



Water, Food and Agricultural Sustainability in Southern Africa

Jamie Pittock
R Quentin Grafton
Chris White
Editors



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Water Food And Agricultural Sustainability In Southern Africa

**Paulo Mazzafera, José Laércio
Favarin, Sara Adrián López de Andrade**



Water Food And Agricultural Sustainability In Southern Africa:

Water, Food and Agricultural Sustainability in Southern Africa Jamie Pittock,R. Quentin Grafton,Chris White (Environmental Economist),2014 **Water Markets** Wheeler, Sarah A.,2021-08-27 Exploring water scarcity issues in light of the growing crisis in global water management this book examines the applicability of water markets It provides an overview and understanding of the presence of water markets across the globe analysing the ways in which different countries and regions are grappling with water scarcity Water and Agriculture Sustainability, Markets and Policies OECD,2006-10-23 Explores how both governments and the private sector can expand the role of markets to allocate water used by all sectors and to get agricultural producers to account for the pollution that their sector generates **Climate Change and Water Resources in Africa** Salif Diop,Peter Scheren,Awa Niang,2021-02-15 The focus of this book is on the key water related vulnerabilities to climate change in Africa particularly in its most vulnerable areas exploring potential management responses to such vulnerabilities The African countries are particularly exposed and vulnerable to the negative impacts of climate change with important impacts on water resources and hydrological systems water availability water resource management and sea level variations Already under various anthropogenic pressures the status of water resources in Africa has been changing over the past decades with decreasing water quality falling groundwater levels and variability in rainfall both in terms of timing and intensity Climate change will further accelerate the rate of change affecting the ability of people and societies to respond in a timely manner It is clear that there is no quick fix to the pressures imposed on water resources by climate change Increasing the resilience of ecosystems and communities to extreme events such as flooding and drought and integrating climate change risks and opportunities into development decision making is indeed a key challenge as much a technical climate change one as a political and developmental challenge The book in this regard intends to contribute to the debate around climate change in relation to water resources management in Africa and in particular inform policy decisions and actions that will improve governments and communities ability to manage the challenges of climate change and variability in relation to the aquatic ecosystems that they depend on The knowledge collected in this book will benefit policy makers researchers as well as other stakeholders *Smart Water Management* Henning Bjornlund,Stephanie Kuisma,James E. Nickum,Raya Marina Stephan,2023-05-22 This book contributes to the debate about the suitability and challenges of the Smart Water Management SWM approach Smart Water Management has increasingly been promoted to manage water and wastewater more efficiently and cost effectively by industries and utilities in urban contexts at regional or city scales while reducing overall consumption It is based on the use of Information and Communication Technology ICT to provide real time automated data to resolve water challenges Many of these technologies are complex and costly however and the approach tends to overlook cheaper and less high tech softer approaches to address the same problems Yet there may be opportunities for using them even in resource short rural communities in developing countries The book includes

examples of SWM systems in practice in diverse locations from Korea Mexico Paris the Canary Islands and southern Africa aimed at addressing a diverse set of problems including monitoring water supply to refugees Critical voices highlight the need for smart institutions to accompany smart technologies the absurdity of applying SWM to dysfunctional legacy infrastructure systems whether its adoption raises moral hazards and whether SWM is the latest example of hegemonic masculinity in water management The chapters in this book were originally published in Water International

Environmental Management of Air, Water, Agriculture, and Energy Ahmad Vassel-Be-Hagh, David S.K.

Ting, 2020-04-14 Environmental Management of Air Water Agriculture and Energy brings together the most current state of knowledge on four major elements for sustaining life on planet Earth air water food and energy It examines how green technology aids in mitigating the global water energy and climate change crises including the use of electrostatic force and green infrastructure The concepts of underwater vegetation and aquatic cultivation as well as vertical farms are presented to spark discussion on emerging water energy food nexus lessons experiences and opportunities This book takes a comprehensive global scale approach to examining potential future environmental scenarios and outcomes Features Analyzes the most recent research findings in each of the areas covered Synthesizes the state of the art understanding Recommends ways to strive forward and to shape future research Serves as an educational tool for educators and students Supported by detailed examples and case studies this book serves not only as an up to date source of information for environmental experts and researchers in the field but also as an educational tool for relevant undergraduate and graduate courses It is also suitable for industry professionals concerned with preserving planet Earth for generations to come Integrated

Groundwater Management Anthony J Jakeman, Olivier Barreteau, Randall J Hunt, Jean-Daniel Rinaudo, Andrew

Ross, 2016-08-05 The aim of this book is to document for the first time the dimensions and requirements of effective integrated groundwater management IGM Groundwater management is a formidable challenge one that remains one of humanity's foremost priorities It has become a largely non renewable resource that is overexploited in many parts of the world In the 21st century the issue moves from how to simply obtain the water we need to how we manage it sustainably for future generations future economies and future ecosystems The focus then becomes one of understanding the drivers and current state of the groundwater resource and restoring equilibrium to at risk aquifers Many interrelated dimensions however come to bear when trying to manage groundwater effectively An integrated approach to groundwater necessarily involves many factors beyond the aquifer itself such as surface water water use water quality and ecohydrology Moreover the science by itself can only define the fundamental bounds of what is possible effective IGM must also engage the wider community of stakeholders to develop and support policy and other socioeconomic tools needed to realize effective IGM In order to demonstrate IGM this book covers theory and principles embracing 1 an overview of the dimensions and requirements of groundwater management from an international perspective 2 the scale of groundwater issues

internationally and its links with other sectors principally energy and climate change 3 groundwater governance with regard to principles instruments and institutions available for IGM 4 biophysical constraints and the capacity and role of hydroecological and hydrogeological science including water quality concerns and 5 necessary tools including models data infrastructures decision support systems and the management of uncertainty Examples of effective and failed IGM are given Throughout the importance of the socioeconomic context that connects all effective IGM is emphasized Taken as a whole this work relates the many facets of effective IGM from the catchment to global perspective *Climate, Energy and Water* Jamie Pittock, Karen Hussey, Stephen Dovers, 2015-03-19 With the global population expected to reach nine billion by 2050 our capacity to provide enough food water and energy relies on our understanding and management of the complex interdependencies in the climate energy water nexus This book presents a comprehensive and up to date analysis of the interdependencies between these sectors and the knock on consequences of those interactions for other sectors such as food production and biodiversity conservation The interdisciplinary nature of the book across the three sectors of climate energy and water means that it will be valuable for advanced students researchers and policymakers across a broad range of fields including environmental energy water climate policy environmental economics climate science hydrology ecology and geography

Land and Water Management in Southern Africa Calvin Nhira, Alfred Mapiki, Sello Patrick Rankhumise, 2008 The Southern African Development Community SADC and its Member States are making renewed efforts to revive agriculture in the region Given that much of it is water stressed appropriate and sustainable land and water management practices are vital to achieving this objective Recognising this SADC's Land and Water Management Applied Research and Training Programme has convened two scientific symposiums Held in Lilongwe Malawi in February 2006 the inaugural symposium brought together practitioners from 10 participating SADC countries to deliberate on land and water management for sustainable agriculture and discuss how the most recent research and development advances in land and water management might be made more relevant to policymakers as well as the region's small scale farmers The edited contributions to this first symposium appear in this volume The second symposium was held in Gaborone Botswana in February 2007 and brought together regional experts to discuss opportunities for improving water use and water use efficiency in agriculture in semi arid and arid areas The edited contributions to the second symposium appear in a companion volume entitled *Land and Water Management in Southern Africa Towards Better Water Use in Agriculture in Semi Arid and Arid Areas* AISA 2008 It is hoped that these two volumes will help to disseminate regional expertise on land and water management to a wider audience thus helping policy makers and others to strengthen the agricultural sector in the region and in so doing improve its food security and the wellbeing of its people

Intercropping Systems in Sustainable Agriculture Paulo Mazzafera, José Laércio Favarin, Sara Adrián López de Andrade, 2021-03-30

Climate Change Resilience in Rural Southern Africa Mark Matsa, Lazarus Chapungu, Godwell Nhamo, 2024-12-17 In rural Southern Africa

the livelihoods of millions are intricately linked to the land water and ecosystems that are increasingly under threat from climate change This intensifying threat has exacerbated pre existing vulnerabilities rendering the need for resilience building more critical than ever Emerging scholarship on climate change strategies suggest that building resilience in human and environmental systems is the ideal strategy for combating the climate change induced catastrophes Rural Southern Africa has witnessed both isolated and coordinated efforts by various stakeholders to bolster climate resilience yielding varying degrees of success This book offers a comprehensive examination of the rural Southern African landscape probing the intricate dynamics prospects and challenges associated with building climate resilience It examines how traditional knowledge innovative practices including Artificial Intelligence and sustainable development strategies are converging to create resilient systems The book further highlights the critical role of local communities in addressing climate challenges and offers actionable insights for a more resilient future It emerged that some interventions have managed to build resilience of at risk households communities and systems while others have faced significant challenges In general climate resilience building remains complex and lagging due to increased vulnerabilities induced by global disease emergencies such as COVID 19 increased poverty due to global recessions poor governance corruption and several other internal and external factors Therefore the need to increase cooperation amongst Southern African states to pursue common development goals cannot be overemphasized Rich with case studies expert analyses and systematic reviews this book is an essential read for policymakers researchers and those invested in the future of rural Southern Africa *Water and Sustainable Agriculture*

Iván Francisco García-Tejero,Víctor Hugo Durán-Zuazo,José Luis Muriel-Fernández,Carmen Rocío

Rodríguez-Pleguezuelo,2011-08-03 Irrigated agriculture a vital component of general agriculture supplies fruits vegetables and cereals consumed by humans and grains fed to animals Consequently agriculture is the largest user of fresh water globally and irrigation practices in many parts of the world are biologically economically and socially unsustainable Water management should balance the need for agricultural water and the need for a sustainable environment Water use efficiency is the prime challenge in worldwide farming practices where problems of water shortages are widespread Currently agriculture is undergoing significant changes in innovative irrigation fertilizer technology and agronomic expertise These elements constitute a vital platform for sustainable agricultural success and for preventing environmental damage This review presents several processes linked to environmental irrigation balancing environmental protection with improved agricultural production *Water, Sustainable Development and the Nexus* Velma I. Grover,Amani Alfarra,2019-08-30 Water

is intricately linked with food security energy security and sustainable development As the world is moving towards sustainable development goals it is critical to recognize the role of water in attaining these goals The Water Energy Food Nexus draws attention to the complex and interrelated nature of global resource systems and forces us to think about how a decision in one sector impacts other interlinked sectors as well This book looks at the three dimensions of sustainable

development environment economics and society and how water is linked with them and explores the nexus approach as a framework to look at the issues and identify solutions

Sustainable Agriculture under Drought Stress Hassan Etesami, Yinglong Chen, 2024-10-18 Sustainable Agriculture under Drought Stress Integrated Soil Water and Nutrient Management seamlessly blends cutting edge research with practical applications offering a unique perspective on tackling this urgent challenge Through a multidisciplinary lens this book provides a cohesive and comprehensive understanding of both the current landscape and future prospects Readers will find this book equips them with the knowledge and strategies required to manage soil nutrients and water effectively ensuring the health of both soil and plants especially in arid and semi arid regions where solutions are urgently needed This book offers actionable insights into mitigating the impacts of climate change on agricultural systems making it essential reading for anyone invested in sustainable land management and food security Clarifies mechanisms and proposes solutions for enhancing soil health and fertility irrigation management and crop production in drought stressed environments Presents a diverse array of options for responding to drought stress optimizing plant health and furthering sustainability Explores emerging cropping systems and opportunities

Water - Energy - Food Nexus Narratives and Resource Securities Tafadzwa Mabhaudhi, Aidan Senzanje, Albert T. Modi, Graham Jewitt, Festo Massawe, 2022-05-17 Water Energy Food Nexus Narratives and Resource Securities A Global South Perspective provides a knowledge synthesis on the water energy food WEF nexus focusing primarily on the global south By presenting concepts analytical tools and case studies the book serves as a practical resource for researchers policymakers and practitioners in sustainability and functional roles across all three sectors It addresses key issues related to data availability tools indices metrics and application across multiple scales beginning with a summary of existing knowledge Finally it examines the WEF nexus presents global insights and discusses future considerations and implications This book presents an overview of existing knowledge on the WEF nexus and examines how such research aligns with emerging global WEF nexus perspectives making it ideal for professionals government entities private industry and the general public Offers a conceptual framework on how to better understand the water energy food WEF nexus and its utility in natural resource management and sustainable development Presents advanced analytical tools for the quantification of linkages trade offs and synergies among WEF sectors Utilizes global case studies to illustrate complexities across disciplines geographies and scales

2nd EAI International Conference on Renewable Energy and Sustainable Manufacturing Nguyen Thanh Hai, Ngo Ha Quang Thinh, Nguyen Huu Loc, Le Chi Hiep, 2025-09-30 This book compiles the proceedings of the 2nd EAI International Conference on Renewable Energy and Sustainable Manufacturing ICRESM 2024 held in Ho Chi Minh City Vietnam on November 2 3 2024 The conference provided a collaborative forum for researchers industry experts policymakers and stakeholders to exchange insights innovations and best practices in sustainable technologies aimed at reducing dependence on non renewable resources and advancing Industry 4.0 initiatives The included papers explore global challenges in sustainable

manufacturing energy security and green technologies highlighting applications that contribute to carbon emission reduction environmental protection and economic growth through renewable energy and eco friendly production methods This collection offers valuable perspectives on the latest technological developments methodologies and strategies driving progress in these fields Features the proceedings of the 2nd EAI International Conference on Renewable Energy and Sustainable Manufacturing Showcases advancements in renewable energy and sustainable manufacturing technologies Provides valuable insights for researchers practitioners and policymakers interested in cutting edge innovations and best practices

Sustainable soil fertility practices for smallholder farmers Cosmas Parwada,Hupenyu Allan Mupambwa,Ronald Mandumbu,Arnold Mashingaidze,2023-06-14

Afro-Eurasia: Assessing Sustainability Ray C. Anderson,Louis KotzÃ©,Stephen Morse,2012-10-31 Afro Eurasia Assessing Sustainability focuses on the geographic area where humans originated and first began to make use of the natural world Earth s largest landmass stretching from Portugal in the west across the steppes of Russia and south across Africa to the Cape of Good Hope By examining the history of human expansion as well as 21st century pressures to address ecosystem damage across the region international scholars and regional experts weave sustainability into core curricular subjects The interdisciplinary coverage includes national and regional environmental histories as well as business and commerce migration educational institutions law and government and the lifestyles of diverse populations

Water management for sustainable agriculture Prof. T. Oweis,2018-07-09 Comprehensive review of the range of water resources from groundwater and surface water to rainwater floodwater and waste water Discusses advances in irrigation techniques from surface irrigation to micro drip irrigation and fertigation Assesses methods for optimising agricultural water use in rainfed and other systems

Transforming Agriculture in Southern Africa Richard A. Sikora,Eugene R. Terry,Paul L.G. Vlek,Joyce Chitja,2019-11-27 This book provides a synthesis of the key issues and challenges facing agriculture and food production in Southern Africa Southern Africa is facing numerous challenges from diverse issues such as agricultural transformations growing populations urbanization and climate change These challenges place great pressure on food security agriculture water availability and other natural resources as well as impacting biodiversity Drawing on case studies from Lesotho Malawi Mozambique Namibia South Africa Swaziland Tanzania Zambia and Zimbabwe the chapters in this book consider these challenges from an interdisciplinary perspective covering key areas in constraints to production the most important building blocks of good farming practices and established and emerging technologies This book will be a valuable support for informing new policies and processes aimed at improving food production and security and developing sustainable agriculture in Southern Africa This informative volume will be key reading for those interested in agricultural science African studies rural studies development studies and sustainability It will also be a valuable resource for policymakers governmental and nongovernmental organizations and agricultural practitioners This title has been made available as Open Access under a Creative Commons Attribution Non Commercial No Derivatives

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