

RESEARCH REGARDING THE INFLUENCE OF SIMPLE MIXTURES COMPOSED WITH PERENNIAL LEGUMES AND GRASSES ON NUTRITIONAL STATUS OF TEMPORARY MEADOWS

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Abstract

Research has sought to influence the proportion of legumes in mixtures simple participation on nutritional status of forest steppe grasslands temporary conditions in Moldova. In 2006, it appears that nutritional status nitrogen mixtures with *Medicago sativa* and *Dactylis glomerata* was better compared with mixtures with *Bromus inermis* and *Onobrychis viciifolia*. The mixture with 20% *Medicago sativa* + 80% *Dactylis glomerata* and at all mixtures with *Onobrychis viciifolia* nitrogen nutritional status on the four graduation was poor during the first year of vegetation. In 2007 nitrogen nutritional status was better than first year, the average index was between 96 – 108 INN at the mixtures with *Medicago sativa* + *Dactylis glomerata* and between 91-102 at the mixtures with *Onobrychis viciifolia* + *Bromus inermis*. In 2008 nitrogen nutritional status was better than in previous years due to symbiotic activity of legumes from mixtures, the index was between 119-134 at the mixtures with *Medicago sativa* and *Dactylis glomerata* and between 114-128 at the mixtures with *Onobrychis viciifolia* and *Bromus inermis*. From the mixtures used the highest value of 140 INN was obtained from the mixture with 70% *Medicago sativa* + 30% *Dactylis glomerata* at fertilization with N₂₀₀P₁₀₀ kg/ha. At the mixtures with *Onobrychis viciifolia* the highest value of the INN was 130, at the mixture with 70% *Onobrychis viciifolia* + 30% *Bromus inermis* at fertilization with N₂₀₀P₁₀₀ kg/ha.

Key words: temporary meadows, simple mixtures, nitrogen, leguminous, fertilization

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