IMPLEMENTATION OF GIS TECHNIQUES IN THE FORECAST OF SOIL EROSION IN THE WATER CATCHMENT ANTOHESTI, BACAU COUNTY

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Abstract

This paper introduces a modern solution for the determination of sloping land soil loss due to water erosion, based on Geographic Information Systems technique. Within the GIS project contemplated herein, the georeferential data is developed and represented as information layers, fact that enables the analysis of space variables and distribution of entities on the reviewed area. Thus, the overall analysis of acquired information can be performed through the so-called „overlay" technique**,** which implies the concomitant approach of several information layers, approach based on computation laws and procedures set out by the user. The endpoint of the GIS application consists of a thematic map that shows the surface erosion, in multiple options/scenarios.

Key words: *GIS, water erosion, spatial analysis*