



The low-input effect upon oligotrophic grasslands in Apuseni mountains

Florin PĂCURAR, Ioan ROTAR, Anca BOGDAN, Nicoleta GÂRDA - USAMV Cluj-Napoca

Grassland's management by low-input might be a viable method for maintaining the high conservative value grassland. Our goal is to study the effect of organic fertilization and mulching upon the phyto-diversity and productivity of oligotrophic grasslands in Gârda de Sus commune, Apuseni Mountains. An experimental field with 7 variants in 5 repetitions was founded using the random blocks method, at an altitude of 1320 m, on an *Agrostis capillaris* with *Festuca rubra* grassland type. After organic fertilizers and mulching's application, there haven't been noticed any significant growths of the DM yield in any of the two experimental years. At the sward's level minimum changes have been recorded. The grassland type of the witness variant is *Agrostis capillaris* with *Festuca rubra*, and through treatment's performance, *Festuca rubra* with *Agrostis capillaris* type is being installed. Also, the phyto-diversity slightly changes.