

RESEARCH REGARDING PRODUCTIVITY AND FODDER QUALITY IMPROVEMENT OF *Agrostis capillaris* L. + *Festuca rubra* L. MEADOW IN THE UPPER BASIN OF SUCEAVA

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Abstract

The research conducted in 2012 in the commune Putna, Suceava county, aimed to study the influence of organic fertilization on productivity and quality of forage obtained from a *Agrostis capillaris* L. + *Festuca rubra* L. meadow. It was analyzed the influence of fertilization rates of 20-50 t/ha manure on DM production and crude protein (CP), neutral detergent fiber (NDF), acid detergent fiber (ADF), total digestible nutrients (TDN), non-fibrous carbohydrates (NFC) forage content and the calculation of relative feed value (RFV) and net energy lactation (NEL) of the forage. The results obtained showed that in all fertilization variants had been registered a positive increase in the production of DM. Forage quality obtained was positively influenced by organic fertilization, reducing NDF and ADF content and increasing the content of CP, NFC and TDN. Also, the relative feed value (RFV) and net energy lactation (NEL) increased. The results of studies showed that the doses of manure applied are correlated with the production and quality indicators.

Key words: organic fertilization, CP, RFV, NEL, TDN