

Wastewater Irrigation and Health

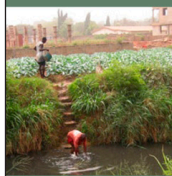
Assessing and Mitigating Risk in Low-income Countries

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Edited by Pay Drechsel, Christopher A. Scott, Liqa Raschid-Sally, Mark Redwood and Akiça Bahri

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Assessing and Mitigating
Risk in Low-income Countries



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'This book represents the best modern innovative thinking on the topic and symbolizes an important turning point in the history of wastewater reuse in irrigation as a major contributor to water and nutrient conservation, public health and welfare.'

Hillel Shuval, Hadassah Academic College and Hebrew University, Jerusalem, Israel

'This is a tremendously useful book with its clear focus on developing countries where wastewater treatment does not work. It is also a great resource for students.'

Sasha Koo-Oshima, Food and Agriculture Organization of the United Nations

'This book is a very useful background publication for students and professionals who would like to critically assess the interaction between public health, wastewater treatment and reuse in agriculture.'

Thor Axel Stenström, Swedish Institute for Infectious Disease Control, Stockholm

In most developing countries wastewater treatment systems are hardly functioning or have a very low coverage, resulting in large scale water pollution and the use of very poor quality water for crop irrigation especially in the vicinity of urban centres. This can create significant risks to public health, particularly where crops are eaten raw.

Wastewater Irrigation and Health approaches this serious problem from a practical and realistic perspective, addressing the issues of health risk assessment and reduction in developing country settings. The book therefore complements other books on the topic of wastewater which focus on high-end treatment options and the use of treated wastewater. This book moves the debate forward by covering also the common reality of untreated wastewater, greywater and excreta use. It presents the state-of-the-art on quantitative risk assessment and low-

cost options for health risk reduction, from treatment to on-farm and off-farm measures, in support of the multiple barrier approach of the 2006 guidelines for safe wastewater irrigation published by the World Health Organization. The 38 authors and co-authors are international key experts in the field of wastewater irrigation representing a mix of agronomists, engineers, social scientists and public health experts from Africa, Asia, Europe, North America and Australia. The chapters highlight experiences across the developing world with reference to various case studies from sub-Saharan Africa, Asia, Mexico and the Middle East. The book also addresses options for resource recovery and wastewater governance, thus clearly establishes a connection between agriculture, health and sanitation, which is often the missing link in the current discussion on 'making wastewater an asset'.

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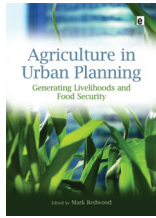
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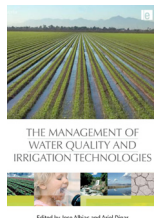
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Agriculture in Urban Planning
Generating Livelihoods and Food Security
Edited by Mark Redwood

Hb • ~~£65.00~~ £52.00 • 9781844076680
272 pages • November 2008

This volume, by some of the world's leading experts on urban agriculture, examines concrete strategies to integrate city farming into the urban landscape. Drawing on original field work in cities across the rapidly urbanizing global south, the book examines the contribution of urban agriculture and city farming to livelihoods and food security. The book calls on city farmers, politicians, environmentalists and regulatory bodies to work together to improve the long term sustainability of urban farming as a major, secure source of food and employment for urban population.



The Management of Water Quality and Irrigation Technologies

Edited by Jose Albiac and Ariel Dinar

Hb • ~~£65.00~~ £52.00 • 9781844076703
320 pages • December 2008

It is recognized that irrigation efficiency varies across countries, influenced by both technology and supporting adoption policies. Countries that lead in irrigation technology and supporting policies have certain traits in common. They face very high scarcity and are pushed to find innovative solutions, both technical and policy related. This book reviews all of the above issues, presents experiences in selected countries, and assesses the degree of success of alternative policies for coping with non-point water pollution and improving irrigation efficiency.



The United Nations World Water Development Report 3: Water in a Changing World (Two Volumes and CD-ROM) UN World Water Assessment Programme

Pb • ~~£39.95~~ £32.00 • 9781844078400
432 pages • April 2009

This report, published every three years, provides an authoritative picture of the state of the world's freshwater resources. It offers best practices as well as in-depth theoretical analyses to help stimulate ideas and actions for better stewardship in the water sector. It is the only report of its kind, resulting from the collaboration and contributions of the 26 UN agencies, commissions, program, funds, secretariats and conventions that have a significant role in addressing global water concerns.

Published jointly with UNESCO Publishing.

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