

ENGINEERING MEASURES FOR SOIL EROSION CONTROL ON AGRICULTURAL LAND IN THE PODOLENII DE SUS AREA, COZMESTI COMMUNE, IASI COUNTY

Simina-Mirela RĂILEANU¹, Maria CIOBĂNIȚA¹, Cristian TOTOLEA¹, Daniel BUCUR¹

e-mail: siminamirela62@gmail.com

Abstract

Lands requiring improvement are placed on slopes larger than 15%, located Cozmesti commune, in Iași County. The total area of the perimeter is 50.4 ha and is located in the extravilan area. The categories of use in the area are agricultural, stretching over 22.96 ha, namely degraded pasture, very poorly productive and 27.44 hectares now become non-agricultural, of which 1.44 ha are roads operating damaged, impracticable and 26 ha unproductive due to excessive surface erosion, of the formations in depth, permanent excess moisture and vineyards aging, degraded, with destroyed biocenosis. Thus, it was proposed redevelopment the agricultural technological roads, grubbing up of vineyards the abandoned and degraded, to execute marginal and evacuation channels in order to protect the agricultural technological roads, leveling and modeling the lands on the slopes, creation of terraces on the arable, fertilization improvement, works of deep loosening, deep plowing, panting, disking and the application of measures erosion control specific to the land in slope with arable land use category. The fitting of slopes affected by surface erosion, depth erosion and landslides, with hydrotechnical works to control leakage and consolidation, grasslands and the improvement of degraded land contributes to the stabilization and creation of conditions for the evolution of soils, vegetation, biocenoses in ground.

Key words: erosion control, unproductive lands, Iasi County, hydrotechnical and agrotechnical works
