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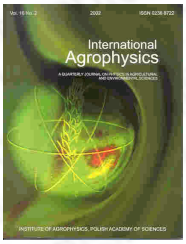

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previous paper back to paper's list next paper

Scheduling of irrigation and drainage using numerical methods

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abstract In this paper the HZAR and UGWTPN models are described. The HZAR programme is used for the description of water flow in the soil with plant water uptake and for the account of drain pipe spacing. The UGWTPN (subroutine IRRDEC) for the estimation of dry mass yield of plant and irrigation scheduling is given.

keywords water balance in the soil crop atmosphere system, drain pipe spacing, irrigation predicting, plant growth