

**Abstract**

In the last years, in the Suceava Plateau, the climatic conditions occurred elevated temperature during summer and rainfall values were close to normal, forage crops were achieved annual production exceeding d.s. and n.u. , the highest values occurring in corn silage and fodder beet followed by forage turnip. The perennial crops, the highest yields were recorded at mix of alfalfa+ orchard grass, followed by simple cultivation of perennial legumes and perennial grasses in pure culture. The effect of fertilizers on annual crops was higher in fodder beet, followed by forage turnip and finally followed by corn. The maximum effect was obtained at perennial grasses, followed by perennial mixtures, and finally followed by perennial legumes in pure culture.

**Key words:** perennial grasses, perennial legumes, dry substances