

QUALITY OF AGRICULTURAL LANDS IN CUCUTENI COMMUNE, IASI COUNTY

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Abstract

The quality of agricultural land is determined by rating, based on which agricultural land in Romania is classified into five quality classes. Agricultural land reclamation is based not only on soil fertility, which is undoubtedly the most important factor, but also on climate, relief and hydrology. The Cucuteni territorial administrative unit is climatically located in the temperate-continental area, with an average multiannual temperature of 8.5° C and average multiannual rainfall of about 555 mm. Following the pedological mapping, carried out on the surface of 2225 ha, 44 simple soil units from the classes Protisoils, Cernisoils, Luvisoils, Hydriisoils, Antrisoils and 8 complex soil units were identified. Based on the average rating marks, the arable area (1381.47 ha) and pasture area (514.22 ha) were included in the third quality class, with 53 and 43 bonitation points, respectively. The areas with the use of hayfields (103.83 ha), vineyards (160.46 ha) and orchards (35.79 ha) fall into the 4th quality class with rating notes between 34 and 38 points.

Keywords: agricultural land reclamation, homogeneous ecological territory, soil units, land quality classes