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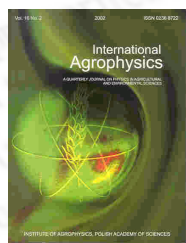
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Evaluation of soil physical condition with the use of CERES model, permeameter and infiltrometer methods

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abstract The following sites were investigated: Tisice (district Melnik, central Bohemia): An irrigation and agronomic experiment station of which some archive data were used as inputs to (and to test the outputs of) the CERES-Barley model. The irrigation and agronomic experiments have been conducted in Tisice since 1955 by the Research Institute of Irrigation Management in Bratislava and its predecessors, the Research Institute of Crop Production in Praha-Ruzyne and the Czech Hydrometeorological Institute. Several additional infiltration measurements were made in 1995. Liblice (district Melnik, central Bohemia), about 10 km aside from Tisice, on the boundary of a protected region of natural water recharge ('The North Bohemian Cretaceous'). Standard farm fields. Several sites, on various catena! soil forms developed on virtually the same parent rock (see below), were investigated using infiltration tests in 1993-1994. Homi Tresnovec (district Usti nad Orlici, East Bohemia, in a submountainous peneplain of the Orlické hory mountains). A pilot experimental field for testing a wholeprofile soil reclamation methods. Some treatments of the experiment were investigated using infiltration tests in 1994. The two latter sites were investigated within a research project on 'Revitalisation of the agricultural and forest catchment' (1993-1995), financed by the Ministry of Agriculture of the Czech Republic. The project was executed by the Research Institute for Soil and Water Conservation in Prague - Zbraslav.

keywords soil physical conditions, CERES model, penetrometer, infiltrometer