy: **CR – competitor/ruderal**
Life strategy (Pierce method based on leaf traits): **CR**
Life strategy (Pierce method, C-score): **36 %**
Life strategy (Pierce method, S-score): **4.7 %**
Life strategy (Pierce method, R-score): **59.3 %**

Leaf

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

Flower

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

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Flowering phase: **7 Ligustrum vulgare-Stachys sylvatica (end of early summer)**
Flower colour: **white, pink**
Flower symmetry: **actinomorphic**
Perianth type: **calyx and corolla**
Perianth fusion: **fused**
Shape of the sympetalous corolla or syntepalous perianth: **funnel-shaped**
Calyx fusion: **synsepalous**
Inflorescence type: **flores solitarii**
Dicliny: **synoecious**
Generative reproduction type: **allogamy self-incompatibility**
Pollination syndrome: **insect-pollination, selfing**
Pollinator spectrum: **solitary bees, hoverflies, beetles (honeybee, bumblebees, other Hymenoptera, flies s. l., meat flies s. l., other Diptera, butterflies, nitidulids, other pollinators)**











Fruit, seed and dispersal

Fruit type: **dry fruit – capsule**
Fruit colour: **brown**
Reproduction type: **mostly vegetatively, rarely by seed/spores**
Dispersal unit (diaspore): **seed**
Dispersal strategy: **Allium (mainly autochory)**
Myrmecochory: **non-myrmecochorous (b)**

Belowground organs and clonality

Root metamorphosis: **root shoot**
Type of clonal growth organ: **root with adventitious buds**
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: **3.5**
Lateral spreading distance by clonal growth [m]: **0.13**
Clonal index: **5**
Position of root buds: **lateral roots**
Role of root buds in life-history of a plant: **necessary**

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): **13**
Number of buds per shoot at a depth greater than 10 cm (root buds excluded): **3**
Size of the belowground bud bank (root buds excluded): **21**
Depth of the belowground bud bank (root buds exluded) [cm]: **5**
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): **21**
Number of buds per shoot at a depth greater than 10 cm (root buds included): **16**
Size of the belowground bud bank (root buds included): **42**

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Depth of the belowground bud bank (root buds included) [cm]: **8**



Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**
Carnivory: **non-carnivorous**
Symbiotic nitrogen fixation: **no nitrogen-fixing symbionts**



Karyology

Chromosome number (2n): **50 (48)**
Ploidy level (x): **4**
2C genome size [Mbp]: **2597.24**
1Cx monoploid genome size [Mbp]: **649.31**
Genomic GC content: **38.3 %**



Taxon origin

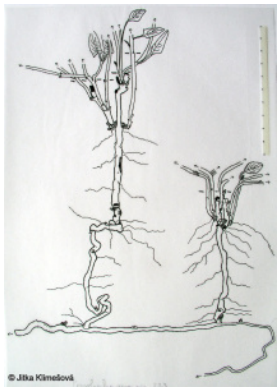
Origin in the Czech Republic: **archaeophyte**
Invasion status: **naturalized**
Geographic origin: **Mediterranean**
Period of introduction: **Neolithic (5600–4200 BCE)**
Introduction pathway: **unintentional – agriculture, unintentional – anthropogenic**



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: **6x – transition between values 5 and 7 (generalist)**
Moisture indicator value: **4 – transition between values 3 and 5**
Reaction indicator value: **7 – indicator of slightly acidic to slightly basic conditions, never occurring in very acidic conditions**
Nutrient indicator value: **6x – transition between values 5 and 7 (generalist)**
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: **-0.16**
Herb layer disturbance frequency indicator value: **-0.14**
Whole-community disturbance severity indicator value: **0.75**
Herb layer disturbance severity indicator value: **0.76**
Whole-community structure based disturbance indicator value: **0.64**
Herb layer structure-based disturbance indicator value: **0.7**

Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

1C Walls: **1 – rare occurrence**

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

4 Wetland and riverine herbaceous vegetation

4I Vegetation of nitrophilous annual hygrophilous herbs: **1 – rare occurrence**

4L Nitrophilous herbaceous fringes of lowland rivers: **1 – rare occurrence**

6 Meadows and mesic pastures

6A Mesic Arrhenatherum meadows: **2 – optimum**

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

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

6G Vegetation of wet disturbed soils: **1 – rare occurrence**

7 Acidophilous grasslands

7B Submontane Nardus grasslands: **1 – rare occurrence**

8 Dry grasslands

8A Hercynian dry grasslands on rock outcrops: **1 – rare occurrence**

8B Submediterranean dry grasslands on rock outcrops: **1 – rare occurrence**

8C Narrow-leaved sub-continental steppes: **2 – optimum**

8D Broad-leaved dry grasslands: **2 – optimum**

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: **1 – rare occurrence**

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

11N Low xeric scrub: **1 – rare occurrence**

11R Scrub and pioneer woodland of forests clearings: **1 – rare occurrence**

12 Forests

12H Peri-Alpidic basiphilous thermophilous oak forests: **1 – rare occurrence**

12J Acidophilous thermophilous oak forests: **1 – rare occurrence**

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

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

12W Pine and larch plantations: **1 – rare occurrence**

13 Anthropogenic vegetation

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

13B Annual vegetation of arable land: **2 – optimum**

13C Annual vegetation of trampled habitats: **2 – optimum**

13D Perennial thermophilous ruderal vegetation: **2 – optimum**

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

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

Affinity to the forest environment

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Affinity to the forest environment in Thermophyticum: **0 – taxon that does not spontaneously occur in Czech forests**

Affinity to the forest environment in Mesophyticum and Oreophyticum: **0 – taxon that does not spontaneously occur in Czech forests**

Diagnostic taxon

Diagnostic taxon of classes: **XB *Stellarietea mediae***

Diagnostic taxon of alliances: **XBA *Caucalidion***

Diagnostic taxon of associations: **SCA03 *Teucrio botryos-Melicetum ciliatae***, **XBA01 *Caucalido platycarpi-Conringietum orientalis***, **XBA02 *Lathyro tuberosi-Adonidetum aestivalis***, **XBK05 *Setario pumilae-Hibiscetum trioni***, **XCB02 *Berteroetum incanae***, **XCC02 *Falcario vulgaris-Elytrigietum repentis***

Constant taxon

Constant taxon of alliances: **XBA *Caucalidion***, **XBB *Veronico-Euphorbion***, **XBF *Spergulo arvensis-Erodion cicutariae***, **XBK *Eragrostion cilianensi-minoris***, **XCC *Convolvulo arvensis-Elytrigion repentis***

Constant taxon of associations: **SCA03 *Teucrio botryos-Melicetum ciliatae***, **XBA01 *Caucalido platycarpi-Conringietum orientalis***, **XBA02 *Lathyro tuberosi-Adonidetum aestivalis***, **XBA03 *Euphorbio exiguae-Melandrietum noctiflori***, **XBA04 *Stachyo annuae-Setarietum pumilae***, **XBB01 *Mercurialietum annuae***, **XBB02 *Veronico-Lamietum hybridi***, **XBF01 *Setario pumilae-Echinochloëtum cruris-galli***, **XBG09 *Sisymbrietum altissimi***, **XBK01 *Digitario sanguinalis-Eragrostietum minoris***, **XBK03 *Eragrostio poaeoidis-Panicetum capillaris***, **XBK05 *Setario pumilae-Hibiscetum trioni***, **XCA01 *Carduo acanthoidis-Onopordetum acanthii***, **XCA02 *Salvio nemorosae-Marrubietum peregrini***, **XCB02 *Berteroetum incanae***, **XCB08 *Artemisio vulgaris-Echinopsietum sphaerocephali***, **XCC02 *Falcario vulgaris-Elytrigietum repentis***, **XCC03 *Convolvulo arvensis-Brometum inermis***, **XCC04 *Cardarietum drabae***, **XCE03 *Hyoscyamo nigri-Conietum maculati***

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: **3.2**

Colonization ability

Index of colonization success (ICS): **8**

Index of colonization potential (ICP): **6**

Optimum successional age [years]: **22**

Distribution and frequency

Floristic zone: **northern temperate, southern temperate, submeridional, meridional, subtropical, tropical, austral or antarctic**

Floristic region: **Europe, Asia, circumpolar**

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

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

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 607

taxon.data.freq_in_quad: 1951

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **6.2 %**

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Occurrence frequency in vegetation plots with a cover above 5%: **11.4 %**
Occurrence frequency in vegetation plots with a cover above 25%: **1.5 %**
Occurrence frequency in vegetation plots with a cover above 50%: **0.3 %**
Mean percentage cover in vegetation plots: **4.1 %**
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: **37**
Number of narrow habitats in which the taxon has its optimum: **7**
Number of broad habitats in which the taxon occurs: **10**
Number of broad habitats in which the taxon has its optimum: **3**

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**

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