



Corelații între unii indicatori ai stării de compactare a solului și producția culturilor de grâu, fasole și porumb

RĂUS L., JITĂREANU G. - USAMV Iași

The effects of cropping systems and management practices on soil properties provide essential information for assessing sustainability and environmental impact. The objective of this work was to evaluate the correlation between different physical properties of the soil and yields. The study was conducted on a cambic chernozem during the period between 2002-2005 in the Didactic Station of the University of Agricultural Sciences and Veterinary Medicine – Iasi, Ezăreni Farm. Correlation coefficients and trend lines between yields and the values of bulk density or penetration resistances has been a negative tendency because in generally the yield decreased in the same time with the increase of compactation degree of the soil. The values of r coefficient showed that where established significant correlations just in case that yield depends on penetrations resistance and insignificant correlations in case that yield depends on bulk density. The crops yield had been positive correlations with utile porosity values. The yield increasing in the same time with pores volumes witch hold inside water for plants, but the correlation coefficient doesn't has a statistic importance.