

NATURAL RESOURCES MANAGEMENT IN AFRICAN AGRICULTURE

UNDERSTANDING AND IMPROVING CURRENT PRACTICES




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Natural Resource Management In African Agriculture Understanding And Improving Current Practices

**Bekele Shiferaw, H. Ade Freeman, Scott
M. Swinton**



Natural Resource Management In African Agriculture Understanding And Improving Current Practices:

Natural Resources Management in African Agriculture Christopher Brendan Barrett, Dr. Frank Place, Abdillahi A. Aboud, 2002 This book consists of selected edited and revised papers from a workshop held at ICRAF in July 2000 It synthesizes existing information on the adoption of natural resource management investments and strategies such as soil fertility improvements or erosion control for agriculture in Sub Saharan Africa It also critically examines current analytical methods and generates research and policy recommendations Contents include o Farmers objectives and learning processes o Willingness and capacity to make long term investments o Economic incentives and the importance of the resource base o The agroecological institutional and policy context o Towards improved NRM in African agriculture **Natural Resources Management in Agriculture** Bekele Shiferaw, H. Ade Freeman, Scott M. Swinton, 2005 In response to increasing concerns about the degradation of natural resources and the sustainability of agriculture many research programmes have been established in natural resource management NRM However although methods for evaluating the impacts of crop improvement technologies are well developed there is a dearth of methods for evaluating the impacts of NRM interventions This is partly due to the complexity of interactions among natural resources spatial and temporal dimensions of impact and the valuation of direct and indirect environmental costs and benefits This book discusses the unique features and methodological difficulties of NRM impact assessment It examines the strengths and weaknesses of various impact assessment approaches including econometric bio economic and more direct methods It also assesses and identifies data requirements for developing impact indicators and recommends suitable methodologies for assessing the impacts of NRM technologies on issues such as soil and water conservation and watershed and biodiversity management International Research on Natural Resource Management Hermann Waibel, David Zilberman, 2007-01-01 Over the past two decades significant investment has been made into agriculture related natural resource management research in developing countries This collection of case studies establishes a methodological foundation for impact assessments of NRMR through a discussion of research conducted by the CGIAR around the world *Successes in African Agriculture* Haggblade, Steven, Hazell, Peter B. R., 2010-01-01 Sub Saharan Africa is one of the poorest regions of the world Because most Africans work in agriculture escaping such dire poverty depends on increased agricultural productivity to raise rural incomes lower food prices and stimulate growth in other economic sectors Per capita agricultural production in sub Saharan Africa has fallen however for much of the past half century *Successes in African Agriculture* investigates how to reverse this decline Instead of cataloging failures as many past studies have done this book identifies episodes of successful agricultural growth in Africa and identifies processes practices and policies for accelerated growth in the future The individual studies follow developments in among other areas the farming of maize in East and Southern Africa cassava across the middle belt of Africa cotton in West Africa horticulture in Kenya and dairying in East Africa Drawing on these case studies and on consultations with agricultural

specialists and politicians from across sub Saharan Africa undertaken in collaboration with the African Union's New Partnership for Africa's Development the contributors identify two key determinants of positive agricultural performance agricultural research to provide more productive and sustainable technologies to farmers and a policy framework that fosters market incentives for increasing production The contributors discuss how the public and private sectors can best coordinate the convergence of both factors Given current concerns about global food security this book provides timely and important resources to policymakers and development specialists concerned with reversing the negative trends in food insecurity and poverty in Africa

Strategies for Sustainable Land Management in the East African Highlands J. Pender, Dr. Frank Place, Simeon Ehui, 2006 Deforestation overgrazing and unsustainable methods of cultivation are threatening agriculture and food security in the highlands of East Africa In response economists and other development professionals have turned their attention to combating the problem

Economics of Poverty, Environment and Natural-Resource Use Rob B. Dellink, Arjan Ruijs, 2008-03-25 Reduction of poverty is a tremendous and persistent challenge for the global community Given that the livelihood of millions is at stake there is an urgent need to reconsider the causes of and the remedies for poverty Poverty and its reduction are closely linked to the natural resources base The quality and bounty of the local environment certainly affect living conditions of the poor and their poverty is often seen as a contributing factor to the degraded condition of the local environment Teasing apart the direction of causality in this resource poverty nexus is a serious empirical challenge This book contributes to an improved understanding of the economic dimensions of environmental and natural resource management and poverty alleviation The ten chapters of the book offer an overview of the current knowledge concerning the relation between poverty environment and natural resource use Three sides of the debate receive particular attention First the relation between resource use and poverty is discussed from a theoretical point of view Second it is questioned whether payments for environmental services or considering values of resources can be an effective tool for stimulating both sustainable resource use and poverty alleviation Third alternative strategies to break the land degradation poverty cycle are discussed

Vulnerable Places, Vulnerable People Jonathan A. Cook, 2010-01-01 the case studies and subsequent summarizing discussions provide interesting insights on the many interactions of trade poverty and the environment digestible also for those without an academic background in economics Quarterly Journal of International Agriculture While some argue that trade liberalization has raised incomes and led to environmental protection in developing countries others claim that it generates neither poverty reduction nor sustainability The detailed case studies in this book demonstrate that neither interpretation is universally correct given how much depends on specific policies and institutions that determine on the ground outcomes Drawing on research from six countries around the developing world the book also presents the unique perspectives of researchers at both the world's largest development organization The World Bank and the world's largest conservation organization World Wildlife Fund on the debate over trade liberalization and its effects on poverty and the

environment The authors trace international trade rules and events down through national development contexts to investigate on the ground outcomes for real people and places The studies underscore the importance of evaluating trade from a perspective that pays attention to environmental and social vulnerability and understands the linkages between poverty reduction and environmental protection The lessons drawn provide a critical first step in developing the appropriate response options needed to ensure that trade plays a positive role in promoting truly sustainable development Academics and students in environmental economics development economics and agriculture as well as policymakers and those in development institutions will appreciate this groundbreaking work

Improved Fallows in Eastern Zambia: History, Farmer Practice and Impacts Freddie Kwesiga, Steven Franzel, Paramu Mafongoya, Olu Ajayi, Donald Phiri, Roza Katanga, Elias Kuntashula, Frank Place, and Teddy Chirwa., **Agriculture and Environment for Developing Countries** Moyo, B.H.Z.,2014-05-08 This book is about indigenous ways of farming in Northern Malawi in the face of modernization and globalization pressures It also impacts modernization and globalization in relation to agriculture and environment in the developing countries laying bare their impacts on smallholder farmers agriculture in general industry and the environment

Rural Development Policies and Sustainable Land Use in the Hillside Areas of Honduras: A Quantitative Livelihoods Approach Jansen, Hans G. P.,Pender, John L.,Damon, Amy,Schipper, Robert A.,2006 Poverty is deep and widespread in Honduras This is especially the case in the hillside areas home to one third of the country's population the majority of whom earn their living through agriculture While both policymakers and donors are under strong pressure to provide adequate interventions they require guidance on what drives sustainable rural productivity growth how to prioritize expenditures and how to formulate effective development strategies In this report the authors develop an integrated econometric framework based on the livelihoods concept and demonstrate how it can be used as a policy targeting tool Using this framework the authors provide policymakers and stakeholders with empirical information on the livelihood strategies currently employed in the hillside areas of Honduras existing opportunities for alleviating poverty and potential priorities for policy and investments Principles of Sustainable Soil Management in Agroecosystems Rattan Lal,B.A. Stewart,2013-06-10 With the use of high level soil management technology Africa could feed several billion people yet food production has generally stagnated since the 1960s No matter how powerful the seed technology the seedling emerging from it can flourish only in a healthy soil Accordingly crop yields in Africa South Asia and the Caribbean could be doubled or tripled through adoption of technologies based on laws of sustainable soil management Principles of Sustainable Soil Management in Agroecosystems describes the application of these laws to enhance ecosystem services while restoring degraded soils and promoting sustainable use With chapters contributed by world class soil scientists ecologists and social scientists this book outlines critical changes in management of agricultural soils necessary to achieve food security and meet the food demands of the present and projected future population These changes include conversion to no till and conservation agriculture

adoption of strategies of integrated nutrient management water harvesting and use of drip sub irrigation complex cropping farming systems such as cover cropping and agroforestry and use of nano enhanced fertilizers The book is based on the premise that it is not possible to extract more from a soil than what is put into it without degrading its quality The strategy is to replace what is removed respond wisely to what is changed and be pro active to what may happen because of natural and anthropogenic perturbations The chapters which exemplify these ideas cover a range of topics including organic farming soil fertility crop symbiotic soil microbiota human driven soil degradation soil degradation and restoration carbon sink capacity of soils soil renewal and sustainability and the marginality principle Strategies for Sustainable Land Management and Poverty Reduction in Uganda Ephraim Nkonya,2004-01-01 References pp 123 136 *Indigenous Fruit Trees in the Tropics*

Festus K. Akininifesi,2008 This book comprises 5 parts and 21 chapters discussing the domestication of indigenous fruit trees in Africa Oceania Latin America and Asia and describes the biophysical and socio economic aspects of Miombo fruit trees

The Non-Western World Pradyumna P. Karan,2004-12-30 Through a cross cultural and multi disciplinary approach this introductory textbook focuses on critical issues of development environment and cultural conflicts facing most area of the non Western world Areas covered include China Japan Southeast Asia the Indian subcontinent the Middle East and sub Saharan Africa

World Agroforestry Into the Future Dennis P. Garrity,2006 Adapting to Climate Uncertainty in African Agriculture Stephen Whitfield,2015-08-20 Future climatic and agro ecological changes in Africa are uncertain and associated with high degrees of spatial and temporal variability and this change is differently simulated within divergent climate crop models and in controlled crop breeding stations Furthermore uncertainty emerges in local contexts not just in response to climatic systems but to social economic and political systems and often with implications for the appropriateness and adoption of technologies or the success of alternative cropping systems This book examines the challenges of adaptation in smallholder farming in Africa analysing the social economic political and climatic uncertainties that impact on agriculture in the region and the range of solutions proposed Drawing on case studies of genetically modified crops conservation agriculture and other climate smart solutions in eastern and southern Africa the book identifies how uncertainties are framed from above as well experienced from below by farmers themselves It provides a compelling insight into why ideas about adaptation emerge from whom and with what implications This book offers a unique perspective and will be highly relevant to students of climate change adaptation food security and poverty alleviation as well as policy makers and field practitioners in international development and agronomy

Insurance Against Poverty World Institute for Development Economics Research,2005 Poor people in developing countries are often affected by droughts floods illness crop failure job loss and economic downturns Much of their energy goes into coping with these shocks and into day to day survival While insurance and credit markets combined with widespread social security provide an important cushion against poverty in rich countries the need for immediate survival may lock the poor into persistent poverty in developing countries The poor in developing

countries do have informal mechanisms to cope with risk and misfortune. These are based on income diversification, risk avoidance, self insurance by saving together with family and community based mutual assistance. Nevertheless the scope of these mechanisms remains limited. Repeated individual specific shocks such as illness or pests or covariate risks associated with drought, flood or recession undermine the ability of individuals and their families to cope with risk. We now know much more about vulnerability to risk and how poor people cope. Even more importantly we have learned much about the large long term consequences of these risks which condemn many to persistent poverty and excludes them from economic growth. But there is much that can be done. The micro level studies that underpin this book offer new insights on how effective public action could be more effective in protecting the vulnerable against persistent poverty. Policy should focus on providing a comprehensive menu of ex ante and post crisis protection mechanisms including new forms of insurance, savings, safety nets and the means to strengthen the poor's asset base. Local communities have a big role to play, public funds should not be used to replace indigenous community based support networks rather they should be used to build on the strengths of these networks to ensure broader and more effective protection. With numerous thematic chapters and case studies of both best practice and of failure from a mix of low income and middle income countries across the developing world, this book evaluates alternatives in widening insurance and protection provision and makes an important contribution to the topical field of insurance and risk.

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.

Managing Nutrient Cycles to Sustain Soil Fertility in Sub-Saharan Africa André Bationo, 2004.

Genetic Engineering, Biofertilisation, Soil Quality and Organic Farming Eric Lichtfouse, 2010-06-14. Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children.

Sustainable agriculture is a discipline that addresses current issues such as climate change increasing food and fuel prices poor nation starvation rich nation obesity water pollution soil erosion fertility loss pest control and biodiversity depletion Novel environmentally friendly solutions are proposed based on integrated knowledge from sciences as diverse as agronomy soil science molecular biology chemistry toxicology ecology economy and social sciences Indeed sustainable agriculture decipher mechanisms of processes that occur from the molecular level to the farming system to the global level at time scales ranging from seconds to centuries For that scientists use the system approach that involves studying components and interactions of a whole system to address scientific economic and social issues In that respect sustainable agriculture is not a classical narrow science Instead of solving problems using the classical painkiller approach that treats only negative impacts sustainable agriculture treats problem sources Because most actual society issues are now intertwined global and fast developing sustainable agriculture will bring solutions to build a safer world This book series gathers review articles that analyze current agricultural issues and knowledge then propose alternative solutions It will therefore help all scientists decision makers professors farmers and politicians who wish to build a safe agriculture energy and food system for future generations

Reviewing **Natural Resource Management In African Agriculture Understanding And Improving Current Practices:** Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Natural Resource Management In African Agriculture Understanding And Improving Current Practices**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Table of Contents Natural Resource Management In African Agriculture Understanding And Improving Current Practices

1. Understanding the eBook Natural Resource Management In African Agriculture Understanding And Improving Current Practices
 - The Rise of Digital Reading Natural Resource Management In African Agriculture Understanding And Improving Current Practices
 - Advantages of eBooks Over Traditional Books
2. Identifying Natural Resource Management In African Agriculture Understanding And Improving Current Practices
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Natural Resource Management In African Agriculture Understanding And Improving

Current Practices

- User-Friendly Interface

4. Exploring eBook Recommendations from Natural Resource Management In African Agriculture Understanding And Improving Current Practices

- Personalized Recommendations
- Natural Resource Management In African Agriculture Understanding And Improving Current Practices User Reviews and Ratings
- Natural Resource Management In African Agriculture Understanding And Improving Current Practices and Bestseller Lists

5. Accessing Natural Resource Management In African Agriculture Understanding And Improving Current Practices Free and Paid eBooks

- Natural Resource Management In African Agriculture Understanding And Improving Current Practices Public Domain eBooks
- Natural Resource Management In African Agriculture Understanding And Improving Current Practices eBook Subscription Services
- Natural Resource Management In African Agriculture Understanding And Improving Current Practices Budget-Friendly Options

6. Navigating Natural Resource Management In African Agriculture Understanding And Improving Current Practices eBook Formats

- ePub, PDF, MOBI, and More
- Natural Resource Management In African Agriculture Understanding And Improving Current Practices Compatibility with Devices
- Natural Resource Management In African Agriculture Understanding And Improving Current Practices Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Natural Resource Management In African Agriculture Understanding And Improving Current Practices
- Highlighting and Note-Taking Natural Resource Management In African Agriculture Understanding And Improving Current Practices
- Interactive Elements Natural Resource Management In African Agriculture Understanding And Improving

Current Practices

8. Staying Engaged with Natural Resource Management In African Agriculture Understanding And Improving Current Practices
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Natural Resource Management In African Agriculture Understanding And Improving Current Practices
9. Balancing eBooks and Physical Books Natural Resource Management In African Agriculture Understanding And Improving Current Practices
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Natural Resource Management In African Agriculture Understanding And Improving Current Practices
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Natural Resource Management In African Agriculture Understanding And Improving Current Practices
 - Setting Reading Goals Natural Resource Management In African Agriculture Understanding And Improving Current Practices
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Natural Resource Management In African Agriculture Understanding And Improving Current Practices
 - Fact-Checking eBook Content of Natural Resource Management In African Agriculture Understanding And Improving Current Practices
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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Introduction

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