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APPLICATION OF GIS TECHNIQUE IN LAND EVALUATION FOR AGRICULTURAL USES

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Abstract

The purpose of this paper is to analyze the opportunity of GIS technique implementation for the research of agricultural lands quality. Taking into account that the factors which determine the quality of agricultural lands have a spatial distribution, we considered that the complex activities (especially on large surfaces) can be better done within the framework of an information system. Compared to other methods applied for assessing the productive potential of agricultural lands, the GIS technique use enables computer-based easy data storage and processing of complex data, geo-referenced and descriptive data coming from various sources, providing the decision makers in the agricultural / territorial management with the information they need in a short time and at a much lower cost. The new approach of this paperwork consists in drafting a new method of establishing the favorability scores for agricultural lands, a method developed in the GIS environment.

Key words: GIS, land favorability, layers, overlay

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