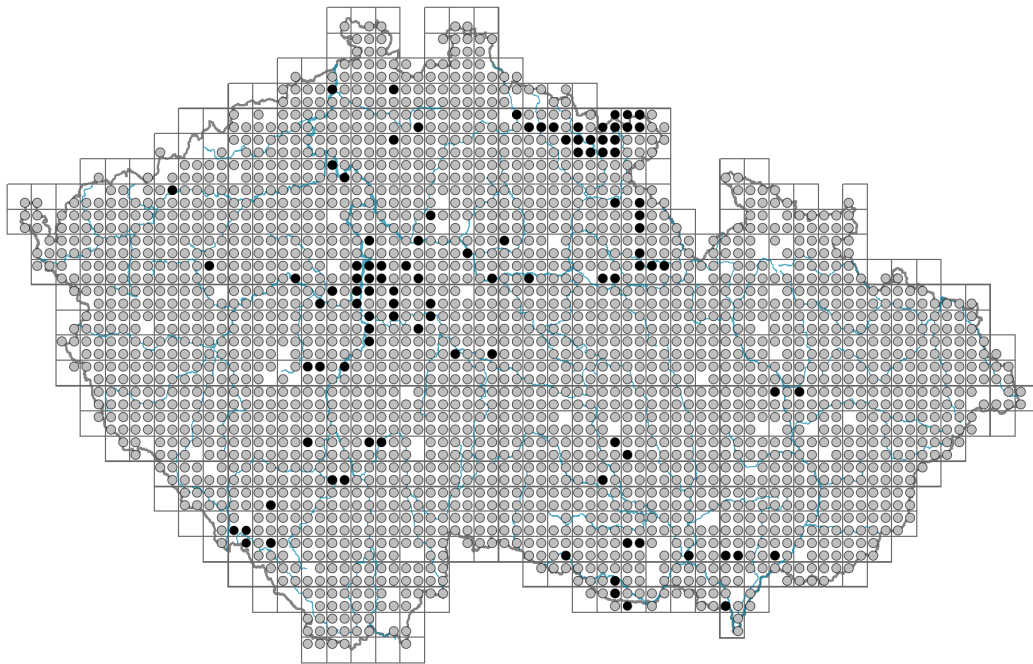


# *Hypericum perforatum*

## 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**

Growth form: **clonal herb**

Life form: **hemicryptophyte**

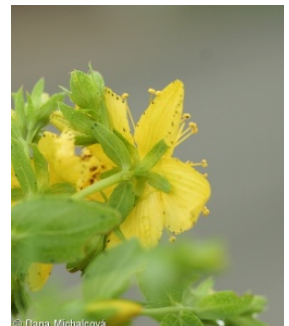
Life strategy: **C - competitor**

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

Life strategy (Pierce method, C-score): **6.7 %**

Life strategy (Pierce method, S-score): **52.6 %**

Life strategy (Pierce method, R-score): **40.7 %**



## Leaf

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

Leaf arrangement (phyllotaxis): **opposite**

Leaf shape: **simple - entire**

Stipules: **absent**

Petiole: **both present and absent**

Leaf life span: **summer green**

Leaf anatomy: **scleromorphic, mesomorphic**



## Flower

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

Flowering phase: **7 Ligustrum vulgare-Stachys sylvatica (end of early summer)**

Flower colour: **yellow**

Flower symmetry: **actinomorphic**

Perianth type: **calyx and corolla**

Perianth fusion: **free**

Calyx fusion: **aposepalous**

Inflorescence type: **panicula e bostrychibus composita**

Dicliny: **synoecious**

Generative reproduction type: **facultative apomixis**

Pollination syndrome: **insect-pollination, selfing**

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

## Fruit, seed and dispersal

Fruit type: **dry fruit - capsule**

Fruit colour: **brown**

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

Dispersal unit (diaspore): **seed**

Dispersal strategy: **Allium (mainly autochory)**

Myrmecochory: **non-myrmecochorous (b)**

## Belowground organs and clonality

Shoot metamorphosis: **stolon, pleiocorm**

Root metamorphosis: **root shoot**

Storage organ: **stolon, pleiocorm**

Type of clonal growth organ: **root with adventitious buds**

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]:

Number of clonal offspring: **1.7**

Lateral spreading distance by clonal growth [m]: **0.09**

Clonal index: **4**

Position of root buds: **lateral roots**

Role of root buds in life-history of a plant: **additive**

## Bud bank

Number of buds per shoot at the soil surface (root buds excluded): **9**

Number of buds per shoot at a depth of 0–10 cm (root buds excluded): **9**

Number of buds per shoot at a depth greater than 10 cm (root buds excluded):

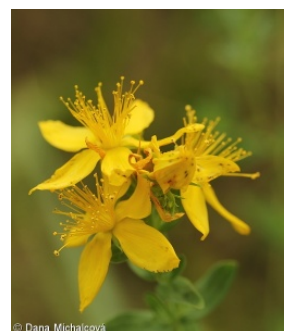
Size of the belowground bud bank (root buds excluded): **18**

Depth of the belowground bud bank (root buds excluded) [cm]: **3**

Number of buds per shoot at the soil surface (root buds included): **9**

Number of buds per shoot at a depth of 0–10 cm (root buds included): **17**

Number of buds per shoot at a depth greater than 10 cm (root buds included):



Size of the belowground bud bank (root buds included): **41**  
 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): **32**  
 Ploidy level (x): **4**  
 2C genome size [Mbp]: **1351.01**  
 1Cx monoploid genome size [Mbp]: **337.75**  
 Genomic GC content: **40.3 %**

## Taxon origin

Origin in the Czech Republic: **native**

## 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: **5 - moderate heat indicator, occurring from lowland to montane belt, mainly in submontane-temperate areas**  
 Moisture indicator value: **4 - transition between values 3 and 5**  
 Reaction indicator value: **6 - transition between values 5 and 7**  
 Nutrient indicator value: **4 - transition between values 3 and 5**  
 Salinity indicator value: **1 - salt tolerant, mostly on low-salt to salt-free soils, but occasionally on slightly salty soils**

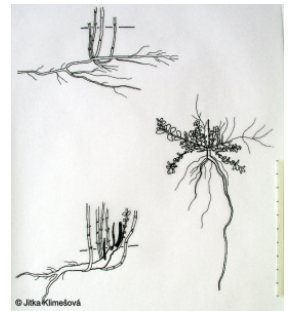
### Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.25**  
 Herb layer disturbance frequency indicator value: **-0.51**  
 Whole-community disturbance severity indicator value: **0.35**  
 Herb layer disturbance severity indicator value: **0.34**  
 Whole-community structure based disturbance indicator value: **0.35**  
 Herb layer structure-based disturbance indicator value: **0.41**

## Habitat and sociology

### Occurrence in habitats

1 Vegetation of cliffs, screes and walls  
 1A Calcareous cliffs: **1 - rare occurrence**  
 1B Siliceous cliffs and block fields: **1 - rare occurrence**  
 1C Walls: **1 - rare occurrence**  
 1D Mobile calcareous screes: **2 - optimum**



#### 4 Wetland and riverine herbaceous vegetation

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: **2 - optimum**

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

6C Pastures and park grasslands: **2 - optimum**

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

6E Wet Cirsium meadows: **1 - rare occurrence**

6F Intermittently wet Molinia meadows: **1 - rare occurrence**

6G Vegetation of wet disturbed soils: **2 - optimum**

#### 7 Acidophilous grasslands

7B Submontane Nardus grasslands: **2 - optimum**

#### 8 Dry grasslands

8A Hercynian dry grasslands on rock outcrops: **2 - optimum**

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: **2 - optimum**

8F Thermophilous forest fringe vegetation: **2 - optimum**

#### 9 Sand grasslands and rock-outcrop vegetation

9B Open vegetation of acidic sands: **1 - rare occurrence**

9C Festuca grasslands on acidic sands: **2 - optimum**

9D Pannonian sand steppes: **2 - optimum**

9E Acidophilous vegetation of spring therophytes and succulents: **2 - optimum**

9F Basiphilous vegetation of spring therophytes and succulents: **2 - optimum**

#### 10 Saline vegetation

10I Inland saline meadows: **1 - rare occurrence**

#### 11 Heathlands and scrub

11A Dry lowland to subalpine heathlands: **2 - optimum**

11H Subalpine deciduous scrub: **1 - rare occurrence**

11J Willow galleries of loamy and sandy river banks: **1 - rare occurrence**

11L Tall mesic and xeric shrub: **2 - optimum**

11N Low xeric scrub: **2 - optimum**

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

#### 12 Forests

12A Alder carrs: **1 - rare occurrence**

12B Alluvial forests: **1 - rare occurrence**

12C Oak-hornbeam forests: **1 - rare occurrence**

12D Ravine forests: **1 - rare occurrence**

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

12F Limestone beech forests: **1 - rare occurrence**

12G Acidophilous beech forests: **1 - rare occurrence**

12H Peri-Alpidic basiphilous thermophilous oak forests: **2 - optimum**

12I Sub-continental thermophilous oak forests: **2 - optimum**

12J Acidophilous thermophilous oak forests: **2 - optimum**

12K Acidophilous oak forests: **2 - optimum**

12L Boreo-continental pine forests: **1 - rare occurrence**

12O Peri-Alpidic pine forests: **1 - rare occurrence**

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

12V Spruce plantations: **1 - rare occurrence**

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**

13C Annual vegetation of trampled habitats: **1 - rare occurrence**

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: **2 - optimum**

### 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 alliances: [THG Koelerio-Phleion phleoidis](#)

Diagnostic taxon of associations: [TFC02 Erysimo diffusi-Agrostietum capillaris](#), [THA04 Helichryso arenariae-Festucetum pallentis](#)

### Constant taxon

Constant taxon of classes: [TG Festucetea vaginatae](#)

Constant taxon of alliances: [KBG Euphorbio cyparissiae-Robinion pseudoacaciae](#), [LCB Aceri tatarici-Quercion](#), [LCC Quercion petraeae](#), [TEE Euphorbio cyparissiae-Callunion vulgaris](#), [TFC Armerion elongatae](#), [TFD Hyperico perforati-Scleranthion perennis](#), [TGA Festucion vaginatae](#), [THF Bromion erecti](#), [THG Koelerio-Phleion phleoidis](#), [THH Geranion sanguinei](#)

Constant taxon of associations: [KAB03 Salici purpureae-Myricarietum germanicae](#), [KBB02 Viola hirtae-Cornetum maris](#), [KBG01 Melico transsilvanicae-Robinietum pseudoacaciae](#), [LCB02 Carici fritschii-Quercetum roboris](#), [LCC01 Sorbo torminalis-Quercetum](#), [LCC02 Genisto pilosae-Quercetum petraeae](#), [SCA02 Galeopsietum angustifoliae](#), [SCA03 Teucro botryos-Melicetum ciliatae](#), [TEE01 Euphorbio cyparissiae-Callunetum vulgaris](#), [TFC02 Erysimo diffusi-Agrostietum capillaris](#), [TFD01 Polytricho piliferi-Scleranthetum perennis](#), [TFD02 Jasiono montanae-Festucetum ovinae](#), [TGA01 Diantho serotini-Festucetum vaginatae](#), [THA04 Helichryso arenariae-Festucetum pallentis](#), [THF01 Carlino acaulis-Brometum erecti](#), [THG01 Potentillo heptaphyllae-Festucetum rupicolae](#), [THG02 Avenulo pratensis-Festucetum valesiaca](#), [THG03 Viscario vulgaris-Avenuletum pratensis](#), [THH01 Trifolio alpestris-Geranietum sanguinei](#), [THH02 Geranio sanguinei-Dictamnietum albae](#)

### Ecological specialization indices

Ecological specialization index for all vegetation types: **3.5**

Ecological specialization index for non-forest vegetation: **3.8**

Ecological specialization index for forest vegetation: **4.4**

### Colonization ability

Index of colonization success (ICS): **9**

Index of colonization potential (ICP): **7**

Optimum successional age [years]: **23**

## Distribution and frequency

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

Floristic region: **Europe, Western Asia**

Distribution range extension along the continentality gradient: **6**

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

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: **655**

taxon.data.freq\_in\_quad: **2353**

Commonness in vegetation plots from the Czech Republic

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

Occurrence frequency in vegetation plots with a cover above 5%: **1.8 %**

Occurrence frequency in vegetation plots with a cover above 25%: **0.2 %**

Occurrence frequency in vegetation plots with a cover above 50%: **0 %**

Mean percentage cover in vegetation plots: **2.1 %**

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: **54**

Number of narrow habitats in which the taxon has its optimum: **24**

Number of broad habitats in which the taxon occurs: **10**

Number of broad habitats in which the taxon has its optimum: **8**

## 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**