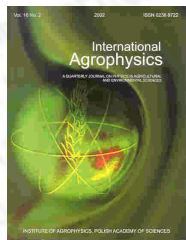




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Relations between aeration status and physical parameters of some selected hungarian soils

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abstract The present studies were performed with the use of soil cores representing three Hungarian soil units characterized as Fluvic Gleysol, Vertic Gleysol and Ortic Solonetz under diversified land use practice. Relative gas diffusion coefficient (D/Do), air permeability (k), air-filled porosity (Eg) and water content (W) of the soil were correlated with its aeration indices such as ODR and Eh. Threshold values of soil physical conditions ensuring appropriate aeration conditions in the soil were determined.

keywords relative gas diffusion coefficient, air-filled porosity, air permeability, water content