



Management based on organic inputs of a *Nardus Stricta* l. and *Festuca Rubra* l. meadow from the Dorna depression

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The meadows of *Nardus stricta* L. and *Festuca rubra* L. from Dorna Depression are of low productivity and quality and are mostly used for cattle grazing. Improving the trophic regime, through organic fertilization, causes a change in the floristic composition and the ratio of the species favouring the valuable ones. The research was carried out under the pedo-climatic conditions of Șaru-Dornei locality, from 2008 to 2010. The experience was conducted on an area located at an altitude of 940 m, with a slope of 10°. We followed the effect of fertilization of 20-50 t/ha manure applied annually or every two years on production, biodiversity and structure of vegetation in a meadow of *Festuca rubra* L. and *Nardus stricta* L. The manure application resulted in increases of production between 84-114%, ensured from the statistical viewpoint. Organic fertilization led to the reduction of the share of *Nardus stricta* L. species from 70-80% to 8-35% in the fertilized variants with 20 and 30 t/ha manure applied annually, in favour of the valuable species: *Festuca rubra*, *Trisetum flavescens*, *Trifolium pratense* and *Trifolium repens*.