

Sustainable Agriculture In Africa

Sasakawa Africa Association. Workshop

Sustainable Agriculture In Africa:

Conservation Agriculture in Africa Saidi Mkomwa, Amir H. Kassam, 2022-01-11 Tillage agriculture has led to widespread soil and ecosystem degradation globally and more particularly in the developing regions This is especially so in Africa where traditional agricultural practices have become unsustainable due to severe exploitation of natural resources with negative impacts on the environment and food system In addition agricultural land use in Africa today faces major challenges including increased costs climate change and a need to transform to more sustainable production intensification systems Conservation Agriculture has emerged as a major alternative sustainable climate smart agriculture approach in Africa and has spread to many African countries in the past decade as more development and research including in sustainable mechanization has enabled its extension and uptake It is key to transforming Africa's agriculture and food system given its ability to restore soil health biodiversity and productivity of millions of smallholder farms as well as larger scale farms This book is aimed at all agricultural stakeholders in the public private and civil sectors in Africa engaged in supporting the transformation of conventional tillage agriculture to Conservation Agriculture The book will be of interest to researchers academics students development stakeholders public and private sector investors and policy makers as well as institutional libraries across the world Building a Resilient and Sustainable Agriculture in Sub-Saharan Africa Abebe Shimeles, Audrey Verdier-Chouchane, Amadou Boly, 2018-06-01 What are the challenges and action points for agricultural sustainability in Sub Saharan Africa This open access collection of papers offers technical analyses policy recommendations and an overview of success stories to date Each carefully selected paper provides valuable insights for improved policy making and defines relevant strategic priorities on Africa's sustainable transformation process which is in line with the international development agenda Although agriculture remains the main source of income for Africa s population the sector is rain fed subjecting it to the vagaries of weather and climate change This volume demonstrates the rationale of developing a competitive inclusive and sustainable agribusiness sector for Africa's food security and structural transformation From the impact of Bioenergy crop adoption and Drought Index Insurance to Agro Industrialization this volume is important reading for individual researchers academic associations and professional bodies interested in African agricultural development From Subsistence to Sustainable Agriculture in Africa Sasakawa Africa Association. Workshop, 2004 Building a Resilient and Sustainable Agriculture in Sub-Saharan Africa Amadou Boly, Audrey Verdier-Chouchane, Abebe Shimeles, 2020-10-09 What are the challenges and action points for agricultural sustainability in Sub Saharan Africa This collection of papers offers technical analyses policy recommendations and an overview of success stories to date Each carefully selected paper provides valuable insights for improved policy making and defines relevant strategic priorities on Africa's sustainable transformation process which is in line with the international development agenda Although agriculture remains the main source of income for Africa's population the sector is rain fed subjecting it to the

vagaries of weather and climate change This volume demonstrates the rationale of developing a competitive inclusive and sustainable agribusiness sector for Africa s food security and structural transformation From the impact of Bioenergy crop adoption and Drought Index Insurance to Agro Industrialization this volume is important reading for individual researchers academic associations and professional bodies interested in African agricultural development This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use All rights not granted by the work s license are retained by the author or authors Nutrition, Sustainable Agriculture and Climate Change in Africa Gbadebo Odularu, 2020-09-19 In Sub Saharan Africa the rapidly evolving COVID 19 increasing population growth and exponential expansion in demand for agricultural commodities are putting pressure on available resources thereby posing immense challenges to the region s capacity to achieve nutritional security related to United Nations Sustainable Development Goals SDGs Although Sub Saharan Africa boasts vast fertile and uncultivated arable lands its capacity to contribute to feeding its current and future population is being seriously undermined by factors such as poor adoption and utilization of innovations and digital tools climate change impact environmental degradation weak political will limited interest in farming lack of government support and more In spite of these constraints sustainable agriculture food security and nutrition security in Sub Saharan Africa can be achieved by adopting a multi pronged approach which includes improved agricultural mechanization adoption of high yielding crop varieties use of information technology public investments in improved technologies and rural infrastructure funding This edited volume provides innovative policy tools for enhancing Sub Saharan Africa's capacity to achieve sustainable agriculture food security and nutrition security in the digital age and in the face of climate variability Furthermore this book presents smart strategies for increased agricultural production reduced food waste and enhanced nutritional outcomes by harnessing the latest discoveries in agricultural research education and Transforming Agriculture in Southern Africa Richard A. Sikora, Eugene R. Terry, Paul L.G. advisory services 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 CCBY NC ND license and can be accessed here https www taylorfrancis com books e 9780429401701 Conservation Agriculture for Africa Amir H Kassam, Saidi Mkomwa, Theodor Friedrich, 2016-12-14 Tillage agriculture has led to widespread soil and ecosystem degradation globally This is especially so in Africa where traditional and modern tillage based agricultural practices have become unsustainable due to severe disturbance and exploitation of natural resources with negative impacts on the environment and rural livelihoods In addition agriculture in Africa today faces major challenges including increased costs of production and energy the effects of climate change and the lack of an effective paradigm for sustainable intensification especially for small and medium size holdings Africa is facing a serious challenge to food security and as a continent has not advanced towards eradicating hunger In addition the population is still growing much faster than on most other continents This pressure has led to the emergence of no till conservation agriculture as a serious alternative sustainable agriculture paradigm In Africa in recent years conservation agriculture techniques and methods have spread to many countries as greater development education and research effort are directed towards its extension and uptake This book is aimed at agricultural researchers and scientists educationalists and agricultural service providers institutional leaders and policy makers working in the fields of sustainable agriculture and international development and also at agroecologists conservation scientists and those working on ecosystem services Family Food Production in Africa United States. Congress. House. Select Committee on Hunger, 1986 Sustainable Agriculture in Africa ,1990 Agricultural Mechanization: A Framework for Africa Food and Agriculture Organization of the United Nations, African Union, 2019-03-13 This framework presents ten interrelated principles elements to guide Sustainable Agricultural Mechanization in Africa SAMA Further it presents the technical issues to be considered under SAMA and the options to be analysed at the country and sub regional levels The ten key elements required in a framework for SAMA are as follows The analysis in the framework calls for a specific approach involving learning from other parts of the world where significant transformation of the agricultural mechanization sector has already occurred within a three to four decade time frame and developing policies and programmes to realize Africa's aspirations of Zero Hunger by 2025 This approach entails the identification and prioritization of relevant and interrelated elements to help countries develop strategies and practical development plans that create synergies in line with their agricultural transformation plans Given the unique characteristics of each country and the diverse needs of Africa due to the ecological heterogeneity and the wide range of farm sizes the framework avoids being prescriptive

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