

# ***Knautia arvensis***

## **Habitus and growth type**

Plant height [m]: **0.51**

Life span: **Perennial**

Life form: **Hemicryptophyte**

## **Leaf**

Specific leaf area [mm<sup>2</sup>/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**

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 \(meadow steppe\)](#)

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**