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To take such an approach requires taking into account every
key part of the agricultural ecosystem: living organisms
(crops, weeds, insects, microbes, animals, and humans) as
well as their nonliving, physical environment (water, air,
minerals, and soil).

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Studies have explored the biophysical underpinnings of crop productivity, the interactions of crop ecosystems with the hydrology and biodiversity of the broader landscapes in which they lie, farmers' views about alternative practices, economic valuation of ecosystem services, and global impacts such as greenhouse gas exchanges with the atmosphere.

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Agricultural crops are prominent features of an increasing number of variously perturbed ecosystems and the landscapes occupied by these ecosystems. Yet the ecology of agricultural-dominated landscapes is only now receiving the scientific attention it has long deserved.

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Heather Grab | Ecology of Agricultural Landscapes. My goal in both my personal and professional life is to explore ecologically grounded, sustainable agricultural practices. Whether it ' s on my farm in the Finger Lakes or as a Postdoctoral Researcher in the Department of Entomology at Cornell, I strive to share with others a passion for good food and an understanding of the impact agriculture has on our environment.

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Lowland agricultural landscapes form typical ‘ landscape mosaics ’ , with intermingled patches of woodland, arable fields and pasture, divided by hedgerows and roads. Much of landscape ecology has...

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The Ecology of Agricultural Landscapes: Long-Term Research ...

Evidence has been mounting for some time that intensive row-crop agriculture as practiced in developed countries may not be environmentally sustainable, with concerns increasingly being raised about climate change, implications for water quantity and quality, and soil degradation. This volume synthesizes two decades of research on the

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The Ecology of Agricultural Landscapes: Long-term Research

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The Ecology of Agricultural Landscapes: Long-term Research on the Path to Sustainability. This volume synthesizes two decades of KBS LTER research on the ecology of row-crop ecosystems of the U.S Midwest. Fifteen chapters provide overviews of the many components of agricultural ecosystems and landscapes that intersect to provide a rich variety of ecosystem services in addition to agronomic yield.

KBS LTER SYNTHESIS BOOK | KBS LTER

Description. Agricultural crops are prominent features of an increasing number of variously perturbed ecosystems and the landscapes occupied by these ecosystems. Yet the ecology of agricultural-dominated landscapes is only now receiving the scientific attention it has long deserved.

Ecology in Agriculture | ScienceDirect

Particular emphasis is placed upon the way that landscapes are changing under differing policies of agricultural subsidy including the EU Common Agricultural Policy. This is an ideal resource for graduate students and researchers in landscape ecology and agriculture as well as policy analysts working in the agricultural sector.

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The Ecology of Agricultural Landscapes: Long-Term Research on the Path to Sustainability: Hamilton, Stephen K., Doll, Julie E., Robertson, G. Philip: Amazon.sg: Books

The latest volume in the Long-Term Ecological Research series, presenting two decades of research on the sustainability of temperate, row-crop ecosystems in the Midwestern United States.

Advances in Ecological Research, Volume 63, the latest release in this ongoing series includes specific chapters on Tropical Ecosystems in the 21st Century. Chapters in this volume cover topics such as Landscape-scale expansion of agroecology to enhance natural pest control: a systematic review and Ecosystem services and the resilience of agricultural landscapes Provides information that relates to a thorough understanding of the field of ecology Deals with topical and important reviews on the physiologies, populations and communities of plants and animals

Agricultural crops are prominent features of an increasing number of variously perturbed ecosystems and the landscapes occupied by these ecosystems. Yet the ecology of agricultural-dominated landscapes is only now receiving the scientific attention it has long deserved. This attention has been stimulated by the realization that all agriculture must become sustainable year after year while leaving nearby ecosystems unaffected. Ecology in Agriculture focuses exclusively on the ecology of agricultural ecosystems. The book is divided into four major sections. An introduction establishes the unique ties between agricultural and ecological sciences. The second section describes the

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community ecology of these sorts of ecosystems, while the final section focuses on the processes that operate throughout these agricultural landscapes. Contains an ecological perspective on agricultural production and resource utilization Includes in-depth reviews of major issues in crop ecology by active researchers Covers a range of topics in agricultural ecophysiology, community ecology, and ecosystems ecology Provides examples of ecological approaches to solving problems in crop management and environmental quality

Successful management of agricultural landscapes depends on the recognition of the relationships between the processes and the structures that maintain the system. The rapidly growing science of Landscape Ecology quantifies the ways these ecosystems interact and establishes a link between the activities in one region and repercussions in another. A

Advances in Ecological Research, Part Two, Volume 64, the latest release in this ongoing series, includes specific chapters on Tropical Ecosystems in the 21st Century. Chapters in this volume cover topics such as landscape-scale expansion of agroecology to enhance natural pest control, a systematic review and ecosystem services, and the resilience of agricultural landscapes. Provides information that relates to a thorough understanding of the field of ecology Deals with topical and important reviews on the physiologies, populations and communities of plants and animals

The book informs about agricultural landscapes, their features, functions and regulatory mechanisms. It

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characterizes agricultural production systems, trends of their development, and their impacts on the landscape.

Agricultural landscapes are multifunctional systems, coupled with all nexus problems of the 21th century. This has led to serious discrepancies between agriculture and environment, and between urban and rural population. The mission, key topics and methods of research in order to understanding, monitoring and controlling processes in rural landscapes is being explained. Studies of international expert teams, many of them from Russia, demonstrate approaches towards both improving agricultural productivity and sustainability, and enhancing ecosystem services of agricultural landscapes. Scientists of different disciplines, decision makers, farmers and further informed people dealing with the evolvement of thriving rural landscapes are the primary audience of this book.

In recent years, development policy has responded to an increasing concern about natural resource degradation by setting up innovative payment for environmental services (PES) programs in developing countries. PES programs use market and institutional incentives in order to meet both environmental and poverty alleviation objectives. However, their optimal design, implications for the rural poor, and how these initiatives integrate into international treaties on global warming and biodiversity loss are still being discussed. This book addresses these issues by scrutinizing analytical tools, providing policy insights and stimulating debate on linkages between poverty alleviation and environmental protection. In particular, it turns attention towards the role of environmental services in agricultural landscapes as they provide a living for many poor in developing countries. It serves as a valuable reference for academics and students in various disciplines, as well as for policy makers and advisors.

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This book is a co-publication between Springer and the Food and Agriculture Organization of the United Nations.

Successful management of agricultural landscapes depends on the recognition of the relationships between the processes and the structures that maintain the system. The rapidly growing science of Landscape Ecology quantifies the ways these ecosystems interact and establishes a link between the activities in one region and repercussions in another. A

Whilst agricultural landscapes are products of the local ecosystem and community in which they are situated, they are becoming increasingly affected by the same global issues, and are converging under the dynamics of globalisation. Combining landscape ecological research and an examination of relevant public policy, this book investigates the dynamic relationship between agricultural landscapes and the global change processes, such as urbanisation, by which they are being transformed. Landscape change is analysed in the context of biophysical patterns, market dynamics, and specific public policy frameworks, through a series of case studies from different OECD countries spanning Europe, Asia Pacific and North America. Particular emphasis is placed upon the way that landscapes are changing under differing policies of agricultural subsidy including the EU Common Agricultural Policy. This is an ideal resource for graduate students and researchers in landscape ecology and agriculture as well as policy analysts working in the agricultural sector.

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