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The Mekong Delta of Vietnam is one of the most productive agricultural areas in the world. The Mekong River fans out over an area of about 40,000 sq kilometers and over the course of many millennia ha *Environmental Change and Agricultural Sustainability in the Mekong Delta | SpringerLink* [Skip to main content](#) [Skip to table of contents](#)

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Environmental Change and Agricultural Sustainability in ...

For agriculture to be sustainable, land and water must be used efficiently to reduce negative impact on the environment and ensure resilience to climate change. We can't achieve global food security without preserving the services that ecosystems such as trees and forests provide, and we can't sustain forests without thinking of how we will feed a growing global population.

Promote Environmentally Sustainable Agriculture

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Sep 12, 2020 environmental change and agricultural sustainability in the mekong delta advances in global change research Posted By Ken FollettLtd TEXT ID 7107797fe Online PDF Ebook Epub Library climate change global environmental change and global change 87 global warming 87 the carbon and nitrogen cycles 89 annex iv 93 rules and conditions for the clean development mechanism 93 climate

TextBook Environmental Change And Agricultural ...

The environmental sustainability of the food sector is affected by air and water pollutants emissions, land-use change, fresh water exploitation and climate change. New industrialized form of agriculture and farming are extremely energy-intensive and overexploit natural resources at a rate that not respect the fragile ecosystems' equilibrium (Galli et al., 2017 ; FAO, 2012a).

Environmental Sustainability - an overview | ScienceDirect ...

Environmental sustainability in the CAP. The common agricultural policy (CAP) has three clear environmental goals, each of which are echoed in the European Green Deal and Farm to Fork strategy: tackling climate change; protecting natural resources; enhancing biodiversity. Each of these goals are supported by the CAP's promotion of organic farming and the responsible management of inputs like pesticides and fertilisers.

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An environmentally sustainable CAP | European Commission

Current research priorities. Our research focuses on understanding the complexity of coupled human-natural systems. We increasingly take interdisciplinary approaches to explore the role of human-environment interactions within socio-ecological systems, and the implications of environmental change and management for development.

Environmental Change and Sustainability (ECaS) | Geography ...

Environmental Change, Agricultural Sustainability, and Economic Development in the Lower Mekong Basin. Royal University of Phnom Penh, Phnom Penh, Cambodia. March 16-18, 2017. Deadline Extended to Dec. 1

Environmental Change, Agricultural Sustainability, and ...

Sustainable agriculture takes many forms, but at its core is a rejection of the industrial approach to food production developed during the 20th century. This system, with its reliance on...

Sustainable Agriculture | National Geographic

Sustainable agriculture is farming in sustainable ways, which means meeting society's present food and textile needs, without compromising the ability for current or future generations to meet their needs. It can be based on an understanding of ecosystem services. There are many methods to increase the sustainability of agriculture. When developing agriculture within sustainable food systems ...

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Sustainable agriculture - Wikipedia

Environmental impacts of food and agriculture What are the environmental impacts of food and agriculture? The visualization here shows a summary of some of the main global impacts: Food accounts for over a quarter (26%) of global greenhouse gas emissions 1;

Environmental impacts of food production - Our World in Data

Environmental Sustainability is a multi-disciplinary, quarterly, peer reviewed journal focused at maintaining and sustaining the quality of our planet through biological and eco-friendly methods. ... Biotechnology, Biochemistry, and Agriculture Sciences which report findings related to sustenance and remediation of ecosystems. The journal will ...

Environmental Sustainability | Home

Environmental sustainability in EU agriculture The common agricultural policy places good environmental practice at the heart of agriculture and forestry in the EU, ensuring that the protection of the planet and the production of food can go hand in hand.

Environmental sustainability in EU agriculture | European ...

The common agricultural policy supports rural communities and ensures that agriculture and forestry can contribute to a sustainable society in the EU. Environmental sustainability The CAP sets out to tackle climate change, protect natural resources and enhance biodiversity in the EU.

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Sustainable agriculture in the EU | European Commission

Growers may use methods to promote soil health, minimize water use, and lower pollution levels on the farm. Consumers and retailers concerned with sustainability can look for “ values-based ” foods that are grown using methods promoting farmworker wellbeing, that are environmentally friendly, or that strengthen the local economy.

What is Sustainable Agriculture? | Sustainable Agriculture ...

boost the efficiency and productivity of UK agricultural systems embed sustainable food production with improved environmental impacts, such as enhancing biodiversity, soil and air quality, and...

The Mekong Delta of Vietnam is one of the most productive agricultural areas in the world. The Mekong River fans out over an area of about 40,000 sq kilometers and over the course of many millennia has produced a region of fertile alluvial soils and constant flows of energy. Today about a fourth of the Delta is under rice cultivation, making this area one of the premier rice granaries in the world. The Delta has always proven a difficult environment to manipulate, however, and because of population pressures, increasing acidification of soils, and changes in the Mekong’s flow, environmental problems have intensified. The changing way in which the region has been linked to larger flows of commodities and capital over time has also had an

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Impact on the region: For example, its re-emergence in recent decades as a major rice-exporting area has linked it inextricably to global markets and their vicissitudes. And most recently, the potential for sea level increases because of global warming has added a new threat. Because most of the region is on average only a few meters above sea level and because any increase of sea level will change the complex relationship between tides and down-river water flow, the Mekong Delta is one of the areas in the world most vulnerable to the effects of climate change. How governmental policy and resident populations have in the past and will in coming decades adapt to climate change as well as several other emerging or ongoing environmental and economic problems is the focus of this collection.

This book publishes the results of 220 botanical samples from the 1993-2002 Gordion excavations directed by Mary Voigt. Together with Naomi Miller's 2010 volume (Gordion Special Studies 5), this book completes the publication of botanical samples from Voigt's excavations. The book aims to reconstruct agricultural decision making using archaeological and paleoenvironmental data from Gordion to describe environmental and agricultural changes at the site. John M. Marston argues that different political and economic systems implemented over time at Gordion resulted in patterns of agricultural decision making that were well adapted to the social setting of farmers in each period, but that these practices had divergent environmental impacts, with some regimes sponsoring sustainable agricultural practices and others leading to significant environmental change. The implications of this book are twofold: Gordion will now be one of the best published agricultural datasets from the entire Near East and, thus, serve as a valuable comparable dataset for regional synthesis of agricultural and

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Environmental change, and the methods the author developed to reconstruct agricultural change at Gordion serves as tools to engage questions about the relationship between social and environmental change at sites worldwide. Other books address similar themes but none in the Near East address these themes in diachronic perspective such as we have at Gordion. University Museum Monograph, 145

Understand sustainable development from economic, ecological, and social perspectives As world population continues to increase, the need grows for a safe, sustainable supply of food. Agricultural and Environmental Sustainability: Considerations for the Future provides the latest research results and vital information on the process of p

Climate Change and Agricultural Ecosystems explains the causative factors of climate change related to agriculture, soil and plants, and discusses the relevant resulting mitigation process. Agricultural ecosystems include factors from the surrounding areas where agriculture experiences direct or indirect interaction with the plants, animals, and microbes present. Changes in climatic conditions influence all the factors of agricultural ecosystems, which can potentially adversely affect their productivity. This book summarizes the different aspects of vulnerability, adaptation, and amelioration of climate change in respect to plants, crops, soil, and microbes for the sustainability of the agricultural sector and, ultimately, food security for the future. It also focuses on the utilization of information technology for the sustainability of the agricultural sector along with the capacity and adaptability of agricultural societies under climate change. Climate Change and Agricultural Ecosystems incorporates both theoretical

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and practical aspects, and serves as base line information for future research. This book is a valuable resource for those working in environmental sciences, soil sciences, agricultural microbiology, plant pathology, and agronomy. Covers the role of chemicals fertilizers, environmental deposition, and xenobiotics in climate change Discusses the impact of climate change on plants, soil, microflora, and agricultural ecosystems Explores the mitigation of climate change by sustainable methods Presents the role of computational modelling in climate change mitigation

Sustainability covers environmental, social and economic dimensions, and requires a multi-disciplinary approach in order to examine, explore and critically engage with issues and advances in its related areas. As we are aware, climate change is a certainty and it affects many economic sectors, including agriculture, particularly production of crop and livestock enterprises. Vast regional differences in these impacts are expected for various parts of the world, culminating in changes in trade patterns, and perhaps eventually even threatening the food security in certain parts of the world. Agricultural sustainability may be especially threatened by climate extremes, such as heat waves, droughts, and floods. However, not all changes induced by climate change would be negative; some may even be positive. Undoubtedly, there would be winners and losers within a nation, as well as among countries. Achieving sustainability would require changes in the way we manage agriculture. Equally important in this discourse is to find solutions to achieve sustainability in the wake of climate change, one of the major threats to sustainability. This book is devoted to various aspect of sustainable agriculture and climate change and their interplay.

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The Anthropocene, the time of humans. Never has human influence on the functioning of the planet been greater or in more urgent need of mitigation. Climate change, the accelerated warming of the planet's surface attributed to human activities, is now at the forefront of global politics. The agriculture sector not only contributes to climate change but also feels the severity of its effects, with the water, carbon and nitrogen cycles all subject to modification as a result. Crop production systems are each subject to different types of threat and levels of threat intensity. There is however significant potential to both adapt to and mitigate climate change within the agricultural sector and reduce these threats. Each solution must be implemented in a sustainable manner and tailored to individual regions and farming systems. This Special Issue evaluates a variety of potential climate change adaptation and mitigation techniques that account for this spatial variation, including modification to cropping systems, Climate-Smart Agriculture and the development and growth of novel crops and crop varieties.

In Sub-Saharan Africa, the rapidly evolving COVID-19, increasing population growth, and exponential expansion in demand for agricultural commodities are putting pressure on available resources, thereby posing immense challenges to the region's capacity to achieve nutritional security related to United Nations Sustainable Development Goals (SDGs). Although Sub-Saharan Africa boasts vast, fertile and uncultivated arable lands, its capacity to contribute to feeding its current and future population is being seriously undermined by factors such as poor adoption and utilization of innovations and digital tools, climate change impact, environmental degradation, weak political will, limited interest in farming, lack of government

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Support, and more. In spite of these constraints, sustainable agriculture, food security and nutrition security in Sub-Saharan Africa can be achieved by adopting a multi-pronged approach, which includes improved agricultural mechanization, adoption of high yielding crop varieties, use of information technology, public investments in improved technologies, and rural infrastructure funding. This edited volume provides innovative policy tools for enhancing Sub-Saharan Africa's capacity to achieve sustainable agriculture, food security and nutrition security in the digital age and in the face of climate variability. Furthermore, this book presents smart strategies for increased agricultural production, reduced food waste, and enhanced nutritional outcomes by harnessing the latest discoveries in agricultural research, education and advisory services.

Two of the greatest current challenges are climate change (and variability) and food security. Feeding nine billion people by 2050 will require major efforts aimed at climate change adaptation and mitigation. One approach to agriculture has recently been captured by the widely adopted term of "Climate Smart Agriculture" (CSA). This book not only explains what this entails, but also presents practical on-the-ground studies of practices and innovations in agriculture across a broader spectrum, including agroecology and conservation agriculture, in less developed countries. It is shown that CSA is not a completely new science and a number of its recommended technologies have been used for some time by local farmers all over the world. What is relevant and new is 'the approach' to exploit their adaptation and mitigation potential. However, a major limitation is the lack of evidence-based knowledge that is necessary for policy makers to prepare strategies for adaptation and mitigation. This book

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Assembles knowledge of CSA, agroecology and conservation agriculture, and perspectives from different regions of the world, to build resilient food systems. The first part analyzes the concept, opportunities and challenges, and provides a global perspective, drawing particularly on studies from Africa and Asia. The second part of the book showcases results from various studies linked to soil, water and crop management measures from an ongoing program in India as well as experiences from other regions. The third section assesses the needs for an enabling policy environment, mainstreaming gender and some final recommendations for up-scaling and/or out-scaling innovations.

This 35-chapter book is based on several oral and poster presentations including both invited and contributory chapters. The book is thematically based on four pillars of sustainability, with focus on sub-Saharan Africa (SSA): Environment, Economic, Social and Institutional. The environmental sustainability, which determines economic and social/institutional sustainability, refers to the rate of use of natural resources (soil, water, landscape, vegetation) which can be continued indefinitely without degrading their quality, productivity and ecosystem services for different ecoregions of SSA. This book will help achieve the Sustainable Development Goals of the U.N. in SSA. Therefore, the book is of interest to agriculturalists, economists, social scientists, policy makers, extension agents, and development/bilateral organizations. Basic principles explained in the book can be pertinent to all development organizations.

Conservation agriculture is a sustainable production model that not only optimizes crop yields, but also reaps economic and environmental benefits as well. The adoption of successful

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Conservation agriculture methods has resulted in energy savings, higher organic matter content and biotic activity in soil, increased crop-water availability and thus resilience to drought, improved recharge of aquifers, less erosion, and reduced impacts from the weather associated with climate change in general. Agricultural Impacts of Climate Change examines several important aspects of crop production, such as climate change, soil management, farm machinery, and different methods for sustainable conservation agriculture. It presents spatial distribution of a daily, monthly and annual precipitation concentration indices, Diffuse Reflectance Fourier Transform Infrared Spectroscopy for analyzing the organic matter in soil, and adaptation strategies for climate-related plant disease scenarios. It also discusses solar energy-based greenhouse modeling, precision farming using remote sensing and GIS, and various types of machinery used for conservation agriculture. Features: Examines the effects of climate change on agriculture and the related strategies for mitigation through practical, real-world examples Explores innovative on-farm technology options to increase system efficiency resulting in improved water usage Presents examples of precision farming using climate-resilient technologies

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