Universitatea de Ştiinţe Agricole şi Medicină Veterinară
"Ion Ionescu de la Brad" din Iaşi

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SERIA AGRONOMIE

Utilizarea informației din studiile pedologice pentru alegerea sistemelor de lucrare a solului şi a elementelor tehnice ale acestora

CANARACHE A. - Institutul Național de Cercetare Dezvoltare pentru Pedologie, Agrochimie şi Protecția Mediului în Agricultură, Bucureşti

A procedure in presented to use data from soil survey reports in defining tillage systems adequate for a given land, as well as details of specific tillage techniques. Selection of conventional tillage, conservation tillage, contour tillage, as well as tillage systems specific for soils with surface waterlogging, soils with subsoil compaction, sandy soils and saline soils is based on data as topsoil texture, slope gradient, subsoil bulk density, surface waterlogging and salinity. Workability and trafficability classes are defined according to number of days with inadequate moisture content during the cropping season and during the whole year. They are estimated using climate water deficit and soil water excess. Classes of draft resistance to ploughing of cropping land soils, specific for optimum soil moisture content and for the end of the cropping season, are estimated from soil genetic type and topsoil texture. Use by farmers of these estimated a soil characteristic is discussed: selection of tillage system, need for specific tillage implements, kind and number per hectares of tractors and tillage equipment needed, and a.o.