

Evaluation of area and changes of the agricultural land in Czechia 2006 - 2012

Abstract

This thesis deals with the evaluation of area and changes of the agricultural land in selected regions in Czechia on the basis of the data from the years of 2006 and 2012, using the available international and national databases of land cover and land use. In the practical part, firstly the compatibility of classification systems of the surveyed databases is compared, then the state and changes of individual classes of agricultural land are analysed on two levels - national and regional - using functions of ArcGIS software. The overall result confirmed the assumption that the proportion of permanent grass cover in respect to agricultural land is increasing at the expense of that of arable land. Certain discrepancies between the results, however, point out different purposes of the surveyed databases and thus differences in their parameters and classification systems. Remote sensing, which enables to determine the real state of agricultural land and its classes, seems to be auspicious.

Key words: change detection, agricultural land, CORINE Land Cover, Urban Atlas, land register - LPIS