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November 2013 Agricultural Science Limpopo

Brendan G. Carr



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Innovation and Development of Agricultural Systems Phokele Maponya, Ndivhuho Tshikovhi, Fulufhelo Netswera, 2024

Zusammenfassung This book focuses on innovations in agriculture that is aimed at eliminating global hunger and poverty and promoting sustainable development of global agriculture Collectively chapters in the book address innovations of BRICS Agricultural Food System future actions of BRICS Agricultural cooperation the impact of epidemics on agricultural investment and trade transactions in BRICS and how BRICS countries can provide solutions for global grain and agriculture governance under the impact of the epidemic In doing so it highlights technological advancement tools and solutions in agribusiness value chain in emerging economies towards the Sustainable Development Goals of the United Nations with a particular focus on SDG2 Zero Hunger Phokele Maponya holds a PhD Environmental Agricultural from the University of South Africa and has more than 15 years Teaching Research and Project Management experience He has acted as a reviewer for various journals including Climate Services Agroforestry Systems African Journal of Business and Economic Research and Journal of Asian and Africa Studies International South Africa Department of Higher Education and Training accredited and served in various journal s editorial boards including Journal of Agricultural Science and Asian Journal of Agricultural Extension Economics and Sociology Ndivhuho Tshikovhi is a Postdoctoral fellow at the Durban University of Technology DUT under the Faculty of Management Sciences He holds a doctorate in social and political sciences from the Universit Libre de Bruxelles Belgium Fulufhelo Netswera is the Executive Dean of the Faculty of Management Sciences at the Durban University of Technology He is the former Director of the North West University Business School Deputy Dean of the Faculty of Management Sciences at the Cape Peninsula University of Technology and Director of the South African BRICS Think Tank SABTT He holds a doctoral degree in sociology of development and research in the broad areas of economic development and entrepreneurship

Informal Sector Innovations Mammo Muchie, Saradindu Bhaduri, Angathevar Baskaran, Fayaz Ahmad Sheikh, 2017-10-02 It is well documented that the space of informal economic activity is rising across the globe This rise has been particularly significant in the least developed and developing countries especially after the onset of neo liberal policies and withdrawal of welfare state There has also been a shift in academic thinking on informal sector with attempts being made to understand the contribution of informal sector in generating employment and economic growth rather than focusing solely on exploitative labour conditions in these economic activities Indeed with the retreat of welfare state and the introduction of contract labour in the formal sector many issues related to occupational hazards and improper labour conditions do not remain unique to the informal sectors of the economy particularly in less developed countries This volume addresses a specific concern the issue of knowledge generation and innovative activities which lies at the core of sustained competitive advantage of these activities The chapters in this book were originally published in the African Journal of Science Technology Innovation and Development

Maize Germplasm Mohamed A. El-Esawi, 2018-05-09 Maize is an

important staple food crop worldwide It is the third most important cereal crop after wheat and rice and is economically used for both livestock feeds and human consumption The latest maize research has opened up new opportunities for crop improvement This book brings together recent work and advances that have recently been made in the dynamic fields of genetic characterization molecular breeding genetic engineering technologies and mapping of agronomic traits of global maize germplasm It also provides new insights into and sheds new light regarding the current research trends and future research directions in maize This book will provoke interest in many readers researchers and scientists who can find this information useful for the advancement of their research works toward maize improvement *Sustainable Agricultural Marketing and Agribusiness Development* Brighton Nyagadza,Tanyaradzwa Rukasha,2023-10-31 The future of Africa and the whole globe is dependent on sustainable agribusiness management This book offers insights to a wide range of agricultural marketing and agribusiness management practices with a focus on sustainability It is designed to provide academics and graduate students in business studies with a comprehensive treatment of the nature of agricultural marketing and agribusiness management as well as sustainability transitions and related practices in certain regions of the world particularly in Africa The text also serves as an invaluable resource for agricultural marketing practitioners requiring more than anecdotal evidence on the structure and operation of agricultural marketing and agribusiness management as well as sustainability in different organisations and geographical areas It allows the reader to compare and contrast agricultural marketing and agribusiness management as well as sustainability practices across different research methodologies and settings The book provides a unique mix of theory reviews primary research findings and case studies *Oilseed Cake for Nematode Management* Faheem Ahmad,Rakesh Pandey,2023-07-25 Plant parasitic nematodes PPNs devastate many crop plants causing billions of dollars in agricultural losses each year Effective management methods to combat PPNs are synthetic nematicides but most are non specific and notoriously toxic and threaten the soil ecosystem groundwater and human health The plant by products such as oilseed cakes are sources of bioactive compounds with nematicidal potential Oilseed cakes are an excellent organic fertilizer and their bioactive compounds are now gaining importance as they are safe for the environment This book provides the most comprehensive and up to date review of research on the use of oilseed cakes against PPNs The complete knowledge of better uses of oilseed cakes for nematode management is necessary for developing effective nematode control options to reduce yield loss Key features Describes plant by products such as oilseed cakes and their potential applications Explores bioactive compounds from oilseed cakes for agricultural biofertilization and nematicidal activity Discusses nematode management in vegetable fruit and legume crops Covers the use of oilseed cakes and management of the associated challenges This volume is designed and edited to serve as an invaluable resource text for readers associated with plant nematology plant pathology plant protection and agricultural science including researchers teachers advanced undergraduates and graduate students and even agricultural extension agents and farmers

Agricultural and Climate Change Adaptation Law in Africa Habib Sani Usman, 2025-02-17 This book presents an analysis of climate change and agricultural laws in Kenya, Nigeria, and South Africa in order to determine whether they adequately addressed the concept of agricultural adaptation. Agriculture is one of the sectors of the economy that is contributing to climate change, and at the same time, the sector is heavily impacted by climate change. Therefore, agricultural adaptation is required. Focusing on three countries, this book provides a novel comparative examination of how and to what extent the law promotes agriculture-focused adaptation in these countries. The role of the law in addressing issues such as water management strategies, soil conservation methods, and crop production methods is discussed. This book identifies gaps in the regulatory frameworks for agricultural adaptation and highlights the lack of adaptive capacity of African agriculture due to weak or non-existing legal frameworks. It discusses ways to remedy these gaps through specific on-farm adaptation strategies, legislative amendments to consolidate all relevant national climate change-related policies and laws with agricultural policies and laws that have relevant provisions on adaptation as medium-term solutions, and the development of a specific framework law for agriculture-focused adaptation. Incorporating essential agricultural adaptation strategies could perhaps be enacted as long-term solutions to the regulatory gaps. This book will be of great interest to students and scholars of law, climate change, food, and agriculture, sustainable development, and African studies.

Climate Change and Rainfall Extremes in Africa Victor Ongoma, 2025-04-21 Climate Change and Rainfall Extremes in Africa: Occurrence, Impacts, and Adaptation provides the latest developments on extreme rainfall in Africa along with an analysis of current impacts, future implications, and community adaptations. The book's chapters are organized into three parts: 1. Understanding Rainfall Extremes, 2. Regional Rainfall and Hydrological Extremes, and 3. Prediction, Impacts, and Adaptation to Rainfall Extremes. Specific sections examine rainfall variability in Africa and across the world, how climate change has contributed to the increasing severity of events, focus on different regions, and various meteorological extremes including tropical cyclones, drought, flooding, rising water levels, and changes in rainfall concentration. Final sections look ahead to the future of forecasting rainfall, economic implications, damage assessment, adaptation, community resilience, and risk reduction measures. This timely resource will deepen readers' understanding of how climate change and extreme rainfall in Africa and elsewhere are impacting communities and what can be done to mitigate the effects. Provides a conceptual framework that gives readers an interdisciplinary understanding of climate change and rainfall extremes in Africa. Includes case studies that offer practical examples and real-world data. Presents end-of-chapter summaries that highlight findings and future implications.

Global Degradation of Soil and Water Resources Rui Li, Ted L. Napier, Samir A. El-Swaify, Mohamed Sabir, Eduardo Rienzi, 2022-01-29 This book focuses on soil and water conservation at global scale. It is a serious environmental problem that will threaten the socio-economic well-being of the majority of global population in the future. The book examines the current situation of land degradation in multiple regions of the world and offers alternative approaches to solve the problems through sharing

advanced technologies and lessons learned It provides comprehensive assessment on characteristics level and effect of degradation in different regions It s a highly informative reference both for researchers and graduate students **World Social Science Report 2013 Changing Global Environments** International Social Science Council,United Nations Educational, Scientific and Cultural Organization,2013-11-15 This book represents a comprehensive overview of the field gathering the thoughts and expertise of hundreds of social scientists from around the world This edition focuses on the transformative role of the social sciences in confronting climate and broader processes of environmental change **World Social Science Report 2013** UNESCO,ISSC,2013-11-15 Produced by the International Social Science Council ISSC and UNESCO and published by the OECD the 2013 World Social Science Report represents a comprehensive overview of the field gathering the thoughts and expertise of hundreds of social scientists from around the world This edition focuses on the transformative role of the social sciences in confronting climate and broader processes of environmental change and in addressing priority problems from energy and water biodiversity and land use to urbanisation migration and education The report includes 100 articles written by 150 authors from 41 countries all over the world Authors represent some 24 disciplines mainly in the social sciences The contributions highlight the central importance of social science knowledge for environmental change research as a means of understanding changing environments in terms of social processes and as framework for finding concrete solutions towards sustainability Climate Change and Agricultural Development Udaya Sekhar Nagothu,2016-07-15 Two of the greatest current challenges are climate change and variability and food security Feeding nine billion people by 2050 will require major efforts aimed at climate change adaptation and mitigation One approach to agriculture has recently been captured by the widely adopted term of Climate Smart Agriculture CSA This book not only explains what this entails but also presents practical on the ground studies of practices and innovations in agriculture across a broader spectrum including agroecology and conservation agriculture in less developed countries It is shown that CSA is not a completely new science and a number of its recommended technologies have been used for some time by local farmers all over the world What is relevant and new is the approach to exploit their adaptation and mitigation potential However a major limitation is the lack of evidence based knowledge that is necessary for policy makers to prepare strategies for adaptation and mitigation This book assembles knowledge of CSA agroecology and conservation agriculture and perspectives from different regions of the world to build resilient food systems The first part analyzes the concept opportunities and challenges and provides a global perspective drawing particularly on studies from Africa and Asia The second part of the book showcases results from various studies linked to soil water and crop management measures from an ongoing program in India as well as experiences from other regions The third section assesses the needs for an enabling policy environment mainstreaming gender and sime final recommendations for up scaling and or out scaling innovations

Emerging Challenges to Food Production and Security in Asia, Middle East, and Africa Mohamed Behnassi,Mirza

Barjees Baig, Mahjoub El Haiba, Michael R. Reed, 2021-07-28 This book as a part of a series of CERES publications provides a multi regional and cross sectoral analysis of food and water security especially in the era of climate risks biodiversity loss pressure on scarce resources especially land and water increasing global population and changing dietary preferences It includes both conceptual research and empirically based studies which provides context specific analyses and recommendations based on a variety of case studies from Africa Middle East and Asia regarding the fostering of long term resilience of food and water security The core approach of the volume consists of assessing the structural drivers affecting the vulnerability of food and water security under the persistence of current trends identifying the best solutions and practices to enhance the climate resilience for food and water security and fostering climate adaptation and biodiversity protection for food and water security

Big Data Analytics and Its Impact on Basin Water Agreements and International Water Law Imad Antoine Ibrahim, Rafael Dean Brown, Jon Truby, 2022-01-17 Big Data Analytics and Its Impact on Basin Water Agreements and International Water Law represents the state of the art when it comes to the use of disruptive technologies in the transboundary water context and its impact on international water law Indeed the case study provided in this manuscript which represents the most relevant example where big data is being used in the transboundary water context highlights this reality The readers will understand current and also future potential impact of big data on water resources in the general context of disruptive technologies

Redefining Education and Development Kaitano Dube, 2024-10-18 The book aligns with the United Nations Sustainable Development Goals SDGs particularly Goal 4 which focuses on quality education It explores the evolving role of education as a critical driver for achieving all 17 SDGs by providing a platform for discussing innovative educational models and theories that foster sustainable development The book takes an interdisciplinary approach merging educational theory developmental practice and human psychology to address complex global challenges hindering sustainable development The book includes case studies and empirical research such as exploring student entrepreneurship in the agricultural sector and the factors bridging the gap between entrepreneurial intention and venture creation These examples provide readers with practical applications of theoretical concepts and demonstrate the real world impact of educational innovations which is at the core of education delivery for all and how education touches on other areas of the SDGs The book offers valuable insights for policymakers educators and development practitioners by presenting research and theory based analyses It suggests ways to improve the academic environment to foster entrepreneurship and innovation which are key to economic development and job creation especially in regions with high youth unemployment rates The content suggests educational reforms that are responsive to the changing societal and economic landscapes The book s blend of theory and practice targets a broad audience including academic scholars students development agencies non governmental organisations and policymakers It seeks to engage these diverse readers in a conversation about the future of education and its role in achieving sustainable development In summary the book seeks to

provide a comprehensive exploration of the nexus between education development and human needs in the context of the SDGs offering innovative perspectives and practical solutions to equip readers to contribute to sustainable global development

Tourism Planning and Development in South Asia Dimitrios Styliadis, Boopen Seetanah, 2021-04-09 Tourism has huge significance as a global economic and social phenomenon and given the growing reliance on the industry by service dependent economies around the world the lack of focus on tourism planning and development in South Asia is surprising Current issues including social environmental and cultural aspects underpinned by security challenges have defined the tourism development narratives in many South Asian countries over the last decades and lead to fluid demand and supply patterns The appetite for and reliance on tourism growth is seen regardless of the numerous challenges faced by the region Despite a rich and steady history of tourism and demand driven by numerous pull destinations most South Asian countries have not invested or benefitted from global tourism growth trends

Climate Change Adaptation and Development Tor Håkon Inderberg, Siri Eriksen, Karen O'Brien, Linda Sygna, 2014-11-20 Climate change poses multiple challenges to development It affects lives and livelihoods infrastructure and institutions as well as beliefs cultures and identities There is a growing recognition that the social dimensions of vulnerability and adaptation now need to move to the forefront of development policies and practices This book presents case studies showing that climate change is as much a problem of development as for development with many of the risks closely linked to past present and future development pathways Development policies and practices can play a key role in addressing climate change but it is critical to question to what extent such actions and interventions reproduce rather than address the social and political structures and development pathways driving vulnerability The chapters emphasise that adaptation is about much more than a set of projects or interventions to reduce specific impacts of climate change it is about living with change while also transforming the processes that contribute to vulnerability in the first place This book will help students in the field of climate change and development to make sense of adaptation as a social process and it will provide practitioners policymakers and researchers working at the interface between climate change and development with useful insights for approaching adaptation as part of a larger transformation to sustainability

Agricultural Adaptation to Climate Change in Africa Cyndi Spindell Berck, Peter Berck, Salvatore Di Falco, 2018-03-05 A changing climate is likely to have a drastic impact on crop yields in Africa The purpose of this book is to document the effects of climate change on agriculture in Africa and to discuss strategies for adaptation to hotter weather and less predictable rainfall These strategies include promoting opportunities for farmers to adopt technologies that produce optimal results in terms of crop yield and income under local agro ecological and socioeconomic conditions The focus is on sub Saharan Africa an area that is already affected by changing patterns of heat and rainfall Because of the high prevalence of subsistence farming food insecurity and extreme poverty in this region there is a great need for practical adaptation strategies The book includes empirical research in Ethiopia Kenya South Africa

Tanzania and other Sub Saharan countries and the conclusion summarizes policy relevant findings from the chapters It is aimed at advanced students researchers extension and development practitioners and officials of government agencies NGOs and funding agencies It also will provide supplementary reading for courses in environment and development and in agricultural economics

Grounding Global Climate Change Heike Greschke, Julia Tischler, 2014-09-25 This book traces the evolution of climate change research which long dominated by the natural sciences now sees greater involvement with disciplines studying the socio cultural implications of change In their introduction the editors chart the changing role of the social and cultural sciences delineating three strands of research socio critical approaches which connect climate change to a call for cultural or systemic change a mitigation and adaption strand which takes the physical reality of climate change as a starting point and focuses on the concerns of climate change affected communities and their participation in political action and finally culture sensitive research which places emphasis on indigenous peoples who contribute the least to the causes of climate change who are affected most by its consequences and who have the least leverage to influence a solution Part I of the book explores interdisciplinarity climate research and the role of the social sciences including the concept of ecological novelty an assessment of progress since the first Rio climate conference and a global village case study from Portugal Part II surveys ethnographic perspectives in the search for social facts of global climate change including climate and mobility in the West African Sahel and human non human interactions and climate change in the Canadian Subarctic Part III shows how collaborative and comparative ethnographies can spin global webs of local knowledge describing case studies of changing seasonality in Labrador and of rising water levels in the Chesapeake Bay These perspectives are subjected to often amusing always incisive analysis in a concluding chapter entitled You Ain t Seen Nothing Yet a death defying look at the future of the climate debate The contributors engage critically with the research subject of climate change itself reflecting on their own practices of knowledge production and epistemological presuppositions Finely detailed and sympathetic to a broad range of viewpoints the book sets out a profile for the social sciences and humanities in the climate change field by systematically exploring methodological and theoretical challenges and approaches

Climate change and agriculture in the Sudan: Impact pathways beyond changes in mean rainfall and temperature Siddig, Khalid, Stepanyan, Davit, Wiebelt, Manfred, Zhu, Tingju, Grethe, Harald, 2018-09-26 Several environmental changes have occurred in the Sudan in the past several are ongoing and others are projected to happen in the future The Sudan has witnessed increases in temperature floods rainfall variability and concurrent droughts In a country where agriculture which is mainly rainfed is a major contributor to gross domestic product foreign exchange earnings and livelihoods these changes are especially important requiring measurement and analysis of their impact This study not only analyzes the economy wide impacts of climate change but also consults national policy plans strategies and environmental assessments to identify interventions which may mitigate the effects We feed climate forcing water demand and macro socioeconomic trends into a modelling suite that includes models for global

hydrology river basin management water stress and crop growth all connected to the International Model for Policy Analysis of Agricultural Commodities and Trade IMPACT The outcomes of this part of the modeling suite are annual crop yields and global food prices under various climate change scenarios until 2050 The effects of such changes on production consumption macroeconomic indicators and income distribution are assessed using a single country dynamic Computable General Equilibrium CGE model for the Sudan Additionally we introduce yield variability into the CGE model based on stochastic projections of crop yields until 2050 The results of the model simulations reveal that while the projected mean climate changes bring some good news for the Sudan extreme negative variability costs the Sudan cumulatively between 2018 and 2050 US 109 5 billion in total absorption and US 105 5 billion in GDP relative to a historical mean climate scenario without climate change

Nutraceuticals from Fruit and Vegetable Waste Vidisha Tomer, Navnidhi Chhikara, Ashwani Kumar, Anil Panghal, 2024-05-29 NUTRACEUTICALS FROM FRUIT AND VEGETABLE WASTE Nutraceuticals from Fruit and Vegetable Waste the latest volume in the series Bioprocessing in Food Science is an essential reference on the valorization of fruit and vegetable waste and the state of the art for fruit and vegetable processing Bioprocessing in Food Science is a series of volumes covering the entirety of unit operations in food processing This latest volume disseminates the recent advances breakthroughs and challenges of the valorization of fruit and vegetable industry waste Numerous researchers have studied fruit and vegetable processing and waste valorization in general but there is little work available to scientists and engineers regarding real world solutions to practical everyday problems in this industry The knowledge has to be made available in book format to facilitate academia researchers and the food manufacturing industry to utilize waste for extraction of valuable polysaccharides additives and nutraceuticals This groundbreaking new volume is a comprehensive compilation of all the research that has been carried out so far their practical applications and the future scope of research An earnest effort to capture every possible detail and present an up to date compilation of scientific literature including their own research work for the benefit of the science has been carried out by the editors and experts in their respective fields who contributed Students researchers product developers and industry professionals will find the book an invaluable resource and a one of a kind tool

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