



Q

Home ► All Journals ► Geography ► Water International ► List of Issues ► Volume 36, Issue 4 ► Meeting the challenge of wastewater irri ....

#### Water International >

Volume 36, 2011 - Issue 4: Wastewater use in Agriculture: Economics, Risks and Opportunities

1,463214ViewsCrossRef citations to dateAltmetric

Articles

# Meeting the challenge of wastewater irrigation: economics, finance, business opportunities and methodological constraints

## Dennis Wichelns 💟 & Pay Drechsel

Pages 415-419 | Published online: 10 Aug 2011

**L** Cite this article **A** https://doi.org/10.1080/02508060.2011.593732



## Abstract

Many farmers in developing countries use treated or untreated wastewater to irrigate crops, partly in designated irrigation schemes, but mostly on large areas of small farms located along streams passing through or near cities. Much of the wastewater use is informal and unplanned, as farmers divert water from streams that carry untreated or partially treated effluent from cities and towns. The farmers generate good revenue by selling fresh produce that, otherwise, might not be available in urban markets. However, wastewater irrigation also creates health risks for farmers, their families, and consumers. Public officials must consider those risks and the values generated through wastewater irrigation, as they implement policies to protect farmers and consumers from the negative health impacts. Given the increasing scarcity of fresh water in many urban and peri-urban areas of developing countries, the increasing demand for food, and the persistent desire to improve the livelihoods of small-scale farmers, the decisions faced by public officials will require careful analysis. To that end, we describe in this special issue the economics, finance, business opportunities, and methodological constraints that pertain to wastewater irrigation in developing countries.

Keywords:



## Notes

1.Stream water, which often is more diluted, might be less risky than water in canals and drainage ditches.



Information for	Open access
Authors	Overview
R&D professionals	Open journals
Editors	Open Select
Librarians	Dove Medical Press
Societies	F1000Research
Opportunities	Help and information
Reprints and e-prints	Help and contact
Advertising solutions	Newsroom
Accelerated publication	All journals
Corporate access solutions	Books

### Keep up to date

Register to receive personalised research and resources by email





Copyright © 2025 Informa UK Limited Privacy policy Cookies Terms & conditions

Taylor & Francis Group an informa business



Registered in England & Wales No. 01072954 5 Howick Place | London | SW1P 1WG