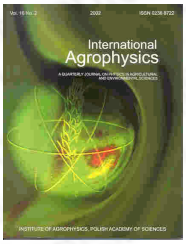
International Agrophysics
Polish Journal of Soil Science
Acta Agrophysica
Instytut Agrofizyki

International Agrophysics
General information
Issues
Search



International Agrophysics
publisher: Institute of Agrophysics
Polish Academy of Sciences
Lublin, Poland
ISSN: 0236-8722

vol. 22, nr. 3 (2008)

previous paper back to paper's list next paper

Submodel of bypass flow in cracking soils. Part 2- experimental validation

(get PDF)

R.T. Walczak , H. Sobczuk, C. Sławiński

Institute of Agrophysics, Polish Academy of Sciences, Doswiadczalna 4, 20-236 Lublin, P.O. Box 121, Poland

vol. 10 (1996), nr. 3, pp. 197-201

abstract The experimental validation of bypass flow submodel was done using data gathered at two sites Grab6w and Czes3awice. Measured and calculated moisture content show better agreement when the bypass flow is taken into account. This is especally important for deeper layers of the soil where the Richard's equation modeling shows too small water content. The bypass flow mechanism allows more water to flow down immediately to deep layers bypassing the top layers of soil profile.

keywords bypass flow, numerical validation, experimental validation