



FOREWORD BY
Jeffrey D. Sachs

SLASH-AND-BURN **AGRICULTURE**

THE SEARCH FOR ALTERNATIVES



EDITED BY
**Cheryl A. Palm, Stephen A. Vosti,
Pedro A. Sanchez, and Polly J. Ericksen**

Slash And Burn Agriculture The Search For Alternatives

CL Gary



Slash And Burn Agriculture The Search For Alternatives:

Slash-and-burn Agriculture Cheryl Ann Palm, 2005 The Alternatives to Slash and Burn ASB consortium was formed in 1992 by a group of concerned national and international research institutions to address the global and local issues associated with this form of agriculture With contributions from scientists economists ecologists and anthropologists this book synthesizes the first decade of ASB s work It assesses the environmental economic and social impact of deforestation and the needs of small scale farmers who rely on slash and burn agriculture for their livelihood *Properties and Management of Soils in the Tropics* Pedro A. Sanchez, 2019-01-10 Long awaited second edition of classic textbook brought completely up to date for courses on tropical soils and reference for scientists and professionals Methods for Measuring Greenhouse Gas Balances and Evaluating Mitigation Options in Smallholder Agriculture Todd S. Rosenstock, Mariana C. Rufino, Klaus Butterbach-Bahl, Lini Wollenberg, Meryl Richards, 2016-08-23 This book provides standards and guidelines for quantifying greenhouse gas emissions and removals in smallholder agricultural systems and comparing options for climate change mitigation based on emission reductions and livelihood trade offs Globally agriculture is directly responsible for about 11% of annual greenhouse gas GHG emissions and induces an additional 17% through land use change mostly in developing countries Farms in the developing countries of sub Saharan Africa and Asia are predominately managed by smallholders with 80% of land holdings smaller than ten hectares However little to no information exists on greenhouse gas emissions and mitigation potentials in smallholder agriculture Greenhouse gas measurements in agriculture are expensive time consuming and error prone challenges only exacerbated by the heterogeneity of smallholder systems and landscapes Concerns over methodological rigor measurement costs and the diversity of approaches coupled with the demand for robust information suggest it is germane for the scientific community to establish standards of measurements for quantifying GHG emissions from smallholder agriculture Standard guidelines for use by scientists development organizations will help generate reliable data on emissions baselines and allow rigorous comparisons of mitigation options The guidelines described in this book developed by the CGIAR Research Program on Climate Change Agriculture and Food Security CCAFS and partners are intended to inform anyone conducting field measurements of agricultural greenhouse gas sources and sinks especially to develop IPCC Tier 2 emission factors or to compare mitigation options in smallholder systems Farming with Nature Sara J. Scherr, Jeffrey A. McNeely, 2012-09-26 A growing body of evidence shows that agricultural landscapes can be managed not only to produce crops but also to support biodiversity and promote ecosystem health Innovative farmers and scientists as well as indigenous land managers are developing diverse types of ecoagriculture landscapes to generate cobenefits for production biodiversity and local people Farming with Nature offers a synthesis of the state of knowledge of key topics in ecoagriculture The book is a unique collaboration among renowned agricultural and ecological scientists leading field conservationists and farm and community leaders to synthesize knowledge and experience across sectors The book examines

the knowledge base for ecoagriculture as well as barriers gaps and opportunities for developing improved ecoagriculture systems what we have learned about managing landscapes to achieve multiple objectives at a landscape scale existing incentives for farmers other land managers and investors to develop and invest in ecoagriculture systems pathways to develop implement manage and scale up successful ecoagriculture Insights are drawn from around the world in tropical Mediterranean and temperate environments from farming systems that range from highly commercialized to semi subsistence Farming with Nature is an important new work that can serve as a foundation document for planners farm organizations researchers project developers and policy makers to develop strategies for promoting and sustaining ecoagriculture landscapes Replete with valuable best practice guidelines it is a critical resource for both practitioners and researchers in the field Water Rights and Social Justice in the Mekong Region Kate Lazarus, Bernadette P.

Resurreccion, Nga Dao, Nathan Badenoch, 2012-06-25 The Mekong Region has come to represent many of the important water governance challenges faced more broadly by the mainland Southeast Asian region This book focuses on the complex nature of water rights and social justice in the Mekong region The chapters delve into the diverse social political and cultural dynamics that shape the various realities and scales of water governance in the region in an effort to bring to the forefront some of the local nuances required in the formulation of a larger vision of justice in water governance It is hoped that this contextualized analysis will deepen our understanding of the potential of and constraints on water rights in the region particularly in relation to the need to realize social justice The authors show how vitally important it is that water governance is democratized to allow a more equitable sharing of water resources and counteract the pressures of economic growth that may pose risks to social welfare and environmental sustainability Shifting Cultivation and Environmental Change

Malcolm F. Cairns, 2015-01-09 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 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 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 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 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 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 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

A Place-Based Perspective of Food in Society Kevin M. Fitzpatrick, Don Willis, 2015-08-18 This book provides an outstanding collection of interdisciplinary and international essays examining the food place relationship It explores such topics as the history of food and agriculture the globalization and localization of food and the role of place in defining the broader societal consequences of this ever changing phenomena

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

Rethinking Environmentalism Sharachchandra Lele, Eduardo S. Brondizio, John Byrne, Georgina M. Mace, Joan Martinez-Alier, 2019-03-29 A multidisciplinary examination of alternative framings of environmental problems with using examples from forest water energy and urban sectors Does being an environmentalist mean caring about wild nature Or is environmentalism synonymous with concern for future human well being or about a fair apportionment of access to the earth s resources and a fair sharing of pollution burdens Environmental problems are undoubtedly one of the most salient public issues of our time yet environmental scholarship and action is marked by a fragmentation of ideas and approaches because of the multiple ways in which these environmental problems are framed Diverse framings prioritize different values and explain problems in various ways thereby suggesting different solutions Are more inclusive framings possible Will this enable more socially relevant impactful research and more concerted action and practice This book takes a multidisciplinary look at these questions using examples from forest water energy and urban sectors It explores how different forms of environmentalism are shaped by different normative and theoretical positions and attempts to bridge these divides Individual perspectives are complemented by comprehensive syntheses of the differing framings in each sector By self reflectively exploring how researchers study and mobilize evidence about environmental problems the book opens up the possibility of alternative framings to advance collaborative and integrated understanding of environmental problems and sustainability challenges

Land-Use and Land-Cover Change Eric F. Lambin, Helmut J. Geist, 2008-01-08 This book presents recent estimates on the rate of change of major land classes Aggregated globally multiple impacts of local land changes are shown to significantly affect central aspects of Earth System functioning The book offers innovative developments and applications in the fields of modeling and scenario construction Conclusions are also drawn about the most pressing implications for the design of appropriate intervention policies

Science in the Forest, Science in the Past Geoffrey E. R. Lloyd, Aparecida Vilaça, 2020-12-31 This collection brings together leading anthropologists historians philosophers and artificial intelligence researchers to discuss the sciences and mathematics used in various Eastern Western and Indigenous societies both ancient and contemporary The authors analyze prevailing assumptions about these societies and propose more faithful sensitive analyses of their ontological views about reality a step toward mutual understanding and translatability across cultures and research fields Science in the

Forest Science in the Past is a pioneering interdisciplinary exploration that will challenge the way readers interested in sciences mathematics humanities social research computer sciences and education think about deeply held notions of what constitutes reality how it is apprehended and how to investigate it *Routledge Handbook of the Environment in Southeast Asia* Philip Hirsch,2016-09-13 The environment is one of the defining issues of our times and it is closely linked to questions and dilemmas surrounding economic development Southeast Asia is one of the world s most economically and demographically dynamic regions and it is also one in which a host of environmental issues raise themselves The Routledge Handbook of the Environment in Southeast Asia is a collection of 30 chapters dealing with the most significant scholarly debates in this rapidly growing field of study Structured in four main parts it gives a comprehensive regional overview of and insight into the environment in Southeast Asia Wide ranging and balanced this handbook promotes scholarly understanding of how environmental issues are dealt with from diverse theoretical perspectives It offers a detailed empirical understanding of the myriad environmental problems and challenges faced in Southeast Asia This is the first publication of its kind in this field a helpful companion for a global audience and for scholars of Southeast Asian studies from a variety of disciplines

Giannini Reporter ,2007 Shifting Cultivation and Secondary Succession in the Tropics Albert O. Aweto,2013-01-01 Shifting cultivation is the predominant system of arable farming in the humid and sub humid tropics where several hundred million people depend on this system of agriculture for their livelihood This book documents and systematizes findings in shifting cultivation from over the last six decades including characterizing secondary succession and relating the changes that fallow vegetation undergoes to the process of soil fertility restoration This book is essential reading for researchers and students of tropical agriculture and related areas **Agroforestry** Jagdish Chander Dagar,Vindhya Prasad Tewari,2018-04-06 Agroforestry AF is a dynamic ecologically based natural resources management system that by integrating trees on farms ranches and in other landscapes diversifies and increases production and promotes social economic and environmental benefits for land users Further it is receiving increasing attention as a sustainable land management option worldwide because of its ecological economic and social attributes Advances have been achieved by building on past research accomplishments and expanding AF s stakeholder base which now includes private public partnerships communities ecologists farmers indigenous peoples and policymakers in both temperate and tropical countries AF has now been recognized as a valuable problem solving approach to ensuring food security and rebuilding resilient rural environments Recent studies have shown that more than 1 billion hectares of agricultural land have more than 10% tree cover Of this area 160 million hectares have more than 50% tree cover Agricultural ecosystems can be further improved through AF to achieve environmental restoration greater farm productivity and key ecological services including climate change mitigation and adaptation for improved rural livelihood In fact it is largely considered synonymous with climate smart agriculture and a remedy for many modern environmental challenges Consequently AF s knowledge base is being expanded

at a rapid rate as illustrated by the increasing number and quality of scientific publications on various forms and different aspects of AF This book offers state of the art information on the fundamental concepts and history of AF and its evolution as a science presenting a wealth of advanced research results and evaluations relating to different aspects of AF Accordingly it will be useful for a broad readership including students foresters farmers local communities indigenous peoples civil society institutions media policymakers and the general public

Current Trends in Human Ecology Alpina Begossi, Priscila Lopes, 2009-01-14 An exercise of interdisciplinarity at the crossroads of humans and the environment this could be one definition of human ecology as it is demonstrated within this book Examples of different branches of human ecology are shown as feasible alternatives to understand the interactions of human culture and behaviour with the natural environment from all parts of the world Current trends ranging from climate change to ecological knowledge and environmental co management are deeply exploited using a diversified array of empirical case studies Theoretical aspects are included and examined in every case including the evolution of culture values and webs of information within cultures The central theme approaches and reveals the social cultural economic and ecological processes which link human beings to their environment From a mixture of practice and theory we emerge with alternatives to mitigate and prevent the accelerating negative changes currently witnessed on our planet where increasingly fewer people are safe More importantly this book provides examples showing how those whose lives are deeply rooted on a direct natural resource dependency are the first to be affected by the global trend of environmental degradation Small scale fishers farmers and herders from the tropics and from cold regions have their livelihood affected by global changes regional politics and cultural exchanges Whether and how they will survive adapt or embody such changes is not known and this is one more reason to include and involve local groups when searching for sustainable solutions In a changing world exploring current threats and impacts of human actions on the environment is a necessity but bringing about alternatives some of them already part of traditional human practices is urgent and can turn to be a promising solution Anthropology sociology and ecology come together in this book where the unifying goal of theorizing and practising interdisciplinarity in human ecology is shown by closely tracking examples of current trends and developments This book is a harvest from the XV International Meeting of the Society for Human Ecology engaging over 200 people from 27 countries from all continents held in Rio de Janeiro Brazil October 4 7 2007 organized by A Begossi and P Lopes with the support of the Fisheries and Food Institute FIFO and the State University of Campinas UNICAMP This volume ends by indicating several lines of thought and of analyses on current subjects as follows sustainability in different cultural contexts and perspectives methods towards approaching sustainable systems and current global concerns Those include agriculture in tropical areas slash and burn practices climate change and nature and human behavioural patterns among others

World Agroforestry Centre annual report 2005: Agroforestry science to support the millennium development goals, 2005

Soil Biology and Agriculture in the Tropics Patrice Dion, 2010-02-04 The relationships between soils microbes

and humans are of crucial relevance in the tropics where plant stress and microbial activity are exacerbated This volume of Soil Biology presents the living component of tropical soils showing how it is shaped by environmental conditions and emphasizing its dramatic impact on human survival and well being Following an introduction to the specificities of tropical soils and of their microbial communities the biological aspects of soil management are examined dealing with land use change conservation and slash and burn agriculture the restoration of hot deserts agroforestry and paddy rice cultivation As they are of particular relevance for tropical agriculture symbioses of plants and microbes are thoroughly covered as are the biodegradation of pesticides and health risks associated with wastewater irrigation Lastly traditional soil knowledge is discussed as a key to our sustainable presence in this world

Regional Land Cover Changes, Sustainable Agriculture and Their Interactions with Global Change Veena Ravichandran, 1999 This Book Captures The Stimulating Deliberations Of The Costed Workshop On Regional Land Cover Changes Sustainable Agriculture And Their Impacts On Global Change Held At Chennai During December 16 19 1996 The Papers Presented Cover Wide Ranging Issues Relating To The Sustainable Use Of Natural Resources Institutional Arrangements For Land Use Policy Global Change Concerns In The Region Brought About By Unsustainable Agriculture Systems And Land Use Practices Etc

Blueprint 2 David Pearce, 2013-10-31 Following *Blueprint for a Green Economy* the Pearce Report David Pearce and his team have turned their attention to global environmental threats If it makes sense to apply economic analysis to national environmental problems then it makes even more sense to apply it to world wide dangers The authors start by describing the reasons for using economic approaches to common resources like climate ozone and biodiversity They then take a detailed look at the economic ways of tackling the issues involved in global warming ozone layer depletion environmental degradation in the Third World population rain forests aid equity international environmental co operation and what might amount to green foreign policies They show not only how to take all these things into account in economic theory but also the economic price of failing to do so *Blueprint 2* is an agenda for international and governmental economic action

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