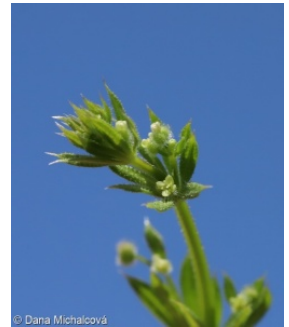
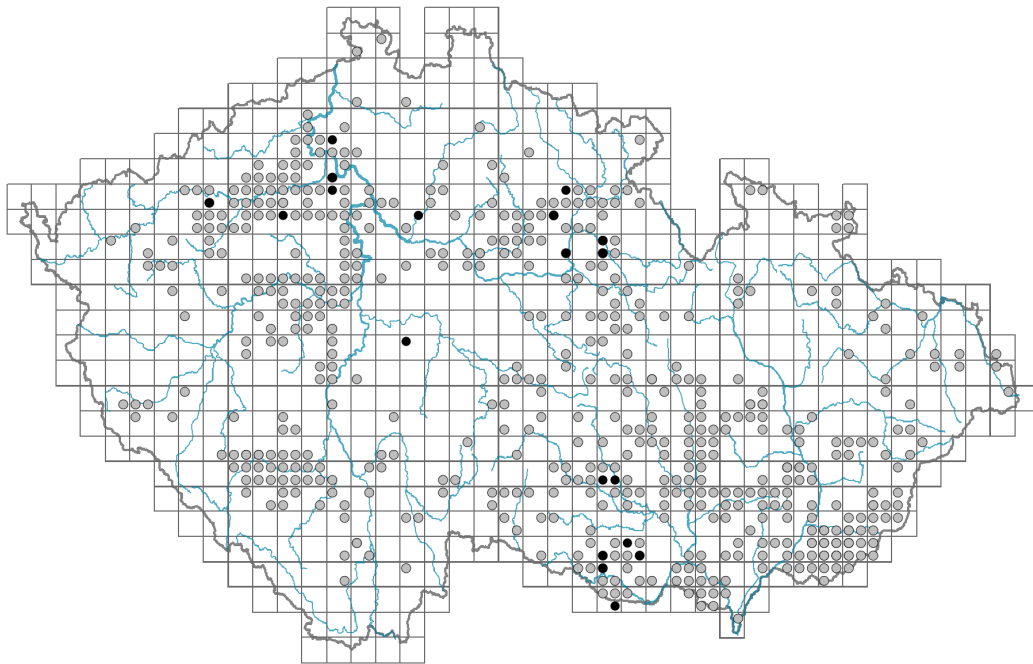


# *Galium spurium*

## 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]: **0.15-1.5**

Growth form: **annual herb**

Life form: **therophyte**

Life strategy: **CR - competitor/ruderal**

## Leaf

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

Leaf arrangement (phyllotaxis): **verticillate**

Leaf shape: **simple - entire**

Stipules: **present**

Petiole: **absent**

Leaf life span: **overwintering green**

Leaf anatomy: **mesomorphic**

## Flower

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

Flowering phase: **6 Cornus sanguinea-Melica uniflora (start of early summer)**

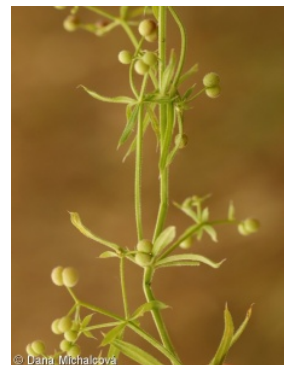
Flower colour: **yellow-green**

Flower symmetry: **actinomorphic**

Perianth type: **calyx absent, corolla present**



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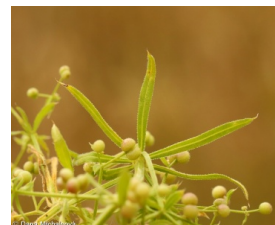


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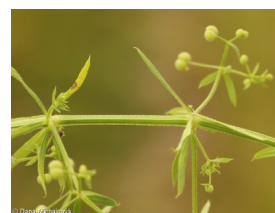
© Danieľa Štefániková, Štefániková

Perianth fusion: **fused**  
 Shape of the sympetalous corolla or syntepalous perianth: **rotate**  
 Inflorescence type: **dichasium**  
 Dicliny: **synoecious**  
 Generative reproduction type: **autogamy**  
 Pollination syndrome: **insect-pollination, selfing**



### Fruit, seed and dispersal

Fruit type: **dry fruit - pair of nutlets**  
 Fruit colour: **brown**  
 Reproduction type: **only by seed/spores**  
 Dispersal unit (diaspore): **fruit, infructescence or its part**  
 Dispersal strategy: **Allium (mainly autochory), Bidens (mainly autochory and epizoochory)**  
 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): **3**  
 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): **3**  
 Depth of the belowground bud bank (root buds excluded) [cm]: **1**  
 Number of buds per shoot at the soil surface (root buds included): **3**  
 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): **3**  
 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): **20**  
 Ploidy level (x): **2**  
 2C genome size [Mbp]: **670.82**  
 1Cx monoploid genome size [Mbp]: **335.41**  
 Genomic GC content: **40.2 %**

## Taxon origin

Origin in the Czech Republic: **archaeophyte**  
Invasion status: **naturalized**  
Geographic origin: **Europe, Mediterranean**  
Period of introduction: **Neolithic (5600-4200 BCE)**  
Introduction pathway: **unintentional - agriculture**

## Ecological indicator values

### Ellenberg-type indicator values

Light indicator value: **7 - half-light plant, mostly occurring at full light, but also in the shade up to about 30% of diffuse radiation incident in an open area**  
Temperature indicator value: **6 - transition between values 5 and 7**  
Moisture indicator value: **5 - indicator of fresh soils, focus on soils of average moisture, missing on wet and on soils that frequently dry out**  
Reaction indicator value: **7 - indicator of slightly acidic to slightly basic conditions, never occurring in very acidic conditions**  
Nutrient indicator value: **6 - transition between values 5 and 7**  
Salinity indicator value: **0 - not salt tolerant, glycophyte**  
Indicator values for disturbance  
Whole-community disturbance frequency indicator value: **0.24**  
Herb layer disturbance frequency indicator value: **0.24**  
Whole-community disturbance severity indicator value: **0.98**  
Herb layer disturbance severity indicator value: **0.98**  
Whole-community structure based disturbance indicator value: **0.79**  
Herb layer structure-based disturbance indicator value: **0.84**

## Habitat and sociology

### Occurrence in habitats

#### 11 Heathlands and scrub

11L Tall mesic and xeric shrub: **1 - rare occurrence**  
11N Low xeric scrub: **1 - rare occurrence**

#### 13 Anthropogenic vegetation

13A Annual vegetation of ruderal habitats: **1 - rare occurrence**  
13B Annual vegetation of arable land: **2 - optimum**  
13D Perennial thermophilous ruderal vegetation: **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: [XBA \*Caucalidion\*](#)  
Diagnostic taxon of associations: [XBA01 \*Caucalido platycarpi-Conringietum orientalis\*](#), [XBA03 \*Euphorbio exiguae-Melandrietum noctiflori\*](#)

### Ecological specialization indices

Ecological specialization index for all vegetation types: **6.2**  
Ecological specialization index for non-forest vegetation: **6.2**  
Colonization ability  
Index of colonization success (ICS): **3**  
Index of colonization potential (ICP): **3**  
Optimum successional age [years]: **2.5**

### **Distribution and frequency**

Floristic zone: **boreal, northern temperate, southern temperate, submeridional, meridional, subtropical, tropical**  
Floristic region: **Europe, Western Asia, Africa**  
Distribution range extension along the continentality gradient: **7**  
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: **296**  
taxon.data.freq\_in\_quad: **536**  
Commonness in vegetation plots from the Czech Republic  
Occurrence frequency in vegetation plots: **0.6 %**  
Occurrence frequency in vegetation plots with a cover above 5%: **8.9 %**  
Occurrence frequency in vegetation plots with a cover above 25%: **0 %**  
Occurrence frequency in vegetation plots with a cover above 50%: **0 %**  
Mean percentage cover in vegetation plots: **3.3 %**  
Maximum percentage cover in vegetation plots: **23 %**  
Number of habitats with taxon occurrence in the Czech Republic  
Number of narrow habitats in which the taxon occurs: **5**  
Number of narrow habitats in which the taxon has its optimum: **1**  
Number of broad habitats in which the taxon occurs: **2**  
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): **NT - near threatened**  
Legal protection: **not protected by law**