

# SOIL SCIENCE AND SUSTAINABLE LAND MANAGEMENT IN THE TROPICS

*Edited by*  
J.K. Syers & D.L. Rimmer



British Society  
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# Soil Science And Sustainable Land Management In The Tropics

**Ronald E. Hester, Roy M. Harrison**



## **Soil Science And Sustainable Land Management In The Tropics:**

Soil Science and Sustainable Land Management in the Tropics John Keith Syers, D. L. Rimmer, C.A.B. International, British Society of Soil Science, 1994

Soil science and sustainable land management  
Evaluation of the soil and land resource  
Proposals for quantitative criteria in the management of sustainable agricultural systems  
Soil erosion and conservation  
A place for soil science  
Agroforestry practices to control runoff and erosion on steep lands in Ilocos Norte, Philippines  
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The use of simplified nutrient balances at farm level to determine boundary conditions for sustainable production  
The economic context of soil science  
Soil Science research developing countries  
Towards a holistic approach  
Soil science and better land use in the tropics

**Soil fertility research for maize-based farming systems in Malawi and Zimbabwe** Stephen R. Waddington, 1998

**Soil Quality and Agricultural Sustainability** R. Lal, 1998-11-01

Soil degradation causes a shrinking of arable land resources and the persistence of starvation and malnutrition. The depletion is compounded by the increasing populations of developing tropical nations and the conversion of agricultural land to other uses. As a result, per capita grain harvesting and irrigated land is in steady decline all over the world. The decrease in horticultural resources and productivity has inspired **Soil Quality and Agricultural Sustainability**, which is based primarily on papers presented at the 1996 conference on soil degradation sponsored by Ohio State University, the USAID and the International Agricultural Research Centers. The book addresses itself to six concerns: basic concepts and global issues; nutrient and water inputs; soil quality management in Asia, in Africa and in the Tropical Americas; and future priorities. The Editor's goal is a new paradigm in soil quality research: a multidisciplinary approach. He proposes that an erosion management program include soil scientists, hydrologists, climatologists, sedimentologists, geographers, agronomists, agricultural engineers, land use planners, economists, anthropologists, and social scientists. Lal advocates an optimistic, forward-thinking brand of soil science that concentrates on conservation and fertility. The 26 chapters explore what Lal considers to be the priorities: agricultural sustainability, soil quality, food security, quality restoration, long-term management, and the failure to adopt new technology. In sum, they paint a comprehensive portrait of the current state and future prospects for worldwide agronomic viability.

**Land Use, Land Cover and Soil Sciences -**

**Volume VI** Willy H. Verheye, 2009-09-19 This Encyclopedia of Land Use Land Cover and Soil Sciences is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Land is one of our most precious assets It represents space provides food and shelter stores and filters water and it is a base for urban and industrial development road construction leisure and many other social activities Land is however not unlimited in extent and even when it is physically available its use is not necessarily free either because of natural limitations too cold too steep too wet or too dry etc or because of constraints of access or land tenure This 7 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It carries state of the art knowledge in the fields of Land Use Land Cover and Soil Sciences and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

**Soil Fertility Decline in the Tropics** Alfred E. Hartemink, 2003 Wide coverage of soils and perennial cropping systems in the tropics Synthesis of decades of research Challenges assumptions on the benefits of plantations for soil fertility It is generally assumed that soil fertility decline is widespread in the tropics and that this is largely associated with annual cropping and subsistence farming In contrast perennial plant cover as in plantation agriculture provides better protection for the soil This book reviews these concepts focusing on soil chemical changes under different land use systems in the tropics These include perennial crops annual crops and forest plantations Two case studies on sisal plantations in Tanzania and sugar cane in Papua New Guinea are presented for detailed analysis The author demonstrates that soil fertility decline is also a problem on plantations

*Principles and Practice of Soil Science* Robert E. White, 2013-05-06 Principles and Practice of Soil Science Fourth Edition provides a current and comprehensive introduction to soil science for students in the fields of environmental and agricultural science ecology soil and land management natural resource management and environmental engineering Covers all aspects of soil science including soil habitat processes in the soil environment and soil management Emphasizes the applications of soil science to the solution of practical problems in soil and land management Highlights real world examples drawn from the author's international experience in the field Includes an expanded colour section of soil profiles and other features and greater coverage of international soil classification Features new problem sets and questions at the end of each chapter designed to reinforce important principles An answer key is provided at the end of the text Artwork from the book is available to instructors online at [www.blackwellpublishing.com/white](http://www.blackwellpublishing.com/white)

*Managing Organic Matter in Tropical Soils: Scope and Limitations* Christopher Martius, Holm Tiessen, Paul L.G. Vlek, 2013-11-11 Soil organic matter is a reservoir for plant nutrients provides water holding capacity stabilizes soil structure against compaction and erosion and thus determines soil productivity All agriculture to some degree depends on soil organic matter It has long been known that soil organic matter declines when land is taken into cultivation and that the productivity of new agricultural land is governed by fertility contributions from decomposing natural

organic matter The expansion of agriculture to ever new and more fragile lands particularly in tropical and developing regions causes environmental degradation with local effects on soil quality regional effects on landscape integrity and water quality and global effects on carbon cycles and the atmosphere This book summarizes current knowledge of the properties and dynamics of soil organic matter in the tropics its role in determining soil quality its stability and turnover and the options for management in the context of tropical landuse systems for a readership of resource scientists economists and advanced students Maintenance of organic matter is critical for preventing land degradation Case studies and practical applications are therefore an important part of the book as are the exploration of future directions in research and management

**Encyclopedia of Soil Science** Rattan Lal, 2006 Upholding the high standard of quality set by the previous edition this two volume second edition offers a vast array of recent peer reviewed articles It showcases research and practices with added sections on ISTIC World Soil Information root growth and agricultural management nitrate leaching management podzols paramos soils water repellent soils rare earth elements and more With hundreds of entries covering tillage irrigation erosion control ground water and soil degradation the book offers quick access to all branches of soil science from mineralogy and physics to soil management restoration and global warming Publisher's website [Sustainable Land Management in the Tropics](#) Fred Zaai, 2016-04-01 Bringing together case studies from Kenya Benin Cameroon and the Philippines this volume provides a multidisciplinary overview of the economics of natural resource management in Tropical regions at household and village level By comparing a wide array of climatic and economic conditions it examines the effect of location and access to the market as well as the importance of national policies have on soil and water conservation The book not only analyzes the benefits of soil and water conservation based on econometric studies but also assesses the costs involved In doing so it challenges commonly held assumptions about poorer community's ability to finance such measures

[Advances in Agronomy](#), 2011-07-29 Advances in Agronomy continues to be recognized as a leading reference and a first rate source for the latest research in agronomy As always the subjects covered are varied and exemplary of the myraid of subject matter dealt with by this long running serial Volume 89 contains six comprehensive and timely reviews Chapter 1 presents a thorough coverage of wet chemistry and state of the art molecular scale techniques such as x ray absorption fine structure XAFS and nuclear magnetic resonance NMR spectroscopies that can be used to characterize phosphorus in organic wastes Chapter 2 discusses the Wheat Genetics Resource Center that has served the scientific community for 25 years These resources have been useful to scientists in 45 countries and 39 of the states in the U S Chapter 3 covers various aspects of the biology and management of Stevia a sweet herb of Paraguay Chapter 4 is a timely review of aspects of soil fertility decline in the tropics as assessed by soil chemical measurements Chapter 5 covers nematode interactions and assessment of models for their control on crop plants Chapter 6 presents data and algorithms on ammonia emission from animal operations a current area of much interest in the area of environmental quality Over 40 figures and 32 tables Presents a review of the

present and future status of soil science Offers an analysis of biodiversity in agronomy *Human Activities and the Tropical Rainforest* Bernard K. Maloney, 2013-11-11 Arising initially from a conference the papers published here have been integrated into book form to provide information on human activities and the tropical rainforest in the past and present and on the possible future of the rainforest in a unique way Other books have considered some but not all of these themes however none has stressed the continuity of change over time and its possible outcome for the people of the forest as well as for the forest itself Because of the approach taken this book should appeal across traditional disciplinary boundaries Indeed a prime aim has been to suggest that rainforest because of its complexity and the complexity of people rainforest relationships throughout time deserves study from a broad perspective This book poses more questions than answers about the rainforest and it is hoped that it will encourage readers to think about the rainforest in a wider way than hitherto This book is aimed at geographers physical and human social anthropologists archaeologists pedologists foresters and tropical botanists and will be of value to graduates of various disciplines setting out to research the rainforest

#### **Soils of Tropical Forest**

**Ecosystems** Andreas Schulte, Daddy Ruhayat, 2013-03-14 An understanding of the characteristics and the ecology of soils particularly those of forest ecosystems in the humid tropics is central to the development of sustainable forest management systems The present book examines the contribution that forest soil science and forest ecology can make to sustainable land use in the humid tropics Four main issues are addressed characteristics and classification of forest soils chemical and hydrological changes after forest utilization soil fertility management in forest plantations and agroforestry systems as well as ecosystem studies from the dipterocarp forest region of Southeast Asia Additionally case studies include work from Guyana Costa Rica the Philippines Malaysia Australia and Nigeria

#### **Nitrogen Fixation in Tropical Cropping Systems**

Ken E. Giller, 2001-01-01 The second edition of this book first published in 1991 and intended for students and researchers contains revised and updated material on the theory and practice of nitrogen fixation in tropical cropping systems There are 15 chapters in 3 parts Part I Introduction contains 5 chapters on tropical environments climate soils and cropping systems nitrogen fixing organisms the process of nitrogen fixation assessment of the role of nitrogen fixation and cycling of nitrogen in tropical cropping systems Part II Tropical crops and cropping systems comprises 7 chapters on freeliving root associated and endophytic nitrogen fixing bacteria of cereal crops and grasses cyanobacteria and Azolla as green manure for wetland rice grain legumes legumes as green manures and cover crops forage legumes understorey legumes and shade trees in plantation crops and nitrogen fixing trees in agroforestry Part III optimizing nitrogen fixation includes 3 chapters on environmental constraints approaches to enhancement and future impacts on nitrogen fixation in tropical agriculture A list of common names and subject index are included

#### **Soils and Food Security** Ronald E. Hester, Roy M. Harrison, 2012

This book the 35th volume of *Issues in Environmental Science and Technology* examines the current status of soils across the globe and their potential for food production to meet the needs of the World's population in the 21st Century

#### Nitrogen

Economy in Tropical Soils N. Ahmad, 2012-12-06 Nitrogen Economy in Tropical Soils presents an authoritative and comprehensive state of the art review on soil plant nitrogen inter relationships with special reference to tropical soils and crops in aerobic and anaerobic environments Use of isotopically labelled nitrogen in experimentation especially in tropical environments and recently developed analytical techniques for soil and plant materials are presented An important aspect is the emphasis placed on the impact of the tropical environment on nitrogen transformations in the soil environment This book should be an excellent source of information for senior undergraduate and graduate students with interest in soil plant nitrogen inter relationships and for all levels of research workers in these fields Sustainable Land Management for the 21st Century: Workshop summary R. C. Wood, Julian Dumanski, 1993 **History of Research on Nitrogen Fixation in Soybeans (1887-2018)** William Shurtleff; Akiko Aoyagi, 2018-11-26 This is the world's most comprehensive well documented and well illustrated book on this subject With extensive subject and geographical index 91 photographs and illustrations mostly color Free of charge **Conservation and Improvement of Sloping Lands, Vol. 1** P J Storey, 2024-11-01 This book offers a positive response to the challenge to both conserve and improve the soil and water situation particularly on sloping lands It explains how even apparently useless land can be brought into production using locally available resources **Tropical Environments** Martin Kellman, Rosanne Tackaberry, 2003-09-02 Provides a comprehensive introduction to the complex systems of the tropics covering a broad cross regional range of humid through to semi arid tropical climate zones Offers a balanced mix of biophysical and human management issues **Developing Drought and Low N-tolerant Maize** G. O. Edmeades, 1996 Incidence and intensity of drought and low N stresses in the tropics Case studies strategies for crop production under drought and low n stresses in the tropics Stress physiology and identification of secondary traits Physiology of low nitrogen stress Breeding for tolerance to drought and low n stresses General breeding strategies for stress tolerance Progress in breeding drought tolerance Progress in breeding low nitrogen tolerance Experimental design and software

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