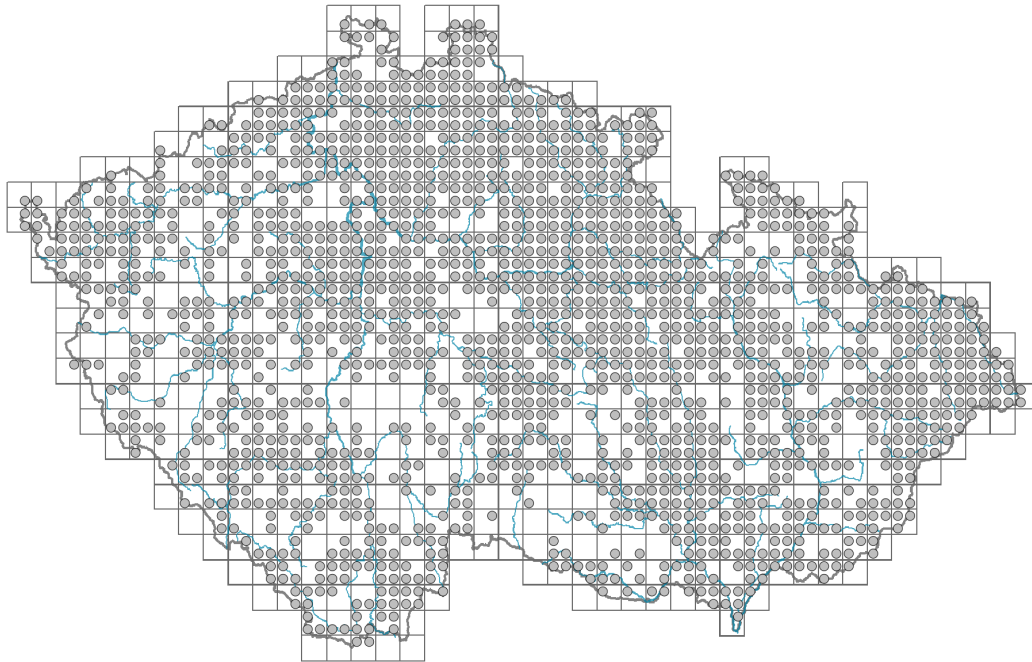


Solidago canadensis

Distribution



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Map info

● revised records

○ unrevised records

On the map are not visualized records without the coordinates and records marked as incorrect or doubtful.



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Habitus and growth type

Height [m]: **0.8-1.5**

Growth form: **clonal herb**

Life form: **hemicryptophyte**

Life strategy: **C - competitor**

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

Life strategy (Pierce method, C-score): **27.6 %**

Life strategy (Pierce method, S-score): **28.9 %**

Life strategy (Pierce method, R-score): **43.6 %**

Leaf

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

Leaf arrangement (phyllotaxis): **alternate**

Leaf shape: **simple - entire**

Stipules: **absent**

Petiole: **absent**

Leaf life span: **summer green**

Leaf anatomy: **mesomorphic**

Flower

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

Flowering phase: **9 Hedera helix-Solidago (early autumn)**

Flower colour: **yellow**

Flower symmetry: **actinomorphic, zygomorphic**

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

Perianth fusion: **fused**

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

Calyx fusion: **pappus**

Inflorescence type: **panicula ex anthodiis composita**

Dicliny: **gynomonoecious**

Generative reproduction type: **facultative allogamy**

Pollination syndrome: **insect-pollination**

Pollinator spectrum: **honeybee, hoverflies, flies s. l. (bumblebees, solitary bees, other Hymenoptera, meat flies s. l., other Diptera, butterflies)**



Fruit, seed and dispersal

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

Fruit colour: **brown**

Reproduction type: **by seed/spores and vegetatively**

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

Dispersal strategy: **Epilobium (mainly anemochory and autochory)**

Myrmecochory: **probably myrmecochorous**

Belowground organs and clonality

Shoot metamorphosis: **stolon-like rhizome**

Storage organ: **stolon-like rhizome**

Type of clonal growth organ: **hypogeogenous rhizome**

Freely dispersible organs of clonal growth: **absent**

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

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

Primary root: **absent**

Persistence of the clonal growth organ [year]: **3.4**

Number of clonal offspring: **6.6**

Lateral spreading distance by clonal growth [m]: **0.17**

Clonal index: **5**

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): **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): **20**

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

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): **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): **20**

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



Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

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

Karyology

Chromosome number (2n): **18**

Ploidy level (x): **2**

2C genome size [Mbp]: **1838.86**

1Cx monoploid genome size [Mbp]: **919.43**

Genomic GC content: **38.4 %**

Taxon origin

Origin in the Czech Republic: **neophyte**

Invasion status: **invasive**

Geographic origin: **North America**

Year of the first record in the wild: **1838**

Period of introduction: **Late Modern Period (1800-1950)**

Introduction pathway: **intentional - ornamental**

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

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

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: **-0.59**

Herb layer disturbance frequency indicator value: **-0.44**

Whole-community disturbance severity indicator value: **0.59**

Herb layer disturbance severity indicator value: **0.6**

Whole-community structure based disturbance indicator value: **0.44**

Herb layer structure-based disturbance indicator value: **0.53**

Habitat and sociology

Occurrence in habitats

1 Vegetation of cliffs, screes and walls

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

4 Wetland and riverine herbaceous vegetation

4D Riverine reed vegetation: **1 - rare occurrence**



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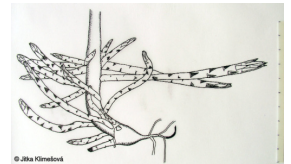
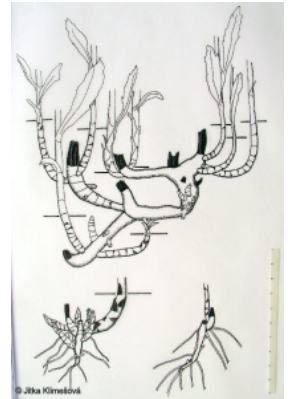


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- 4K Petasites fringes of montane brooks: **1 - rare occurrence**
 4L Nitrophilous herbaceous fringes of lowland rivers: **1 - rare occurrence**
 6 Meadows and mesic pastures
 6A Mesic Arrhenatherum meadows: **1 - rare occurrence**
 10 Saline vegetation
 10I Inland saline meadows: **1 - rare occurrence**
 11 Heathlands and scrub
 11J Willow galleries of loamy and sandy river banks: **2 - optimum**
 11R Scrub and pioneer woodland of forests clearings: **1 - rare occurrence**
 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: **1 - rare occurrence**
 13D Perennial thermophilous ruderal vegetation: **3 - dominant**
 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: [KAB *Salicion elaeagno-daphnoidis*](#), [XCB *Dauco carotae-Melilotion*](#)

Diagnostic taxon of associations: [KAB01 *Salicetum elaeagno-purpureae*](#), [XBG12 *Ivaetum xanthiifoliae*](#), [XCB09 *Rudbeckio laciniatae-Solidaginetum canadensis*](#)

Constant taxon

Constant taxon of associations: [KAB01 *Salicetum elaeagno-purpureae*](#), [XCB09 *Rudbeckio laciniatae-Solidaginetum canadensis*](#)

Dominant taxon

Dominant taxon of associations: [XCB09 *Rudbeckio laciniatae-Solidaginetum canadensis*](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.2**

Ecological specialization index for non-forest vegetation: **4.2**

Ecological specialization index for forest vegetation: **3.7**

Colonization ability

Index of colonization success (ICS): **7**

Index of colonization potential (ICP): **9**

Optimum successional age [years]: **34**

Distribution and frequency

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

Floristic region: **Europe, Asia, Americas**

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: 611

taxon.data.freq_in_quad: 1700

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.9 %**

Occurrence frequency in vegetation plots with a cover above 5%: **31.6 %**

Occurrence frequency in vegetation plots with a cover above 25%: **24.9 %**

Occurrence frequency in vegetation plots with a cover above 50%: **20.1 %**

Mean percentage cover in vegetation plots: **19.6 %**

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: **14**

Number of narrow habitats in which the taxon has its optimum: **2**

Number of broad habitats in which the taxon occurs: **7**

Number of broad habitats in which the taxon has its optimum: **2**

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**