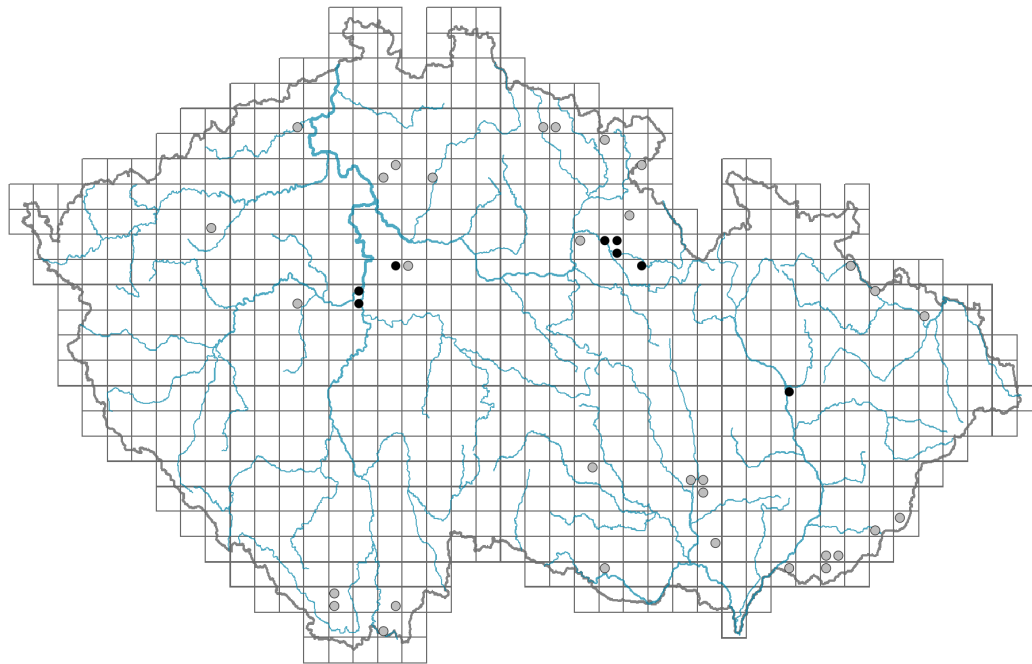


# *Muscari botryoides*

## 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]: **0.1-0.3**

Growth form: **clonal herb**

Life form: **geophyte**

Life strategy: **CSR - competitor/stress-tolerator/ruderal**

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

Life strategy (Pierce method, C-score): **41.4 %**

Life strategy (Pierce method, S-score): **0 %**

Life strategy (Pierce method, R-score): **58.7 %**

## Leaf

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

Leaf arrangement (phyllotaxis): **rosulate**

Leaf shape: **simple - entire**

Stipules: **absent**

Petiole: **absent**

Leaf life span: **spring green**

Leaf anatomy: **mesomorphic**

## Flower

Flowering period [month]: **April-May**

Flowering phase: **2 Acer platanoides-Anemone nemorosa (start of early spring)**  
Flower colour: **blue**  
Flower symmetry: **actinomorphic**  
Perianth type: **homochlamydeous**  
Perianth fusion: **fused**  
Shape of the sympetalous corolla or syntepalous perianth: **urceolate**  
Inflorescence type: **racemus**  
Dicliny: **synoecious**  
Generative reproduction type: **allogamy self-incompatibility, facultative allogamy**  
Pollination syndrome: **insect-pollination, selfing**

## **Fruit, seed and dispersal**

Fruit type: **dry fruit - capsule**  
Fruit colour: **brown, grey**  
Reproduction type: **by seed/spores and vegetatively**  
Dispersal unit (diaspore): **seed**  
Dispersal strategy: **Allium (mainly autochory)**  
Myrmecochory: **probably non-myrmecochorous**

## **Belowground organs and clonality**

Shoot metamorphosis: **bulb**  
Storage organ: **bulb**  
Type of clonal growth organ: **bulb**  
Freely dispersible organs of clonal growth: **absent**  
Shoot life span (cyclicity): **monocyclic shoots prevailing**  
Branching type of stem-derived organs of clonal growth: **sympodial**  
Primary root: **absent**  
Persistence of the clonal growth organ [year]: **2.5**  
Number of clonal offspring: **2.3**  
Lateral spreading distance by clonal growth [m]: **0.01**  
Clonal index: **3**

### **Bud bank**

Number of buds per shoot at the soil surface (root buds excluded):  
Number of buds per shoot at a depth of 0–10 cm (root buds excluded):  
Number of buds per shoot at a depth greater than 10 cm (root buds excluded):  
Size of the belowground bud bank (root buds excluded):  
Depth of the belowground bud bank (root buds excluded) [cm]:  
Number of buds per shoot at the soil surface (root buds included):  
Number of buds per shoot at a depth of 0–10 cm (root buds included):  
Number of buds per shoot at a depth greater than 10 cm (root buds included):  
Size of the belowground bud bank (root buds included):  
Depth of the belowground bud bank (root buds included) [cm]:

## **Trophic mode**

Parasitism and mycoheterotrophy: **autotrophic**  
Carnivory: **non-carnivorous**

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

## Karyology

Chromosome number (2n): **36 (18)**

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

2C genome size [Mbp]: **16914.09**

1Cx monoploid genome size [Mbp]: **4228.52**

Genomic GC content: **47.2 %**

## Taxon origin

Origin in the Czech Republic: **archaeophyte/neophyte**

Invasion status: **casual**

Geographic origin: **Europe**

Period of introduction: **Late Middle Ages and Early Modern Period (merged category, 1200-1800)**

Introduction pathway: **intentional - ornamental**

## Habitat and sociology

Occurrence in habitats

6 Meadows and mesic pastures

6C Pastures and park grasslands: **1 - rare occurrence**

9 Sand grasslands and rock-outcrop vegetation

9E Acidophilous vegetation of spring therophytes and succulents: **1 - rare occurrence**

9F Basiphilous vegetation of spring therophytes and succulents: **1 - rare occurrence**

12 Forests

12C Oak-hornbeam forests: **1 - rare occurrence**

12D Ravine forests: **1 - rare occurrence**

12J Acidophilous thermophilous oak forests: **1 - rare occurrence**

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

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

13 Anthropogenic vegetation

13D Perennial thermophilous ruderal vegetation: **1 - rare occurrence**

## Distribution and frequency

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

Floristic region: **Europe**

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: **34**

taxon.data.freq\_in\_quad: **40**

Number of habitats with taxon occurrence in the Czech Republic

Number of narrow habitats in which the taxon occurs: **9**

Number of narrow habitats in which the taxon has its optimum: **0**

Number of broad habitats in which the taxon occurs: **4**

Number of broad habitats in which the taxon has its optimum: **0**

### **Threats and protection**

Red List 2017 (national categories): **C4b - data deficient taxon**

Red List 2017 (IUCN categories): **NA - not applicable**

Legal protection: **not protected by law**