

International Trade And Food Security Exploring Collective Food Security In Asia Nus Centre For International

Food Security and Nutrition **Food and the City** **Food Security, Nutrition and Sustainability** **Global Food Security** **Food Security and Climate Change** Food Security in the High North *Food Security and Global Environmental Change* **Food Security in the Developing World** **Food Security and Safety** Food Insecurity Advances in Food Security and Sustainability **Climate Change and Food Security** Understanding Food Insecurity *Achieving Food Security in China* *Food Security and Food Safety for the Twenty-first Century* **COVID-19 and global food security** **The Feeding of Nations** *Alternative Proteins* **Encyclopedia of Food Security and Sustainability** **The Role of Functional Food Security in Global Health** *Home Gardens for Improved Food Security and Livelihoods* Reclaiming Food Security **Food Security for Rural Africa** *Food Security, Gender and Resilience* *Water Productivity and Food Security* **Climate Change and Food Security with Emphasis on Wheat** **Climate Change and Global Food Security** **Transforming Gender and Food Security in the Global South** **Routledge Handbook of Food and Nutrition Security** **Farming Systems and Food Security in Africa** *Climate Change and Food Security in Asia Pacific* **Food Security, Agricultural Policies and Economic Growth** Governing food security *New Challenges to Food Security* Food Security in Africa **Food Security Policy, Evaluation and Impact Assessment** **Food Security and Land Use Change under Conditions of Climatic Variability** Transnational Food Security World Food Security The Water, Energy, and Food Security Nexus in the Arab Region

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Food Security, Gender and Resilience Nov 08 2020 Through the integration of gender analysis into resilience thinking, this book shares field-based research insights from a collaborative, integrated project aimed at improving food security in subsistence and smallholder agricultural systems. The scope of the book is both local and multi-scalar. The gendered resilience framework, illustrated here with detailed case studies from semi-arid Kenya, is shown to be suitable for use in analysis in other geographic regions and across disciplines. The book examines the importance of gender equity to the strengthening of socio-ecological resilience. Case studies reflect multidisciplinary perspectives and focus on a range of issues, from microfinance to informal seed systems. The book's gender perspective also incorporates consideration of age or generational relations and cultural dimensions in order to embrace the complexity of existing socio-economic realities in rural farming communities. The issue of succession of farmland has become a general concern, both to farmers and to researchers focused on building resilient farming systems. Building resilience here is shown to involve strengthening households' and communities' overall livelihood capabilities in the face of ongoing climate change, global market volatility and political instability.

Climate Change and Global Food Security Aug 06 2020 In order to feed their burgeoning populations, developing nations will need to double cereal production by the year 2050. This increase will have to come from existing land, as little potential exists for bringing new land under cultivation -- a daunting prospect when one realizes that increased use and significantly higher concentrations of carbon dioxide have led to a severe depletion of the carbon pool in the world's soils. This is especially telling in developing countries where tropical climates further compromise the soil's ability to recover. In *Climate Change and Global Food Security*, bestselling editor Rattan Lal heads up a team of the world's top soil scientists and ecologists to document the history of this impending agricultural crisis and explore possible solutions. Throughout this timely text, the authors address six complex themes: 1. The impact of projected climate change on soil quality, water resources, temperature regime, and growing season duration on net primary productivity of different biomes 2. Soil carbon dynamics under changing climate 3. The impact of changes in carbon dioxide and ecological environments on agronomic yields and food production in different regions of the world 4. World food demands and supply during the 21st century 5. Policy and economic issues related to carbon trading and enhancing agricultural production 6. Research and development priorities for enhancing soil carbon pool and food security This hard-hitting text is essential reading for anyone involved with soil and crop sciences as well as policy makers and change agents who need to come to the forefront of this issue armed with the latest information and viable solutions.

Food Security in the Developing World Mar 25 2022 *Food Security in the Developing World* provides an entry point into the complex and challenging subject of providing access to nutritious and safe food in a readable format, capturing the essence of the subject in an effective and impactful manner. Organized into nine chapters the book covers the manifestation and measurement of food insecurity; means whereby households endeavour to be food-secure; causes of food insecurity; mitigation of current food insecurity and prevention of future food insecurity. There will then follow a chapter with case studies, a chapter on cross-cutting issues and the final chapter drawing conclusions and

recommendations on the way forward to increase the prevalence of food security in developing countries. A glossary and Bibliography will round off the book. Dr. Ashley's real-world experience makes the book accessible while providing valuable insights into the broad range of factors that contribute to food insecurity in this large at-risk population, and practical means of addressing them. Presents all aspects of food security in a logical sequence Covers the manifestation and measurement of food insecurity Includes case studies and cross-cutting multidisciplinary issues

Farming Systems and Food Security in Africa May 03 2020 Knowledge of Africa's complex farming systems, set in their socio-economic and environmental context, is an essential ingredient to developing effective strategies for improving food and nutrition security. This book systematically and comprehensively describes the characteristics, trends, drivers of change and strategic priorities for each of Africa's fifteen farming systems and their main subsystems. It shows how a farming systems perspective can be used to identify pathways to household food security and poverty reduction, and how strategic interventions may need to differ from one farming system to another. In the analysis, emphasis is placed on understanding farming systems drivers of change, trends and strategic priorities for science and policy. Illustrated with full-colour maps and photographs throughout, the volume provides a comprehensive and insightful analysis of Africa's farming systems and pathways for the future to improve food and nutrition security. The book is an essential follow-up to the seminal work *Farming Systems and Poverty* by Dixon and colleagues for the Food and Agriculture Organization (FAO) of the United Nations and the World Bank, published in 2001.

Food Security and Land Use Change under Conditions of Climatic Variability Sep 26 2019 This volume analyzes the global challenges of food security, land use changes, and climate change impacts on food production in order to recommend sustainable development policies, anticipate future food services and demands, and identify the economic benefits and trade-offs of meeting food security demands and achieving climate change mitigation objectives. The key points of analysis that form the conclusions of this book are based on measuring the quantity and quality of land and water resources, and the rate of use of sustainable management of these resources in the context of socio-economic factors, including food security, poverty, and climate change impacts. In six parts, readers will learn about these crucial dimensions of the affects of climate change on food security, and will gain a better understanding of how to assess the trade-offs when combating multiple climate change challenges and how to develop sustainable solutions to these problems. The book presents multidimensional perspectives from expert contributors, offering holistic and strategic approaches to link knowledge on climate change and food security with action in the form of policy recommendations, with a focus on sociological and socio-economic components of climate change impacts. The intended audience of the book includes students and researchers engaged in climate change and food security issues, NGOs, and policy makers.

Climate Change and Food Security Nov 20 2021 Roughly a billion people around the world continue to live in state of chronic hunger and food insecurity. Unfortunately, efforts to improve their livelihoods must now unfold in the context of a rapidly changing climate, in which warming temperatures and changing rainfall regimes could threaten the basic productivity of the agricultural systems on which most of the world's poor directly depend. But whether climate change represents a minor impediment or an existential threat to

development is an area of substantial controversy, with different conclusions wrought from different methodologies and based on different data. This book aims to resolve some of the controversy by exploring and comparing the different methodologies and data that scientists use to understand climate's effects on food security. It explains the nature of the climate threat, the ways in which crops and farmers might respond, and the potential role for public and private investment to help agriculture adapt to a warmer world. This broader understanding should prove useful to both scientists charged with quantifying climate threats, and policy-makers responsible for crucial decisions about how to respond. The book is especially suitable as a companion to an interdisciplinary undergraduate or graduate level class.

Food and the City Sep 30 2022

Food Security and Safety Feb 21 2022 This book focuses on food security and safety issues in Africa, a continent presently challenged with malnutrition and food insecurity. The continuous increase in the human population of Africa will lead to higher food demands, and climate change has already affected food production in most parts of Africa, resulting in drought, reduced crop yields, and loss of livestock and income. For Africa to be food-secure, safe and nutritious food has to be available, well-distributed, and sufficient to meet people's food requirements. Contributors to *Food Security and Safety: African Perspectives* offer solutions to the lack of adequate safe and nutritious food in sub-Saharan Africa, as well as highlight the positive efforts being made to address this lack through a holistic approach. The book discusses the various methods used to enhance food security, such as food fortification, fermentation, genetic modification, and plant breeding for improved yield and resistance to diseases. Authors emphasize the importance of hygiene and food safety in food preparation and preservation, and address how the constraints of climate change could be overcome using smart crops. As a comprehensive reference text, *Food Security and Safety: African Perspectives* seeks to address challenges specific to the African continent while enhancing the global knowledge base around food security, food safety, and food production in an era of rapid climate change.

Food Security and Climate Change Jun 27 2022 This book looks at the current state of food security and climate change, discusses the issues that are affecting them, and the actions required to ensure there will be enough food for the future. By casting a much wider net than most previously published books—to include select novel approaches, techniques, genes from crop diverse genetic resources or relatives—it shows how agriculture may still be able to triumph over the very real threat of climate change. *Food Security and Climate Change* integrates various challenges posed by changing climate, increasing population, sustainability in crop productivity, demand for food grains to sustain food security, and the anticipated future need for nutritious quality foods. It looks at individual factors resulting from climate change, including rising carbon emission levels, increasing temperature, disruptions in rainfall patterns, drought, and their combined impact on planting environments, crop adaptation, production, and management. The role of plant genetic resources, breeding technologies of crops, biotechnologies, and integrated farm management and agronomic good practices are included, and demonstrate the significance of food grain production in achieving food security during climate change. *Food Security and Climate Change* is an excellent book for researchers, scientists, students, and policy makers involved in agricultural science and technology, as well as those concerned with the effects of climate change on our environment and the food

industry.

Transnational Food Security Aug 25 2019 Transnational Food Security addresses food security from an international relations, political economy and legal perspective analysing the relationship between food security and the environment and climate change, trade, finance and contracts, and the intersection between food and human rights. The topic of food concerns one of the most basic and profound aspects of human survival. Universal and equal access to food is, at the same time, ridden with problems of power, inequality, distribution and implicated in old and new geopolitical conflicts. As such, 'food' and food security are central to conditions of poverty and hunger, development and 'modernisation', transitional justice and rule of law reform around the world. As a problem of critique and scholarly inquiry, food prompts an inter-disciplinary assessment of the nature of food security in the modern world. The contributors to this book take us deep into the complexity of food and illustrate the challenges of adequately understanding and approaching questions of food security and food sovereignty in a globally interconnected world. Transnational Food Security will be of great interest to scholars of international relations, political economy, and transnational law. The chapters were originally published as a special issue of Transnational Legal Theory Journal.

Food Security, Nutrition and Sustainability Aug 30 2022 As the threats of food insecurity loom ever larger, the world faces the sad irony of food shortages in the global South alongside a purported 'obesity epidemic' in the global North. The twin issues of food production and food access are of particular concern in the context of climate change, 'peak oil', biofuels, and land grabs by wealthy nations. Food Security, Nutrition and Sustainability offers critical insights by international scholars, with chapters on global food security, supermarket power, new technologies, and sustainability. The book also assesses the contributions of diet and nutrition research in building socially just and environmentally sustainable food systems and provides policy recommendations to improve the health and environmental status of contemporary agri-food systems. The book features contributions from a range of social science perspectives, including sociology, anthropology, public health and geography, with case study material drawn from throughout the world.

Food Security and Food Safety for the Twenty-first Century Aug 18 2021 This book is a collection of selected papers that were presented at the First International Conference of the Asia-Pacific Society for Agricultural and Food Ethics (APSAFE 2013), which was held at Chulalongkorn University from November 28 - 30, 2013. The papers are interdisciplinary, containing insights into food security and food ethics from a variety of perspectives, including, but not limited to, philosophy, sociology, law, sociology, economics, as well as the natural sciences. The theme of the conference was to consider the interplay and balance between food security and food ethics as the world approaches the middle part of the twenty-first century.

COVID-19 and global food security Jul 17 2021 The coronavirus pandemic has sparked not only a health crisis but also an economic crisis, which together pose a serious threat to food security, particularly in poorer countries. COVID-19 & Global Food Security brings together a groundbreaking series of IFPRI blog posts looking at the impacts of COVID-19 and the policy responses. IFPRI researchers and guest bloggers provide key insights and analysis on how the global pandemic is affecting global poverty and food security and nutrition, food trade and supply chains, gender, employment, and a variety of policy

interventions, as well as reflections on how we can use these lessons to better prepare for future pandemics. These pieces draw on a combination of conceptual arguments, global and country-level simulation models, in-country surveys, case studies, and expert opinions. Together, they present a comprehensive picture of the current and potential impact of COVID-19 and the world's policy responses on global food and nutrition security.

New Challenges to Food Security Dec 30 2019 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.

Understanding Food Insecurity Oct 20 2021 This book provides a comprehensive overview of key aspects of food insecurity, including definitional and conceptual issues, information systems and data sources, indicators, and policies. The aim is to equip readers with a sound understanding of the subject that will assist in the recognition of food insecurity and the design of suitable responses. The early chapters discuss the evolution and limitations of the concept and provide a set of conceptual frameworks for the analysis of food security. Systems used to collect data and their evolution over time are then explained, and the most commonly adopted indicators for monitoring food security are presented. Approaches to food security are then thoroughly reviewed decade by decade. Specific attention is paid to the food insecurity challenge in the new millennium, focusing particularly on recent food crises and institutional and policy-related consequences. Finally, the specific terminology of food aid and assistance is examined, with discussion of the instruments recently adopted in the food aid system. This book will be an informative and stimulating resource for both students and professionals.

The Role of Functional Food Security in Global Health Mar 13 2021 The Role of Functional Food Security in Global Health presents a collective approach to food security through the use of functional foods as a strategy to prevent under nutrition and related diseases. This approach reflects the views of the Food and Agriculture Organization of the United Nations, the World Health Organization, the World Heart Federation and the

American Heart Association who advise Mediterranean, Paleolithic, plant food based diets, and European vegetarian diets for the prevention of cardiovascular disease. In addition, the book also emphasizes the inclusion of spices, herbs and millets, as well as animal foods. This book will be a great resource to the food industry as it presents the most efficient ways to use technology to manufacture slowly absorbed, micronutrient rich functional foods by blending foods that are rich in healthy nutrients. Provides greater knowledge on functional food security Highlights the necessary changes to the western diet that are needed to achieve food security Explains the utility and necessity of functional food security in the prevention of noncommunicable diseases Presents policy changes in food production for farmers and the larger food industry Offers suggestions on what can be done to enhance functional food production while simultaneously decreasing production costs

The Feeding of Nations Jun 15 2021 In the last decade, the world has grown richer and produced more food than ever before. Yet in that same period, hunger has increased and 925 million remain underfed and malnourished. Exploring this troubling paradox, *The Feeding of Nations: Re-Defining Food Security for the 21st Century* offers a glimpse into how the simple aspiration of global food

Routledge Handbook of Food and Nutrition Security Jun 03 2020 The concept of food and nutrition security has evolved and risen to the top of the international policy agenda over the last decade. Yet it is a complex and multi-faceted issue, requiring a broad and inter-disciplinary perspective for full understanding. This Handbook represents the most comprehensive compilation of our current knowledge of food and nutrition security from a global perspective. It is organized to reflect the wide scope of the contents, its four sections corresponding to the accepted current definitional frameworks prevailing in the work of multilateral agencies and mainstream scholarship. The first section addresses the struggles and progression of ideas and debates about the subject in recent years. The other sections focus on three key themes: how food has been, is and should be made available, including by improvements in agricultural productivity; the ways in which politico-economic and social arenas have shaped access to food; and the effects of food and nutrition systems in addressing human health, known as food utilisation. Overall, the volume synthesizes a vast field of information drawn from agriculture, soil science, climatology, economics, sociology, human and physical geography, the nutrition and health sciences, environmental science and development studies.

Advances in Food Security and Sustainability Dec 22 2021 *Advances in Food Security and Sustainability, Volume Five*, takes a scientific look at the challenges, constraints and solutions necessary to maintain a healthy and accessible food supply in different communities. This ongoing series addresses a wide range of issues on food sustainability and security, exploring challenges related to protecting environmental resources while also meeting human nutritional requirements. Contains expertise from leading contributors on the topics Covers a vast array of subjects relating to food security and sustainability Explores challenges related to protecting environmental resources while also meeting human nutritional requirements

Transforming Gender and Food Security in the Global South Jul 05 2020 Drawing on studies from Africa, Asia and South America, this book provides empirical evidence and conceptual explorations of the gendered dimensions of food security. It investigates how food security and gender inequity are conceptualized within interventions, assesses the

impacts and outcomes of gender-responsive programs on food security and gender equity and addresses diverse approaches to gender research and practice that range from descriptive and analytical to strategic and transformative. The chapters draw on diverse theoretical perspectives, including transformative learning, feminist theory, deliberative democracy and technology adoption. As a result, they add important conceptual and empirical material to a growing literature on the challenges of gender equity in agricultural production. A unique feature of this book is the integration of both analytic and transformative approaches to understanding gender and food security. The analytic material shows how food security interventions enable women and men to meet the long-term nutritional needs of their households, and to enhance their economic position. The transformative chapters also document efforts to build durable and equitable relationships between men and women, addressing underlying social, cultural and economic causes of gender inequality. Taken together, these combined approaches enable women and men to reflect on gendered divisions of labor and resources related to food, and to reshape these divisions in ways which benefit families and communities. Co-published with the International Development Research Centre.

Food Security in Africa Nov 28 2019 This edited volume "Food Security in Africa" is a collection of reviewed and relevant research chapters offering a comprehensive overview of recent developments in the field of food safety and availability, water issues, farming and nutrition. The book comprises single chapters authored by various researchers and edited by an expert active in the public health and food security research area. All chapters are complete in itself but united under a common research study topic. This publication aims at providing a thorough overview of the latest research efforts by international authors on Africa's food security challenges, quality of water, small-scale farming as well as economic and social challenges that this continent is facing. Hopefully, this volume will open new possible research paths for further novel developments.

Food Security for Rural Africa Dec 10 2020 At least fifty years of projects aimed at the rural poor in Africa have had very little impact. Up to half of the children of these countries are still suffering from stunting and malnutrition. Soil degradation and poor crop yields are ubiquitous. Projects are almost always aimed at helping local people to solve their problems by growing for the market. In some countries, projects link poor villagers into cooperatives to produce a commercial output. In other countries, projects target more competent entrepreneurial villagers. Almost all these projects fail after several years. Even those that are successful make few inroads into the problems. While the slogan 'feeding the farmers first' comes from the Philippines, it is particularly applicable to much of Africa, where household food security can come from household production. This book explains how projects can be designed that increase food security through subsistence production. Focusing on particular people and projects, it gives a sociological analysis of why this is so difficult to manage. This book challenges the models promoted by academics in the field of development studies and argues against the strategies adopted by most donor organizations and government bodies. It explains why commercial projects have been so ubiquitous even though they rarely work. It gives practical tips on how to set up villages and farms to achieve sustainable solutions that also provide plenty of nutritious food. The book is written to be accessible and engaging. For anyone planning to work in the rural areas of Africa, this book is required reading.

Reclaiming Food Security Jan 11 2021 In this challenging work, the author argues that the

goal of any food system should not simply be to provide the cheapest calories possible. A secure food system is one that affords people and nations - in both the present and future - the capabilities to prosper and lead long, happy, and healthy lives. For a variety of reasons, food security has come to be synonymous with cheap calorie security. On this measure, the last fifty years have been a remarkable success. But the author shows that these cheap calories have also come at great cost, to the environment, individual and societal well-being, human health, and the food sovereignty of nations. The book begins by reviewing the concept of food security, particularly as it has been enacted within agrifood and international policy over the last century. After proposing a coherent definition the author then assesses empirically whether these policies have actually made us and the environment any better off. One of the many ways the author accomplishes this task is by introducing the Food and Human Security Index (FHSI) in an original attempt to better measure and quantify the affording qualities of food systems. A FHSI score is calculated for 126 countries based on indicators of objective and subjective well-being, nutrition, ecological sustainability, food dependency, and food system market concentration. The final FHSI ranking produces many counter-intuitive results. Why, for example, does Costa Rica top the ranking, while the United States comes in at number fifty-five? The author concludes by arguing for the need to reclaim food security by returning the concept to something akin to its original spirit, identified earlier in the book. While starting at the level of the farm the concluding chapter focuses most of its attention beyond the farm gate, recognizing that food security is more than just about issues surrounding production. For example, space is made in this chapter to address the important question of, "What can we eat if not GDP?" We need, the author contends, a thoroughly sociological rendering of food security: a position that views food security not as a thing - or an end in itself - but as a process that ought to make people and the Planet better off.

Home Gardens for Improved Food Security and Livelihoods Feb 09 2021 Home Gardens for Improved Food Security and Livelihoods demonstrates how home gardens hold particular significance for resource-poor and marginalized communities in developing countries, and how they offer a versatile strategy toward building local and more resilient food systems. With food and nutritional security being a major global challenge, there is an urgent need to find innovative ways to increase food production and diversify food sources while increasing income-generating opportunities for communities faced with hunger and poverty. This book shows that when implemented properly, home gardens can become just such an innovative solution, as well as an integral part of sustainable food security programs. It provides a conceptual overview of social, economic, environmental and nutritional issues related to home gardening in diverse contexts, including gender issues and biodiversity conservation, and presents case studies from Africa, Asia and Latin America highlighting home gardening experiences and initiatives. The volume concludes with a synthesis of key lessons learned and ways forward for further enhancing home gardens for sustainable food security and development. This book will be a useful read for students and scholars working on local food systems, food security, sustainable development and more broadly development strategy.

Governing food security Jan 29 2020 With only five years left until the 2015 deadline to achieve the Millennium Development Goals, food security still is a dream rather than reality: 'a situation that exists when all people, at all times, have physical and economic access to sufficient, safe and nutritious food to meet their dietary needs and food

preferences for an active and healthy life'. Political commitments at world summits on food security, market-based agricultural policies, science-based food safety regulation and voluntary guidelines on the right to food have not ended hunger, malnourishment or food safety crises in our world. The question arises whether food insecurity is a situation that exists in spite of these commitments and legal measures, or rather due to them? This book has three purposes. Firstly, it offers insights in how law, politics and the right to food contribute to food security in both positive and negative ways. For this purpose, different theories, concepts and methodologies from legal, political, anthropological and sociological sciences are used and developed. Secondly, the book explains that food security and food policies cannot be treated as given, at one level or in one domain only. This is done in different ways: by pointing out the emergence of new paradigms on food security, human rights and science that shape food policies; by showing how law and policies at one level affect food security at another level; and by treating food security and food policies as linked to governance regimes of agriculture, food, feed, water or property. Finally, the book offers scholarly analysis of paradigms and practices but also presents social science-based ways to indirectly contribute to food security, varying from improving justiciability to building trust, from seeking ways to address non-scientific concerns to creating room for plurality of lifestyles and norms, from unmasking dominant discourse to understanding or strengthening abilities or arrangements to cope with vulnerabi

World Food Security Jul 25 2019 This book is the first comprehensive account of the numerous attempts made since the Second World War to provide food security for all. It provides a reference source for all those involved and interested in food security issues.

Climate Change and Food Security with Emphasis on Wheat Sep 06 2020 Climate Change and Food Security with Emphasis on Wheat is the first book to present the full scope of research in wheat improvement, revealing the correlations to global issues including climate change and global warming which contribute to food security issues. Wheat plays a key role in the health of the global economy. As the world population continuously increases, economies modernize, and incomes rise, wheat production will have to increase dramatically to secure it as a reliable and sustainable food source. Since covering more land area with wheat crops is not a sustainable option, future wheat crops must have consistently higher yields and be able to resist and/or tolerate biotic and abiotic stresses that result from climate change. Addressing the biophysical and socioeconomic constraints of producing high-yielding, disease-resistant, and good quality wheat, this book will aid in research efforts to increase and stabilize wheat production worldwide. Written by an international team of experts, Climate Change and Food Security with Emphasis on Wheat is an excellent resource for academics, researchers, and students interested in wheat and grain research, especially as it is relevant to food security. Covers a wide range of disciplines, including plant breeding, genetics, agronomy, physiology, pathology, quantitative genetics and genomics, biotechnology and gene editing Explores the effect of climate change on biotic stresses (stripe rust, stem rust, leaf rust, Karnal bunt, spot blotch) on wheat production and utilization of biotechnology Focuses on whole genome sequencing and next-generation sequencing technologies to improve wheat quality and address the issue of malnutrition in developing world

Food Security and Nutrition Nov 01 2022 Food and nutrition security - identified via availability, access, utilization, and stability - and transitions to sustainable food systems are major discourses in the agro-food arena, as many countries today experience different

forms of malnutrition simultaneously, such as child undernutrition, anemia among women, and adult obesity. Meanwhile, the triple burden of malnutrition (undernutrition, overnutrition, and micronutrient deficiency) is still widespread. Food Security and Nutrition explores integrated, context-specific approaches to food security challenges, emphasizing nutrition security as an integral component and addressing the implications of food content to food and nutrition security policies. Providing insight into these challenges through agricultural, policy, nutritional, geographic and sustainability lenses, Food Security and Nutrition is a valuable reference for food scientists and nutrition researchers working in food supply, food security, and nutrition security, and policy makers, investors, and other decision-makers seeking to address food insecurity around the world. Addresses nutrition security as part of the overall challenge of food security Explores contributing factors that impact both food and nutrition security Presents insights into effective policy development and implementation

Food Security and Global Environmental Change Apr 25 2022 Global environmental change (GEC) represents an immediate and unprecedented threat to the food security of hundreds of millions of people, especially those who depend on small-scale agriculture for their livelihoods. As this book shows, at the same time, agriculture and related activities also contribute to GEC by, for example, intensifying greenhouse gas emissions and altering the land surface. Responses aimed at adapting to GEC may have negative consequences for food security, just as measures taken to increase food security may exacerbate GEC. The authors show that this complex and dynamic relationship between GEC and food security is also influenced by additional factors; food systems are heavily influenced by socioeconomic conditions, which in turn are affected by multiple processes such as macro-level economic policies, political conflicts and other important drivers. The book provides a major, accessible synthesis of the current state of knowledge and thinking on the relationships between GEC and food security. Most other books addressing the subject concentrate on the links between climate change and agricultural production, and do not extend to an analysis of the wider food system which underpins food security; this book addresses the broader issues, based on a novel food system concept and stressing the need for actions at a regional, rather than just an international or local, level. It reviews new thinking which has emerged over the last decade, analyses research methods for stakeholder engagement and for undertaking studies at the regional level, and looks forward by reviewing a number of emerging 'hot topics' in the food security-GEC debate which help set new agendas for the research community at large. Published with Earth System Science Partnership, GECAFS and SCOPE

Alternative Proteins May 15 2021 In the last decade, there has been substantial research dedicated towards prospecting physiochemical, nutritional and health properties of novel protein sources. In addition to being driven by predictions of increased population and lack of a parallel increase in traditional protein sources, main drivers for the rise in novel proteins/ novel foods research activities is linked to significant changes in young consumers' attitudes toward red meat consumption and their interest in new alternative protein products. *Alternative Proteins: Safety and Food Security Considerations* presents up-to-date information on alternative proteins from non-meat sources and examines their nutritional and functional roles as food sources and ingredients. Emphasis is placed on the safety of these novel proteins and an evaluation of their potential contribution to food security. Motivations for novel proteins and restrictions for their use are also discussed.

Key Features: Explains potential improvements to alternative proteins through the employment of novel processing techniques. Contains the first review on keratin as an alternative protein source. Explores first comprehensive evaluation of the religious aspects of novel proteins. Describes methods for the detection and evaluation of health hazards. Discusses guidelines, regulatory issues and recommendations for food safety. Additionally, this book covers fundamental and recent developments in the production of alternative proteins, and examines safety and consumer acceptability wherever information is available. The sources and processing options for alternative proteins and their impact on final product characteristics are also covered. A collective contribution from international researchers who are active in their field of research and have made significant contributions to the food sciences, this book is beneficial to any researcher interested in the food science and safety of alternative proteins.

Water Productivity and Food Security Oct 08 2020 *Water Productivity and Food Security: Global Trends and Regional Patterns, Volume Three* reviews the need for water productivity improvements in agriculture, addressing three distinct questions pertaining to agricultural water productivity improvement in developing countries, including what are the regions where water is a limiting factor for raising agricultural outputs and water productivity improvements, what are the technological measures in irrigation that can raise agricultural water productivity and result in water saving at various scales, and what opportunities exist in the developing economies of South Asia and Africa for raising water productivity and improving water economy at basin scale. This book provides a framework to characterize river basins based on water availability, water supplies, water uses and water demands to ascertain the need and measures available for improving crop water productivity that would be effective at various scales, i.e., plant-level, plot-level, irrigation system level and basin level. This is an essential reference for anyone interested in water management and agriculture. Presents clear explanations of the physical and technical measures that can be adopted to improve productivity of water in agricultural production under different basin conditions. Offers physical strategies for improving water productivity in agriculture in different agroecological regions, along with the institutional and policy measures that affect them. Includes methodologies for assessing the food security challenges of individual nations using empirical analysis and global datasets.

Achieving Food Security in China Sep 18 2021 China's food security has never failed to attract the public's attention. Feeding China's large population has always been a huge challenge. The latest large-scale famine took place in 1958-62 during which approximately 37 million people died of starvation. However, since the early 1980s, China's food availability has improved drastically. The important question is then: has China achieved its food security? Although China's food availability has significantly improved, it has not achieved a high level of food security due to the lack of progress in several other important dimensions of food security. The book examines China's food security practices in the past six decades, explores the root causes that led to food shortages or abundances, and elaborates on the challenges that China has to deal with in order to improve its future food security. China's quest for food security serves as a valuable lesson for many other countries to learn through China's experiences and to better manage their food security in the future. The book also draws attention to the fact that China's food security status has a huge impact on the global community and hence global collaboration is a mutually beneficial approach.

Encyclopedia of Food Security and Sustainability Apr 13 2021 The Encyclopedia of Food Security and Sustainability covers the hottest topics in the science of food sustainability, providing a synopsis of the path society is on to secure food for a growing population. It investigates the focal issue of sustainable food production in relation to the effects of global change on food resources, biodiversity and global food security. This collection of methodological approaches and knowledge derived from expert authors around the world offers the research community, food industry, scientists and students with the knowledge to relate to, and report on, the novel challenges of food production and sustainability. This comprehensive encyclopedia will act as a platform to show how an interdisciplinary approach and closer collaboration between the scientific and industrial communities is necessary to strengthen our existing capacity to generate and share research data. Offers readers a 'one-stop' resource on the topic of food security and sustainability Contains articles split into sections based on the various dimensions of Food Security and Food Sustainability Written by academics and practitioners from various fields and regions with a "farm to fork understanding Includes concise and accessible chapters, providing an authoritative introduction for non-specialists and readers from undergraduate level upwards, as well as up-to-date foundational content for those familiar with the field

Food Security, Agricultural Policies and Economic Growth Mar 01 2020 Using a political-economic approach supplemented with insights from human ecology, this volume analyzes the long-term dynamics of food security and economic growth. The book begins by discussing the nature of preindustrial food crises and the changes that have occurred since the 19th century with the ascent of technical science and the fossil fuel revolution. It explains how these changes improved living standards but that the realization of this improvement was usually dependent on government support for smallholder modernization. The author sets out how the evolution of food security in different regions has been influenced by farm policy choices and how these choices were shaped by local societal characteristics, international relations and changing configurations in metropolitan countries. Separate chapters are devoted to the interaction of this evolution with debates on food security and economic growth and with international economic policies. The final chapters highlight the new challenges for global food security that will arise as traditional sources of biomass production and the more easily extractable reserves of fossil biomass become depleted or can no longer be used. Overall, the book emphasizes the inadequacy of current explanations with regard to these challenges. It explores what is needed to ensure a sustainable future and calls for a rethinking of these issues; a necessary reflection in today's unstable global political situation.

Global Food Security Jul 29 2022 This book looks at food security from a socio-economic perspective. It offers a detailed and systematic examination of food security from its historical backgrounds, concepts and measurements, to the determinants and approaches to achieve food security. The book also introduces the key challenges and root causes of food insecurity. Through country-specific cases, the book highlights instances of both successful and disastrous national food security management and their outcomes. The invaluable learning experiences of these countries shed light on food security practices, and the straightforward demand-supply framework effectively guides readers in understanding food security issues. This is an essential resource for anyone who is keen to learn more about food security, particularly researchers and university students who are

new to the field. The book endeavours to help us reflect on the current phenomenon and strategize better for the future.

Food Insecurity Jan 23 2022 This book explores the experiences, causes, and consequences of food insecurity in different geographical regions and historical eras. It highlights collective and political actions aimed at food sovereignty as solutions to mitigate suffering. Despite global efforts to end hunger, it persists and has even increased in some regions. This book provides interdisciplinary and historical perspectives on the manifestations of food insecurity, with case studies illustrating how people coped with violations of their rights during the war-time deprivation in France; the neoliberal incursions on food supply in Turkey, Greece, and Nicaragua; as well as the consequences of radioactive contamination of farmland in Japan. This edited collection adopts an analytical approach to understanding food insecurity by examining how the historical and political situations in different countries have resulted in an unfolding dialectic of food insecurity and resistance, with the most marginalized people—immigrants, those in refugee camps, poor peasants, and so forth—consistently suffering the worst effects, yet still maintaining agency to fight back. The book tackles food insecurity on a local as well as a global scale and will thus be useful for a broad range of audiences, including students, scholars, and the general public interested in studying food crises, globalization, and current global issues.

Food Security in the High North May 27 2022 This book explores the challenges facing food security, sustainability, sovereignty, and supply chains in the Arctic, with a specific focus on Indigenous Peoples. Offering multidisciplinary insights and with a particular focus on populations in the European High North region, the book highlights the importance of accessible and sustainable traditional foods for the dietary needs of local and Indigenous Peoples. It focuses on foods and natural products that are unique to this region and considers how they play a significant role towards food security and sovereignty. The book captures the tremendous complexity facing populations here as they strive to maintain sustainable food systems - both subsistent and commercial - and regain sovereignty over traditional food production policies. A range of issues are explored including food contamination risks, due to increasing human activities in the region, such as mining, to changing livelihoods and gender roles in the maintenance of traditional food security and sovereignty. The book also considers processing methods that combine indigenous and traditional knowledge to convert the traditional foods, that are harvested and hunted, into local foods. This book offers a broader understanding of food security and sovereignty and will be of interest to academics, scholars and policy makers working in food studies; geography and environmental studies; agricultural studies; sociology; anthropology; political science; health studies and biology.

Food Security Policy, Evaluation and Impact Assessment Oct 27 2019 This book offers an essential, comprehensive, yet accessible reference of contemporary food security discourse and guides readers through the steps required for food security analysis. Food insecurity is a major obstacle to development and achievement of the Sustainable Development Goals. It is a complex issue that cuts across traditional sectors in government and disciplines in academia. Understanding how multiple elements cause and influence food security is essential for policymakers, practitioners and scholars. This book demonstrates how evaluation can integrate the four elements of food security (availability, access, nutrition and resilience) and offers practical tools for policy and programme impact

assessment to support evidence-based planning. Aimed at researchers, postgraduates and those undertaking professional development in food studies, agricultural economics, rural development, nutrition and public health, the book is key reading for those seeking to understand evidence-based food security analysis.

The Water, Energy, and Food Security Nexus in the Arab Region Jun 23 2019 This book investigates the need for a more open and interdisciplinary dialogue on the nexus of food, water and energy security in the Arab region. It argues that achieving sustainable economic development is irretrievably tied to the security of the water-energy-food nexus, which is in turn essential for bringing about sustained peace. Further, it discusses various approaches to achieving these lofty objectives, and offers the following take-away messages: The Arab region is currently under considerable water stress, and the situation will continue to get worse with a number of global changes – most notably those related to climate and regional water distribution. Viable solutions are available in the Arab region and can be implemented through innovative policies, judicious use of new technologies, and stimulating public opinion. Integration across water, energy, and food sectors is obviously needed but achieving it in practice is extremely challenging. There are some gaps in the scientific understanding but at the same time there is a wealth of data and synthesized information that can guide decision-making.

Climate Change and Food Security in Asia Pacific Apr 01 2020 Using an interdisciplinary approach, this book evaluates the complex nexus between climate change and regional food security in Asia Pacific. Feeding the planet puts a lot of stress on the environment. The fundamental challenges we are facing today include how to grow more from less in a sustainable manner; how to optimize the entire food value chain from field to fork to reduce the carbon footprint, protect the environment and support biological diversity, cause less water pollution and soil erosion, raise levels of nutrition, improve agricultural productivity, better the lives of rural populations and contribute to the growth of the world economy. With a robust multi-site study in Southeast Asia, Pacific Island Forum and South Asia, this book examines the regional initiatives on, the current state of, and the future prospects for mitigations and resilience regarding climate change and food security vis-à-vis other regions of the world.