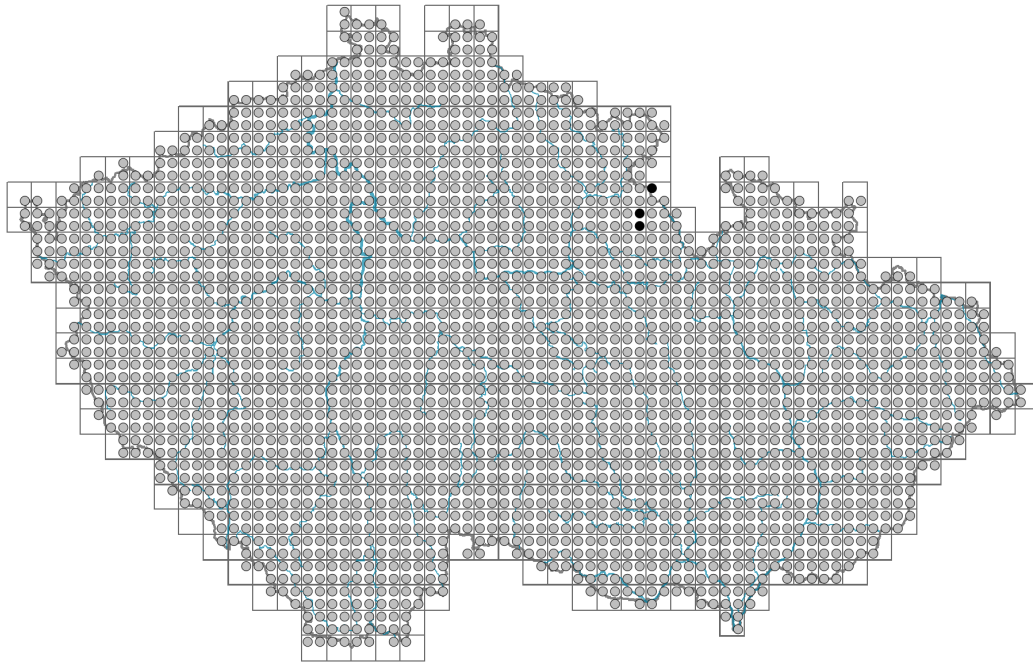


Urtica dioica

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.



Habitus and growth type

Height [m]: **0.4-2.5**Growth form: **clonal herb**Life form: **hemicryptophyte**Life strategy: **C - competitor**Life strategy (Pierce method based on leaf traits): **CR/CSR**Life strategy (Pierce method, C-score): **44.8 %**Life strategy (Pierce method, S-score): **18.2 %**Life strategy (Pierce method, R-score): **37.1 %**

Leaf

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

Flower

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

Flowering phase: **7 Ligustrum vulgare-Stachys sylvatica (end of early summer)**
 Flower colour: **green**
 Perianth type: **reduced**
 Perianth fusion: **reduced**
 Inflorescence type: **fasciculus**
 Dicliny: **dioecious**
 Generative reproduction type: **allogamy**
 Pollination syndrome: **wind-pollination, insect-pollination**
 Pollinator spectrum: **nitidulids (hoverflies, flies s. l.)**



Fruit, seed and dispersal

Fruit type: **dry fruit - achene/cypsela/samara**
 Fruit colour: **brown, grey**
 Reproduction type: **by seed/spores and vegetatively**
 Dispersal unit (diaspore): **fruit, infrutescence or its part**
 Dispersal strategy: **Allium (mainly autochory)**
 Myrmecochory: **non-myrmecochorous (b)**



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 (cyclicality): **monocyclic shoots prevailing**
 Branching type of stem-derived organs of clonal growth: **sympodial**
 Primary root: **absent**
 Persistence of the clonal growth organ [year]: **3.7**
 Number of clonal offspring: **5.4**
 Lateral spreading distance by clonal growth [m]: **0.33**
 Clonal index: **6**



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): **5**
 Size of the belowground bud bank (root buds excluded): **25**
 Depth of the belowground bud bank (root buds excluded) [cm]: **6**
 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): **5**
 Size of the belowground bud bank (root buds included): **25**
 Depth of the belowground bud bank (root buds included) [cm]: **6**



Trophic mode

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

Karyology

Chromosome number (2n): **52, 78 (26)**

Ploidy level (x): **4, 5 (2)**

2C genome size [Mbp]: **2410.17**

1Cx monoploid genome size [Mbp]: **482.03**

Genomic GC content: **41.1 %**

Taxon origin

Origin in the Czech Republic: **native**

Ecological indicator values

Ellenberg-type indicator values

Light indicator value: **5x - semi-shade plant, only exceptionally occurring in full light, but usually at more than 10% of the diffuse radiation incident in an open area (generalist)**

Temperature indicator value: **5x - moderate heat indicator, occurring from lowland to montane belt, mainly in submontane-temperate areas (generalist)**

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: **9 - concentrated at very nutrient-rich sites**

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: **-1.43**

Herb layer disturbance frequency indicator value: **-0.67**

Whole-community disturbance severity indicator value: **0.42**

Herb layer disturbance severity indicator value: **0.38**

Whole-community structure based disturbance indicator value: **0.3**

Herb layer structure-based disturbance indicator value: **0.31**

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: **1 - rare occurrence**

2 Alpine and subalpine grasslands

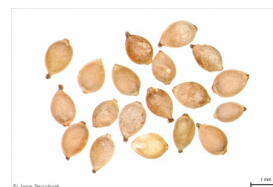
2B Subalpine tall-forb and tall-grass vegetation: **1 - rare occurrence**

4 Wetland and riverine herbaceous vegetation

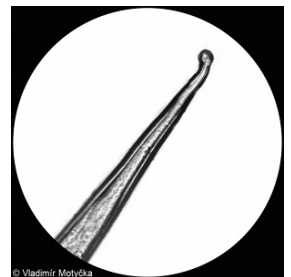
4A Reed-beds of eutrophic still waters: **1 - rare occurrence**

4B Halophilous reed and sedge beds: **1 - rare occurrence**

4C Eutrophic vegetation of muddy substrata: **1 - rare occurrence**



- 4D Riverine reed vegetation: **2 - optimum**
 4E Reed vegetation of brooks: **1 - rare occurrence**
 4F Mesotrophic vegetation of muddy substrata: **1 - rare occurrence**
 4G Tall-sedge beds: **1 - rare occurrence**
 4H Vegetation of low annual hygrophilous herbs: **1 - rare occurrence**
 4I Vegetation of nitrophilous annual hygrophilous herbs: **2 - optimum**
 4J River gravel banks: **1 - rare occurrence**
 4K Petasites fringes of montane brooks: **2 - optimum**
 4L Nitrophilous herbaceous fringes of lowland rivers: **3 - dominant**
 5 Vegetation of springs and mires
 5A Hard-water springs with tufa formation: **1 - rare occurrence**
 5B Lowland to montane soft-water springs: **2 - optimum**
 6 Meadows and mesic pastures
 6A Mesic Arrhenatherum meadows: **1 - rare occurrence**
 6B Montane mesic meadows: **1 - rare occurrence**
 6C Pastures and park grasslands: **1 - rare occurrence**
 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: **1 - rare occurrence**
 8 Dry grasslands
 8B Submediterranean dry grasslands on rock outcrops: **1 - rare occurrence**
 8F Thermophilous forest fringe vegetation: **1 - rare occurrence**
 10 Saline vegetation
 10I Inland saline meadows: **1 - rare occurrence**
 11 Heathlands and scrub
 11D Subalpine acidophilous Pinus mugo scrub: **1 - rare occurrence**
 11H Subalpine deciduous scrub: **1 - rare occurrence**
 11I Willow carrs: **2 - optimum**
 11J Willow galleries of loamy and sandy river banks: **4 - constant dominant**
 11L Tall mesic and xeric shrub: **3 - dominant**
 11N Low xeric scrub: **1 - rare occurrence**
 11R Scrub and pioneer woodland of forests clearings: **4 - constant dominant**
 12 Forests
 12A Alder carrs: **2 - optimum**
 12B Alluvial forests: **4 - constant dominant**
 12C Oak-hornbeam forests: **2 - optimum**
 12D Ravine forests: **2 - optimum**
 12E Herb-rich beech forests: **2 - optimum**
 12F Limestone beech forests: **1 - rare occurrence**
 12G Acidophilous beech forests: **1 - rare occurrence**
 12H Peri-Alpidic basiphilous thermophilous oak forests: **1 - rare occurrence**
 12I Sub-continental thermophilous oak forests: **1 - rare occurrence**
 12J Acidophilous thermophilous oak forests: **1 - rare occurrence**
 12K Acidophilous oak forests: **1 - rare occurrence**
 12L Boreo-continental pine forests: **1 - rare occurrence**
 12R Acidophilous spruce forests: **1 - rare occurrence**



12S Basiphilous spruce forests: **1 - rare occurrence**

12T Robinia pseudacacia plantations: **4 - constant dominant**

12U Plantations of broad-leaved non-native trees: **4 - constant dominant**

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

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: **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: **4 - constant dominant**

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

Affinity to the forest environment

Affinity to the forest environment in Thermophyticum: **2.1 - taxon occurring both in the forest and open vegetation**

Affinity to the forest environment in Mesophyticum and Oreophyticum: **2.1 - taxon occurring both in the forest and open vegetation**

Diagnostic taxon

Diagnostic taxon of classes: [KA *Salicetea purpureae*](#), [XD *Galio-Urticetea*](#)

Diagnostic taxon of alliances: [KAC *Salicion albae*](#), [KBD *Aegopodio podagrariae-Sambucion nigrae*](#), [LBA *Alnion incanae*](#), [MCD *Phalaridion arundinaceae*](#), [XCE *Arction lappae*](#), [XDA *Senecionion fluviatilis*](#), [XDD *Geo urbani-Alliarion petiolatae*](#), [XDE *Aegopodion podagrariae*](#)

Constant taxon

Constant taxon of classes: [KA *Salicetea purpureae*](#), [KB *Rhamno-Prunetea*](#), [LA *Alnetea glutinosae*](#), [XC *Artemisietea vulgaris*](#), [XD *Galio-Urticetea*](#)

Constant taxon of alliances: [KAA *Salicion triandrae*](#), [KAB *Salicion elaeagno-daphnoidis*](#), [KAC *Salicion albae*](#), [KBC *Sambuco-Salicion capreae*](#), [KBD *Aegopodio podagrariae-Sambucion nigrae*](#), [KBE *Chelidonio majoris-Robinion pseudoacaciae*](#), [LAA *Alnion glutinosae*](#), [LBA *Alnion incanae*](#), [LBF *Tilio platyphylli-Acerion*](#), [MCD *Phalaridion arundinaceae*](#), [XCE *Arction lappae*](#), [XDA *Senecionion fluviatilis*](#), [XDB *Petasion hybridi*](#), [XDC *Impatienti noli-tangere-Stachyion sylvaticae*](#), [XDD *Geo urbani-Alliarion petiolatae*](#), [XDE *Aegopodion podagrariae*](#), [XDF *Rumicion alpini*](#)

Constant taxon of associations: [ADD05 *Chaerophyllo hirsuti-Cicerbitetum alpinae*](#), [ADE01 *Daphno mezerei-Dryopteridetum filicis-maris*](#), [KAA01 *Salicetum triandrae*](#), [KAB01 *Salicetum elaeagno-purpureae*](#), [KAB02 *Salicetum purpureae*](#), [KAC01 *Salicetum albae*](#), [KAC02 *Salicetum fragilis*](#), [KBB05 *Rhamno catharticae-Cornetum sanguineae*](#), [KBB06 *Carpino betuli-Prunetum spinosae*](#), [KBC02 *Rubetum idaei*](#), [KBC03 *Senecioni fuchsii-Sambucetum racemosae*](#), [KBC04 *Senecioni fuchsii-Coryletum avellanae*](#), [KBC05 *Salicetum capreae*](#), [KBD01 *Sambucetum nigrae*](#), [KBD03 *Sambuco nigrae-Aceretum negundo*](#), [KBE01 *Chelidonio majoris-Robiniatum pseudoacaciae*](#), [LAA02 *Carici elongatae-Alnetum glutinosae*](#), [LAA03 *Carici acutiformis-Alnetum glutinosae*](#), [LAB02 *Salicetum pentandro-auritae*](#), [LBA01 *Alnetum incanae*](#), [LBA02 *Piceo abietis-Alnetum glutinosae*](#), [LBA03 *Carici remotae-Fraxinetum excelsioris*](#), [LBA04 *Stellario nemorum-Alnetum glutinosae*](#), [LBA05 *Pruno padi-Fraxinetum excelsioris*](#), [LBA06 *Ficario vernae-Ulmetum campestris*](#), [LBA07 *Fraxino pannonicae-Ulmetum glabrae*](#), [LBB02 *Stellario holostae-Carpinetum betuli*](#), [LBC02 *Mercuriali perennis-Fagetum sylvaticae*](#), [LBC05 *Galio rotundifolii-Abietetum albae*](#), [LBF01](#)

[Aceri-Tilietum](#), [LBF02 Mercuriali perennis-Fraxinetum excelsioris](#), [LBF03 Arunco dioici-Aceretum pseudoplatani](#), [MBA04 Polygono brittingeri-Chenopodietum rubri](#), [MCD01 Rorippo-Phalaridetum arundinaceae](#), [MCD02 Caricetum buekii](#), [RAA02 Cardamino-Chrysosplenietum alternifolii](#), [SCA01 Gymnocarpietum robertiani](#), [XBG02 Chenopodietum urbici](#), [XBG12 Ivaetum xanthiifoliae](#), [XBI02 Malvetum pusillae](#), [XBI05 Matricario discoideae-Anthemidetum cotulae](#), [XCA03 Potentillo argenteae-Artemisietum absinthii](#), [XCB07 Tanaceto vulgaris-Artemisietum vulgaris](#), [XCB08 Artemisio vulgaris-Echinopsietum sphaerocephali](#), [XCB09 Rudbeckio laciniatae-Solidaginetum canadensis](#), [XCB10 Buniadetum orientalis](#), [XCB11 Asclepiadetum syriacae](#), [XCC03 Convolvulo arvensis-Brometum inermis](#), [XCE01 Urtico urentis-Chenopodietum boni-henrici](#), [XCE02 Arctietum lappae](#), [XCE03 Hyoscyamo nigri-Conietum maculati](#), [XCE04 Sambucetum ebuli](#), [XDA01 Cuscuta europaeae-Calystegietum sepium](#), [XDA02 Calystegio sepium-Epilobietum hirsuti](#), [XDA03 Calystegio sepium-Impatientetum glanduliferae](#), [XDA04 Sicyo angulatae-Echinocystietum lobatae](#), [XDB01 Petasitetum hybridi](#), [XDB02 Petasitetum hybrido-kablikiani](#), [XDC01 Stachyo sylvaticae-Impatientetum noli-tangere](#), [XDC02 Epilobio montani-Geranium robertiani](#), [XDC03 Arunco vulgaris-Lunarietum redivivae](#), [XDC05 Urtico dioicae-Parietarietum officinalis](#), [XDD01 Alliario petiolatae-Chaerophylletum temuli](#), [XDD02 Torilidetum japonicae](#), [XDE01 Elytrigio repentis-Aegopodietum podagrariae](#), [XDE02 Symphyto officinalis-Anthriscetum sylvestris](#), [XDE03 Chaerophylletum aromatici](#), [XDE04 Chaerophylletum aurei](#), [XDE05 Chaerophylletum bulbosi](#), [XDE06 Anthrisco nitidae-Aegopodietum podagrariae](#), [XDE07 Oenothero biennis-Helianthetum tuberosi](#), [XDE08 Urtico dioicae-Heracleetum mantegazziani](#), [XDE09 Asteretum lanceolati](#), [XDE10 Reynoutrietum japonicae](#), [XDF01 Rumicetum alpini](#), [XEA02 Digitali purpureae-Epilobietum angustifolii](#), [XEA03 Rubo idaei-Calamagrostietum arundinaceae](#), [XEA05 Digitali-Senecionetum ovati](#)

Dominant taxon

Dominant taxon of associations: [KAA01 Salicetum triandrae](#), [KAC01 Salicetum albae](#), [KAC02 Salicetum fragilis](#), [KBB06 Carpino betuli-Prunetum spinosae](#), [KBC03 Senecioni fuchsii-Sambucetum racemosae](#), [KBC05 Salicetum capreae](#), [KBD01 Sambucetum nigrae](#), [KBE01 Chelidonio majoris-Robinietum pseudoacaciae](#), [LAA02 Carici elongatae-Alnetum glutinosae](#), [LBA03 Carici remotae-Fraxinetum excelsioris](#), [LBA04 Stellario nemorum-Alnetum glutinosae](#), [LBA05 Pruno padi-Fraxinetum excelsioris](#), [LBA07 Fraxino pannonicae-Ulmetum glabrae](#), [LBF03 Arunco dioici-Aceretum pseudoplatani](#), [MCD01 Rorippo-Phalaridetum arundinaceae](#), [SCA01 Gymnocarpietum robertiani](#), [XBG08 Descurainietum sophiae](#), [XCB09 Rudbeckio laciniatae-Solidaginetum canadensis](#), [XCC01 Convolvulo arvensis-Elytrigietum repentis](#), [XCE01 Urtico urentis-Chenopodietum boni-henrici](#), [XCE02 Arctietum lappae](#), [XDA01 Cuscuta europaeae-Calystegietum sepium](#), [XDA02 Calystegio sepium-Epilobietum hirsuti](#), [XDA03 Calystegio sepium-Impatientetum glanduliferae](#), [XDA04 Sicyo angulatae-Echinocystietum lobatae](#), [XDB01 Petasitetum hybridi](#), [XDC01 Stachyo sylvaticae-Impatientetum noli-tangere](#), [XDC05 Urtico dioicae-Parietarietum officinalis](#), [XDD01 Alliario petiolatae-Chaerophylletum temuli](#), [XDD02 Torilidetum japonicae](#), [XDE01 Elytrigio repentis-Aegopodietum podagrariae](#), [XDE02 Symphyto officinalis-Anthriscetum sylvestris](#), [XDE03 Chaerophylletum aromatici](#), [XDE04 Chaerophylletum aurei](#), [XDE05 Chaerophylletum bulbosi](#), [XDE08 Urtico dioicae-Heracleetum mantegazziani](#), [XDE09 Asteretum lanceolati](#), [XDE10 Reynoutrietum japonicae](#), [XDF01 Rumicetum alpini](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **3.2**
Ecological specialization index for non-forest vegetation: **3.1**
Ecological specialization index for forest vegetation: **4.6**
Colonization ability
Index of colonization success (ICS): **8**
Index of colonization potential (ICP): **5**
Optimum successional age [years]: **25**

Distribution and frequency

Floristic zone: **boreal, northern temperate, southern temperate, submeridional, meridional**
Floristic region: **circumpolar**
Distribution range extension along the continentality gradient: **8**
Elevational belt in the Czech Republic: **lowlands, colline belt, submontane belt, montane belt**
Expansive taxon in the region: **Bohemian Thermophyticum, Bohemian Moravian Mesophyticum, Bohemian Moravian Oreophyticum, Pannonian Thermophyticum, Carpathian Mesophyticum, Carpathian Oreophyticum**
Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 674
taxon.data.freq_in_quad: 2519
Commonness in vegetation plots from the Czech Republic
Occurrence frequency in vegetation plots: **16.9 %**
Occurrence frequency in vegetation plots with a cover above 5%: **26.8 %**
Occurrence frequency in vegetation plots with a cover above 25%: **9.7 %**
Occurrence frequency in vegetation plots with a cover above 50%: **2.8 %**
Mean percentage cover in vegetation plots: **8.4 %**
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: **60**
Number of narrow habitats in which the taxon has its optimum: **21**
Number of broad habitats in which the taxon occurs: **10**
Number of broad habitats in which the taxon has its optimum: **5**

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**