# *Knautia arvensis*

### Habitus and growth type

Plant height [m]: **0.51**
Life span: **Perennial**
Life form: **Hemicryptophyte**

### Leaf

Specific leaf area [$mm^2$/mg]: **18.06**

### Flower

Flowering period: **April-September**

### Fruit, seed and dispersal

Seed mass [mg]: **4.53**
Dispersal mode: **Myrmecochory**
Dispersal distance class: **3**

### Trophic mode

Parasitism and mycoheterotrophy: **autotroph**
Carnivory: **non-carnivorous**
Symbiotic nitrogen fixation: **no nitrogen-fixing symbionts**

### Taxon origin

Origin in Europe: **native**

### Ecology

#### Environmental relationships

Substrate humidity relationship: **Dry**
Substrate reaction relationship: **Alkaline**
Nutrient relationship: **Mesotrophic**
Salinity relationship: **Non-saline**

#### Ellenberg-type indicator values

Light indicator value: **7.1**
Temperature indicator value: **5.5**
Moisture indicator value: **4.1**
Reaction indicator value: **6.5**
Nutrient indicator value: **3.7**
Salinity indicator value: **0**

#### Disturbance indicator values

Disturbance frequency: **1.12**

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Disturbance frequency (herb layer): **1.93**
Disturbance severity: **0.52**
Disturbance severity (herb layer): **0.47**
Mowing frequency: **0.86**
Grazing pressure: **0.2**
Soil disturbance: **0.28**

## Habitat and sociology

### EUNIS habitat

Diagnostic species of EUNIS habitats: **R1A Semi-dry perennial calcareous grassland (meadow steppe)**, **R22 Low and medium altitude hay meadow**, **R23 Mountain hay meadow**
Constant species of EUNIS habitats: **R1A Semi-dry perennial calcareous grassland (meadow steppe)**, **R22 Low and medium altitude hay meadow**, **R23 Mountain hay meadow**, **R51 Thermophilous forest fringe of base-rich soils**, **S36 Low steppic scrub**

### Broad habitat

Occurrence in broad habitats: **Grassland (non-alpine, non-saline), Scrub, Forest, Sparsely vegetated (incl. rock and scree)**

## Distribution

Continentality amplitude: **6**

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