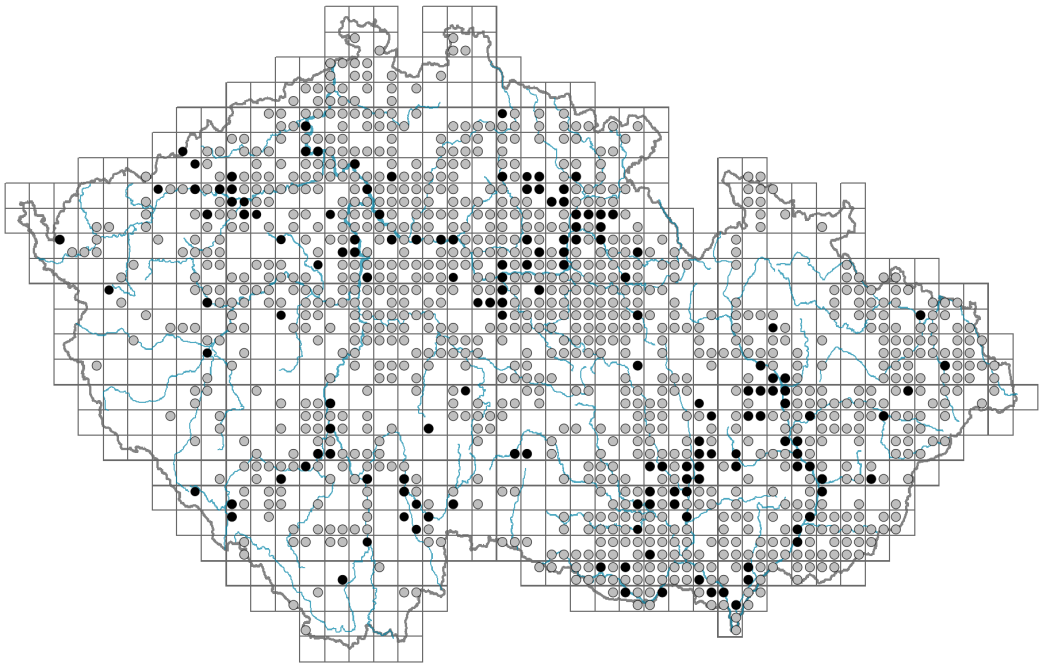
# *Ulmus laevis*

## 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]: **8–35**
Growth form: **tree**
Life form: **macrophanerophyte**
Life strategy: **C – competitor**
Life strategy (Pierce method based on leaf traits): **CR/CSR**
Life strategy (Pierce method, C-score): **42.7 %**
Life strategy (Pierce method, S-score): **17.7 %**
Life strategy (Pierce method, R-score): **39.7 %**

### Leaf

Leaf presence and metamorphosis: **leaves present, not modified**
Leaf arrangement (phyllotaxis): **alternate**
Leaf shape: **simple – entire**
Stipules: **present**
Petiole: **present**
Leaf life span: **summer green**
Leaf deciduousness in woody plants: **winter deciduous**
Leaf anatomy: **mesomorphic**
Functional leaf type in woody plants: **broad deciduous or semi-deciduous**

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## Flower




Flowering period [month]: **March–April**
Flowering phase: **1 Corylus avellana-Leucojum vernum (pre-spring)**
Flower colour: **green**
Perianth type: **reduced**
Perianth fusion: **reduced**
Inflorescence type: **panicula**
Dicliny: **synoecious**
Generative reproduction type: **allogamy self-incompatibility**
Pollination syndrome: **wind-pollination, insect-pollination, selfing**

## Fruit, seed and dispersal




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

## Belowground organs and clonality




Root metamorphosis: **root shoot, buttress root**
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): **0**
Number of buds per shoot at a depth of 0–10 cm (root buds excluded): **0**
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): **0**
Number of buds per shoot at the soil surface (root buds included): **0**
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): **15**
Size of the belowground bud bank (root buds included): **30**
Depth of the belowground bud bank (root buds included) [cm]: **10**




## Trophic mode

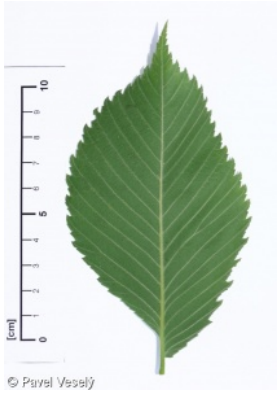
Parasitism and mycoheterotrophy: **autotrophic**
Carnivory: **non-carnivorous**
Symbiotic nitrogen fixation: **no nitrogen-fixing symbionts**

## Karyology

Chromosome number (2n): **28**
Ploidy level (x): **2**
2C genome size [Mbp]: **2701.41**
1Cx monoploid genome size [Mbp]: **1350.71**

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Genomic GC content: **37.5 %**




## Taxon origin

Origin in the Czech Republic: **native**

## Ecological indicator values

### Ellenberg-type indicator values

Light indicator value: **4 – transition between values 3 and 5**
Temperature indicator value: **6 – transition between values 5 and 7**
Moisture indicator value: **7 – humidity indicator, focus on well moistened, but not wet soils**
Reaction indicator value: **7 – indicator of slightly acidic to slightly basic conditions, never occurring in very acidic conditions**
Nutrient indicator value: **7 – occurring at nutrient-rich sites more often than at average sites and only exceptionally at poor sites**
Salinity indicator value: **0 – not salt tolerant, glycophyte**




### Indicator values for disturbance

Whole-community disturbance frequency indicator value: **-1.83**
Herb layer disturbance frequency indicator value: **-0.85**
Whole-community disturbance severity indicator value: **0.27**
Herb layer disturbance severity indicator value: **0.14**
Whole-community structure based disturbance indicator value: **0.09**
Herb layer structure-based disturbance indicator value: **0.19**




## Habitat and sociology

### Occurrence in habitats

#### 11 Heathlands and scrub

11J Willow galleries of loamy and sandy river banks: **1 – rare occurrence**
11L Tall mesic and xeric shrub: **1 – rare occurrence**
11N Low xeric scrub: **1 – rare occurrence**
11R Scrub and pioneer woodland of forests clearings: **1 – rare occurrence**

#### 12 Forests

12A Alder carrs: **1 – rare occurrence**
12B Alluvial forests: **2 – optimum**
12C Oak-hornbeam forests: **1 – rare occurrence**
12D Ravine forests: **1 – rare occurrence**
12U Plantations of broad-leaved non-native trees: **1 – rare occurrence**

#### 13 Anthropogenic vegetation

13E Perennial nitrophilous herbaceous vegetation of mesic sites: **1 – rare occurrence**




### Affinity to the forest environment

Affinity to the forest environment in Thermophyticum: **1.1 – taxon occurring mainly in the closed forest**
Affinity to the forest environment in Mesophyticum and Oreophyticum: **1.1 – taxon occurring mainly in the closed forest**

### Diagnostic taxon

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Diagnostic taxon of associations: **LBA07 *Fraxino pannonicae-Ulmetum glabrae***




### Ecological specialization indices

Ecological specialization index for all vegetation types: **5**
Ecological specialization index for non-forest vegetation: **3.7**
Ecological specialization index for forest vegetation: **5.2**

### Colonization ability

Index of colonization success (ICS): **3**
Index of colonization potential (ICP): **8**
Optimum successional age [years]: **41**

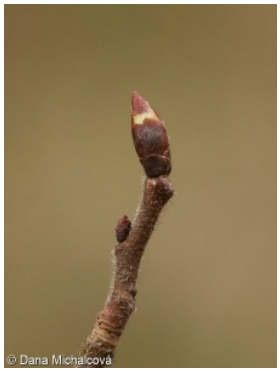
## Distribution and frequency




Floristic zone: **boreal, northern temperate, southern temperate, submeridional**
Floristic region: **Europe**
Continentality degree: **6**
Distribution range extension along the continentality gradient: **5**
Elevational belt in the Czech Republic: **lowlands, colline belt**
Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 480
taxon.data.freq_in_quad: 1144

### Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **0.1 %**
Occurrence frequency in vegetation plots with a cover above 5%: **30.6 %**
Occurrence frequency in vegetation plots with a cover above 25%: **5.6 %**
Occurrence frequency in vegetation plots with a cover above 50%: **0 %**
Mean percentage cover in vegetation plots: **7.6 %**
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: **10**
Number of narrow habitats in which the taxon has its optimum: **1**
Number of broad habitats in which the taxon occurs: **3**
Number of broad habitats in which the taxon has its optimum: **1**

## Threats and protection

Red List 2017 (national categories): **C4a – near threatened taxon**
Red List 2017 (IUCN categories): **LC – least concern**
Legal protection: **not protected by law**

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