

The thesis concerns the influence of soil management upon various lifecycle phases of the *Dactylorhiza majalis* species. The first part of the thesis is a background research applied to the Orchideaceae family and knowledge regarding the life processes of this group of herbage and aims to fuse them with knowledge about the impact of soil management on herbage.

The second part of this thesis sketches out terrain works taking its course in the PLA (Protected Landscape Area) Slavkovsky les on the *Dactylorhiza majalis* and aspires to uncover reactions of this orchid's populations to various types of management. This research started in 2007 and the data gathering still continues. Its targets are:

- To map the appearance of the *Dactylorhiza majalis* in the PLA Slavkovsky les
- To discover the current habitat management of this species and its population's vitality depending on the soil management
- To suggest the optimal soil management regarding the habitats of the *Dactylorhiza majalis* species

This thesis represents only the first part of the research, the second part will be covered in the following diploma thesis including evaluation of the data gathered. These results will be applicable not only to the PLA Slavkovsky les, but also to other parts of the Czech Republic and Middle Europe.