

RESEARCH ON THE INFLUENCE OF SOME PRATOTEHNICAL FACTORS ON THE PRODUCTIVITY AND QUALITY OF *Festuca valesiaca* Schleich. ex Gaudin PERMANENT MEADOW

Adrian-Ilie NAZARE¹, Costel SAMUIL¹, Vasile VÎNTU¹

email: adrian.nazare@uaiasi.ro

Abstract

The exploitation of the permanent meadows in the Moldavian forest-steppe, encountered in natural conditions completely different from those found in the other regions of the country, is not possible without a thorough knowledge of the ecosystems of the meadows. Mineral and organic fertilization of grasslands is the main way to increase the yield of dry matter and forage quality in Moldavian forest steppe. The *Festucetum valesiaca* associations from the are in most part of low quality, with inadequate floristic composition, situated on soils with low natural fertility. The main ways to improve these grasslands consist in the correction of the soil fertility with mineral and organic fertilizers. The objective of our work is to analyze the effect of manure in combination with mineral fertilizers on biomass productivity and forage quality of *Festuca valesiaca* grasslands. From the results obtained during the experimentation period on the *Festuca valesiaca* meadow, it was found that their productivity and quality is very poor in the absence of improvement elements and can be substantially increased if the necessary measures for improvement and use are applied.

Key words: permanent grasslands, organic and mineral fertilization, dry matter, crude protein