PROCEEDINGS OF THE SYMPOSIUM ON DRIP IRRIGATION IN HORTICULTURE WITH FOREIGN EXPERTS PARTICIPATING

September 30-th to October 4-th, 1980



Edited by

K. Slowik, D. Swietlik, K. Sitton

SKIERNIEWICE, PQLAND

Proceedings of the Symposium on Drip Irrigation in Horticulture with Foreign Experts Participating, Skierniewice, Poland, September 30 - October 4, 1980

WATER CONSUMPTION OF DRIP IRRIGATED APPLE ORCHARDS I. Gergely 1/, A. Stollar 2/

Using the drip irrigation system in fruit growing gives the possibility to adjust the quantity of irrigation water to the demand of fruit trees. To the accurate determination of water consumption of the trees we used evapotranspirometers. We studied the effect of meteorological data, leaf area, and the age of the leaf, on water consumption of Starkrimson apple trees on the rootstock M 4. We measured the water consumption in a drip irrigated apple orchard too. Combining the data of two experiments, we worked out the technology of irrigation for apple orchards.

During our experimental work we compared the yield and water consumption of

drip and sprinkler irrigated apple orchards too.

The most important factors affecting water use, technology of irrigation and the main results of the drip-sprinkler irrigation experiments will be discussed in the lecture.

^{1/} Research Institute for Fruit Growing and Ornamental's Budapest, Hungary

^{2/} Agrometeorological Institute, Budapest, Hungary