

SLASH/MULCH SYSTEMS

Sustainable methods for tropical agriculture

H. David Thurston

Slashmulch Systems Sustainable Methods For Tropical Agriculture

Étienne Hainzelin



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Slash/mulch Systems H. David Thurston, 1997-01 Slash mulch practices particularly in the tropics have shortened the necessary fallow periods and restored degraded soils allowing small scale farmers to compete more effectively with larger commercial farmers

Slash/mulch Systems H. David Thurston, 1997

Agroforestry in Sustainable Agricultural Systems Louise E. Buck, James P. Lassoie, Erick C.M. Fernandes, 1998-12-28 Agroforestry in Sustainable Agricultural Systems examines the environmental and social conditions that affect the roles and performance of trees in field and forest based agricultural production systems Various types of ecological settings for agroforestry are analyzed within temperate and tropical regions The roles of soil water light nutrient and pest management in mixed annual woody perennial and livestock systems are discussed Important new case studies from around the world offer innovative strategies that have been used successfully in raising forests and tree products on a sustainable basis for commercial harvesting and for providing other environmental services in land conservation and watershed management

Biological Approaches to Sustainable Soil Systems Norman Uphoff, Andrew S. Ball, Erick Fernandes, Hans Herren, Olivier Husson, Mark Laing, Cheryl Palm, Jules Pretty, Pedro Sanchez, Nteranya Sanginga, Janice Thies, 2006-03-03 Global agriculture is now at the crossroads The Green Revolution of the last century is losing momentum Rates of growth in food production are now declining with land and water resources becoming scarcer while world population continues to grow We need to continue to identify and share the knowledge that will support successful and sustainable

Slash/Mulch Systems: Natural and Sustainable Pasquale De Marco, 2025-07-13 Slash Mulch Systems Natural and Sustainable offers a comprehensive guide to this ancient agricultural practice shedding light on its benefits implementation techniques and global significance Delve into the world of slash mulch systems and discover how they promote soil health enhance crop production and foster environmental stewardship Slash mulch systems have been employed for centuries providing a sustainable and eco friendly approach to agriculture This book explores the positive impacts of these systems on soil health highlighting their role in nutrient cycling soil structure improvement water infiltration and storage enhancement increased soil biodiversity and soil erosion mitigation Furthermore slash mulch systems foster positive agroecological interactions supporting beneficial soil microorganisms enhancing pollinator activity promoting agroforestry practices and maintaining ecological balance These systems contribute to increased crop yields and quality while reducing reliance on chemical inputs They enhance soil fertility and productivity making crops more resilient to climate variability and ensuring long term sustainability Beyond agricultural productivity slash mulch systems have significant economic and social implications They improve livelihoods for smallholder farmers increase food security and nutrition reduce environmental degradation empower local communities and promote inclusive agricultural practices The book also delves into the environmental stewardship benefits of slash mulch systems exploring their role in carbon sequestration and climate change mitigation biodiversity and habitat conservation water resources and

watershed protection sustainable land management practices and minimization of agriculture's environmental footprint With regional case studies the book showcases the diverse applications of slash mulch systems across various agroclimatic conditions It highlights success stories adaptation strategies challenges faced and lessons learned providing insights into the regional variations and innovations in implementing these systems If you like this book write a review

Slash-and-burn Rice Systems in the Hills of Northern Lao PDR W. Roder,2001 Ecological Management of Agricultural Weeds Matt Liebman,Charles L. Mohler,Charles P. Staver,2001-07-19 Concerns over environmental and human health impacts of conventional weed management practices herbicide resistance in weeds and rising costs of crop production and protection have led agricultural producers and scientists in many countries to seek strategies that take greater advantage of ecological processes and thereby allow a reduction in herbicide use This book provides principles and practices for ecologically based weed management in a wide range of temperate and tropical farming systems After examining weed life histories and processes determining the assembly of weed communities the authors describe how tillage and cultivation practices manipulations of soil conditions competitive cultivars crop diversification grazing livestock arthropod and microbial biocontrol agents and other factors can be used to reduce weed germination growth competitive ability reproduction and dispersal Special attention is given to the evolutionary challenges that weeds pose and the roles that farmers can play in the development of new weed management strategies

Agroecological Economics Paul Wojtkowski,2010-07-28 Agroecology is the science of applying ecological concepts and principles to the design development and management of sustainable agricultural systems Agroecological economics a subsection of agricultural economics evaluates the ecological consequences of agricultural methods on the economic scale Agroecological economics considers green engineering as a means of measurement As the environmental movement unfolds the importance of biodiversity and long term sustainability are indisputable Progress depends on determining the economic viability of terrestrial agroecosystems What is lacking is the analysis needed to bring biodiverse and sustainable systems to fruition Agroecological Economics analyzes the current topics that must be addressed in order to provide sustainable agricultural systems It explains the economics of land use ecology with emphasis on changing over from a conventional model of agriculture to environmentally and ecologically friendly models and the financial incentives that are important to these practices Analyzes agricultural solutions with economic testing Includes a complete analysis of recent biodiversity based research with valuable new economic methodologies Provides various applications to mitigate the problems which have economic and ecological effects on agroecosystems Offers applications of ecologically sound land use practices in production and manufacturing

Agroforestry and Biodiversity Conservation in Tropical Landscapes Götz Schroth,Gustavo A. B. da Fonseca,Celia A. Harvey,Claude Gascon,Heraldo L. Vasconcelos,Anne-Marie N. Izac,2013-03-22 Agroforestry the practice of integrating trees and other large woody perennials on farms and throughout the agricultural landscape is increasingly recognized as a useful and promising strategy that

diversifies production for greater social economic and environmental benefits Agroforestry and Biodiversity Conservation in Tropical Landscapes brings together 46 scientists and practitioners from 13 countries with decades of field experience in tropical regions to explore how agroforestry practices can help promote biodiversity conservation in human dominated landscapes to synthesize the current state of knowledge in the field and to identify areas where further research is needed Agroforestry and Biodiversity Conservation in Tropical Landscapes is the first comprehensive synthesis of the role of agroforestry systems in conserving biodiversity in tropical landscapes and contains in depth review chapters of most agroforestry systems with examples from many different countries It is a valuable source of information for scientists researchers professors and students in the fields of conservation biology resource management tropical ecology rural development agroforestry and agroecology Agroecosystem Sustainability Stephen R. Gliessman, 2000-09-25

Agroecologists from around the world share their experiences in the analysis and development of indicators of agricultural sustainability in Agroecosystem Sustainability Developing Practical Strategies The authors build on the resource conserving aspects of traditional local and small scale agriculture while at the same time drawing on modern e Introduction to Agroecology Paul Wojtkowski, 2024-11-01 A crucial reference textbook that provides a wide spectrum of information in one easily understandable source The essence of agroecology lies in harnessing and harmonizing the forces of nature for productive purpose Introduction to Agroecology Principles and Practices comprehensively explains how this is done providing a detailed inclusive look at the underlying theories concepts and practices This allows the reader to explore the full range of possibilities of the nature agricultural interface and to view agroecology in its entirety all while providing a clear understanding of the inherent complexity Productive threats to cropping such as soil depletion drought plant eating insects heat and cold weeds and small and large animals are discussed in depth with preventative strategies for each all together in one easy to use book This unique introductory reference source is not only aimed at the novice but also the more advanced student In a departure from the norm for introductory material extensive endnotes elaborate upon the basic information presenting a full look at the arguments and controversies within the field The endnotes include over 500 citations offering a broad window that encompasses ecology sociology conservation and environmental studies and several other fields The text also contains numerous charts figures and tables to clarify data and ideas Introduction to Agroecology reviews and discusses agroecological goals such as profit quality of life and minimum disturbance of the natural ecosystem spatial principles with resource concepts such as capture production balance and biodiversity planting densities ratios and spatial patterns facilitation of nutrient and water capture transfer ecosystem governance certainty sustainability threats such as drought wind flood temperature and fire the use of fences repellent plants fauna and other means to stave off large animal threats basic insect countermeasures agrotechnologies subdivision scaling design packages agrobiodiversity adjustments and mimicry monocultures seasonal intercropping facilitative and productive agroforestry the use of reservoirs corridors wind

structures riparian buffers firebreaks and other means as auxiliary systems land modification social and community agroecology core approaches to alternative agriculture including genetic microbial varietal rotational and others agroecosystem design many many more topics Introduction to Agroecology is a unique and accessible reference for those who seek a deeper understanding of the mechanisms and practices that provide a solid foundation for the study of agroecology including researchers extension advisors instructors and students

Water and Nutrient Dynamics of a Humid Tropical Agricultural Watershed in Eastern Amazonia Bart Wickel, 2004

Cultivating Biodiversity to Transform Agriculture Étienne Hainzelin, 2013-12-04 How can cultivated plant biodiversity contribute to the transformation and the ecologization of agriculture in Southern countries Based on extensive field work in the Southern countries a great deal of scientific progress is presented in all areas affecting agriculture agronomy plant breeding and crop protection cultivation systems etc in order to intensify the ecological processes in cultivated plots and at the scale of rural landscapes

Cover Crops in West Africa Albert Eteka, Olu Osiname, Marcel Galiba, Norma Galiano, 1998-01-15 Cover Crops in West Africa Contributing to Sustainable Agriculture

Cultivated Landscapes of Native Amazonia and the Andes William M. Denevan, 2002 Cultivated Landscapes of Native Amazonia and the Andes examines Indian agriculture in South America The focus is on field types and field technologies including agricultural landforms such as terraces canals and drained fields which have persisted for hundreds of years What emerges is a picture of mostly successful indigenous farming practices in difficult environments rain forests savannahs swamps rugged mountains and deserts

Cover Crops in Hillside Agriculture Daniel Buckles, Bernard Triomphe, Gustavo Sain, International Development Research Centre (Canada), International Maize and Wheat Improvement Center, 1998 Cover Crops in Hillside Agriculture Farmer innovation with Mucuna

Sustainable Land Management World Bank, 2006-06-23 Land is the integrating component of all livelihoods depending on farm forest rangeland or water rivers lakes coastal marine habitats Due to varying political social and economic factors the heavy use of natural resources to supply a rapidly growing global population and economy has resulted in the unintended mismanagement and degradation of land and ecosystems Sustainable Land Management provides strategic focus to the implementation of sustainable land management SLM components of the World Bank's development strategies SLM is a knowledge based procedure that integrates land water biodiversity and environmental management to meet rising food and fiber demands while sustaining livelihoods and the environment This book aimed at policy makers project managers and development organization articulates priorities for investment in SLM and natural resource management and identifies the policy institutional and incentive reform options that will accelerate the adoption of SLM productivity improvements and pro poor growth

Nurturing the Soil-feeding the People Winfried Scheewe, 2000

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The Maya and Climate

Change Kenneth E. Seligson, 2023 One of the most well known things about the Classic Maya civilization is that it collapsed which leads to many questions about what happened Geared toward a general audience this book argues that Classic Maya civilization did not in fact collapse in the literal sense of the word Instead it shifts the focus to the 700 plus years of societal growth and environmental conservation that preceded the transformation of Maya civilization about 1 000 years ago Drawing on archaeological environmental and historical evidence it explores the many ways that Maya communities addressed the challenges of climate change and other tropical environment stressors

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