

Read Free Domestication  
Utilization And  
Commercialization

# **Domestication Utilization And Commercialization**

***Based on the career of Roger  
Leakey, the former Director of***

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***Research at the International Centre for Research in Agroforestry, this book presents the experiences of real life situations in rural villages of remote and distant places. It shows how the science of agroforestry can***

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***offer hope from the doom and gloom often emanating from the tropics.***

***Living in and from the forests of Central Africa is intended first and foremost as a full-scale extension tool concerning NWFPs in Central***

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***Africa. It is a work on the groups who have always lived in these forests, forests that contribute to every aspect of their daily lives, both material and spiritual, and enable them to survive even in periods of extreme crisis.***

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***This publication presents the latest research in perennial crop breeding and programmes, and provides direction on where the field of perennial crop is heading. Many production systems and agricultural practices are no***

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***longer sustainable today as their effects on soils, water, biodiversity, and livelihood are significant.***

***Mainstreaming the use of perennial crops into current practices can contribute to stabilize fragile soils and***

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***maintain natural processes essential to obtain stable and high yields. To face the challenges and risks of the twenty-first century, increasing the perenniality of crops and agricultural systems should become a***

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***larger research, development  
and policy focus.***

***This publication demonstrates  
the benefits of neglected and  
underutilized species,  
including amaranth, sorghum  
and cowpea, and their  
potential contribution to***



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***achieving Zero Hunger in  
South and Southeast Asia.  
The present edition of Nature  
& Faune journal emphasizes  
the role of natural renewable  
resources within the  
framework of Africa's  
agricultural transformation.***

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***Central to the transformation agenda is achieving greater prosperity which can improve peoples' lives and livelihoods. These improvements of lives and livelihoods cover their economic well-being; their environment; socio-cultural***

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***and political sphere of influence. The conditions for modernizing Africa's agriculture entail transforming not only production processes but also the products. This issue of the Journal highlights the unique***

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***features of Africa's agriculture, including (i) the urgent need for improving productivity; (ii) the importance of the agricultural sector in Africa's economies in terms of employment; and (iii) the climate-resilient***

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***opportunities within  
agriculture to cope with  
climate change challenges. It  
draws attention to the fact  
that the agriculture sector  
offers possibilities for  
increased productivity while  
also adapting to and***

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***mitigating climate change  
thus safeguarding also future  
production.***

***This book aims at both  
academics and professionals  
in the field of forest-people  
interfaces. It takes the reader  
on a journey through four***

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***major themes that have emerged since the initiation of 'social forestry' in the 1970s: non-timber forest products and agroforestry; community-based natural resource management; biocultural diversity; and***

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***forest governance. In so doing, the books offers a comprehensive and current review on social issues related to forests that other, more specialized publications, lack. It is also theory-rich, offering both mainstream and***



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***critical perspectives, and presents up-to-date empirical materials. Reviewing these four major research themes, the main conclusion of the book is that naïve optimism associated with forest-people interfaces should be***

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***tempered. The chapters show that economic development, political empowerment and environmental aims are not easily integrated. Hence local landscapes and communities are not as 'makeable' as is often assumed. Events that***

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***take place on other scales  
might intervene; local  
communities might not  
implement policies locally;  
and governance practices  
might empower governments  
more than communities. This  
all shows that we should go***

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***beyond community-based ideas and ideals, and look at practices on the ground. *Jatropha curcas* or Physic Nut is a small tree (bush plant) that produces fruits under tropical climate. The fruits contained seed that are ~40%***

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***oil rich. This oil is excellent for biodiesel. The bush is a now new coming crop because it may cope with harsh environmental conditions such as semi-aridity and poor land. It is considered as one alternative***

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***for climate mitigation that does not compete with arable land normally dedicated to food crop and can be used to regain degraded land or fight desertification. This bush has been considered seriously by the international community***

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***only recently (~2006-2008),  
but worldwide scientists did  
an outstanding job to draw  
Jatropha out of its semi-wild  
status and bring it on the  
industrial scene. Problems  
remains, but we have now a  
comprehensive picture of this***

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***crop and almost every technological challenged were addressed. From now, the job will have to concentrate on breeding in order to domesticate this species. Therefore, it is the right time to sum up worldwide***



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***contributions in a comprehensive book with a breeding looking to improve the chance of this plant to stabilize as a crop and to fulfil with the expectations that humans invested in it. A book with this perspective will help***

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***international community to  
give a step on. The book will  
be a broad and  
comprehensive look on  
Jatropha until the details  
since the book is being  
contributed by international  
experts worldwide that have***

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***already published works in the international press of Science. Illustrations, tables geographic maps, GPS location, etc are added by each contributors according to the feeling they have concerning what they think***

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***their contribution should be.***

***Science and Trade***

***Managing Systems at Risk***

***understanding community***

***forestry and biocultural***

***diversity***

***Future Prospects for Food and***

***Feed Security***

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**Commercialisation of Non-  
timber Forest Products:  
Review and Analysis of  
Research**

**Jatropha, Challenges for a  
New Energy Crop**

**Bioenergy from Wood**

**Tropical Agroforestry**

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***Perennial Crops for Food  
Security***

***Agroforestry for Degraded  
Landscapes***

***Annotated Bibliography of  
Strychnos (1990-2004)***

***Using Agricultural  
Biodiversity to Improve***

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**Nutrition and Health**

**Trees, tree genetic diversity  
and the livelihoods of rural  
communities in the tropics**

**‘This volume is the most  
comprehensive review of Lapita  
research to date, tackling many of**

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**the lingering questions regarding  
origin and dispersal.**

**Multidisciplinary in nature with a  
focus on summarising new findings,  
but also identifying important gaps  
that can help direct future research.’  
— Professor Scott Fitzpatrick,**



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**Department of Anthropology,  
University of Oregon ‘This  
substantial volume offers a welcome  
update on the definition of the  
Lapita culture. It significantly  
refreshes the knowledge on this  
foundational archaeological culture**

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**of the Pacific Islands in providing new data on sites and assemblages, and new discussions of hypotheses previously proposed.’ — Dr Frédérique Valentin, Centre national de la recherche scientifique (CNRS), Paris This volume comprises 23**

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**chapters that focus on the archaeology of Lapita, a cultural horizon associated with the founding populations who first colonised much of the south west Pacific some 3000 years ago. The Lapita culture has been most clearly defined by its**

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**distinctive dentate-stamped decorated pottery and the design system represented on it and on further incised pots. Modern research now encompasses a whole range of aspects associated with Lapita and this is reflected in this**

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**volume. The broad overlapping themes of the volume—Lapita distribution and chronology, society and subsistence—relate to research questions that have long been debated in relation to Lapita. The State of the World's Land and**

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**Water Resources for Food and Agriculture is FAO's first flagship publication on the global status of land and water resources. It is an 'advocacy' report, to be published every three to five years, and targeted at senior level decision**

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**makers in agriculture as well as in other sectors. SOLAW is aimed at sensitizing its target audience on the status of land resources at global and regional levels and FAO's viewpoint on appropriate recommendations for policy**

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**formulation. SOLAW focuses on these key dimensions of analysis: (i) quantity, quality of land and water resources, (ii) the rate of use and sustainable management of these resources in the context of relevant socio-economic driving factors and**



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**concerns, including food security and poverty, and climate change. This is the first time that a global, baseline status report on land and water resources has been made. It is based on several global spatial databases (e.g. land suitability for**

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**agriculture, land use and management, land and water degradation and depletion) for which FAO is the world-recognized data source. Topical and emerging issues on land and water are dealt with in an integrated rather than**

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**sectoral manner. The implications of the status and trends are used to advocate remedial interventions which are tailored to major farming systems within different geographic regions.**

**Based on work by the Miombo**

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**Network in southern Africa, this book helps decision-makers and general readers alike improve their understanding of the socio-ecology of the Miombo woodlands across southern Africa. It also highlights the importance of and the need for**

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**further research on the unique Miombo ecology and its link with economic development. One major challenge facing these woodlands is the influence that direct (both natural and anthropogenic) and indirect drivers of change, as well as**

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**interactions between these, have had over the centuries. As such the book explores the socio-economic and ecological interactions that occur in these woodlands and discusses the need for further research to provide a better understanding of these**

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**interactions. Drawing on data and information from numerous studies conducted in the last 20 years, the book presents a comparative analysis of policy changes and management experiences in the countries concerned. It also addresses issues of**

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**global climate change, since they have an impact on Miombo ecosystem management and restoration, and provides future projections based on an assessment of how climate change has affected the Miombo woodlands in the past.**



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**Wild fruits play an important role in mitigating hunger in the developing world. As a sustainable and natural food source in rural areas, these fruits have a strong effect on regional food security and poverty alleviation. This makes the**

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**utilization of wild foods incredibly important for native populations both in terms of food security and economics. There are many traditional methods for wild fruit harvesting, indigenous tree and plant domestication and cultivation passed**

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**down through generations that are sustainable and economically viable, ultimately contributing to a better quality of life for large sections of the developing world. To date there has not been a reference work focusing on the full scope of wild**

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**fruits from their growth and chemical makeup to their harvest, distribution, health effects and beyond. Wild Fruits: Composition, Nutritional Value and Products adequately fills this gap, expansively covering the utilization of multi-**

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**purpose wild fruits in regions  
worldwide. Effects on quality of life,  
food security, economics and health  
are extensively covered. Over 31 wild  
fruit species are examined, with  
individual chapters focusing on each  
species' phytochemical constituents,**

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**bioactive compounds, traditional and medicinal uses and chemical composition. Harvest, post-harvest and consumption methods are covered for each, as are their overall effect on the food security and economics of their native regions.**

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**This book is essential for researchers in search of a comprehensive singular source for the chemical makeups and cultivation of indigenous wild fruits and their many benefits to their native regions.**

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**In this book, Jan Deckers addresses the most crucial question that people must deliberate in relation to how we should treat other animals: whether we should eat animal products. Many people object to the consumption of animal products**



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**from the conviction that it inflicts pain, suffering, and death upon animals. This book argues that a convincing ethical theory cannot be based on these important concerns: rather, it must focus on our interest in human health. Tending to this**

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**interest demands not only that we extend speciesism—the attribution of special significance to members of our own species merely because they belong to the same species as ourself—towards nonhuman animals, but also that we safeguard**

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**the integrity of nature. In this light, projects that aim to engineer the genetic material of animals to reduce their capacities to feel pain and to suffer are morally suspect. The same applies to projects that aim to develop in-vitro flesh, even if the**

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**production of such flesh should be welcomed on other grounds. The theory proposed in this book is accompanied by a political goal, the ‘vegan project’, which strives for a qualified ban on the consumption of animal products. Deckers also**

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**provides empirical evidence that some support for this goal exists already, and his analysis of the views of others—including those of slaughterhouse workers—reveals that the vegan project stands firm in spite of public opposition. Many**

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**charges have been pressed against vegan diets, including: that they alienate human beings from nature; that they increase human food security concerns; and that they are unsustainable. Deckers argues that these charges are legitimate in some**

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**cases, but that, in many situations, vegan diets are actually superior. For those who remain doubtful, the book also contains an appendix that considers whether vegan diets might actually be nutritionally adequate. Scientific experiments using animals**

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**have contributed significantly to the improvement of human health.**

**Animal experiments were crucial to the conquest of polio, for example, and they will undoubtedly be one of the keystones in AIDS research.**

**However, some persons believe that**



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**the cost to the animals is often high. Authored by a committee of experts from various fields, this book discusses the benefits that have resulted from animal research, the scope of animal research today, the concerns of advocates of animal**

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**welfare, and the prospects for finding alternatives to animal use. The authors conclude with specific recommendations for more consistent government action. Wheat: Science and Trade is an up-to-date, comprehensive reference**

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**work designed to expand the current body of knowledge on this staple crop, incorporating new information made available by genetic advances, improvements in the understanding of wheat's biology, and changes in the wheat trade industry. Covering**

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**phylogeny and ontogeny,  
manipulation of the environment  
and optimal management, genetic  
improvement, and utilization and  
commercialization, the book focuses  
on the most economically significant  
diseases and impacts**

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Rediscovering hidden treasures of  
neglected and underutilized species  
for Zero Hunger in Asia

THEORY AND PRACTICES

AGROFORESTRY

Sustainable Land Management

Sourcebook

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[Domestication, Evolution, and  
Sustainability](#)

[Directions in Tropical Agroforestry  
Research](#)

[Proceedings of the International  
Symposium on Underutilized Plants  
for Food Security, Nutrition, Income](#)

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[and Sustainable Development](#)

[Edible Insects](#)

[Forest People Interfaces](#)

[The State of the World's Land and](#)

[Water Resources for Food and](#)

[Agriculture](#)

[FUTURE SMART FOOD](#)

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[Tropical Fruit Tree Diversity](#)

[Agricultural transformation in](#)

[Africa: The role of natural resources](#)

*This book comprises 5 parts  
and 21 chapters discussing  
the domestication of  
indigenous fruit trees in*



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***Africa, Oceania, Latin  
America and Asia; and  
describes the biophysical  
and socio-economic aspects  
of Miombo fruit trees.  
Encyclopedia of Agriculture  
and Food Systems, Second***

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***Edition addresses important issues by examining topics of global agriculture and food systems that are key to understanding the challenges we face.***

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***Questions it addresses include: Will we be able to produce enough food to meet the increasing dietary needs and wants of the additional two billion people expected to inhabit***

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***our planet by 2050? Will we be able to meet the need for so much more food while simultaneously reducing adverse environmental effects of today's agriculture practices? Will***

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***we be able to produce the additional food using less land and water than we use now? These are among the most important challenges that face our planet in the coming decades. The broad***

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***themes of food systems and people, agriculture and the environment, the science of agriculture, agricultural products, and agricultural production systems are covered in more than 200***

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***separate chapters of this work. The book provides information that serves as the foundation for discussion of the food and environment challenges of the world. An international***

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***group of highly respected authors addresses these issues from a global perspective and provides the background, references, and linkages for further exploration of each of***



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***topics of this  
comprehensive work.  
Addresses important  
challenges of sustainability  
and efficiency from a global  
perspective. Takes a  
detailed look at the***

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***important issues affecting  
the agricultural and food  
industries today. Full colour  
throughout.***

***In a world increasingly  
challenged by the need to  
integrate and understand***

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***highly specialized knowledge in a multidisciplinary way, this book is innovative and perhaps unique in addressing this challenge. It focuses on ideas,***

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***strategies, techniques and practices spanning many disciplines at the interface of agriculture with: forestry, horticulture, plant physiology, genetics, ecology, soil science, food***

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***science, economics, and the social and environmental sciences as delivered by intensified and enriched agroforestry.***

***Multifunctional Agriculture addresses this complexity,***

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***using case studies and  
insights from the needs of  
African farmers whose  
livelihoods are constrained  
by complex interactions  
between social,  
environmental and***

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***economic factors and  
problems underlying  
agricultural sustainability  
in Africa. This book,  
therefore, provides an  
important resource for  
those trying to understand***

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***the role of agriculture in  
the achievement of the new  
Sustainable Development  
Goals by providing easily  
implementable, practical  
and effective methodologies  
and practices. Provides a***



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***single-source,  
comprehensive insight into  
agroforestry/  
multifunctional agriculture,  
it's potential, challenges,  
and progress Helps readers  
understand and assess***

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***potential opportunity  
through implementation  
Includes case studies and  
real-world insights that  
address common situations  
and the practical  
application of best***

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***practices Explores the role  
of multi-functional  
agriculture in mitigating  
climate change impacts,  
providing value-story  
beyond crop production  
Many edible plants***

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***considered exotic in the Western world are actually quite mainstream in other cultures. While some of these plants are only encountered in ethnic food markets or during travels to***

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***foreign lands, many are now finding their way onto supermarket shelves. Top 100 Exotic Food Plants provides comprehensive coverage of tropical and semitropical food plants,***

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*reviewing scientific and technological information as well as their culinary uses. Wide-ranging in scope, this volume's coverage includes plants that produce fruits,*

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***vegetables, spices, culinary herbs, nuts, and extracts. A user-friendly format enables readers to easily locate information on botanical and agricultural aspects, economic and***

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***social importance, food uses, storage, preparation, and potential toxicity. The book also contains an introductory chapter that reviews important historical, economic,***



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***geopolitical, health,  
environmental, and ethical  
considerations associated  
with exotic food plants.  
Thoroughly referenced with  
more than 2000 literature  
citations, this book is***

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***enhanced by more than 200 drawings, many chosen from historical art of extraordinary quality. This timely volume also highlights previously obscure edible plants that***

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***have recently become prominent as a result of sensationalistic media reports stemming from their inherently entertaining or socially controversial natures. Some***

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*of these plants include the acai berry, kava, hemp, and opium poppy. A scholarly yet accessible presentation, the book is filled with numerous memorable, fascinating, and humorous*

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***facts, making it an  
entertaining and  
stimulating read that will  
appeal to a broad audience.  
Brings together research  
from a range of fields to  
address key questions***

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***relating to agriculture: its  
origins and long-term  
sustainability.***

***Community-oriented  
conservation of natural  
resources and promotion  
and protection of trees in***

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***drylands are examples to deal with climatic adversities. This book provides knowledge on climatic, ecological, social and economic condition of dry areas and lay out***

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***approaches and strategies  
to restore degraded lands.  
There are 15 chapters and  
first five deals with  
physiography of Rajasthan,  
drylands ecology, problems  
of land degradation, its***



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***economic evaluation and  
the approaches and  
strategies of restoration  
and rehabilitation. Next two  
chapters describe the  
problems of sand drift,  
salinity, water logging and***

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***effluent inflicted areas and strategies to control them. Chapters 8-10 deal with seed production, quality planting materials, genetic improvement, propagation and planting techniques.***

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***Chapters 11-12 describe methods of rain water harvesting and irrigation, and resources conservation for seed sowing and favouring regeneration and successions. Effective***

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***management of  
pests/diseases in nurseries  
and plantation, growth and  
yield prediction equations  
and models, and people's  
perception and  
participation in managing***

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***forest resources have been described in last 3 chapters. Purpose of this publication is to strengthen the forest functionaries and readers with wide ranging knowledge on land***

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***degradation, desertification  
and eco-biology of drylands;  
and methods to restore and  
rehabilitate degrading  
forest (lands) to increase  
forest cover, enhance  
resilience and people***

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***livelihoods and improve  
environmental conditions.  
Academician, researchers,  
forest managers, non-  
government organizations,  
extension agents and  
environmentalists can use***

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*it in developing, conserving  
and managing drylands  
ecosystems for its long  
lasting beneficial effects.  
This book is also useful to  
policy makers in effective  
planning of restoring,*



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***protecting and conserving  
dryland's ecological and  
socioeconomic services.  
This volume contains a  
solid body of the current  
state of knowledge on the  
various themes and***

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***activities in agroforestry  
worldwide. It is organized  
into three sections: the  
Introduction section  
consists of the summaries  
of six keynote speeches at  
the 2nd World Congress of***

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***Agroforestry held in  
Nairobi, Kenya, in 2009;  
that is followed by two  
sections of peer-reviewed  
thematic chapters grouped  
as “Global Perspectives”  
(seven chapters) and***

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***“Regional Perspectives”  
(eleven chapters), authored  
by professional leaders in  
their respective  
agroforestry-related fields  
worldwide. A total of 130  
professionals from***

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***institutions in 33 countries  
in both developing and the  
industrialized temperate  
regions of the world  
contributed to the book as  
chapter authors and/or  
reviewers. Thus, the book***

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*presents a comprehensive  
and authoritative account  
of the global picture of  
agroforestry today.*

*Living with the Trees of Life  
Domestication, Utilization  
and Commercialization*

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**Wild Fruits: Composition,  
Nutritional Value and  
Products**

**Arusha, Tanzania, March  
3-6, 2008**

**Top 100 Exotic Food Plants  
Gender in Agriculture**

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**Sourcebook**

**Living in and from the  
forests of Central Africa  
A Manual for Dryland  
Afforestation and  
Management  
Debating Lapita**



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***Indigenous Fruit Trees in  
the Tropics  
Sustainable Production in  
the Tropics  
Proceedings of the FAO  
Expert Workshop 28-30  
August, 2013, Rome, Italy***

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**Plants and People**

Edible insects have always been a part of human diets, but in some societies there remains a degree of disdain and disgust for their consumption. Insects offer a significant opportunity to merge

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traditional knowledge and modern science to improve human food security worldwide. This publication describes the contribution of insects to food security and examines future prospects for raising insects at a commercial scale to improve food

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and feed production, diversify diets, and support livelihoods in both developing and developed countries. Edible insects are a promising alternative to the conventional production of meat, either for direct human consumption or for indirect

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use as feedstock. This publication will boost awareness of the many valuable roles that insects play in sustaining nature and human life, and it will stimulate debate on the expansion of the use of insects as food and feed.

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Proceedings of the International  
Conference on Domestication &  
Commercialization of Non-timber  
Forest Products in Agroforestry  
Systems, Nairobi, Kenya, 19-23  
February 1996, hosted by ICRAF  
(International Centre for Research

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in Agroforestry) & others

This study, prepared within the ambit of The State of the World ' s Forest Genetic Resources, reviews what is known about the value of trees for tropical rural communities. It focuses on non-timber products

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harvested from trees in natural and managed forests and woodlands, the various products and services obtained from trees planted or retained in agroforestry systems, and the commercial products of tree commodity crops. The role of intra-



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specific genetic variation in determining the value of trees in supporting livelihoods is discussed in each of the three contexts. The study also identifies specific points that should be given particular attention in the future to better

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support tree-based livelihoods of rural communities in the tropics. Policies promoting pro-poor agricultural growth are the key to helping countries achieve the Millennium Development Goals especially the goal of halving poverty

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and hunger by 2015. The public sector, private sector, and civil society organizations are working to enhance productivity and competitiveness of the agricultural sector to reduce rural poverty and sustain the natural resource base.

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The pathways involve participation by rural communities, science and technology, knowledge generation and further learning, capacity enhancement, and institution building. Sustainable land management (SLM) an essential

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component of such policies will help to ensure the productivity of agriculture, forestry, fisheries, and hydrology. SLM will also support a range of ecosystem services on which agriculture depends. The 'Sustainable Land Management

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Sourcebook' provides a knowledge repository of tested practices and innovative resource management approaches that are currently being tested. The diverse menu of options represents the current state of the art of good land management practices.

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Section one identifies the need and scope for SLM and food production in relation to cross-sector issues such as freshwater and forest resources, regional climate and air quality, and interactions with biodiversity conservation and increasingly

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valuable ecosystem services. Section two categorizes the diversity of land management systems globally and the strategies for improving household livelihoods in each system type. Section three presents a range of investment notes that summarize



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good practice, as well as innovative activity profiles that highlight design of successful or innovative investments. Section four identifies easy-to-access, Web-based resources relevant for land and natural resource managers. The

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'Sourcebook' is a living document that will be periodically updated and expanded as new material and findings become available on good land management practices. This book will be of interest to project managers and practitioners working

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to enhance land and natural resource management in developing countries.

This first monograph in the EARTH series, The dynamics of non-industrial agriculture: 8,000 years of resilience and innovation,

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approaches the great variety of agricultural practices in human terms. It focuses on the relationship between plants and people, the complexity of agricultural processes and their organisation within particular communities and

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societies. Collaborative European research among archaeologists, archaeobotanists, ethnographers, historians and agronomists using a broad analytical scale of investigation seeks to establish new common ground for integrating

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different approaches. By means of interdisciplinary examples, this book showcases the relationship between people and plants across wide ranging and diverse spatial and temporal milieus, including crop diversity, the use of wild foodstuffs,

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social context, status and choices of food plants.

Shifting cultivation is one of the oldest forms of subsistence agriculture and is still practised by millions of poor people in the tropics. Typically it involves clearing

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land (often forest) for the growing of crops for a few years, and then moving on to new sites, leaving the earlier ground fallow to regain its soil fertility. This book brings together the best of science and farmer experimentation, vividly



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illustrating the enormous diversity of shifting cultivation systems as well as the power of human ingenuity.

Some critics have tended to disparage shifting cultivation (sometimes called 'swidden cultivation' or 'slash-and-burn

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agriculture') as unsustainable due to its supposed role in deforestation and land degradation. However, the book shows that such indigenous practices, as they have evolved over time, can be highly adaptive to land and ecology. In contrast, 'scientific'

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agricultural solutions imposed from outside can be far more damaging to the environment and local communities. The book focuses on successful agricultural strategies of upland farmers, particularly in south and south-east Asia, and presents

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over 50 contributions by scholars from around the world and from various disciplines, including agricultural economics, ecology and anthropology. It is a sequel to the much praised "Voices from the Forest: Integrating Indigenous

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Knowledge into Sustainable Upland Farming" (RFF Press, 2007), but all chapters are completely new and there is a greater emphasis on the contemporary challenges of climate change and biodiversity conservation.

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The 'Gender in Agriculture Sourcebook' provides an up-to-date understanding of gender issues and a rich compilation of compelling evidence of good practices and lessons learned to guide practitioners in integrating gender dimensions

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into agricultural projects and programs. It serves as a tool for: guidance; showcasing key principles in integrating gender into projects; stimulating the imagination of practitioners to apply lessons learned, experiences, and

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innovations to the design of future support and investment in the agriculture sector. The Sourcebook draws on a wide range of experience from World Bank, Food and Agriculture Organization (FAO), International Fund for Agricultural



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Development (IFAD), and other donor agencies, governments, institutions, and groups active in agricultural development. The Sourcebook looks at: access to and control of assets; access to markets, information and organization; and

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capacity to manage risk and vulnerability through a gender lens. There are 16 modules covering themes of cross-cutting importance for agriculture with strong gender dimensions (Policy, Public Administration and Governance;

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Agricultural Innovation and  
Education; Food Security; Markets;  
Rural Finance; Rural Infrastructure;  
Water; Land; Labor; Natural  
Resource Management; and  
Disaster and Post-Conflict  
Management) and specific

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subsectors in agriculture (Crops, Livestock, Forestry, and Fisheries). A separate module on Monitoring and Evaluation is included, responding to the need to track implementation and development impact. Each module contains three different sub-

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units: (1) A Module Overview gives a broad introduction to the topic and provides a summary of major development issues in the sector and rationale of looking at gender dimension; (2) Thematic Notes provide a brief and technically

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sound guide in gender integration in selected themes with lessons learned, guidelines, checklists, organizing principles, key questions, and key performance indicators; and (3) Innovative Activity Profiles describe the design and innovative features of

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recent and exciting projects and activities that have been implemented or are ongoing.

[Adapted from selected papers presented to a symposium on Tropical Agroforestry organized in connection with the annual meetings](#)

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[of the American Society of  
Agronomy, 5 November 1996,  
Indianapolis, Indiana, USA  
Multifunctional Agriculture  
Miombo Woodlands in a Changing  
Environment: Securing the  
Resilience and Sustainability of](#)



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Domestication and  
Commercialization of Non-timber  
Forest Products in Agroforestry  
Systems

This book is written for scientists and practitioners interested in deepening their knowledge of the

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sustainable production of bioenergy from wood in tropical and sub-tropical countries. Utilising the value chain concept, this book outlines the necessary aspects for managing sustainable bioenergy production. A wide range of topics

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is covered including biomass localization, modelling and upscaling, production management in woodlands and plantations, and transport and logistics. Biomass quality and conversion pathways are examined in order to match the

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conversion technology with the available biomass. A section is dedicated to issues surrounding sustainability. The issues, covered in a life-cycle assessment of the bioenergy system, include socio-economic challenges, local effects

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on water, biodiversity, nutrient-sustainability and global impacts. Through this holistic approach and supporting examples from tropical and sub-tropical countries, the reader is guided in designing and implementing a value chain as the



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main management instrument for sustainable wood.

Currently 868 million people are undernourished and 195 million children under five years of age are stunted. At the same time, over 1 billion people are overweight and

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obese in both the developed and developing world. Diseases previously associated with affluence, such as cancer, diabetes and cardiovascular disease, are on the rise. Food system-based approaches to addressing these problems that

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could enhance food availability and diet quality through local production and agricultural biodiversity often fall outside the traditional scope of nutrition, and have been under-researched. As a consequence, there remains

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insufficient evidence to support well-defined, scalable agricultural biodiversity interventions that can be linked to improvements in nutrition outcomes. Agricultural biodiversity is important for food and nutritional security, as a

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safeguard against hunger, a source of nutrients for improved dietary diversity and quality, and strengthening local food systems and environmental sustainability. This book explores the current state of knowledge on the role of

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agricultural biodiversity in improving diets, nutrition and food security. Using examples and case studies from around the globe, the book explores current strategies for improving nutrition and diets and identifies key research and

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implementation gaps that need to be addressed to successfully promote the better use of agricultural biodiversity for rural and urban populations and societies in transition.

Farmers have developed a range of

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agricultural practices to sustainably use and maintain a wide diversity of crop species in many parts of the world. This book documents good practices innovated by farmers and collects key reviews on good practices from global experts, not



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only from the case study countries but also from Brazil, China and other parts of Asia and Latin America. A good practice for diversity is defined as a system, organization or process that, over time and space, maintains, enhances

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and creates crop genetic diversity,  
and ensures its availability to and  
from farmers and other users.

Drawing on experiences from a  
UNEP-GEF project on

"Conservation and Sustainable Use  
of Wild and Cultivated Tropical

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Fruit Tree Diversity for Promoting Livelihoods, Food Security and Ecosystem Services", with case studies from India, Indonesia, Malaysia and Thailand, the authors show how methods for identifying good practices are still evolving and

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challenges in scaling-up remain. They identify key principles effective as a strategy for mainstreaming good practice into development efforts. Few books draw principles and lessons learned from good practices. This book fills this gap by

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combining good practices from the research project on tropical fruit trees with chapters from external experts to broaden its scope and relevance.

This study is one in a series of activities undertaken by CIFOR to

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reach a better understanding of the impact of commercialisation on forest resources and what factors influence the market demand for forest products. For example, two international workshops were organized by CIFOR in 1995 and

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another the following year to analyse key research issues in the field of NTFP development. These workshops recognised that the process of NTFP commercialisation interacts with people's welfare, forest management, tenure and

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control of resources, and forest structure and function (through ecological processes). Earlier review and analysis had generated a number of hypotheses, theories and conclusions related to the effects of commercialisation. Forest and



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resource tenure are likely to both affect the way a resource is managed and utilised, and be affected by changes in value due to commercialisation. Many authors have suggested that NTFP harvesting will be less damaging to

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biodiversity and other environmental values than management for timber. Others suggest that market pressures are likely to lead to the decline and eventual disappearance of valuable products and to severe impacts on

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the ecosystem. While there is a growing understanding (and acceptance) of the economic importance of forest products, especially for the poor, the potential impact of NTFP commercialisation needs to be better understood. A

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recommendation from the workshops was to undertake a thorough overview of the available literature to synthesise the key lessons about these areas of interaction. Such a review would critically examine the available

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information and analyses and identify key research areas needing further attention.

Agroforestry is recognized as a sustainable land-use management in the tropics, as it provides environmental-friendly ecosystems;

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It also provides people with their every day need for food and cash. Since the recognition of agroforestry as a science, curricula have been developed for agroforestry programs for undergraduate and graduate trainings in Universities.

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Therefore, there is an urgent need to develop and make available educational material. This textbook strives to provide up-to-date information on tropical agroforestry to serve as educational material in the tropical context. The

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authoritative textbook of Nair (1993) on agroforestry was published 18 years ago, and before the advent of tree domestication, an important agroforestry practice today. In addition, many other research activities, such as carbon



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sequestration and integrated pest management, have been included in the agroforestry agenda. This textbook is intended for agroforestry students, teachers, and practitioners.

Large areas of the warm, humid

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tropics in Southeast Asia, the Pacific, Latin America, the Caribbean, and Africa are hilly or mountainous. Jackson and Scherr (1995) estimate that these tropical hillside areas are inhabited by 500 million people, or one-tenth of the

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current world population, many of whom practice subsistence agriculture. The region most affected is Asia which has the lowest area of arable land per capita.

Aside from limited areas of irrigated terraces, most of the sloping land,

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which constitutes 60% to 90% of the land resources in many Southeast Asian countries, has been by-passed in the economic development of the region (Maglinao and Hashim, 1993). Poverty in these areas is often high, in contrast to the relative

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wealth of irri gated rice farms in lowland areas that benefited from the green revolution. Rapid population growth in some countries is also exacerbating the problems of hillside areas. Increasingly, people are migrating from high-potential

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lowland areas where land is scarce to more remote hillside areas. Such migration, together with inherent high population growth, is forcing a transformation in land use from subsistence to permanent agriculture on fragile slopes, and is

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creating a new suite of social, economic, and environmental problems (Garrity, 1993; Maglinao and Hashim, 1993).

From the time of hunter-gatherers to the present day, forests have played a vital role in the development of

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humanity and society. This broad introductory textbook sets world forestry in a social, environmental, historical, and economic context. The development of forests, grassland and humans is described from the Devonian through to the



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Age of Agriculture, covering the factors determining the distribution of forests, the classification of forest types, the value and benefits of the forest and the products of the forest and their associated trade. The book also explores issues such as

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sustainable forest management, current patterns of deforestation and reforestation, and future challenges facing our forests. Fully updated throughout and with new contributions from international experts, this second edition includes

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new chapters on climate change and international forest policy, and expanded coverage of forest products and bioenergy production.

[Achieving Sustainable Development in Africa](#)

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Wheat

2nd Edition

Distribution, Chronology, Society  
and Subsistence

Shifting Cultivation and  
Environmental Change

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[Good practices for in situ and on-farm conservation  
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