

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

**World Institute for Development
Economics Research**



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

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.,

Strategies for Sustainable Land Management and Poverty Reduction in Uganda Ephraim Nkonya, 2004-01-01 References pp 123 136

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 proactive 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

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 *Indigenous Fruit Trees in the Tropics* Festus K. Akinnifesi, 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 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 condemns 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 **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 **Climate Change Mitigation and Agriculture** Eva Wollenberg,Marja-Liisa Tapio-Bistrom,Maryanne Grieg-Gran,Alison Nihart,2013-03-01 This book reviews the state of agricultural climate change mitigation globally with a focus on identifying the feasibility opportunities and challenges for achieving mitigation among smallholder farmers The purpose is ultimately to accelerate efforts towards mitigating land based climate change While much attention has been focused on forestry for its reputed cost effectiveness the agricultural sector contributes about ten to twelve per cent of emissions and has a large technical and economic potential for reducing greenhouse gases The book does not dwell on the science of emissions reduction as this is well covered elsewhere rather it focuses on the design and practical implementation of mitigation activities through changing farming systems Climate Change Mitigation and Agriculture includes chapters about experiences in developed countries such as Canada and Australia where these efforts also have lessons for mitigation options for smallholders in poorer nations as well as industrialising countries such as Brazil and China A wide range of agroecological zones and of aspects or types of farming including livestock crops fish farming fertilizer use and agroforestry as well as economics and finance is included The volume presents a synthesis of current knowledge and research activities on this emerging subject Together the chapters capture an exciting period in the development of land based climate change mitigation as attention is increasingly focused on agriculture s role in contributing to climate change Valuing Agroforestry Systems Janaki R.R. Alavalapati,D. Evan Mercer,2006-03-30 The

primary objective of this book is to offer practical means for strengthening the economics and policy dimension of the agroforestry discipline. This book, written by the leading experts in economics and agroforestry, encompasses case studies from Australia, China, Kenya, India, Indonesia, Malawi, Mexico, Micronesia, Tanzania, United Kingdom, United States, Zambia, and Zimbabwe. The applied economic methodologies encompass a wide variety of case studies including enterprise farm budget models through Faustmann models, Policy Analysis Matrix production function approach, risk assessment models, dynamic programming, linear programming, meta modeling, contingent valuation, attribute based choice experiments, econometric modeling, and institutional economic analysis. It is our belief that these methodologies help agroforestry students and professionals conduct rigorous assessment of economic and policy aspects of agroforestry systems and to produce less biased and more credible information. Furthermore, the economic and policy issues explored in the book—profitability, environmental benefits, risk reduction, household constraints, rural development, and institutional arrangements—are central to further agroforestry adoption in both tropical and temperate regions. All of the chapters in this volume were subject to rigorous peer review by at least one other contributing author and one external reviewer. We would like to acknowledge the indispensable collaboration of those who provided careful external reviews: Ken Andrasko, Chris Andrew, Peter Boxall, Norman Breuer, Bill Hyde, Tom Holmes, Sherry Larkin, Jagannadharao Matta, Venkatrao Nagubadi, Roz Naylor, Thomas Randolph, Gerald Shively, Changyou Sun, Bo Jellesmark Thorsen, and Yaoqi Zhang. All reviews were coordinated by the book editors.

The African Food System and Its Interaction with Human Health and Nutrition Per Pinstrup-Andersen, United Nations University, 2010. Hunger, malnutrition, poor health, and deficient food systems are widespread in Sub-Saharan Africa. While much is known about African food systems and about African health and nutrition, our understanding of the interaction between food systems and health and nutrition is deficient. Moreover, the potential health gains from changes in the food system are frequently overlooked in policy design and implementation. The authors of *The African Food System and its Interactions with Human Health and Nutrition* examine how public policy and research aimed at the food system and its interaction with human health and nutrition can improve the well-being of Africans and help achieve the United Nations Millennium Development Goals (MDGs). Several of the MDGs focus on health-related challenges: hunger alleviation, maternal, infant, and child mortality, the control of HIV/AIDS, tuberculosis, and malaria, and the provision of safe water and improved sanitation. These challenges are intensified by problems of low agricultural and food system productivity, gender inequity, lack of basic infrastructure, and environmental degradation, all of which have direct and indirect detrimental effects on health, nutrition, and the food system. Reflecting the complexity and multidisciplinary nature of these problems and their solutions, this book features contributions by world-renowned experts in economics, agriculture, health, nutrition, food science, and demography. Contributors: Harold Alderman, World Bank; Christopher B. Barrett, Cornell University; Kathryn J. Boor, Cornell University; Laura K. Cramer, Cornell University; Stuart Gillespie, International Food Policy Research Institute; Anna Herforth, Cornell University; Dorothy

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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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