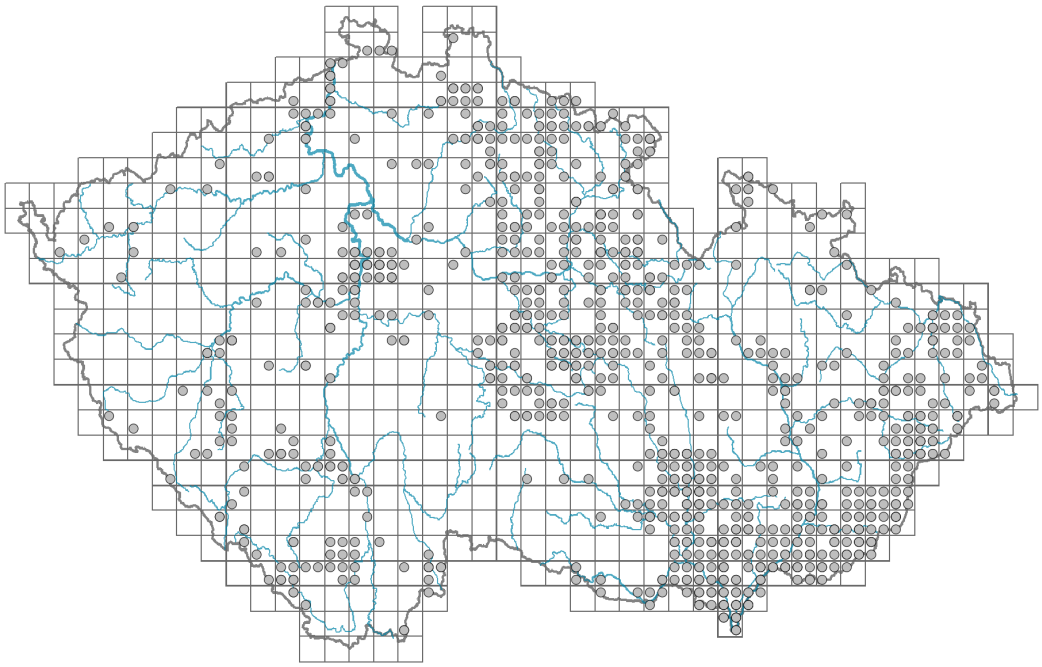
Symphyotrichum novi-belgii agg.

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]: **0.15–1.5**
Growth form: **clonal herb**
Life form: **hemicryptophyte**
Life strategy: **C – competitor**

Leaf

Leaf presence and metamorphosis: **leaves present, not modified**
Leaf arrangement (phyllotaxis): **alternate**
Leaf shape: **simple – entire**
Stipules: **absent**
Petiole: **both present and absent, 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: **white, yellow, red-violet, violet, blue, blue-violet**
Flower symmetry: **actinomorphic, zygomorphic**
Perianth type: **calyx reduced, corolla present**

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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: **allogamy self-incompatibility, facultative allogamy**
Pollination syndrome: **insect-pollination, geitonogamy**



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), Zea (no dispersal)**
Myrmecochory: **non-myrmecochorous (b) nv**



Belowground organs and clonality

Shoot metamorphosis: **stolon**
Storage organ: **stolon**
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]: **2**
Number of clonal offspring: **6**
Lateral spreading distance by clonal growth [m]: **0.13**
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 exluded) [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**



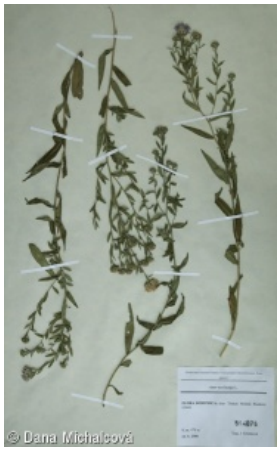
Trophic mode

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



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Karyology



Chromosome number (2n): **32, 48, 64**
Ploidy level (x): **4, 6, 8**
2C genome size [Mbp]: **4400.33**
1Cx monoploid genome size [Mbp]: **636.78**

Taxon origin

Origin in the Czech Republic: **neophyte**
Invasion status: **invasive**
Geographic origin: **North America, hybrid origin, anecophyte**

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: **6 – transition between values 5 and 7**
Moisture indicator value: **6 – transition between values 5 and 7**
Reaction indicator value: **7 – indicator of slightly acidic to slightly basic conditions, never occurring in very acidic conditions**
Nutrient indicator value: **8 – pronounced nutrient indicator**
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: **-1.1**
Herb layer disturbance frequency indicator value: **-0.57**
Whole-community disturbance severity indicator value: **0.41**
Herb layer disturbance severity indicator value: **0.41**
Whole-community structure based disturbance indicator value: **0.32**
Herb layer structure-based disturbance indicator value: **0.32**



Habitat and sociology

Occurrence in habitats

4 Wetland and riverine herbaceous vegetation

4A Reed-beds of eutrophic still waters: **2 – optimum**
4B Halophilous reed and sedge beds: **1 – rare occurrence**
4C Eutrophic vegetation of muddy substrata: **1 – rare occurrence**
4D Riverine reed vegetation: **1 – rare occurrence, 2 – optimum**
4E Reed vegetation of brooks: **1 – rare occurrence**
4G Tall-sedge beds: **2 – optimum**
4H Vegetation of low annual hygrophilous herbs: **1 – rare occurrence**
4I Vegetation of nitrophilous annual hygrophilous herbs: **1 – rare occurrence**
4J River gravel banks: **1 – rare occurrence**
4K Petasites fringes of montane brooks: **1 – rare occurrence**
4L Nitrophilous herbaceous fringes of lowland rivers: **3 – dominant**

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5 Vegetation of springs and mires

5B Lowland to montane soft-water springs: **1 – rare occurrence**

6 Meadows and mesic pastures

6A Mesic Arrhenatherum meadows: **1 – rare occurrence, 2 – optimum**

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

6D Alluvial meadows of lowland rivers: **2 – optimum**

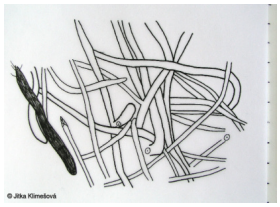
6E Wet Cirsium meadows: **1 – rare occurrence, 2 – optimum**

6F Intermittently wet Molinia meadows: **1 – rare occurrence, 2 – optimum**

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

8 Dry grasslands

8F Thermophilous forest fringe vegetation: **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, 2 – optimum**

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

11R Scrub and pioneer woodland of forests clearings: **2 – optimum**



12 Forests

12A Alder carrs: **2 – optimum**

12B Alluvial forests: **1 – rare occurrence, 2 – optimum**

12I Sub-continental thermophilous oak forests: **1 – rare occurrence**

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

12U Plantations of broad-leaved non-native trees: **2 – optimum**

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

13 Anthropogenic vegetation

13A Annual vegetation of ruderal habitats: **1 – rare occurrence**

13B Annual vegetation of arable land: **1 – rare occurrence**

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

13E Perennial nitrophilous herbaceous vegetation of mesic sites: **3 – dominant**

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



Diagnostic taxon

Diagnostic taxon of associations: **KAC01 *Salicetum albae***, **KBD03 *Sambuco nigrae-Aceretum negundo***, **LBA07 *Fraxino pannonicae-Ulmetum glabrae***, **TDE05 *Scutellario hastifoliae-Veronicetum longifoliae***, **XDA04 *Sicyo angulatae-Echinocystietum lobatae***, **XDE09 *Asteretum lanceolati***

Constant taxon

Constant taxon of associations: **XDE09 *Asteretum lanceolati***



Dominant taxon

Dominant taxon of associations: **LBA07 *Fraxino pannonicae-Ulmetum glabrae***, **XDE09 *Asteretum lanceolati***

Ecological specialization indices

Ecological specialization index for all vegetation types: **3.8**

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

Ecological specialization index for forest vegetation: **5.8**

Colonization ability

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Index of colonization success (ICS): **3**
Index of colonization potential (ICP): **4**
Optimum successional age [years]: **39.5**



Distribution and frequency

Floristic zone: **boreal, northern temperate, southern temperate, submeridional, meridional**
Floristic region: **Americas, Eastern America**
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: 342
taxon.data.freq_in_quad: 674



Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.5 %**
Occurrence frequency in vegetation plots with a cover above 5%: **48.5 %**
Occurrence frequency in vegetation plots with a cover above 25%: **35.8 %**
Occurrence frequency in vegetation plots with a cover above 50%: **27.3 %**
Mean percentage cover in vegetation plots: **27.4 %**
Maximum percentage cover in vegetation plots: **90 %**



Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **35**
Number of narrow habitats in which the taxon has its optimum: **15**
Number of broad habitats in which the taxon occurs: **8**
Number of broad habitats in which the taxon has its optimum: **5**



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