

## **Abstract**

The aim of this thesis is review studies on population dynamics of rare plant species considering regulation factors responsible for changes in population dynamics. It also includes usage of matrix models as a tool of demographic analysis. This information allows us to identify not only trends in population development, but it can help us to understand factors responsible for these changes as well. We also find out which part of the life cycle should be the target of conservation action. Further the thesis should gather information about critically endangered species *Dianthus arenarius* subsp. *bohemicus*, its habitat and management.

**Key words:** population dynamics, *Dianthus arenarius* subsp. *bohemicus*, life cycle