

# Decoupling Of Deforestation And Soy Production In The

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*Science, Technology, and Innovation for Sustainable Development Goals* - Ademola A. Adenle 2020-07-28

After the United Nations adopted the 17 Sustainable Development Goals (SDGs) to "end poverty, protect the planet, and ensure prosperity for all," researchers and policy makers highlighted the importance of targeted investment in science, technology, and innovation (STI) to make tangible progress. Science, Technology, and Innovation for Sustainable Development Goals showcases the roles that STI solutions can play in meeting on-the-ground socio-economic and environmental challenges among domestic and international organizations concerned with the SDGs in three overlapping areas: agriculture, health, and environment/energy. Authors and researchers from 31 countries tackle both big-picture questions, such as scaling up the adoption and diffusion of new sustainable technologies, and specific, localized case studies, focusing on developing and middle-income countries and specific STI solutions and policies. Issues addressed include renewable energy, automated

vehicles, vaccines, digital health, agricultural biotechnology, and precision agriculture. In bringing together diverse voices from both policy and academic spheres, this volume provides practical and relevant insights and advice to support policy makers and managers seeking to enhance the roles of STI in sustainable development.

**Global Latin America** - Matthew C. Gutmann 2016-09-20  
"Latin America has a unique historical and cultural context, is home to emerging global powers such as Brazil and Mexico, and is tied to world regions including China, India, and Africa. Global Latin America considers this regional interconnectedness and examines its meaning and impact in a global world. Its innovative essays, interviews, and stories highlight the insights of public intellectuals, political leaders, artists, academics, and activists, thereby allowing students to gain an appreciation of the diversity and global relevance of Latin America in the twenty-first century"-  
-Provided by publisher.

**China and Sustainable Development in Latin America** -  
Rebecca Ray 2017-01-02

During Latin America's China-led commodity boom, governments turned a blind eye to the inherent flaws in the region's economic policy. Now that the commodity boom is coming to an end, those flaws cannot be ignored. High on the list of shortcomings is the fact that Latin American governments—and Chinese investors—largely fell short of mitigating the social and environmental impacts of commodity-led growth. The recent commodity boom exacerbated pressure on the region's waterways and forests, accentuating threats to human health, biodiversity, global climate change and local livelihoods. *China and Sustainable Development in Latin America* documents the social and environmental impact of the China-led commodity boom in the region. It also highlights important areas of innovation, like Chile's solar energy sector, in which governments, communities and investors worked together to harness the commodity boom for the benefit of the people and the planet.

*Handbook of Bioenergy Economics and Policy: Volume II* -  
Madhu Khanna 2017-05-22

In its second volume, this book aims to link the academic research with development in the real world and provide a historical and institutional background that can enrich more formal research. The first section will include an assessment of the evolution and the state of the nascent second-generation biofuel as well as a perspective on the evolution of corn ethanol and sugarcane ethanol in Brazil. It will also include a historical and institutional background on the biofuel industry in Brazil that has global lessons, and later, provide a technical overview of major analytical tools used to assess the economic, land use and greenhouse gas

implications of biofuel policies at a regional and global level. Additionally, the book analyzes the various drivers for land use change both at a micro-economic level and at a macro-economic level. It presents studies that apply regional and global economic models to examine the effects of biofuel policies in the US, EU and Brazil on regional and global land use, on food and fuel prices and greenhouse gas emissions. These papers illustrate the use of partial and general equilibrium modeling approaches to simulate the effects of various biofuel policies, and includes studies showing the effects of risk aversion, time preferences and liquidity constraints on farmers decision to grow energy crops for biofuel production. By presenting the tools of lifecycle analysis for assessing the direct greenhouse gas intensity of biofuels, this handbook investigates the types of indirect or market mediated effects that can offset or strengthen these direct effects. It will include tools to assess the direct and indirect effects of biofuel production on greenhouse gas emissions in the US and Brazil, and ultimately provide a comprehensive background to understand the state of biofuel in the present and how to analyze their implication.

On the Edge - Claude Martin 2015-04-20

In 1972, *The Limits to Growth* introduced the idea that world resources are limited. Soon after, people became aware of the threats to the world's rainforests, the biggest terrestrial repositories of biodiversity and essential regulators of global air and water cycles. Since that time, new research and technological advances have greatly increased our knowledge of how rainforests are being affected by changing patterns of resource use. Increasing concern about climate change has made it more

important than ever to understand the state of the world's tropical forests. This book provides an up-to-date picture of the health of the world's tropical forests. Claude Martin, an eminent scientist and conservationist, integrates information from remote imaging, ecology, and economics to explain deforestation and forest health throughout the world. He explains how urbanization, an increasingly global economy, and a worldwide demand for biofuels put new pressure on rainforest land. He examines the policies and market forces that have successfully preserved forests in some areas and discusses the economic benefits of protected areas. Using evidence from ice core records and past forest cover patterns, he predicts the most likely effects of climate change. Claude Martin brings his wealth of experience as an ecologist, director of the WWF, and advisor to various conservation organizations to bear on the latest research from around the world. Contributions from eight leading experts provide additional insight.

*Liquid Biofuels: Emergence, Development and Prospects* - Sherrill Edwards 2014-07-03

Bioenergy is coming to be seen as a priority on the international agenda, with the use of liquid biofuels a key strategy in the attempt to meet both the demand for environmental sustainability and the energy needs of countries. The growth in the production and use of biofuels around the world has led to increased interest and discussion about this subject. Given the dynamics of this phenomenon, the organizers of this book, based on more than 10 years experience of joint research on this subject, seek to address key issues relating to the production and marketing of liquid biofuels using the Brazilian experience with ethanol and biodiesel as an

illustrative case, as well as the experiences of the leading producers and consumers of biofuels. The topics to be covered in this book include the role of public policies in fostering the emergence of the biofuels industry, the main socio-economic, environmental, technological aspects and the prospects for the sector. The conceptual and methodological bases that provide analytical support to the book are based on recent research published in indexed journals. The structure and content of the book seek to address some central issues regarding: How the biofuel industries have emerged and developed in different countries? What factors have been crucial to the success or failure of different production initiatives? What are the main socio-economic-environmental impacts of the production and consumption of liquid biofuels? How are national and international markets for liquid biofuels being structured? To what extent and/or in what conditions can the experiences and lessons learned at the national level be transferred and adapted in other countries? Finally, based on the scenarios, the prospects for liquid biofuels will be discussed.

**Biofuel Cropping Systems** - Hans Langeveld 2014-01-21  
Choosing appropriate practices and policies for biofuel production requires an understanding of how soils, climate, farm types, infrastructure, markets and social organisation affect the establishment and performance of these crops. The book highlights land use dynamics, cultivation practices related to conversion and wider impacts. It explores how biofuel production chain development is steered by emerging technologies and management practices and how both can be influenced by effective policies designed to encourage sustainable biofuel production. The book highlights major biofuel

production chains including: cane cultivation in Brazil corn ethanol in the USA wheat and rapeseed in Europe oil palm in the Far East cane in Asia and Africa SRC and other lignocellulosic crops. In each case the development, cropping systems and impacts are discussed, system dynamics are shown and lessons drawn for the way things could or should change. Biofuel Cropping Systems is a vital resource for all those who want to understand the way biofuels are produced and how they impact other elements of society and especially how improvements can be made. It is a handbook for students, biofuel producers, researchers and policymakers in energy and agriculture.

**Guardians of the Brazilian Amazon Rainforest: Environmental Organizations and Development** - Luiz C. Barbosa 2015-05-08

The Amazon region is the focus of intense conflict between conservationists concerned with deforestation and advocates of agro-industrial development. This book focuses on the contributions of environmental organizations to the preservation of Brazilian Amazonia. It reveals how environmental organizations such as Greenpeace, Friends of the Earth, WWF and others have fought fiercely to stop deforestation in the region. It documents how the history of frontier expansion and environmental struggle in the region is linked to Brazil's position in an evolving capitalist world-economy. It is shown how Brazil's effort to become a developed country has led successive Brazilian governments to devise development projects for Amazonia. The author analyses how globalization has led to the expansion of international commodity chains in the region, particularly for mineral ores, soybeans and beef. He shows how environmental organizations have

politicized these commodity chains as weapons of conservation, through boycotting certain products, while other pro-development groups within Brazil claim that such organizations threaten Brazil's sovereignty over its own resources.

Additional Resources - Chapter 1. Food -

Ashford, and Michael Vlassoff, Adding It Up: The Costs and Benefits of Investing in Family Planning and Maternal and Newborn Health (New York: Guttmacher Institute and United Nations Population Fund, 2009).

[...] Food and Agriculture Organization, Review of the State of World Marine Fishery Resources (Rome: 2011).

[...] Food and Agriculture Organization, The State of Food and Agriculture 2009: Livestock in the Balance

(Rome: 2009). [...] Food and Agriculture Organization, The State of Food and Agriculture 2008-Biofuels:

Prospects, Risks and Opportunities (Rome: 2008). [...]

Shimabukuro, "Decoupling of Deforestation and Soy Production in the South Amazon During the Late 2000s,"

Proceedings of the National Academy of Sciences, vol. *Google Earth Engine Applications* - Lalit Kumar 2019-04-23

In a rapidly changing world, there is an ever-increasing need to monitor the Earth's resources and manage it sustainably for future generations. Earth observation from satellites is critical to provide information required for informed and timely decision making in this regard. Satellite-based earth observation has advanced rapidly over the last 50 years, and there is a plethora of satellite sensors imaging the Earth at finer spatial and spectral resolutions as well as high temporal resolutions. The amount of data available for any single location on the Earth is now at the petabyte-scale. An ever-increasing capacity and computing power is needed

to handle such large datasets. The Google Earth Engine (GEE) is a cloud-based computing platform that was established by Google to support such data processing. This facility allows for the storage, processing and analysis of spatial data using centralized high-power computing resources, allowing scientists, researchers, hobbyists and anyone else interested in such fields to mine this data and understand the changes occurring on the Earth's surface. This book presents research that applies the Google Earth Engine in mining, storing, retrieving and processing spatial data for a variety of applications that include vegetation monitoring, cropland mapping, ecosystem assessment, and gross primary productivity, among others. Datasets used range from coarse spatial resolution data, such as MODIS, to medium resolution datasets (Worldview -2), and the studies cover the entire globe at varying spatial and temporal scales.

Biokerosene - Martin Kaltschmitt 2017-08-09

This book provides a detailed overview of aspects related to the overall provision chain for biokerosene as part of the global civil aviation business. Starting with a review of the current market situation for aviation fuels and airplanes and their demands, it then presents in-depth descriptions of classical and especially new types of non-edible biomass feedstock suitable for biokerosene provision. Subsequent chapters discuss those fuel provision processes that are already available and those still under development based on various biomass feedstock materials, and present e.g. an overview of the current state of the art in the production of a liquid biomass-based fuel fulfilling the specifications for kerosene. Further, given the growing interest of the aviation industry and airlines in

biofuels for aviation, the experiences of an air-carrier are presented. In closing, the book provides a market outlook for biokerosene. Addressing a broad range of aspects related to the pros and cons of biokerosene as a renewable fuel for aviation, the book offers a unique resource.

**The Routledge Research Companion to Energy Geographies** - Stefan Bouzarovski 2017-07-06

Energy has become a central concern of many strands of geographical inquiry, from global climate change to the effects of energy decisions on our lives. However, many aspects of the 'black box' of relationships at the energy-society interface remain unopened, especially in terms of the spatial underpinnings of energy production and consumption within nations, cities and regions. Debates focusing on the location and nature of energy flows frequently fail to consider the multiple geographical networks that illustrate and explain the distribution of fuels and services around the world. Providing an integrated perspective on the complex interdependencies between energy and geography, The Routledge Research Companion to Energy Geographies offers a timely conceptual framework to study the multiple facets of energy geography, including security, space and place, planning, environmental science, economics and political science. Illustrating how a geographic approach towards energy can aid decision-making pathways in the domains of social justice and environment, this book provides insights that will help move the international community toward greater cooperation, stability, and sustainability.

Land Change Science, Political Ecology, and Sustainability - Christian Brannstrom 2014-01-23

Recent claims regarding convergence and divergence

between land change science and political ecology as approaches to the study of human-environment relationships and sustainability science are examined and analyzed in this innovative volume. Comprised of 11 commissioned chapters as well as introductory and concluding/synthesis chapters, it advances the two fields by proposing new conceptual and methodological approaches toward integrating land change science and political ecology. The book also identifies areas of fundamental difference and disagreement between fields. These theoretical contributions will help a generation of young researchers refine their research approaches and will advance a debate among established scholars in geography, land-use studies, and sustainability science that has been developing since the early 2000s. At an empirical level, case studies focusing on sustainable development are included from Africa, Central and South America, and Southeast Asia. The specific topics addressed include tropical deforestation, swidden agriculture, mangrove forests, gender, and household issues.

Great Powers, Climate Change, and Global Environmental Responsibilities - Robert Falkner 2022-01-10

This book is the first of its kind to examine the role of great powers in the international politics of climate change. It develops a novel analytical framework for studying environmental power in international relations, what counts as a great power in the environmental field, and what their special environmental responsibilities are. In doing so, the book connects International Relations (IR) debates on power inequality, great powers and great power management, with global environmental politics (GEP) scholarship. The book brings together leading scholars in IR and GEP whose contributions focus

on major environmental powers (United States, China, European Union, India, Brazil, Russia) and international institutions and issue areas (UN Security Council, multilateral environmental agreements, international climate leadership, coal politics). The contributors to this volume examine how individual great powers have responded to the global climate challenge and whether they have accepted a special responsibility for stabilizing the global climate. They place emerging discourses on great power responsibility in the context of wider debates about international environmental leadership and climate change securitization. And they provide new insights into how international power inequality intersects with the global ecological crisis, and what special role great powers could and should play in the international fight against global warming.

**Handbook of Green Economics** - Sevil Acar 2019-08-28  
Handbook of Green Economics reveals the breadth and depth of advanced research on sustainability and growth, also identifying opportunities for future developments. Through its multidimensional examination, it demonstrates how overarching concepts, such as green growth, low carbon economy, circular economy and others work together. Some chapters reflect on different discourses on the green economy, including pro-growth perspectives and transformative approaches that entail de-growth. Others argue that green policies can spark economic innovation, particularly in developing and emerging market economies. Part literature summary, part analysis and part argument, this book shows how the right conditions can stimulate economic growth while achieving environmental sustainability. This book will be a valuable resource for graduate students and academic researchers whose focus is on the green

economy. With an increasing interest in the topic among researchers and policymakers, users will find different theoretical perspectives and explore policy implications in this growing subject area. Covers the failures of the past, the challenges of the present, and the opportunities of the future Surveys 10 aspects of the green economy, including conceptualization, natural capital, poverty and inequality, welfare, and finance Emphasizes the theoretical and empirical aspects of greening approaches that are policy-relevant

**ITF Transport Outlook 2019** - International Transport Forum 2019-05-22

The ITF Transport Outlook provides an overview of recent trends and near-term prospects for the transport sector at a global level as well as long-term prospects for transport demand to 2050. The analysis covers freight (maritime, air, surface) and passenger transport (car, rail, air) as well ...

*Addressing Tipping Points for a Precarious Future* - Timothy O'Riordan 2013-08-22

Tipping points are zones or thresholds of profound changes in natural or social conditions with very considerable and largely unforecastable consequences. Tipping points may be dangerous for societies and economies, especially if the prevailing governing arrangements are not designed either to anticipate them or adapt to their arrival. Tipping points can also be transformational of cultures and behaviours so that societies can learn to adapt and to alter their outlooks and mores in favour of accommodating to more sustainable ways of living. This volume examines scientific, economic and social analyses of tipping points, and the spiritual and creative approaches to identifying and anticipating them. The authors focus on climate change,

ice melt, tropical forest drying and alterations in oceanic and atmospheric circulations. They also look closely at various aspects of human use of the planet, especially food production, and at the loss of biodiversity, where alterations to natural cycles may be creating convulsive couplings of tipping points. They survey the various institutional aspects of politics, economics, culture and religion to see why such dangers persist.

**Climate Change 2014 – Impacts, Adaptation and Vulnerability: Part A: Global and Sectoral Aspects: Volume 1, Global and Sectoral Aspects** -

Intergovernmental Panel on Climate Change 2014-12-29

This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) will again form the standard reference for all those concerned with climate change and its consequences, including students, researchers and policy makers in environmental science, meteorology, climatology, biology, ecology, atmospheric chemistry and environmental policy.

Animals In Brazil - Carlos Naconecy 2019-07-11

This book presents a collection of essays exploring the legal, economic, socio-environmental, and ethical dimensions of human-animal interaction in Brazil. As one of the primary global producers and exporters of beef, with a level of biodiversity in its rain-forests found nowhere else under threat, the importance of Brazil for animal life is unquestionable. Shedding light on the profound transformations in the consumption and production of animal-sourced foods that have taken place over the last five decades, the authors examine the consequences of this phenomenon for the lives of animals, the health of the population, and the

environment. The book also offers an analysis of the animal welfare and animal protection legislation in Brazil, before presenting a number of notable cases involving animal advocacy and activism in recent years. An important and timely collection, this book concludes with an exploration of the historical, socio-cultural and economic aspects that influence the Brazilian ethos regarding the morality of the treatment of animals.

Sustainability Challenges of Brazilian Agriculture - Niels Søndergaard 2023-05-24

With contributions from a wide range of thematic areas, this book provides a diverse perspective on the contemporary environmental challenges of Brazilian agriculture. Assessing existing experiences of governance interventions, implementation of inclusive and sustainable production practices, as well as technical innovations, this edited volume presents the reader with a nuanced perspective on sustainable future pathways for Brazilian agriculture. In many cases, actors within the agricultural sector stand in a key position to address environmental concerns, which often has generated important breakthroughs and improvement of production practices. Drawing on contributions from authors within a variety of fields, this contribution presents a trans-disciplinary perspective on the problems and pathways through which multi-level interventions can lead to sustainable solutions within the Brazilian agricultural and livestock sector. This book hereby constitutes an informed and timely contribution to the important debates about Brazil's potential role in confronting environmental problems. More broadly, this volume also sheds light on the process of agricultural transitions in the Global South, and how food security concerns may be reconciled with

sustainable production.

Global Forest Monitoring from Earth Observation - Frederic Achard 2016-04-19

Covering recent developments in satellite observation data undertaken for monitoring forest areas from global to national levels, this book highlights operational tools and systems for monitoring forest ecosystems. It also tackles the technical issues surrounding the ability to produce accurate and consistent estimates of forest area changes, which are needed to report greenhouse gas emissions and removals from land use changes. Written by leading global experts in the field, this book offers a launch point for future advances in satellite-based monitoring of global forest resources. It gives readers a deeper understanding of monitoring methods and shows how state-of-art technologies may soon provide key data for creating more balanced policies.

Climate Change 2014: Mitigation of Climate Change - Intergovernmental Panel on Climate Change 2015-01-26

This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) will again form the standard reference for all those concerned with climate change and its consequences, including students, researchers and policy makers in environmental science, meteorology, climatology, biology, ecology, atmospheric chemistry and environmental policy.

**Climate Emergency** - Mark Harvey 2021-07-28

This book analyses the socio-economic and political forces driving the climate emergency, developing the concept of 'sociogenic climate change' to show how societies create the crisis and are challenged by it; the development of inequalities within and between countries are at the heart of generating the emergency



and in obstructing its resolution.

**Climate Change 2014 – Impacts, Adaptation and Vulnerability: Global and Sectoral Aspects** - Christopher B. Field 2014-12-29

This latest Fifth Assessment Report of the IPCC will again form the standard reference for all those concerned with climate change and its consequences.

Land-Use Change Impacts on Soil Processes - Francis Q Brearley 2015-09-29

This book examines the effects that land-use changes (notably agricultural intensification, logging, soil erosion, urbanisation and mining) have on soil characteristics and processes in tropical and savannah environments. It covers a range of geographical regions and environments as impacts of land use change are often site specific. The effects of land use change on various aspects of the soil ecosystem from both a chemical and biological perspective will be examined.

**Handbook of Forest Resource Economics** - Shashi Kant 2014-04-03

It is increasingly recognized that the economic value of forests is not merely the production of timber. Forests provide other key ecosystem services, such as being sinks for greenhouse gases, hotspots of biodiversity, tourism and recreation. They are also vitally important in preventing soil erosion and controlling water supplies, as well as providing non-timber forest products and supporting the livelihoods of many local people. This handbook provides a detailed, comprehensive and broad coverage of forest economics, including traditional forest economics of timber production, economics of environmental role of forests, and recent developments in forest economics. The chapters are grouped into six parts: fundamental topics in forest

resource economics; economics of forest ecosystems; economics of forests, climate change, and bioenergy; economics of risk, uncertainty, and natural disturbances; economics of forest property rights and certification; and emerging issues and developments. Written by leading environmental, forest, and natural resource economists, the book represents a definitive reference volume for students of economics, environment, forestry and natural resource economics and management. *Analysing REDD+: Challenges and choices* - Arild Angelsen 2012-01-01

**Interactions Between Biosphere, Atmosphere and Human Land Use in the Amazon Basin** - Laszlo Nagy 2016-11-09

This book offers a panorama of recent scientific achievements produced through the framework of the Large-Scale Biosphere-Atmosphere programme (LBA) and other research programmes in the Brazilian Amazon. The content is highly interdisciplinary, with an overarching aim to contribute to the understanding of the dynamic biophysical and societal/socio-economic structure and functioning of Amazonia as a regional entity and its regional and global climatic teleconnections. The target readership includes advanced undergraduate and post-graduate students and researchers seeking to untangle the gamut of interactions that the Amazon's complex biophysical and social system represent.

*Sustainable Development of Biofuels in Latin America and the Caribbean* - Barry D. Solomon 2013-10-30

This book examines recent developments in Latin American biofuel production. Taking "sustainable development" as a central theme, each chapter considers one country in the region and explores how biofuel production is evolving given concerns about food sovereignty, trade

and other social issues. Environmental conservation, as well as an increasingly complex and globalized economic structure, is also taken into account. The contributions to this volume critically explore the ways in which biofuel production in Latin America impact social, economic and environmental systems: the so-called "three pillars of sustainability". Numerous stakeholders, drawn from government, industry, civil society and academia have attempted to define "Sustainable Development" in the context of biofuel production and to operationalize it through a series of principles, criteria, and highly specific indicators. Nevertheless, it remains a fluid and contested concept with deep political and social ramifications, which each chapter explores in detail.

**Environmental Assessments** - K. N. Ninan 2020-08-28

In this authoritative book, leading international experts examine the use of scenario analyses and modelling in environmental assessments. Including chapters with a global or regional focus as well as in-depth case studies from Africa, Asia, Australia, Europe, North and South America, contributors analyse the latest research on the applications of scenarios and models and explore the opportunities and challenges in using them for policy relevant research and action.

**Nature's Fortune** - Mark Tercek 2013-04-09

The CEO of the Nature Conservancy and the author of *The Future of the Wild* demonstrate how profitable business can coexist with environmentalism, explaining the economic importance of responsible natural resource stewardship while sharing guidelines for corporate decision-making that is both economically and environmentally sound.

Why Forests? Why Now? - Frances Seymour 2016-12-27

Tropical forests are an undervalued asset in meeting the

greatest global challenges of our time—averting climate change and promoting development. Despite their importance, tropical forests and their ecosystems are being destroyed at a high and even increasing rate in most forest-rich countries. The good news is that the science, economics, and politics are aligned to support a major international effort over the next five years to reverse tropical deforestation. *Why Forests? Why Now?* synthesizes the latest evidence on the importance of tropical forests in a way that is accessible to anyone interested in climate change and development and to readers already familiar with the problem of deforestation. It makes the case to decisionmakers in rich countries that rewarding developing countries for protecting their forests is urgent, affordable, and achievable.

In Pursuit of Prosperity - David Reed 2014-10-03

*In Pursuit of Prosperity* provides a much needed exploration of the evolution of environmental sustainability in U.S. foreign policy. Through expert analysis of nine countries and regions of strategic importance, David Reed and his stellar team of experts in foreign policy and environmental affairs identify emerging threats to the prosperity and national security of the United States. They assert that U.S. foreign policy must shift away from its 100-year-old focus on obtaining energy and mineral inputs for the industrial economy. In the new millennium, U.S. foreign policy must be geared toward ensuring the prosperity of the country's trading and political partners around the globe. To the degree that our partners' economies and social stability are threatened by the natural resource scarcities and environmental change unfolding within their borders and in neighboring countries, threats to

U.S. prosperity and national security increase proportionately. Directed to U.S. foreign policy makers, the intelligence and security communities, and influential think tanks and research organizations, the book proposes specific recommendations the U.S. government should embrace to respond to the disruption of global supply chains, social instability in partner countries, disruptive impacts on regional relations, and expansion of illegal trade and criminal networks. This unique focus establishes *In Pursuit of Prosperity* as a seminal work in understanding the challenges facing the United States in this period of global environmental change.

Soy, Globalization, and Environmental Politics in South America - Gustavo de L. T. Oliveira 2017-10-24

Soy in South America constitutes one of the most spectacular booms of agro-industrial commodity production in the world. It is the pinnacle of modernist agro-industrial practices, serving as a key nexus in food-feed-fuel production that underpins the agribusiness-conservationist discourse of "land sparing" through intensification. Yet soy production is implicated in multiple problems beyond deforestation, ranging from pesticide drift and contamination to social exclusion and conflicts in frontier zones, to concentration of wealth and income among the largest landowners and corporations. This book explores in depth the complex dynamics of soy production from its diverse social settings to its transnational connections, examining the politics of commodity and knowledge production, the role of the state, and the reach of corporate power in everyday life across soy landscapes in South America. Ultimately, the collection encourages us to search and struggle for agroecological

alternatives through which we may overcome the pitfalls of this massive transnational capitalist agro-industry. This book was originally published as a special issue of *The Journal of Peasant Studies*.

*The Tropical Oil Crop Revolution* - Derek Byerlee 2017

The overall aim of the book is to provide a broad synthesis of the major supply and demand drivers of the rapid expansion of oil crops in the tropics; its economic, social, and environmental impacts; and the future outlook to 2050. After introducing the dramatic surge in oil crops, chapters provide a comparative perspective from different producing regions for two of the world's most important crops, oil palm and soybeans in the tropics. The following chapters examine the drivers of demand of vegetable oils for food, animal feed, and biodiesel and introduce the reader to price formation in vegetable oil markets and the role of trade in linking consumers across the world to distant producers in a handful of exporting countries. The remaining chapters review evidence on the economic, social, and environmental impacts of the oil crop revolution in the tropics. While both economic benefits and social and environmental costs have been huge, the outlook is for reduced trade-offs and more sustainable outcomes as the oil crop revolution slows and the global, national, and local communities converge on ways to better managed land use changes and land rights.

**Progress in Water Footprint Assessment** - Arjen Y. Hoekstra 2019-06-24

Water Footprint Assessment is a young research field that considers how freshwater use, scarcity, and pollution relate to consumption, production, and trade patterns. This book presents a wide range of studies within this new field. It is argued that collective and

coordinated action—at different scale levels and along all stages of commodity supply chains—is necessary to bring about more sustainable, efficient, and equitable water use. The presented studies range from farm to catchment and country level, and show how different actors along the supply chain of final commodities can contribute to more sustainable water use in the chain.

Land Use Competition - Jörg Niewöhner 2016-07-29

This book contributes to broadening the interdisciplinary knowledge basis for the description, analysis and assessment of land use practices. It presents conceptual advances grounded in empirical case studies on four main themes: distal drivers, competing demands on different scales, changing food regimes and land-water competition. Competition over land ownership and use is one of the key contexts in which the effects of global change on social-ecological systems unfold. As such, understanding these rapidly changing dynamics is one of the most pressing challenges of global change research in the 21st century. This book contributes to a deeper understanding of the manifold interactions between land systems, the economics of resource production, distribution and use, as well as the logics of local livelihoods and cultural contexts. It addresses a broad readership in the geosciences, land and environmental sciences, offering them an essential reference guide to land use competition.

**Climate Change 2014: Mitigation of Climate Change** - Ottmar Edenhofer 2015-01-26

This latest Fifth Assessment Report of the IPCC will again form the standard reference for all those concerned with climate change and its consequences.

**Advances in Climate Change and Global Warming Research and Application: 2012 Edition** - 2012-12-26

Advances in Climate Change and Global Warming Research and Application / 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Climate Change and Global Warming. The editors have built Advances in Climate Change and Global Warming Research and Application / 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Climate Change and Global Warming in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Climate Change and Global Warming Research and Application / 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

**The Evolving Sphere of Food Security** - Rosamond L. Naylor 2014-08-18

Hundreds of millions of people still suffer from chronic hunger and food insecurity despite sufficient levels of global food production. The poor's inability to afford adequate diets remains the biggest constraint to solving hunger, but the dynamics of global food insecurity are complex and demand analysis that extends beyond the traditional domains of economics and agriculture. How do the policies used to promote food security in one country affect nutrition, food access, natural resources, and national security in other countries? How

do the priorities and challenges of achieving food security change over time as countries develop economically? The Evolving Sphere of Food Security seeks to answer these two important questions and others by exploring the interconnections of food security to security of many kinds: energy, water, health, climate, the environment, and national security. Through personal stories of research in the field and policy advising at local and global scales, a multidisciplinary group of scholars provide readers with a real-world sense of the opportunities and challenges involved in alleviating food insecurity. In sub-Saharan Africa, for example, management of HIV/AIDS, the establishment of an equitable system of land property rights, and investment

in solar-powered irrigation play an important role in improving food security---particularly in the face of global climate change. Meanwhile, food price spikes associated with the United States' biofuels policy continue to have spillover effects on the world's rural poor with implications for stability and national security. The Evolving Sphere of Food Security traces four key areas of the food security field: 1) the political economy of food and agriculture; 2) challenges for the poorest billion; 3) agriculture's dependence on resources and the environment; and 4) food in a national and international security context. This book connects these areas in a way that tells an integrated story about human lives, resource use, and the policy process.