

CABI Publishing Book Information

Title	Water Productivity in Agriculture: Limits and Opportunities for Improvement
Editors	J W Kijne, R Barker and D Molden, <i>International Water Management Institute, Sri Lanka</i>
Series	Comprehensive Assessment of Water Management in Agriculture Series, No. 1
Publication	July 2003
Pages	352
Binding	Hardback
ISBN	0 85199 669 8
Price	£60.00 (US\$110.00)
Key Features	<ul style="list-style-type: none">■ First title in a major new series■ Addresses improving water productivity to relieve problems of scarcity and competition to provide for food and environmental security■ Draws from scientists having a multitude of disciplines to approach this important problem
Readership	Water resource managers, development practitioners who are interested in water agriculture and development.
Description	In a large number of developing countries, policy makers and researchers are increasingly aware of the conflicting demands on water, and look at agriculture to be more effective in its use of water. Focusing on both irrigated and rain-fed agriculture, this book gives a state of the art review of the limits and opportunities for improving water productivity in crop production. It demonstrates how efficiency of water use can be enhanced to maximize yields. The book represents the first in a new series of volumes resulting from the Comprehensive Assessment of Water Management in Agriculture, a research program conducted by the CGIAR's Future Harvest Centres, the Food and Agriculture Organization of the United Nations and partners worldwide. It will be of significant interest to those working in areas of soil and crop science, water management, irrigation, and development studies.
Contents	<ul style="list-style-type: none">■ A Water productivity framework for understanding and action, <i>D Molden, H Murray-Rust, ICRISAT, India, R Sakthivadivel, IWMI, India and I Makin, IWMI, Sri Lanka</i>■ Economics of water productivity in managing water for agriculture, <i>R Barker, D Dawe, IRRI, Philippines and A Inocencio, IWMI, South Africa</i>■ The concept of efficiency in water resources management and policy, <i>D Seckler, IWMI, USA, D Molden and R Sakthivadivel, IWMI, India</i>■ Rice production in water-scarce environments, <i>T P Tuong and B A M Bouman, IRRI, Philippines</i>■ Managing saline and alkaline water for higher productivity, <i>N K Tyagi, Central Soil Salinity Research Institute, India</i>■ Water productivity under saline conditions, <i>J W Kijne</i>■ Opportunities for increasing water productivity of CGIAR crops through plant breeding and molecular biology, <i>J Bennett, IRRI, Philippines</i>■ Management of drought in ICRISAT cereal and legume mandate crops, <i>R Serraj, F R Bidinger, Y S Chauhan, ICRISAT, India, N Seetharama, ICAR, India, S N Nigam and N P Saxena, ICRISAT, India</i>■ Water productivity in rain-fed agriculture: challenges and opportunities for smallholder farmers in drought-prone tropical agro-ecosystems, <i>J Rockström, University of Zimbabwe, Zimbabwe, J Barron and P Fox, Stockholm University, Sweden</i>■ World water productivity: current situation and future options, <i>X Cai and M W Rosegrant, International Food Policy Research Institute, Washington DC, USA</i>■ Improving water productivity in the dry areas of West Africa and North Africa, <i>T Y Oweis and A Y Hachum, ICARDA, Syria</i>■ Efficient management of rainwater for increased crop productivity and groundwater recharge in Asia, <i>S P Wani, P Pathak, ICRISAT, India, T K Sreedevi, APARD, India, H P Singh, CRIDA, India and P Singh, ICRISAT, India</i>■ Water productivity in forestry and agroforestry, <i>C K Ong and B M Swallow, ICRAF, Kenya</i>■ Water productivity and potato cultivation, <i>W T Bowen, International Fertilizer Development Centre, AL, USA</i>■ Rice-wheat cropping systems in the Indo-Gangetic plains: Issues of water productivity in relation to new resource - conserving technologies, <i>P R Hobbs, Cornell University, USA and R K Gupta, NASC, India</i>■ Land-and water productivity of wheat in the Western Indo-Gangetic plains of India and Pakistan: A comparative analysis, <i>I Hussain, IWMI, Sri Lanka, R Sakthivadivel, IWMI, India and U Amarasinghe, IWMI, Sri Lanka</i>■ Reform of the Thai Irrigation Sector: Is there scope for increasing water productivity? <i>F Molle, IWMI, Sri Lanka</i>■ Upscaling water productivity in irrigated agriculture using remote-sensing and GIS technologies, <i>W G M Bastiaanssen, International Institute for Aerospace Survey and Earth Sciences, The Netherlands, M-ud-D Ahmad and Z Tahir, IWMI, Pakistan</i>■ Improving water productivity through deficit irrigation: examples from Syria, North China Plain and Oregon, USA, <i>H Zhang, CSIRO, Australia</i>

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Title **Agriculture, Hydrology and Water Quality**

Editors P Haygarth and S Jarvis, *Institute of Grassland and Environmental Research, North Wyke, Devon, UK*

Publication October 2002

ISBN 0 85199 545 4

Binding Hardback

Pages 528

Price £85.00 (US\$149.00)

Readership Researchers in soil science, environmental science, hydrology and pollution studies.

Description This book is a collection of state-of-the-art reviews on the global problems of diffuse water pollution from agriculture, which affects the water quality of rivers, lakes, reservoirs and the oceans. It includes chapters on eutrophication, phosphorus, nitrogen, manure, heavy metals, carbon/persistent organic pollutants and soil/siltation problems. The book is broken down into three parts and reflects the opinions of the world's experts in these subjects.

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