

Agricultural Sciences Question Paper 2013

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Farm transition and indigenous growth

- Houssou, Nazaire 2016-01-15

This paper characterizes the

transition from small-scale farming and the drivers of farm size growth among medium- and large-scale farmers

in Ghana. The research was designed to better understand the dynamics of change in Ghana's farm structure and contribute to the debate on whether Africa should pursue a smallholder-based or large-scale oriented agricultural development strategy. The results suggest a rising number of medium-scale farmers and a declining number of smallholder farmers in the country, a pattern that is consistent with a changing farm structure in the country's agricultural sector. More important, findings show that the rise to medium- and large-scale farming is significantly associated with successful transition of small-scale farmers rather than entry of medium or large farms into agriculture, reflecting small-scale farmers successfully breaking through the

barriers of subsistence agriculture into more commercialized production systems. The findings in this paper also suggest that some of the factors thought to be important for change in farm structure are no obstacle to farm size growth, even though they may foster transition. Notably, the results here diverge from the patterns observed in Zambia and Kenya, which indicate that the emergent farmers came mostly from the urban elite. Unfortunately, past and current policy discussions have not featured these emergent farmers sufficiently in the quest to transform agriculture in Ghana. Government should capitalize on these emergent farmers who have a demonstrated ability to graduate productively as it strives to address challenges in the smallholder sector.

Governance in International Livestock Research - Lindsay Falvey 2022-10-31

Governance of organizations is less studied than management, yet is a key determinant of strategic vision and direction, oversight and values. An organization's Board selects, appoints and monitors Management with which it must maintain a productive interaction with both parties understanding their different roles. International research institutions funded by variable contributions from wealthy national governments and philanthropic bodies have specific governance requirements. Neither governmental nor UN-style bodies offer prescriptions for the expertise and complexity of such legally constituted specialist organizations. In the case of such organizations as the International Livestock Research

Institute within the CGIAR association, governance has been shared across different persons, bodies and forces. The sharing of such critical responsibilities worked productively when trust was high and funding was approximately aligned to the influence of the sharing parties, but otherwise it risked anomalies of imbalance between authority and responsibilities that prejudiced impact. The book traces the governance systems of ILRI across five decades of international livestock research as a case study of historical interest that can inform future structures in the international research arena.

Genetic Modification and Food Quality

- Robert Blair 2015-08-03

The development of recombinant DNA methods has changed the face of the

food industry over the last 50 years. Crops which have been genetically modified are being cultivated in more and more countries and this process is likely to accelerate as desirable traits are identified and transferred to appropriate organisms, and they are cleared by the regulatory authorities. However, the technique has its critics who claim that modification of the genome of the plant (or animal) in this way may pose unknown and unacceptable risks to the human consumer. Genetic Modification and Food Quality: A Down to Earth Analysis is the first comprehensive text on how GM production methods influence the quality of foods and feeds, based on a complete and unbiased assessment of the scientific findings. It presents a balanced analysis of the benefits

and drawbacks of gene-modified food sources in the human diet. Chapters approach the topic with regard to different food types such as cereal grains, oilseed crops, vegetables, fish and animal products. Assessing the nutritive value as well as the health and safety of GMO foods, this book is a reference for anyone working in the food production industry and will also be of an interest to NGOs, trade associations and consumers who are looking for an objective, balanced study of this contentious issue.

Routledge Handbook of Gender and Agriculture - Carolyn E. Sachs
2020-10-28

The Routledge Handbook of Gender and Agriculture covers major theoretical issues as well as critical empirical shifts in gender and agriculture.

Gender relations in agriculture are shifting in most regions of the world with changes in the structure of agriculture, the organization of production, international restructuring of value chains, climate change, the global pandemic, and national and multinational policy changes. This book provides a cutting-edge assessment of the field of gender and agriculture, with contributions from both leading scholars and up-and-coming academics as well as policymakers and practitioners. The handbook is organized into four parts: part 1, institutions, markets, and policies; part 2, land, labor, and agrarian transformations; part 3, knowledge, methods, and access to information; and part 4, farming people and identities. The last chapter is an

epilogue from many of the contributors focusing on gender, agriculture, and shifting food systems during the coronavirus pandemic. The chapters address both historical subjects as well as ground-breaking work on gender and agriculture, which will help to chart the future of the field. The handbook has an international focus with contributions examining issues at both the global and local levels with contributors from across the world. With contributions from leading academics, policymakers, and practitioners, and with a global outlook, the Routledge Handbook of Gender and Agriculture is an essential reference volume for scholars, students, and practitioners interested in gender and agriculture.

Qualitative Research & Evaluation

Methods - Michael Quinn Patton

2014-10-29

Drawing on more than 40 years of experience conducting applied social science research and program evaluation, author Michael Quinn Patton has crafted the most comprehensive and systematic book on qualitative research and evaluation methods, inquiry frameworks, and analysis options available today. Now offering more balance between applied research and evaluation, this Fourth Edition of *Qualitative Research & Evaluation Methods* illuminates all aspects of qualitative inquiry through new examples, stories, and cartoons; more than a hundred new summarizing and synthesizing exhibits; and a wide range of new highlight sections/sidebars that elaborate on important and emergent

issues. For the first time, full case studies are included to illustrate extended research and evaluation examples. In addition, each chapter features an extended "ruminations," written in a voice and style more emphatic and engaging than traditional textbook style, about a core issue of persistent debate and controversy.

Intellectual Property and Genetically Modified Organisms - Dr Berris Charnley 2015-04-28

Taking a global viewpoint, this volume addresses issues arising from recent developments in the enduring and topical debates over Genetically Modified Organisms (GMOs) and their relationship to Intellectual Property (IP). The work examines changing responses to the growing acceptance and prevalence of GMOs. Drawing

together perspectives from several of the leading international scholars in this area, the contributions seek to break away from analysis of safety and regulation and examine the diversity of ways the law and GMOs have become entangled. This collection presents the start of a much broader engagement with GMOs and law. As GMO technology becomes increasingly more complex and embedded in our lives, this volume will be a useful resource in leading further discussion and debate about GMOs in academia, in government and among those working on future policy.

ICEL2013-Proceedings of the 8th International Conference on e-Learning - Eunice Ivala 2013-06-27

New Challenges to Food Security - Ian Christoplos 2014-11-13

Food security is high on the political agenda. Fears about societal insecurity due to food price increases and hunger, grave scenarios regarding the effects of climate change and general uncertainty about the impacts of investments in biofuels and so-call "land grabbing" on food prices and availability have meant that food security is now recognised as being a multifaceted challenge. This book is unique in that it will bring together analyses of these different factors that impact on food security. This volume will describe a range of different perspectives on food security, with an emphasis on the various meanings that are applied to food security "crisis". The challenges to be reviewed include market volatility, climate change and state fragility.

Analyses of responses to food security crises and risk will cover rural and urban contexts, arenas of national policy formation and global food regimes, and investment in land and productive technologies. This book is unique in two respects. First, it takes a step back from the normative literature focused on specific factors of, for example, climate change, agricultural production or market volatility to look instead at the dynamic interplay between these new challenges. It helps readers to understand that food security is not one discourse, but is rather related to how these different factors generate multiple risks and opportunities. Second, through the case studies the book particularly emphasises how these factors come together at local levels as farmers,

entrepreneurs, consumers, local government officials and others are making key decisions about what will be done to address food security and whose food security will be given priority. The book will explore how food production and consumption is embedded in powerful political and market forces and how these influence local actions.

Multilingualism and Intercultural Communication - H. Ekkehard Wolff
2017-05-01

An in-depth look at the changing sociolinguistic dynamics that have influenced South African society. To date, there has been no published textbook which takes into account changing sociolinguistic dynamics that have influenced South African society. Multilingualism and Intercultural Communication breaks

new ground in this arena. The scope of this book ranges from macro-sociolinguistic questions pertaining to language policies and their implementation (or non-implementation) to micro-sociolinguistic observations of actual language-use in verbal interaction, mainly in multilingual contexts of Higher Education (HE). There is a gradual move for the study of language and culture to be taught in the context of (professional) disciplines in which they would be used, for example, Journalism and African languages, Education and African languages, etc. The book caters for this growing market. Because of its multilingual nature, it caters to English and Afrikaans language speakers, as well as the Sotho and Nguni language groups _ the

largest languages in South Africa [and also increasingly used in the context of South African Higher Education]. It brings together various inter-linked disciplines such as Sociolinguistics and Applied Language Studies, Media Studies and Journalism, History and Education, Social and Natural Sciences, Law, Human Language Technology, Music, Intercultural Communication and Literary Studies. The unique cross-cutting disciplinary features of the book will make it a must-have for twenty-first century South African students and scholars and those interested in applied language issues.

Oswaal CBSE 10 Previous Years' Solved Papers & Sample Question Papers Class 10 (Mathematics Standard, Science, Social Science & English Language &

Literature) (Set of 5 Books) (For Board Exams 2024) - Oswaal Editorial Board 2023-09-26

DESCRIPTION OF THE PRODUCT: ♦100% Updated: with the Latest CBSE Board Paper 2023 ♦Valuable Exam Insights: with Out-of-Syllabus Questions highlighted ♦Concept Clarity: with Topper's and Board Marking Scheme Answers ♦Crisp revision: with Mind Maps and Revision Notes ♦Fresh & Relevant with 2024 CBSE SQP- Fully Solved & Analysed ♦Insider Tips & Techniques with On-Tips Notes, Mind Maps & Mnemonics ♦Exam Ready to Practice with 10 Highly Probable SQPs with Actual Board Answer sheets
The Intellectual Property–Regulatory Complex - Emily Marden 2016-03-06
Advances in agricultural genomics could help address pressing global issues such as world hunger. However,

overlapping and inconsistent intellectual property and biosafety regimes – collectively referred to as the “Intellectual Property–Regulatory Complex” – create significant, and often conflicting, barriers to developing and commercializing new agricultural biotechnology. The authors of this collection explore how this Complex impacts innovation in ways that cannot be appreciated when individual regimes are examined in isolation. They then propose solutions that would meet the objectives of the current intellectual property and biosafety regimes while enabling innovation in the field of agricultural genomics.
Groundwater Economics, Two-Volume Set - Charles A. Job 2022-05-30
Groundwater is a vitally important resource and as its use increases,

the available supply is depleted, creating a ripple effect of impacts on both the environment and the economy that need to be disseminated to a larger audience of students and practitioners. This second edition of Groundwater Economics accomplishes just that. This two-volume set is a comprehensive work focused on the economic values of groundwater resources and use, and it reinforces the need for a strong economic rationale in decision-making relating to that use. This new edition includes a new chapter on sustainability as well as updating all chapters with a focus on sustainability. It thoroughly explains the economic value of groundwater for sustainable use and needs, with practical examples, and includes thirteen new and updated

case studies on the economics of groundwater data for decision-making. It also addresses both local and regional groundwater economic choices through a series of applications at an international level. This set, written by a sustainability professional with decades of experience in managing groundwater use and protection, is written for other professionals as well as students, who need to understand and evaluate water resources and manage their use from a variety of sustainable approaches.

Increasing access to agricultural extension and advisory services: How effective are new approaches in reaching women farmers in rural areas? - Mbo'o-Tchouawou, M., Colverson, K.E. 2014-04-30

Routledge International Handbook of Ignorance Studies - Matthias Gross

2015-05-15

Once treated as the absence of knowledge, ignorance today has become a highly influential topic in its own right, commanding growing attention across the natural and social sciences where a wide range of scholars have begun to explore the social life and political issues involved in the distribution and strategic use of not knowing. The field is growing fast and this handbook reflects this interdisciplinary field of study by drawing contributions from economics, sociology, history, philosophy, cultural studies, anthropology, feminist studies, and related fields in order to serve as a seminal guide to the political, legal and social

uses of ignorance in social and political life. Chapter 33 of this book is freely available as a downloadable Open Access PDF under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license available here:

https://tandfbis.s3-us-west-2.amazonaws.com/rt-files/docs/Open+Access+Chapters/9780415718967_oachapter33.pdf

Production, Use, and Sustainability of Groundwater - Charles A. Job
2021-07-27

Groundwater is becoming increasingly scarce while the demand for water continues to grow at a global scale. Understanding groundwater resources and their sustainable management is imperative for the future of groundwater use, conservation and protection. This revised and updated

two-volume set, focused on sustainability, covers the economic values of groundwater production and use, including micro- and macroeconomic factors, groundwater markets, economic evaluation tools, climate change, transboundary issues and policy evaluation. It explores numerous applications and describes ways to evaluate the economics of groundwater use in the context of the larger ecosystem and the natural capital it provides. FEATURES OF THIS VOLUME Includes an important new chapter on groundwater sustainability management Addresses new examples of groundwater use that are applicable at both the local and international levels Provides the foundation for policy, program and project analysis for all major uses of groundwater Updates groundwater use data along

with explanations of major production costs and use benefits Gives a new perspective on users' competition for the subsurface environment Production, Use, and Sustainability of Groundwater, Second Edition, the first volume of the two-volume set Groundwater Economics, is a must-have for any professional or student who needs to understand, evaluate and manage water resources from a range of production and use perspectives affecting groundwater resource sustainability.

Climate Change and Land -

Intergovernmental Panel on Climate Change 2022-12-08

The Intergovernmental Panel on Climate Change (IPCC) is the leading international body for assessing the science related to climate change. It provides policymakers with regular

assessments of the scientific basis of human-induced climate change, its impacts and future risks, and options for adaptation and mitigation. This IPCC Special Report on Climate Change and Land (SRCCL) is the most comprehensive and up-to-date scientific assessment of the multiple interactions between climate change and land, assessing climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems. It assesses the options for governance and decision-making across multiple scales. It serves policymakers, decision makers, stakeholders, and all interested parties with unbiased, up-to-date, policy-relevant information. This title is also available as Open Access on Cambridge

Core.

Crack IAS Prelims General Studies Paper 2 with 5 Mock Tests 7th Edition

- Disha Experts 2018-12-17

The thoroughly revised & Upgraded 7th edition of the book Crack IAS Prelims General Studies (CSAT) - Paper 2 is an exhaustive book capturing all the important topics being asked in the last few years of the IAS Prelim exam. • The book has been divided into 9 Units & 40 Chapters. • Each chapter provides theory along with an Exercise in every chapter with fully solved past CSAT questions from 2011 onwards. • The book has separate units for Comprehension and English Language Comprehension. • English Language RC passage covers all literary styles. • Exhaustive exercise of situation-based questions to test decision making and

administrative course of action. • Vast variety of situation-based questions to test Interpersonal Skills including Communication Skills. • Questions of Critical Reasoning based on Passages and Puzzles that are mostly asked in the exam, are covered with almost all varieties of questions in very large number. • Miscellaneous graphs as asked in 2018 Symmetric and Skew Distribution of Data as asked in 2015 are provided in the Data Interpretation unit of this book. • The Exercise covers the fully solved past CSAT questions from 2011 onwards. In all the book contains 3000+ MCQs with detailed solutions. The book provides 5 Mock Tests with Solutions on the exact pattern as followed in the last CSAT paper.

International Journal of Mainstream

Social Science -

New Directions in Agrarian Political Economy - Ryan Isakson 2017-10-02
How relevant are the classic theories of agrarian change in the contemporary context? This volume explores this question by focusing upon the defining features of agrarian transformation in the 21st century: the financialization of food and agriculture, the blurring of rural and urban livelihoods through migration and other economic activities, forest transition, climate change, rural indebtedness, the co-evolution of social policy and moral economies, and changing property relations. Combined, the eleven contributions to this collection provide a broad overview of agrarian studies over the past

four decades and identify the contemporary frontiers of agrarian political economy. In this path-breaking collection, the authors show how new iterations of long evident processes continue to catch peasants and smallholders in the crosshairs of crises and how many manage to face these challenges, developing new sources and sites of livelihood production. This volume was published as part one of the special double issue celebrating the 40th anniversary of the Journal of Peasant Studies.

New Directions in Science and Environmental Communication: Understanding the Role of Online Video-Sharing and Online Video-Sharing Platforms for Science and Research Communication - Joachim Allgaier 2022-02-11

Agronomy for Development - James Sumberg 2017-07-06

Over the last decade there has been renewed interest in food security and the state of the global food system. Population growth, climate change and food price spikes have combined to focus new attention on the technologies and institutions that underpin the production and consumption of food that is varied, nutritious and safe. Knowledge politics within development-oriented agronomy set the stage for some models of agricultural development to be favoured over others, with very real implications for the food security and wellbeing of many millions of people. Agronomy for Development demonstrates how the analysis of knowledge politics can shed valuable new light on current

debates about agricultural development and food security. Using bio-physical and social sciences perspectives to address the political economy of the production and use of knowledge in development, this edited collection reflects on the changing politics of knowledge within the field of agronomy and the ways in which these politics feed and reflect the interests of a broad set of actors. This book is aimed at professionals working in agricultural research as well as students and practitioners of agricultural, rural and international development.

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.

Climate Change and Community

Resilience - A.K. Enamul Haque
2021-10-21

This open access book documents myriads of ways community-based climate change adaptation and resilience programs are being implemented in South Asian countries. The narrative style of writing in this volume makes it accessible to a diverse audience from academics and

researchers to practitioners in various governmental, non-governmental and international agencies. At a time when climate change presents humanity with a gloomy future, the stories of innovation, creativity, grassroots engagement and locally applicable solutions highlighted in this book provides insights into hopeful ways of approaching climate solutions. South Asian countries have been dealing with the impact of climate change for decades and thus offer valuable learning opportunities for developing countries within and beyond the region as well as many western countries that are confronting the wrath of climate induced natural disasters more recently. SANDEE has been a pioneer in the development of research and

training in environmental economics and related issues in South Asia and Prof Maler has been throughout SANDEE's history, its mentor, and its strongest supporter. Many young economists in South Asia have significantly benefited from Prof Maler's guidance and inputs. The present volume on "Climate Change and Community Resilience: Insights from South Asia" is a fitting tribute and an excellent reflection of Prof Maler's contributions to the SANDEE programme throughout his association. - Mahesh Banskota, Ph.D. Professor, Development Studies School of Arts, Kathmandu University This comprehensive volume aptly identifies grassroots initiatives as the core of the problem of adaptation to climate change. The analysis of the different experiments is lucid, inclusive, and

full of interesting detail. The methodologies used and the subjects covered span a range of frameworks and narratives. Put together, the studies are a fitting tribute to Karl-Goran Maler, who spent years putting his impeccable expertise to use for the cause of enhancing research in South Asia. - Kanchan Chopra, Ph.D. Former Director and Professor, Institute of Economic Growth, Delhi, and Fellow, SANDEE The slow international policy response to climate change elevates the importance of understanding how communities can respond to climate change's many threats. This unusually accessible volume provides that understanding for South Asia while being relevant to the rest of the world. Its emphasis on research by scholars from the region makes it a

wonderful tribute to Prof. Karl-Göran Mäler, who contributed so much to the growth of environmental economics research capacity in South Asia. - Jeffrey R. Vincent, Ph.D. Clarence F. Korstian Professor of Forest Economics & Management Nicholas School of the Environment, Duke University, USA

Inclusive Green Growth - Calvin Atewamba 2020-05-28

Fostering inclusive green growth in Africa means addressing existing and emerging development challenges, while efficiently managing Africa's natural capital and building resilience to environmental, social and economic risks. Although this new paradigm for development has the potential to create tremendous business opportunities, there are also challenges. This book provides

empirical evidence on the conditions for the emergence of green businesses in Africa. It includes 13 case studies, which identify the determinants of small and medium-size enterprises' engagement in inclusive and sustainable growth in rural Africa, and the factors that hinder eco-innovation in business and entrepreneurial activities. Furthermore it discusses appropriate regulations and policies to stimulate the development of green business in Africa. Offering insights into the relationship between eco-innovation, labor productivity and business competitiveness in rural Africa, this book appeals to scholars, policy makers and practitioners interested in a green economy for Africa.

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.

GMO Food - David E. Newton 2014-10-07
Providing an exhaustive background on the history of genetically modified organism (GMO) crops and foods as well as the controversies surrounding these products, this book allows readers to develop their own

particular viewpoint on the production and use of GMO substances. Genetic engineering has long been used to impart desirable characteristics to food plants in order to improve crop yield, pest resistance, and herbicide tolerance. Genetic modification of foods, however, has created a storm of controversy everywhere in the world—including the United States. What are the benefits of and risks involved with genetically modified organisms (GMO) and crops? What powerful industry pressures have extended the sale and use of GMO foods and crops globally? And how should consumer food products that involve GM ingredients be labeled? GMO Food: A Reference Handbook addresses these questions and the complex issues involved, allowing

readers to fully understand why genetically modified organisms represent one of the most important issues in the 21st century. The book provides clear, factual information and background on the history of genetically modified crops and foods, covering topics such as the historic methods of plant and animal modification (such as cross-breeding) and important discoveries in genetics, biochemistry, molecular biology, genetic engineering, and related fields; the social, political, philosophical, and economic issues that have arisen with these scientific advances; and the laws and regulations that have resulted from the range of attitudes about GMO foods. The book also supplies additional resources for readers performing extensive research

in an annotated bibliography of books, articles, reports, and web pages.

Computer and Computing Technologies in Agriculture VII - Daoliang Li
2014-02-21

The two-volume set IFIP AICT 419 and 420 constitutes the refereed post-conference proceedings of the 7th IFIP TC 5, WG 5.14 International Conference on Computer and Computing Technologies in Agriculture, CCTA 2013, held in Beijing, China, in September 2013. The 115 revised papers presented were carefully selected from numerous submissions. They cover a wide range of interesting theories and applications of information technology in agriculture, including Internet of things and cloud computing; simulation models and decision-

support systems for agricultural production; smart sensor, monitoring, and control technology; traceability and e-commerce technology; computer vision, computer graphics, and virtual reality; the application of information and communication technology in agriculture; and universal information service technology and service systems development in rural areas.

Agricultural Research in Africa -
Lynam, John 2016-09-06

This book—prepared by Agricultural Science and Technology Indicators (ASTI), which is led by IFPRI—offers a comprehensive perspective on the evolution, current status, and future goals of agricultural research and development in Africa, including analyses of the complex underlying issues and challenges involved, as

well as insights into how they might be overcome. Agriculture in Africa south of the Sahara is at a prospective tipping point. Growth has accelerated in the past decade, but is unsustainable given increasing use of finite resources. The yield gap in African agriculture is significant, and scenarios on feeding the world's population into the future highlight the need for Africa to expand its agricultural production. Agricultural Research in Africa: Investing in Future Harvests discusses the need to shift to a growth path based on increased productivity—as in the rest of the developing world—which is essential if Africa is to increase rural incomes and compete in both domestic and international markets. Such a shift ultimately requires building on evolving improvements

that collectively translate to deepening rural innovation capacity. **Food Wars** - Tim Lang 2015-10-16
In the years since publication of the first edition of Food Wars much has happened in the world of food policy. This new edition brings these developments fully up to date within the original analytical framework of competing paradigms or worldviews shaping the direction and decision-making within food politics and policy. The key theme of the importance of integrating human and environmental health has become even more pressing. In the first edition the authors set out and brought together the different strands of emerging agendas and competing narratives. The second edition retains the same core structure and includes updated examples, case

studies and the new issues which show how these conflicting tendencies have played out in practice over recent years and what this tells us about the way the global food system is heading. Examples of key issues given increased attention include: nutrition, including the global rise in obesity, as well as chronic conditions, hunger and under-nutrition the environment, particularly the challenges of climate change, biodiversity loss, water stress and food security food industry concentration and market power volatility and uncertainty over food prices and policy responses tensions over food, democracy and citizenship social and cultural aspects impacting food and nutrition policies.

Critical Role of Animal Science

Research in Food Security and Sustainability - National Research Council 2015-03-31

By 2050 the world's population is projected to grow by one-third, reaching between 9 and 10 billion. With globalization and expected growth in global affluence, a substantial increase in per capita meat, dairy, and fish consumption is also anticipated. The demand for calories from animal products will nearly double, highlighting the critical importance of the world's animal agriculture system. Meeting the nutritional needs of this population and its demand for animal products will require a significant investment of resources as well as policy changes that are supportive of agricultural production. Ensuring sustainable agricultural growth will

be essential to addressing this global challenge to food security. Critical Role of Animal Science Research in Food Security and Sustainability identifies areas of research and development, technology, and resource needs for research in the field of animal agriculture, both nationally and internationally. This report assesses the global demand for products of animal origin in 2050 within the framework of ensuring global food security; evaluates how climate change and natural resource constraints may impact the ability to meet future global demand for animal products in sustainable production systems; and identifies factors that may impact the ability of the United States to meet demand for animal products, including the need for trained human capital, product safety

and quality, and effective communication and adoption of new knowledge, information, and technologies. The agricultural sector worldwide faces numerous daunting challenges that will require innovations, new technologies, and new ways of approaching agriculture if the food, feed, and fiber needs of the global population are to be met. The recommendations of Critical Role of Animal Science Research in Food Security and Sustainability will inform a new roadmap for animal science research to meet the challenges of sustainable animal production in the 21st century. Population, Development, and the Environment - Helen James 2019-02-15 This book takes the reader into some of the most intransigent social, economic, and political issues that

impact achieving sustainable development in Asia and the Pacific. Through meticulous analysis of the integrated relationships between population, development, and the environment, the chapters in this volume investigate the impacts of hydropower development on fragile ecosystems; mining, landslides and environmental degradation; deforestation; water and food security; rural-urban migration, poverty alleviation, civil society and community empowerment; and how disaster recovery requires multi-scalar and multi-disciplinary approaches that take into account governance, culture, and leadership. Legal frameworks may be legislated, but are often rarely implemented. The book will be valuable to students of sustainability, population and

development, and governmental policy advising sectors as well as the NGO and humanitarian sectors. The distinctive characteristic of this book is that it encapsulates an integrated, multi-disciplinary focus which brings to the discussion both robust empirical research and challenging policy applications in the investigation of how the sustainable development goals may be achieved in Asia and the Pacific.

Agricultural Adaptation to Climate Change in Africa - Cyndi Spindell

Berck 2018-03-05

A changing climate is likely to have a drastic impact on crop yields in Africa. The purpose of this book is to document the effects of climate change on agriculture in Africa and to discuss strategies for adaptation to hotter weather and less

predictable rainfall. These strategies include promoting opportunities for farmers to adopt technologies that produce optimal results in terms of crop yield and income under local agro-ecological and socioeconomic conditions. The focus is on sub-Saharan Africa, an area that is already affected by changing patterns of heat and rainfall. Because of the high prevalence of subsistence farming, food insecurity, and extreme poverty in this region, there is a great need for practical adaptation strategies. The book includes empirical research in Ethiopia, Kenya, South Africa, Tanzania, and other Sub-Saharan countries, and the conclusion summarizes policy-relevant findings from the chapters. It is aimed at advanced students, researchers,

extension and development practitioners, and officials of government agencies, NGOs, and funding agencies. It also will provide supplementary reading for courses in environment and development and in agricultural economics.

Super 10 Mock Tests for IAS Prelims General Studies Paper 2 (CSAT) Exam - 2nd Edition - Disha Experts

Pattern Recognition and Computer Vision - Jian-Huang Lai 2018-11-01
The four-volume set LNCS 11056, 110257, 11258, and 11073 constitutes the refereed proceedings of the First Chinese Conference on Pattern Recognition and Computer Vision, PRCV 2018, held in Guangzhou, China, in November 2018. The 179 revised full papers presented were carefully

reviewed and selected from 399 submissions. The papers have been organized in the following topical sections: Part I: Biometrics, Computer Vision Application. Part II: Deep Learning. Part III: Document Analysis, Face Recognition and Analysis, Feature Extraction and Selection, Machine Learning. Part IV: Object Detection and Tracking, Performance Evaluation and Database, Remote Sensing.

Development Challenges and Solutions After the Arab Spring - Ali Kadri 2016-01-26

Since the events of 2011, most Arab countries have slipped into a state of war, and living conditions for the majority of the working population have not changed for the better. This edited collection examines the socioeconomic conditions and contests

the received policy framework to demonstrate that workable alternatives do exist.

Challenges in implementing a small-scale farmers' capacity-building program - Ragasa, Catherine
2016-01-20

In 2011, in collaboration with the United States Agency for International Development (USAID), the Democratic Republic of Congo's government launched the Food Production, Processing, and Marketing project—which aimed to raise incomes and improve food security in the target areas by improving agricultural productivity, market efficiency, and the capacity of producers to respond to market signals. In August–October 2013 and February–March 2014, halfway through the project's implementation, a

midline survey was conducted to assess progress with respect to intermediate outcomes. The present paper highlights the results of that assessment survey. We pay close attention to accurate attribution of observed changes to the project and employ a double-difference method that compares the changes in indicators before the project and at the time of the survey (project midline) between the beneficiaries and comparable control groups. Overall, the survey results suggest weak impact on most of the outcome indicators, and they highlight challenges in implementing small-scale farmers' capacity building within the context of weak institutions and a fragile political context.

A Framework for Assessing Effects of

the Food System - National Research Council 2015-06-17

How we produce and consume food has a bigger impact on Americans' well-being than any other human activity. The food industry is the largest sector of our economy; food touches everything from our health to the environment, climate change, economic inequality, and the federal budget. From the earliest developments of agriculture, a major goal has been to attain sufficient foods that provide the energy and the nutrients needed for a healthy, active life. Over time, food production, processing, marketing, and consumption have evolved and become highly complex. The challenges of improving the food system in the 21st century will require systemic approaches that take full account of social, economic,

ecological, and evolutionary factors. Policy or business interventions involving a segment of the food system often have consequences beyond the original issue the intervention was meant to address. A Framework for Assessing Effects of the Food System develops an analytical framework for assessing effects associated with the ways in which food is grown, processed, distributed, marketed, retailed, and consumed in the United States. The framework will allow users to recognize effects across the full food system, consider all domains and dimensions of effects, account for systems dynamics and complexities, and choose appropriate methods for analysis. This report provides example applications of the framework based on complex questions that are currently under debate:

consumption of a healthy and safe diet, food security, animal welfare, and preserving the environment and its resources. A Framework for Assessing Effects of the Food System describes the U.S. food system and provides a brief history of its evolution into the current system. This report identifies some of the real and potential implications of the current system in terms of its health, environmental, and socioeconomic effects along with a sense for the complexities of the system, potential metrics, and some of the data needs that are required to assess the effects. The overview of the food system and the framework described in this report will be an essential resource for decision makers, researchers, and others to examine the possible impacts of

alternative policies or agricultural or food processing practices. *Redesigning the Global Seed Commons* - Christine Frison 2018-11-08
There is much current controversy over whether the rights to seeds or plant genetic resources should be owned by the private sector or be common property. This book addresses the legal and policy aspects of the multilateral seed management regime. First, it studies in detail the International Treaty on Plant Genetic Resources for Food and Agriculture (the Treaty) in order to understand and identify its dysfunctions. Second, it proposes solutions - using recent developments of the "theory of the commons" - to improve the collective seed management system of the Treaty, a necessary condition for its member states to reach the

overall food security and sustainable agriculture goals. Redesigning the Global Seed Commons provides a significant contribution to the current political and academic debates on agrobiodiversity law and governance, and on food security and food sovereignty, by analyzing key issues under the Treaty that affect the design and implementation of regulatory instruments managing seeds as a commons. It also examines the practical, legal, political and economic problems encountered in the attempt to implement these obligations in contemporary settings. In particular, it considers how to improve the Treaty implementation by proposing ways for Contracting Parties to better reach the Treaty's objectives taking a holistic view of the human-seed ecosystem. Following

the tenth anniversary of the functioning the Treaty's multilateral system of access and benefit-sharing, which is currently under review by its Contracting Parties, this book is well-timed to examine recent developments in the field and guide the current review process to design a truly Global Seed Commons.

Genetically Modified Organisms in Food - Ronald Ross Watson 2015-08-20
Genetically Modified Organisms in Food focuses on scientific evaluation of published research relating to GMO food products to assert their safety as well as potential health risks. This book is a solid reference for researchers and professionals needing information on the safety of GMO and non-GMO food production, the economic benefits of both GMO and non-GMO foods, and includes in-depth coverage

of the surrounding issues of genetic engineering in foods. This is a timely publication written by a team of scientific experts in the field who present research results to help further more evidence based research to educate scientists, academics, government professionals about the safety of the global food supply. Provides the latest on research and development in the field of GMOs and non-GMO safety issues and possible risk factors incorporating evidence based reviews for a better understanding of these issues Covers various aspects of GMO production, analysis and identification to better understand GMO development and use Includes definitions, a brief overview and history of GM foods from a global perspective and concise summaries with recommendations for

actions for each chapter
Flood recession agriculture for food security in Northern Ghana - Sidibe, Yoro 2016-02-26

This review describes a range of physical and socio-economic scientific methods and field activities that will be implemented in a proposed research project to develop a better understanding of the extent and patterns of flooding and the potential of flood-recession agriculture. These activities will allow the hydrological characteristics of the river to be matched to crop-livestock systems of flood recession agriculture that are well suited to the study communities and their organizational and institutional frameworks in order to support sustainable growth of such systems. This detailed study will

provide recommendations on the technical, economic, institutional and policy measures needed to achieve sustainable intensification of flood recession agriculture in northern Ghana, while complementing efforts undertaken to promote other types of water management systems. Options for out-scaling of flood recession agriculture beyond the study area to other suitable areas will also be explored. The expectation is that the proposed project will improve food security by enhancing knowledge on effective flood recession practices,

enhance rural incomes through expanded dry-season farming with new opportunities for rural employment, and improve adaptation to climate change by building more resilient farming communities. To achieve these expected outcomes, proactive policies that clearly identify flood recession agriculture as an alternative farming practice and provide institutional mandates to irrigation support services to promote it through training, demonstration, and outreach programs will be equally valuable.