

# *Echinops spinosissimus*

## Habitus and growth type

Plant height [m]: **0.38**

Life span: **Perennial**

Life form: **Hemicryptophyte**

## Flower

Flowering period: **April-July**

## Fruit, seed and dispersal

Seed mass [mg]: **41.05**

Dispersal mode: **Epizoochory**

Dispersal distance class: **6**

## 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: **8.5**

Temperature indicator value: **10.5**

Moisture indicator value: **3**

Reaction indicator value: **7**

Nutrient indicator value: **6.5**

Salinity indicator value: **0**

### Disturbance indicator values

Disturbance frequency: **1.03**

Disturbance frequency (herb layer): **1.39**

Disturbance severity: **0.58**

Disturbance severity (herb layer): **0.53**

Mowing frequency: **0.23**

Grazing pressure: **0.24**

Soil disturbance: **0.34**

## **Habitat and sociology**

### Syntaxon

Diagnostic species of phytosociological classes: [JC \(CAK\) \*Cakiletea maritimae\*](#)

### Broad habitat

Occurrence in broad habitats: **Coastal beach, dune or shingle, Grassland (non-alpine, non-saline), Sparsely vegetated (incl. rock and scree)**