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Handbook on Food Nutrition transition and the structure of global food demand Population and Food in the Early Twenty-first Century Population and Food Dietary change and food demand in urbanizing Bangladesh Aggregate Food Demand and the Supply of Agricultural Products Global Food Futures Health, Nutrition and Food Demand World Population and Food Supply and Demand Situation U.S. Demand for Food Megatrends in Food and Agriculture Global Food Demand Patterns Over Changing Levels of Economic Development Structural changes in the demand for food in Asia Food in the Third World Projecting Food Demand Convergence in Global Food Demand and Delivery The Econometrics of Demand Systems Global Food Trade and Consumer Demand for Quality Global Agricultural Supply and Demand International Food Consumption Patterns and Global Drivers of Agricultural Production World Population and Food Supply and Demand Situation China's food economy to the twenty-first century Longrun Changes in World Food Supply and Demand East Asia's Demand for Energy, Minerals and Food World Food Production, Demand, and Trade Food security in a world of natural resource scarcity SYNOPSIS of FOOD SECURITY IN A WORLD OF NATURAL RESOURCE SCARCITY A Consistent Food Demand Framework for International Food Security Assessment U.S. Demand for Food The Oxford Handbook of the Economics of Food Consumption and Policy Analysis of food demand and supply across the rural-urban continuum for selected countries in Africa Global Food Security Food Demand Analysis International Trade and Food Security Economic Analysis of Supply and Demand for Food Up to 2030 Science Breakthroughs to Advance Food and Agricultural Research by 2030 Supply and Demand Balance in the B.C. Food Sector Food Demand Analysis The World Food Economy Agricultural Land Management to Meet Future Global Food Demand

Handbook on Food

2014-01-01

this volume is a welcome and timely contribution to a topic of enduring importance the global consequences of recent food price crises underscore the need to examine food security issues from diverse perspectives this volume meets that need featuring accessible yet cutting edge analyses of food security by leading experts in fields as diverse as trade nutrition public health production political economy and behavioral economics it will be of interest to a wide range of scholars and practitioners steven block tufts university us this excellent volume offers a compact but wide ranging survey of recent research on important changes in global food markets its 20 chapters accurately capture important areas of scholarly agreement as well as on going debates among economists studying agriculture and nutrition with several provocative original contributions from other fields the book draws particularly on the authors long experience in asia offering widely applicable insights for scholars and policy analysts seeking to understand the past present and future of food around the world william a masters tufts university us the global population is forecasted to reach 9.4 billion by 2050 with much of this increase concentrated in developing regions and cities ensuring adequate food and nourishment to this large population is a pressing economic moral and even security challenge and requires research and action from a multi disciplinary perspective this book provides the first such integrated approach to tackling this problem by addressing the multiplicity of challenges posed by rising global population diet diversification and urbanization in developing countries and climate change it examines key topics such as the impact of prosperity on food demand the role of international trade in addressing food insecurity the challenge posed by greenhouse gas emissions from agriculture and land degradation the implication on labor markets of severe under nutrition viability of small scale farms strategies to augment food availability the handbook on food would be a welcome supplementary text for courses on development economics particularly those concentrating on agricultural development climate change and food availability as well as nutrition

Nutrition transition and the structure of global food demand

2017-04-07

estimating future demand for food is a critical aspect of global food security analyses the process linking dietary changes to wealth is known as the nutrition transition and presents well identified features that help to predict consumption changes in poor countries this study proposes to represent the nutrition transition with a nonhomothetic flexible in income demand system known as the modified implicitly directly additive demand system maddads the resulting model is transparent and estimated statistically based on cross sectional information from faostat the statistical database of the food and agriculture organization of the united nations it captures the main features of the nutrition transition rise in demand for calories associated with income growth diversification of diets away from starchy staples and a large increase in caloric demand for animal based products fats and sweeteners the estimated model is used to project food demand between 2010 and 2050 based on a set of plausible futures trend projections and shared socioeconomic pathways scenarios the main results of these projections are as follows 1 global food demand will increase by 46 percent less than half the growth in the previous four decades 2 this growth will be attributable mainly to lower middle income and low income countries 3 the structure of global food demand will change over the period with a 95 percent increase in demand for animal based calories and a much smaller 18 percent increase in demand for starchy staples and 4 the analysis of a range of population and income projections reveals important uncertainties depending on the scenario the projected increases in demand for animal based and vegetal based calories range from 78 to 109 percent and from 20 to 42 percent respectively

Population and Food in the Early Twenty-first Century

1995-01-01

the ifpri roundtable with its focus on the prospects of a long term balance between food demand and supply provided a link between the two conferences as the adequacy of food supply at affordable prices for future populations is a crucial element in a strategy designed to alleviate poverty and accelerate growth in the context of an increasing population

Population and Food

1996

an encouraging assessment of the prospects for feeding humanity in the 21st century population and food examines recent trends in food production and includes case studies from throughout developed and developing worlds

Dietary change and food demand in urbanizing Bangladesh

2021-12-31

poor quality diets are one of the leading causes of malnutrition and common non communicable disease in this study we use nationally representative household survey data and food demand system estimations to analyze dietary change and changing consumer preferences for different foods in the context of urbanization in low and middle income countries we estimate and compare income and price elasticities of total food demand and the demand for 15 food groups in rural urban and city areas of bangladesh for 2010 and 2016 we then use oaxaca blinder decomposition regressions to explore how much of the observed food consumption changes can be explained by changes in revealed consumer preferences vis à vis changes in household income and food prices the results show that bangladeshi diets shifted from coarse to refined rice and consumer preferences for vegetables and pulses were relatively low contributing to worsening dietary quality on the other hand the consumption of nutritious animal source foods including fish poultry and eggs increased due to high consumer preferences and declining food prices partly thanks to governmental production support regarding the dietary implications of rapid urbanization the analysis suggests that rural consumers diets will largely follow the trajectory of urban consumers in bangladesh

Aggregate Food Demand and the Supply of Agricultural Products

1981

global food futures presents a highly accessible account of the global food situation up to 2050 tackling the widespread assumption that world agriculture will fail to feed a projected population of 9 billion

Global Food Futures

2013-09-26

over the last two decades increasing concerns about health risks related to diets have had significant impacts on food consumption patterns in the united states and europe this timely book presents the results of several comparative studies of the impacts of health information on food consumption behavior amongst various socio economic groups and across many different countries it also provides economic analysis of food demand estimations and implications for future global food systems

Health, Nutrition and Food Demand

2003

highlights and examines the growing convergence between the food and agricultural industries the technological environmental and consumer related drivers of this change and the potential outcomes this is the first book of its kind to connect food and the food industry with agriculture water resources and water management in a detailed and thorough way it brings together a small community of expert authors to address the future of the food industry agriculture both for plants and animals and water and its role in a world of increasing demands on resources the book begins by highlighting the role of agriculture in today s food industry from a historical perspective showing how it has grown over the years it goes on to examine water management new ways of plant breeding not only based on genetic modification pathways and the attention between major crops soy corn wheat and so called orphan crops coffee cocoa tropical fruits the book then turns towards the future of the food industry and analyzes major food trends the new food and enough food discusses possible new business models for the future food industry and analyzes the impact that the internet of everything will have on agriculture and the food industry finally megatrends in food and agriculture technology water use and nutrition offers scenarios about how agriculture food and the food industry might undergo some radical transformations assesses the evolution of food production and how we arrived at today s landscape focuses on key areas of change driven by both innovation and challenges such as new technologies the demand for better nutrition and the management of dwindling resources highlights the role of better informed consumers who demand transparency and accountability from producers is written by industry insiders and academic experts megatrends in food and agriculture technology water use and nutrition is an important resource for food and agriculture industry professionals including scientists and technicians as well as decision makers in management marketing sales and regulatory areas as well as related ngos

World Population and Food Supply and Demand Situation

1974

this paper presents an overview of changing food consumption patterns in taiwan and china it finds that consumption of meat quadrupled in taiwan between the periods 1959 61 and 1989 91 while per capita rice consumption declined by one half in mainland china consumption of nonstaple foods such as meat rose 10 percent how much of these changes in diet resulted from income and price effects and how much from structural factors such as urbanization this question has important implications for accurately forecasting the future demand for food in asia

U.S. Demand for Food

1985

research report on food security trends since the 1960s and projections to 2000 covering food production food consumption and trade in food staples in developing countries compares population growth growth in crop yields of major food crops and food demand examines trends in food imports and exports using per capita income growth rates identifies countries likely to have food shortages or surpluses and calorie deficiencies discusses food policy implications includes methodology bibliography statistical tables

Megatrends in Food and Agriculture

2018-02-05

using food expenditures and food sales data over 1990-2004 this report examines whether food consumption and delivery trends are converging across 47 high and middle income countries middle income countries such as china and mexico appear to be following trends in high income countries measured across several dimensions of food system growth and change convergence is apparent in most important food expenditure categories and in indicators of food system modernization such as supermarket and fast food sales

Global Food Demand Patterns Over Changing Levels of Economic Development

1987

this book contains some of the results from the research project demand for food in the nordic countries which was initiated in 1988 by professor olof bolin of the agricultural university in ultuna sweden and by professor karl iohan weckman of the university of helsinki finland a pilot study was carried out by bengt assarsson which in 1989 led to a successful application for a research grant from the nkj the nordic contact body for agricultural research through the national research councils for agricultural research in denmark finland norway and sweden we are very grateful to olof bolin and karl iohan weckman without whom this project would not have come about and to the national research councils in the nordic countries for the generous financial support we have received for this project we have received comments and suggestions from many colleagues and this has improved our work substantially at the start of the project a reference group was formed consisting of professor olof bolin professor anders klevmarken agr lie gert aage nielsen professor karl iohan weckman and cando oecon per halvord vale gert aage nielsen left the group early in the project for a position in landbanken and was replaced by professor lars otto while per halvord vale soon joined the research staff the reference group has given us useful suggestions and encouraged us in our work we are very grateful to them

Structural changes in the demand for food in Asia

2004-08-09

consumers have always been concerned about the quality and particularly the safety of the foods they eat in recent years this concern has taken on additional prominence consumer focus on food safety has been sharpened by reports about new risks such as that posed by mad cow disease and about more familiar sources of risk such as food borne pathogens pesticides and hormones at the same time some consumers are increasingly interested in knowing more about how their food is produced and in selecting products based on production practices some of the questions consumers are asking include whether food is produced with the use of modern biotechnology whether it is organically produced how animals are treated in meat and egg production systems and whether food is produced using traditional methods recent trends also show increased consumer demand for a variety of food products that are fresh tasty and available on a year round basis this has fostered increased global trade in food for example consumers in temperate climates such as north america are able to buy raspberries throughout the year and europeans can enjoy south american coffee trade in processed food products is actually increasing more rapidly than trade in agricultural commodities further addressing the demand for variety among consumers

Food in the Third World

1986

world market prices for major food commodities such as grains and vegetable oils have risen sharply to historic highs of more than 60% above levels just 2 years ago many factors have contributed to the runup in food commodity prices some factors reflect trends of slower growth in production and more rapid growth in demand that have contributed to a tightening of world balances of grains and oilseeds over the last decade other factors include increased global demand for biofuels feedstocks and adverse weather conditions in 2006 and 2007 in some major grain and oilseed producing areas this report discusses these and other factors and illustrates how they have contributed to food commodity price increases tables and graphs

Projecting Food Demand

1986

an understanding of food demand and food trends across countries and the ability to predict potential shifts in demand for different food products is an invaluable tool for all individuals involved in the agricultural sector in a 2003 report international evidence on food consumption patterns ers and collaborating economists estimated income and price elasticities of demand for broad consumption categories such as food clothing education and other goods and for food categories such as cereals meats and dairy across 114 countries using 1996 international comparison program icp data these elasticities measure the degree to which consumption changes when prices or incomes change this book provides an update on the international evidence on food consumption patterns using the 2005 international date program data and discusses global drivers of agricultural demand and supply

Convergence in Global Food Demand and Delivery

2012-06-07

china japan and south korea s international relations are shaped by the fact that all three countries are significant importers of resources this book brings together work on specific aspects of the politics of resources for each of these countries regionally and internationally there are some similarities in the approaches taken by all these three for example their development assistance shares a focus on infrastructure building and reluctance to purposefully influence domestic politics however there are also significant differences due in large part to the individual nature of the states as international actors china has significant domestic supplies of resources while japan and korea are net importers china s size also marks it out as different as does its state socialist history and continuing authoritarian state one of the key issues to understanding contemporary resource politics in northeast asia is that western dominance of the world order is currently declining in some cases northeast asian approaches to resources are seen as being mercantilist in other cases northeast asian powers are seen as replacing western powers in exploiting resource rich developing countries this book gives readers an informed view of this very important issue in contemporary international relations this book was published as a special issue of asian studies review

The Econometrics of Demand Systems

2012-12-06

the world s population is expected to reach 9 billion by 2050 climate change population and income growth will drive food demand in the coming decades baseline scenarios show food prices for maize rice and wheat would significantly increase between 2005 and 2050 and the number of people at risk of hunger in the developing world would grow from 881 million in 2005 to more than a billion people by 2050 food security in a world of natural resource scarcity the role of agricultural technologies examines which current and potential strategies offer solutions to fight hunger the type and effectiveness of agricultural technologies are highly debated and the debates are often polarized technology options are many but transparent evidence based information has been inconclusive or scarce this book endeavors to respond to the challenge of growing food sustainably without degrading our natural resource base the authors use a groundbreaking modeling approach that combines comprehensive process based modeling of agricultural technologies with sophisticated global food demand supply and trade modeling this approach assesses the yield and food impact through 2050 of a broad range of agricultural technologies under varying assumptions of climate change for the three key staple crops maize rice and wheat geared toward policymakers in ministries of agriculture and national agricultural research institutes as well as multilateral development banks and the private sector food security in a world of natural resource scarcity provides guidance on various technology strategies and which to pursue as competition grows for land water and energy across productive sectors and even increasingly across borders the book is an important tool for targeting

investment decisions today and going forward

Global Food Trade and Consumer Demand for Quality

2013-03-14

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Global Agricultural Supply and Demand

2010

a parsimonious demand modeling approach has been developed for the annual usda ers international food security assessment to be fully implemented in 2016 the approach incorporates price effects variation in food quality across income deciles and consistent aggregation over income deciles and food qualities the approach is based on a simple piglog demand approach for four food categories corn other grains roots and tubers and all other foods the framework exhibits desirable characteristics obtained via calibration food quality within a food group increases with income e.g. from simple wheat flour purchased by poor households to commercial baked goods purchased by higher income groups price and income responses become less sensitive with increasing income and increasing income inequality decreases average per capita food consumption the proposed modeling approach is illustrated for tanzania the new calibrated model will be able to identify the unique impacts of income prices and exchange rates on food consumption i.e. potential sources of food insecurity

International Food Consumption Patterns and Global Drivers of Agricultural Production

2014

first reference on food consumption and policy

World Population and Food Supply and Demand Situation

1974

this background paper to the state of food security and nutrition in the world 2023 analyses a key element of agrifood systems transformation the change of patterns in food supply and demand several studies have discussed this topic but the current one takes an innovative perspective of analysis considering these changes with a spatial perspective using the urban rural catchment areas urca approach to analyse changes in food expenditure across the rural urban continuum using living standards measurement studies lsms of 11 african countries the analysis is preceded by a literature review of agrifood value chains transformation stages drivers and current situation focused in low and middle income countries lmics and is followed by a macro review of food supply around the world and a macro meso review of the supply of wheat and rice in two african countries the conclusions shows that most food is purchased in all households across the rural urban continuum even in rural areas breaking with the myth of rural subsistence farming in africa in addition the results show a diffusion of the consumption of processed foods including in a lesser extent highly processed foods all across the rural urban continuum and not only in rural areas from a food supply perspective the low global availability of foods that are part of a healthy diet as fruits vegetables and legumes nuts and seeds calls for increasing efforts for producing more nutritious foods in all countries of the world

China's food economy to the twenty-first century

1997

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

Longrun Changes in World Food Supply and Demand

1984

this book explores structural changes in india s agrifood systems during the next ten to twenty years the dynamics in the agrifood sector is explored in the context of the overall economy taking into account agricultural and trade policies and their impacts on national and global markets the contributors draw on qualitative and quantitative approaches using both a national model to focus on urban rural relations and income distribution and an international model to focus on patterns of economic growth and international trade

East Asia's Demand for Energy, Minerals and Food

2016-02-05

with the worlds population expected to reach 8 2 billion people by 2030 and with 842 million people estimated as having been undernourished in the period 201113 food supply will

present a growing challenge in the next two decades with increases in income along with demographic changes related to family size population ageing and urbanization and consumer trends such as concerns for healthy eating and sustainable production there will be great shifts in demand and major changes in the composition of demand this will in turn have an impact on food supply which will need to both increase and become more efficient if it is to grow within the constraints presented by the availability of natural resources and existing technology this publication presents projections of future food supply up to 2030 building on existing analyses but also providing more economic perspectives on the future evolution of food production

World Food Production, Demand, and Trade

1973

for nearly a century scientific advances have fueled progress in u s agriculture to enable american producers to deliver safe and abundant food domestically and provide a trade surplus in bulk and high value agricultural commodities and foods today the u s food and agricultural enterprise faces formidable challenges that will test its long term sustainability competitiveness and resilience on its current path future productivity in the u s agricultural system is likely to come with trade offs the success of agriculture is tied to natural systems and these systems are showing signs of stress even more so with the change in climate more than a third of the food produced is unconsumed an unacceptable loss of food and nutrients at a time of heightened global food demand increased food animal production to meet greater demand will generate more greenhouse gas emissions and excess animal waste the u s food supply is generally secure but is not immune to the costly and deadly shocks of continuing outbreaks of food borne illness or to the constant threat of pests and pathogens to crops livestock and poultry u s farmers and producers are at the front lines and will need more tools to manage the pressures they face science breakthroughs to advance food and agricultural research by 2030 identifies innovative emerging scientific advances for making the u s food and agricultural system more efficient resilient and sustainable this report explores the availability of relatively new scientific developments across all disciplines that could accelerate progress toward these goals it identifies the most promising scientific breakthroughs that could have the greatest positive impact on food and agriculture and that are possible to achieve in the next decade by 2030

Food security in a world of natural resource scarcity

2014-02-12

the questions of population growth and food supply have long been of central concern to economists the world food economy seeks to examine the lessons of the past for wealthy nations where agricultural output has steadily risen for decades as well as for developing nations where the advances of the green revolution in the 1960s have introduced new problems in addition to solutions this text assesses the challenge of satisfying food demand during the twenty first century as consumers and producers in every part of the world rich and poor alike feel the effects of expanded global commodity trade food aid and national legislation in response to globalization examines increases in agricultural output and productivity in both the developed and developing worlds analyzes the centrality of agricultural development to general economic progress and explores cases where governments attempt to foster economic expansion while neglecting food production assesses the challenge of satisfying food demand during the twenty first century given the effects of globalization on international trade and national legislation

SYNOPSIS of FOOD SECURITY IN A WORLD OF NATURAL RESOURCE SCARCITY

2014-02-15

in the 21st century global agriculture is facing two major competing issues urgently calling for us to investigate the nexus of land food climate first food production will need to

substantially increase to meet the growing demand of a larger and wealthier population moreover climate change urbanization and several other drivers are posing challenges to food production farmers can increase food production either by expanding their land area or by raising existing agricultural land productivity given the limited cultivatable land and high socio economic and ecosystem costs of clearing more land for agriculture the prospect of expanding agricultural land is almost non existent therefore it is vital to raise crop yields on existing farmlands by adopting sustainable land management practices several social economic demographic and biophysical factors can affect the implementation of land management practices in different agricultural production systems consequently the design and implementation of location specific land management practices that can enhance crop yields while minimizing adverse environmental impacts are important and require further research and investigation in this special issue we invited manuscripts that address research issues including the following sustainable intensification of agricultural land modeling agricultural systems and food production design and implementation of land management practices economic analysis of agricultural interventions adoption and diffusion of agricultural technologies environmental benefits of land management practices

A Consistent Food Demand Framework for International Food Security Assessment

2015

U.S. Demand for Food

1991

The Oxford Handbook of the Economics of Food Consumption and Policy

2011-09-08

Analysis of food demand and supply across the rural-urban continuum for selected countries in Africa

2023-12-15

Global Food Security

2019-12-06

Food Demand Analysis

1986

International Trade and Food Security

2016-07-08

Economic Analysis of Supply and Demand for Food Up to 2030

2014

Science Breakthroughs to Advance Food and Agricultural Research by 2030

2019-04-21

Supply and Demand Balance in the B.C. Food Sector

1982

Food Demand Analysis

1987

The World Food Economy

2006-11-03

Agricultural Land Management to Meet Future Global Food Demand

2024-03-14

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