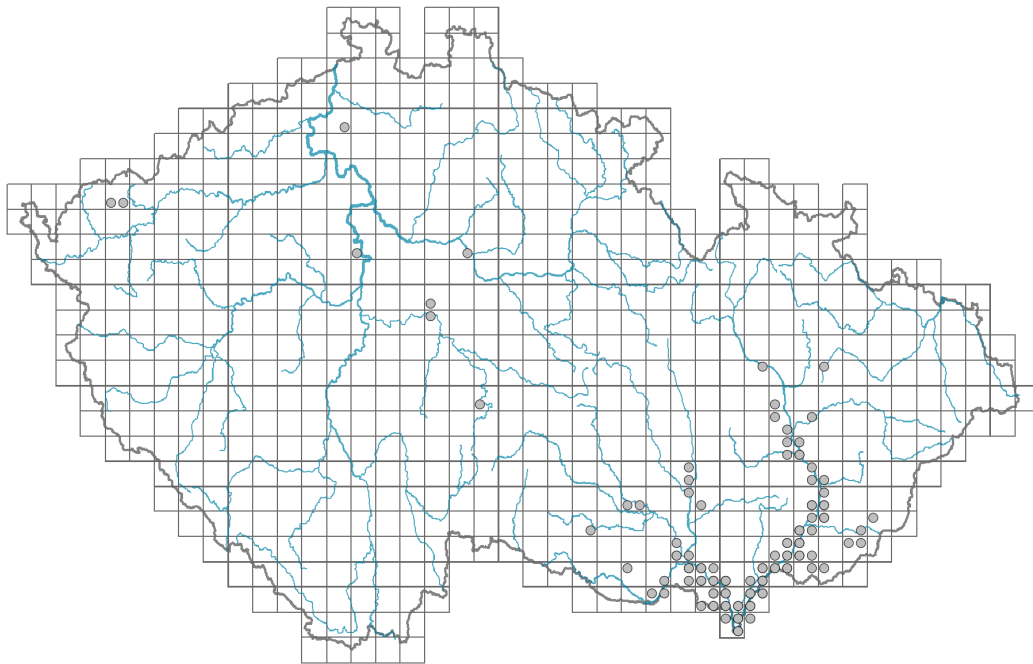


# *Fraxinus angustifolia*

## Distribution

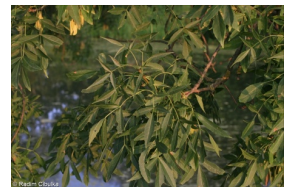
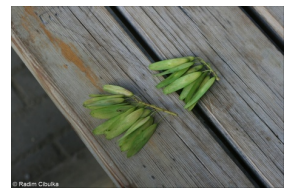
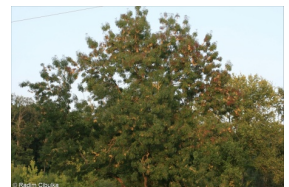


### Map info

● 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]: **20-35**

Growth form: **tree**

Life form: **macrophanerophyte**

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

Life strategy (Pierce method, C-score): **50.5 %**

Life strategy (Pierce method, S-score): **41.8 %**

Life strategy (Pierce method, R-score): **7.8 %**

## Leaf

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

Leaf arrangement (phyllotaxis): **opposite, verticillate**

Leaf shape: **compound - imparipinnate**

Stipules: **absent**

Petiole: **present**

Leaf deciduousness in woody plants: **winter deciduous**

Functional leaf type in woody plants: **broad deciduous or semi-deciduous**

## Flower

Flowering period [month]: **April**

Flower colour: **green-white**

Perianth type: **flower achlamydeous**

Inflorescence type: **racemus**

Generative reproduction type: **facultative allogamy**

## **Fruit, seed and dispersal**

Fruit type: **dry fruit - achene/cypsela/samara**

Dispersal unit (diaspore): **fruit, infrutescence or its part**

Dispersal strategy: **Epilobium (mainly anemochory and autochory)**

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

## **Belowground organs and clonality**

### **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): **0**

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): **0**

## **Trophic mode**

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

Symbiotic nitrogen fixation: **no nitrogen-fixing symbionts**

## **Karyology**

Chromosome number (2n): **46**

Ploidy level (x): **2**

2C genome size [Mbp]: **1437.16**

1Cx monoploid genome size [Mbp]: **718.58**

Genomic GC content: **36.9 %**

## **Taxon origin**

Origin in the Czech Republic: **native**

## **Ecological indicator values**

### **Ellenberg-type indicator values**

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

Temperature indicator value: **7 - heat indicator, occurring in relatively warm lowlands**

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: **-1.84**

Herb layer disturbance frequency indicator value: **-0.76**

Whole-community disturbance severity indicator value: **0.31**

Herb layer disturbance severity indicator value: **0.19**

Whole-community structure based disturbance indicator value: **0.06**

Herb layer structure-based disturbance indicator value: **0.1**

**Habitat and sociology****Occurrence in habitats****4 Wetland and riverine herbaceous vegetation**

4L Nitrophilous herbaceous fringes of lowland rivers: **1 - rare occurrence**

**11 Heathlands and scrub**

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

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

**12 Forests**

12B Alluvial forests: **2 - optimum**

12C Oak-hornbeam forests: **2 - optimum**

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**

**Diagnostic taxon**

Diagnostic taxon of associations: [KAC01 \*Salicetum albae\*](#), [KBD03 \*Sambuco nigrae-Aceretum negundo\*](#), [LBA07 \*Fraxino pannonicae-Ulmetum glabrae\*](#)

**Constant taxon**

Constant taxon of associations: [LBA07 \*Fraxino pannonicae-Ulmetum glabrae\*](#)

**Dominant taxon**

Dominant taxon of associations: [LBA07 \*Fraxino pannonicae-Ulmetum glabrae\*](#)

**Ecological specialization indices**

Ecological specialization index for all vegetation types: **6**

Ecological specialization index for non-forest vegetation: **5**

Ecological specialization index for forest vegetation: **6.2**

**Colonization ability**

Index of colonization success (ICS): **1**

Index of colonization potential (ICP): **1**

## Distribution and frequency

Elevational belt in the Czech Republic: **lowlands**

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: 47

taxon.data.freq\_in\_quad: 80

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%: **64.2 %**

Occurrence frequency in vegetation plots with a cover above 25%: **34.3 %**

Occurrence frequency in vegetation plots with a cover above 50%: **7.5 %**

Mean percentage cover in vegetation plots: **20.3 %**

Maximum percentage cover in vegetation plots: **64 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: 7

Number of narrow habitats in which the taxon has its optimum: 3

Number of broad habitats in which the taxon occurs: 4

Number of broad habitats in which the taxon has its optimum: 2

## Threats and protection

Red List 2017 (national categories): **C4a - near threatened taxon**

Red List 2017 (IUCN categories): **NT - near threatened**

Legal protection: **not protected by law**