Tanji, K.K., Yaron, B. (ed.): **Management of Water Use in Agriculture** (Advanced Series in Agricultural Sciences 22). - Springer-Verlag, Berlin - Heidelberg - New York - London - Paris - Tokyo - Hong Kong - Barcelona - Budapest 1994. 320 pp. ISBN 3-540-57309-7.

Increasing world population lead to increasing competition for fresh water resources. Since water use in agriculture is rather large its more efficient use in near future is very important and this book focus on water management in agriculture from a wide range of perspectives. Part I (Water Resources and Water Quality) contains two chapters. The first one presents the survey of world water resources, use of water in agriculture and strategies for the future, the second one considerates water quality and its suitability for crop and animal production. Part II (Water Conservation and Technology) consists of five chapters. The firsts of them represent physiological background for irrigation requirements and timing. It is probably the most interesting chapter for readers of *Biologia Plantarum* as it contains overview of methods for determination of plant water status parameters, evapotranspiration rate and soil moisture content and points out the importance of crop growth stage. The further chapters concern irrigation techniques, drainage, runoff irrigation and efficient use of water in rain-fed agriculture. Three chapters of Part III (Problem Water Uses and Treatment) are focused on irrigation with saline water, irrigation with sewage effluents and on treatment of unusable drainage waters. Part IV (Policy and Management Evaluation) contains three chapters dealing with economics of irrigation.

The book similarly as other volumes of this series is well produced. The text is accompanied with 53 figures and 41 tables. It is invaluable source of information for researchers as well as agronomists, irrigationists, water resource planners, managers and policy makers.

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