

## QUANTITATIVE ESTIMATION OF SOIL EROSION IN THE DRĂGAN RIVER WATERSHED WITH THE U.S.L.E. TYPE ROMSEM MODEL

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**ABSTRACT.- Quantitative estimation of soil erosion in the Drăgan river watershed with the U.S.L.E. type Romsem model**

*Sediment delivered from water erosion causes substantial waterway damages and water quality degradation. A number of factors such as drainage area size, basin slope, climate, land use/land cover may affect sediment delivery processes. The goal of this study is to define a computationally effective suitable soil erosion model in the Drăgan river watershed, for future sedimentation studies. Geographic Information System (GIS) is used to determine the Universal Soil Loss Equation Model (U.S.L.E.) values of the studied water basin. The methods and approaches used in this study are expected to be applicable in future research and to watersheds in other regions.*