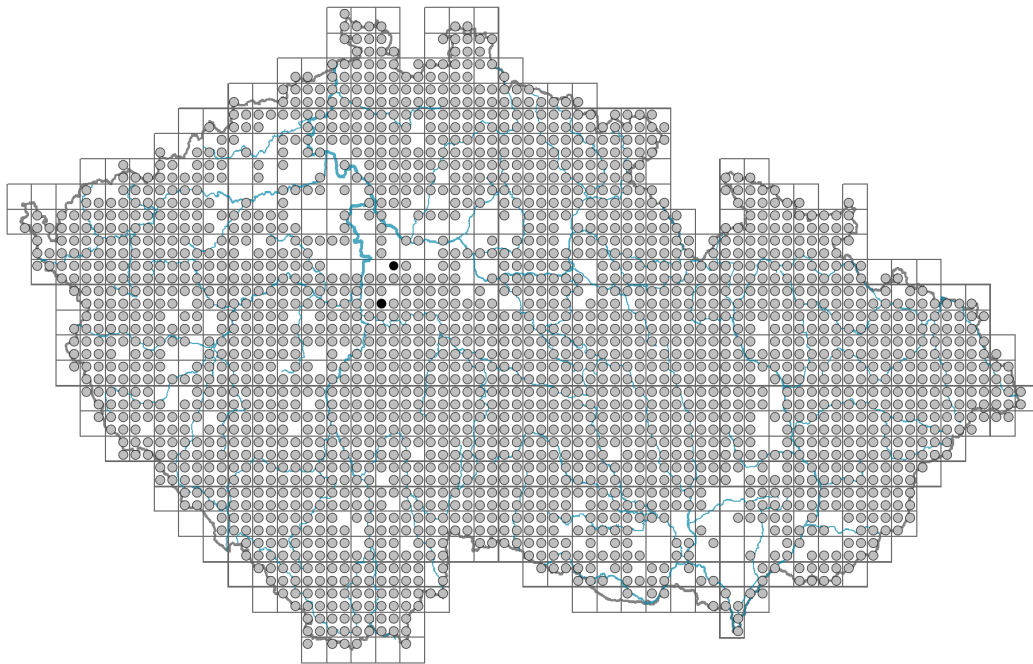


# *Impatiens noli-tangere*

## 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]: **0.4-0.9**Growth form: **annual herb**Life form: **therophyte**Life strategy: **SR - stress-tolerator/ruderal**Life strategy (Pierce method based on leaf traits): **R/CR**Life strategy (Pierce method, C-score): **34.6 %**Life strategy (Pierce method, S-score): **0 %**Life strategy (Pierce method, R-score): **65.4 %**

## Leaf

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

## Flower

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

© Dana Michalčová

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

Flower colour: **yellow**

Flower symmetry: **zygomorphic**

Perianth type: **calyx and corolla**

Perianth fusion: **fused**

Shape of the sympetalous corolla or syntepalous perianth: **special type**

Calyx fusion: **aposepalous**

Inflorescence type: **racemus**

Dicliny: **synoecious**

Generative reproduction type: **facultative allogamy**

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



## Fruit, seed and dispersal

Fruit type: **dry fruit - capsule**

Fruit colour: **green, brown**

Reproduction type: **only by seed/spores**

Dispersal unit (diaspore): **seed**

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

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



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## Belowground organs and clonality

Shoot life span (cyclicality): **monocyclic shoots prevailing**

Primary root: **present**

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**

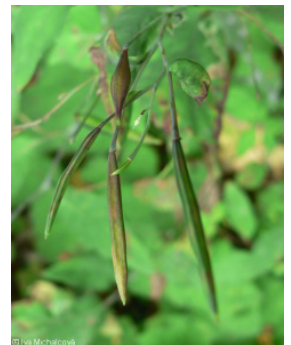
Size of the belowground bud bank (root buds excluded): **0**

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**



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## Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

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



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## Karyology

Chromosome number (2n): **20 (40)**

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

2C genome size [Mbp]: **1158.12**

1Cx monoploid genome size [Mbp]: **579.06**

Genomic GC content: **37.4 %**

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

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: **-1.8**

Herb layer disturbance frequency indicator value: **-0.68**

Whole-community disturbance severity indicator value: **0.29**

Herb layer disturbance severity indicator value: **0.18**

Whole-community structure based disturbance indicator value: **0.17**

Herb layer structure-based disturbance indicator value: **0.21**

## 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**

1D Mobile calcareous screes: **1 - rare occurrence**

2 Alpine and subalpine grasslands

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

3 Aquatic vegetation

3C Macrophytic vegetation of oligotrophic lakes and pools: **1 - rare occurrence**

4 Wetland and riverine herbaceous vegetation

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

4D Riverine reed vegetation: **1 - rare occurrence**

4E Reed vegetation of brooks: **1 - rare occurrence**

4F Mesotrophic vegetation of muddy substrata: **1 - rare occurrence**

4G Tall-sedge beds: **1 - rare occurrence**

4I Vegetation of nitrophilous annual hygrophilous herbs: **1 - rare occurrence**

4J River gravel banks: **1 - rare occurrence**

4K Petasites fringes of montane brooks: **2 - optimum**

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

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
- 6D Alluvial meadows of lowland rivers: **1 - rare occurrence**
- 6E Wet *Cirsium* meadows: **1 - rare occurrence**
- 6G Vegetation of wet disturbed soils: **1 - rare occurrence**
- 8 Dry grasslands
- 8A Hercynian dry grasslands on rock outcrops: **1 - rare occurrence**
- 8B Submediterranean dry grasslands on rock outcrops: **1 - rare occurrence**
- 11 Heathlands and scrub
- 11I Willow carrs: **1 - rare occurrence**
- 11J Willow galleries of loamy and sandy river banks: **2 - optimum**
- 11R Scrub and pioneer woodland of forests clearings: **2 - optimum**
- 12 Forests
- 12A Alder carrs: **2 - optimum**
- 12B Alluvial forests: **4 - constant dominant**
- 12C Oak-hornbeam forests: **2 - optimum**
- 12D Ravine forests: **4 - constant dominant**
- 12E Herb-rich beech forests: **2 - optimum**
- 12G Acidophilous beech forests: **1 - rare occurrence**
- 12K Acidophilous oak forests: **1 - rare occurrence**
- 12R Acidophilous spruce forests: **1 - rare occurrence**
- 12S Basiphilous spruce forests: **1 - rare occurrence**
- 12T Robinia pseudacacia plantations: **1 - rare occurrence**
- 12U Plantations of broad-leaved non-native trees: **2 - optimum**
- 12V Spruce plantations: **2 - optimum**
- 12W Pine and larch plantations: **1 - rare occurrence**
- 13 Anthropogenic vegetation
- 13E Perennial nitrophilous herbaceous vegetation of mesic sites: **3 - dominant**
- 13F Herbaceous vegetation of forests clearings and *Rubus* scrub: **2 - optimum**
- 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
- Diagnostic taxon of classes: [RA \*Montio-Cardaminetea\*](#)
- Diagnostic taxon of alliances: [LBA \*Alnion incanae\*](#), [LBF \*Tilio platyphylli-Acerion\*](#), [RAA \*Caricion remotae\*](#)
- Diagnostic taxon of associations: [KAB02 \*Salicetum purpureae\*](#), [KBC04 \*Senecioni fuchsii-Coryletum avellanae\*](#), [LBA01 \*Alnetum incanae\*](#), [LBA03 \*Carici remotae-Fraxinetum excelsioris\*](#), [XDC01 \*Stachyo sylvaticae-Impatientetum noli-tangere\*](#)
- Constant taxon
- Constant taxon of alliances: [LBA \*Alnion incanae\*](#), [LBF \*Tilio platyphylli-Acerion\*](#), [RAA \*Caricion remotae\*](#)
- Constant taxon of associations: [KAB02 \*Salicetum purpureae\*](#), [KAC02 \*Salicetum fragilis\*](#), [KBC04 \*Senecioni fuchsii-Coryletum avellanae\*](#), [LAA02 \*Carici elongatae-Alnetum glutinosae\*](#), [LAA03 \*Carici acutiformis-Alnetum glutinosae\*](#), [LBA01](#)

[Alnetum incanae](#), [LBA03 Carici remotae-Fraxinetum excelsioris](#), [LBA04 Stellario nemorum-Alnetum glutinosae](#), [LBA05 Pruno padi-Fraxinetum excelsioris](#), [LBA06 Ficario vernaе-Ulmetum campestris](#), [LBC05 Galio rotundifolii-Abietetum albae](#), [LBF02 Mercuriali perennis-Fraxinetum excelsioris](#), [LBF03 Arunco dioici-Aceretum pseudoplatani](#), [RAA02 Cardamino-Chrysosplenietum alternifolii](#), [RAA03 Pellio epiphyllae-Chrysosplenietum oppositifolii](#), [XDC01 Stachyo sylvaticae-Impatientetum noli-tangere](#), [XDC03 Arunco vulgaris-Lunarietum redivivae](#)

Dominant taxon

Dominant taxon of associations: [KBC04 Senecioni fuchsii-Coryletum avellanae](#), [LAA03 Carici acutiformis-Alnetum glutinosae](#), [LBA01 Alnetum incanae](#), [LBA04 Stellario nemorum-Alnetum glutinosae](#), [LBA05 Pruno padi-Fraxinetum excelsioris](#), [LBC05 Galio rotundifolii-Abietetum albae](#), [LBF02 Mercuriali perennis-Fraxinetum excelsioris](#), [XDC01 Stachyo sylvaticae-Impatientetum noli-tangere](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.7**

Ecological specialization index for non-forest vegetation: **4.1**

Ecological specialization index for forest vegetation: **5.3**

Colonization ability

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

Index of colonization potential (ICP): **2**

Optimum successional age [years]: **7**

## Distribution and frequency

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

Floristic region: **Europe, Asia, Americas**

Continental degree: **6**

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: **648**

taxon.data.freq\_in\_quad: **2206**

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **5 %**

Occurrence frequency in vegetation plots with a cover above 5%: **25.1 %**

Occurrence frequency in vegetation plots with a cover above 25%: **7.1 %**

Occurrence frequency in vegetation plots with a cover above 50%: **1.6 %**

Mean percentage cover in vegetation plots: **7.1 %**

Maximum percentage cover in vegetation plots: **88 %**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **39**

Number of narrow habitats in which the taxon has its optimum: **13**

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**