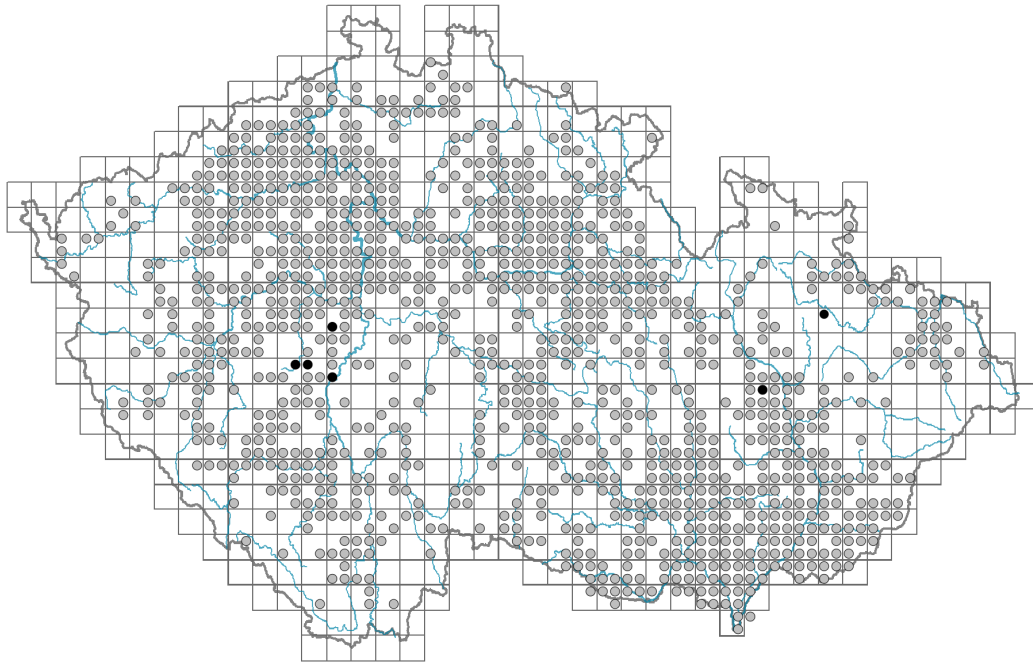


# *Atriplex sagittata*

## Distribution



© Pavel Veselý

### 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]: **1-2**Growth form: **annual herb**Life form: **therophyte**Life strategy: **CR - competitor/ruderal**Life strategy (Pierce method based on leaf traits): **CSR**Life strategy (Pierce method, C-score): **38.3 %**Life strategy (Pierce method, S-score): **29 %**Life strategy (Pierce method, R-score): **32.8 %**

© Dana Michalčová

## 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: **mesomorphic**

© Vojtěch Abrámič

## Flower

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

Flowering phase: **8 Clematis vitalba-Galium sylvaticum (mid-summer)**

Flower colour: **green**

Flower symmetry: **actinomorphic**

Perianth type: **homochlamydeous, sometimes absent**

Perianth fusion: **free, fused**

Inflorescence type: **pseudospica**

Dicliny: **monoecious**

Generative reproduction type: **mixed mating**

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

### Fruit, seed and dispersal

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

Fruit colour: **brown, black**

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

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

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

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

### 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): **5**

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): **5**

Depth of the belowground bud bank (root buds excluded) [cm]: **1**

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): **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): **5**

Depth of the belowground bud bank (root buds included) [cm]: **1**

### Trophic mode

Parasitism and mycoheterotrophy: **autotrophic**

Carnivory: **non-carnivorous**

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

### Karyology

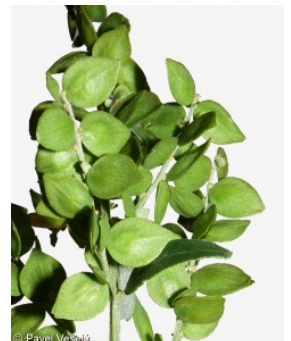
Chromosome number (2n): **18**

Ploidy level (x): **2**

2C genome size [Mbp]: **1923.23**

1Cx monoploid genome size [Mbp]: **961.61**

Genomic GC content: **39.1 %**



## Taxon origin

Origin in the Czech Republic: **archaeophyte**

Invasion status: **invasive**

Geographic origin: **Europe, Mediterranean, Asia**

Period of introduction: **Neolithic (5600-4200 BCE)**

Introduction pathway: **unintentional - anthropogenic**

## Ecological indicator values

### Ellenberg-type indicator values

Light indicator value: **9 - full light plant, occurring only in fully irradiated places, not at less than 50% of diffuse radiation incident in an open area**

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

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

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: **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: **-0.17**

Herb layer disturbance frequency indicator value: **-0.17**

Whole-community disturbance severity indicator value: **0.85**

Herb layer disturbance severity indicator value: **0.85**

Whole-community structure based disturbance indicator value: **0.53**

Herb layer structure-based disturbance indicator value: **0.56**

## Habitat and sociology

### Occurrence in habitats

4 Wetland and riverine herbaceous vegetation

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

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

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

4L Nitrophilous herbaceous fringes of lowland rivers: **2 - optimum**

11 Heathlands and scrub

11R Scrub and pioneer woodland of forests clearings: **1 - rare occurrence**

12 Forests

12T Robinia pseudacacia plantations: **1 - rare occurrence**

12U Plantations of broad-leaved non-native trees: **1 - rare occurrence**

13 Anthropogenic vegetation

13A Annual vegetation of ruderal habitats: **3 - dominant**

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: **1 - rare occurrence**

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: **0 - taxon that does not spontaneously occur in Czech forests**

Diagnostic taxon

Diagnostic taxon of alliances: [XBG Atriplicion](#)

Diagnostic taxon of associations: [MBB03 \*Chenopodietum ficifolii\*](#), [XBG02 \*Chenopodietum urbici\*](#), [XBG03 \*Atriplicetum nitentis\*](#), [XBG04 \*Descurainio sophiae-Atriplicetum oblongifoliae\*](#), [XBG07 \*Sisymbrietum loeselii\*](#), [XBG08 \*Descurainietum sophiae\*](#), [XBG12 \*Ivaetum xanthiifoliae\*](#), [XBG13 \*Kochietum densiflorae\*](#), [XDA04 \*Sicyo angulatae-Echinocystietum lobatae\*](#)

Constant taxon

Constant taxon of alliances: [XBG Atriplicion](#)

Constant taxon of associations: [XBG02 \*Chenopodietum urbici\*](#), [XBG03 \*Atriplicetum nitentis\*](#), [XBG08 \*Descurainietum sophiae\*](#), [XBG12 \*Ivaetum xanthiifoliae\*](#), [XDA04 \*Sicyo angulatae-Echinocystietum lobatae\*](#)

Dominant taxon

Dominant taxon of associations: [XBG03 \*Atriplicetum nitentis\*](#)

Ecological specialization indices

Ecological specialization index for all vegetation types: **4.6**

Ecological specialization index for non-forest vegetation: **4.6**

Colonization ability

Index of colonization success (ICS): **6**

Index of colonization potential (ICP): **4**

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

## Distribution and frequency

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

Floristic region: **Europe, Western Asia**

Continental degree: **8**

Distribution range extension along the continentality gradient: **7**

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

Occurrence frequency in the basic grid mapping cells and quadrants of the basic grid mapping cells: **464**

taxon.data.freq\_in\_quad: **1127**

Commonness in vegetation plots from the Czech Republic

Occurrence frequency in vegetation plots: **1.3 %**

Occurrence frequency in vegetation plots with a cover above 5%: **32.1 %**

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

Occurrence frequency in vegetation plots with a cover above 50%: **22.1 %**

Mean percentage cover in vegetation plots: **20.9 %**

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: **12**

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): **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**