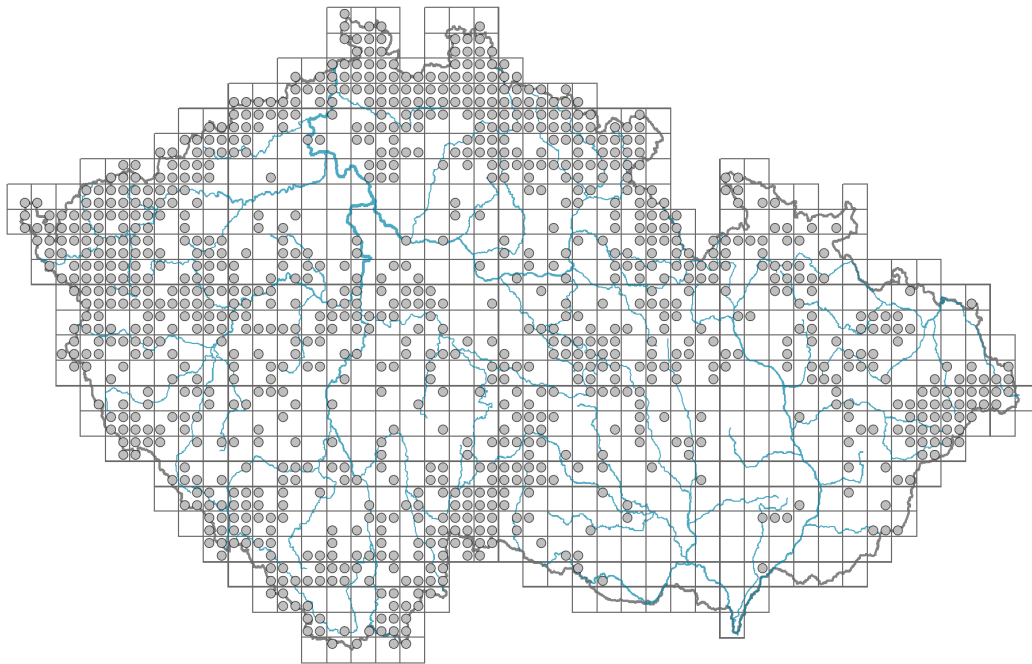


Digitalis purpurea

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]: **0.6-1.8**

Growth form: **monocarpic perennial non-clonal herb**

Life form: **hemicryptophyte**

Life strategy: **CR - competitor/ruderal**

Life strategy (Pierce method based on leaf traits): **C/CS**

Life strategy (Pierce method, C-score): **74.7 %**

Life strategy (Pierce method, S-score): **15.1 %**

Life strategy (Pierce method, R-score): **10.2 %**



Leaf

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

Leaf arrangement (phyllotaxis): **alternate, rosulate**

Leaf shape: **simple - entire**

Stipules: **absent**

Petiole: **both present and absent**

Leaf life span: **evergreen**

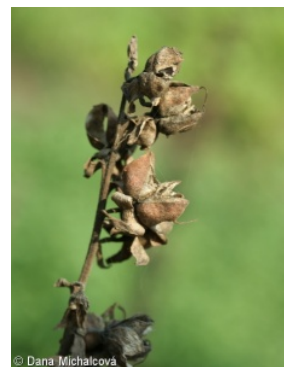
Leaf anatomy: **mesomorphic**

Flower

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



Flowering phase: **7 Ligustrum vulgare-Stachys sylvatica (end of early summer)**
 Flower colour: **white, red-violet**
 Flower symmetry: **zygomorphic**
 Perianth type: **calyx and corolla**
 Perianth fusion: **fused**
 Shape of the sympetalous corolla or syntepalous perianth: **campanulate**
 Calyx fusion: **synsepalous**
 Inflorescence type: **racemus**
 Dicliny: **synoecious, gynodioecious**
 Generative reproduction type: **alogamy self-incompatibility**
 Pollination syndrome: **insect-pollination**
 Pollinator spectrum: **bumblebees, nitidulids, thrips (solitary bees, flies s. l., butterflies)**



Fruit, seed and dispersal

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

Belowground organs and clonality

Shoot metamorphosis: **rhizome**
 Storage organ: **rhizome**
 Shoot life span (cyclicality): **dicyclic or polycyclic shoots prevailing**
 Primary root: **present**
 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): **10**
 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): **15**
 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): **10**
 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): **15**
 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): **56**
Ploidy level (x): **2**
2C genome size [Mbp]: **1701.35**
1Cx monoploid genome size [Mbp]: **850.68**
Genomic GC content: **41.3 %**



Taxon origin

Origin in the Czech Republic: **archaeophyte/neophyte**
Invasion status: **naturalized**
Geographic origin: **Europe, Mediterranean**
Year of the first record in the wild: **1790**
Period of introduction: **Late Middle Ages and Early Modern Period (merged category, 1200-1800)**
Introduction pathway: **intentional - ornamental, intentional - other**

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: **5 - moderate heat indicator, occurring from lowland to montane belt, mainly in submontane-temperate areas**

Moisture indicator value: **5 - indicator of fresh soils, focus on soils of average moisture, missing on wet and on soils that frequently dry out**

Reaction indicator value: **3 - acidity indicator, occurring mainly in acidic conditions, exceptionally in neutral conditions**

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: **-1.2**

Herb layer disturbance frequency indicator value: **-0.49**

Whole-community disturbance severity indicator value: **0.58**

Herb layer disturbance severity indicator value: **0.56**

Whole-community structure based disturbance indicator value: **0.34**

Herb layer structure-based disturbance indicator value: **0.28**

Habitat and sociology

Occurrence in habitats

11 Heathlands and scrub

11A Dry lowland to subalpine heathlands: **1 - rare occurrence**

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

12 Forests

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

12G Acidophilous beech forests: **2 - optimum**

12K Acidophilous oak forests: **1 - rare occurrence**

12V Spruce plantations: **2 - optimum**

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

13 Anthropogenic vegetation

13F Herbaceous vegetation of forests clearings and Rubus scrub: **2 - optimum**

Affinity to the forest environment

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: **1.2 - taxon occurring mainly along forest edges and in forest openings, including forest roads and paths, windthrow sites, burnt sites and forest clearings**

Diagnostic taxon

Diagnostic taxon of classes: [XE *Epilobietea angustifolii*](#)

Diagnostic taxon of alliances: [XEA *Fragarion vescae*](#)

Diagnostic taxon of associations: [XEA02 *Digitali purpureae-Epilobietum angustifolii*](#),
[XEA07 *Gymnocarpio dryopteridis-Athyrietum filicis-feminae*](#)

Constant taxon

Constant taxon of associations: [XEA02 *Digitali purpureae-Epilobietum angustifolii*](#)

Dominant taxon

Dominant taxon of associations: [XEA02 *Digitali purpureae-Epilobietum angustifolii*](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **5**

Ecological specialization index for non-forest vegetation: **5.2**

Ecological specialization index for forest vegetation: **5.2**

Colonization ability

Index of colonization success (ICS): **5**

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

Optimum successional age [years]: **5**

Distribution and frequency

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

Floristic region: **Europe**

Continental degree: **2**

Distribution range extension along the continentality gradient: **2**

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

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 468

taxon.data.freq_in_quad: 1024

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.2 %**

Occurrence frequency in vegetation plots with a cover above 5%: **48.1 %**

Occurrence frequency in vegetation plots with a cover above 25%: **26.9 %**

Occurrence frequency in vegetation plots with a cover above 50%: **1.9 %**

Mean percentage cover in vegetation plots: **14.1 %**

Maximum percentage cover in vegetation plots: **63 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **8**

Number of narrow habitats in which the taxon has its optimum: **4**

Number of broad habitats in which the taxon occurs: **3**

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**