



Food and Agriculture  
Organization of the  
United Nations



# **FAO** PUBLICATIONS **CATALOGUE 2016**



**FAO** PUBLICATIONS  
**CATALOGUE**

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**CATANDICA,  
MOZAMBIQUE**  
Farmers in their cornfield.  
©FAO/F. Branquinho



# INTRODUCTION

**The mission of the Food and Agriculture Organization of the United Nations (FAO)**, the largest specialized agency of the United Nations, is to secure a world free from hunger and malnutrition, to reduce rural poverty and to ensure that everyone has the means to produce or buy enough food to live a healthy and active life – i.e. food security for all.

**Achieving Zero Hunger is a tremendous challenge.** Not only does it mean feeding a population projected to increase from 7 to 9.7 billion people by 2050, while adapting to climate change. It also means ensuring that our oceans, land, forests and natural diversity of plants and animals are conserved for future generations; and understanding the critical relationship between peace, conflict and food security. The Sustainable Development Goals (SDGs), an integrated set of development goals agreed by the United Nations in 2015, provide the roadmap for FAO to carry out this work.

**FAO plays an important and unique role as a neutral forum**, providing unbiased, high-quality information across all areas relating to food, agriculture and sustainable natural resources management, based on its extensive knowledge and experience.

**With over 500 new publications a year**, the Organization provides robust technical knowledge and global statistics. By broadly disseminating timely, accurate and compelling information, FAO's publishing programme aims to inform the work of practitioners, researchers and policy-makers, at the same time as it raises the awareness and understanding of the wider public. Its most important publications are produced in the six official languages of the United Nations (Arabic, Chinese, English, French, Russian and Spanish).

# MAJOR GLOBAL REPORTS

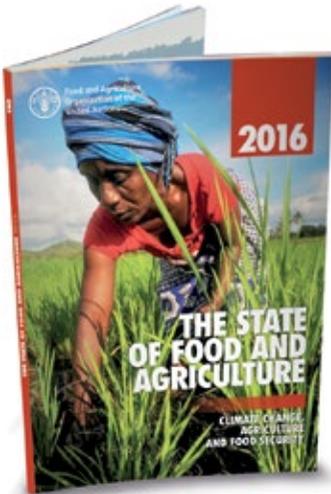
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FAO'S FLAGSHIP PUBLICATIONS PROVIDE COMPREHENSIVE REVIEWS AND STATISTICAL ANALYSES COVERING THE GLOBAL SITUATION OF AGRICULTURE, HUNGER, NATURAL RESOURCES AND RELATED AREAS.



# THE STATE OF FOOD AND AGRICULTURE 2016

## CLIMATE CHANGE, AGRICULTURE AND FOOD SECURITY

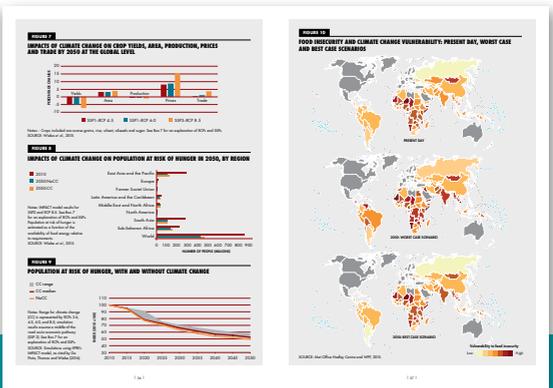
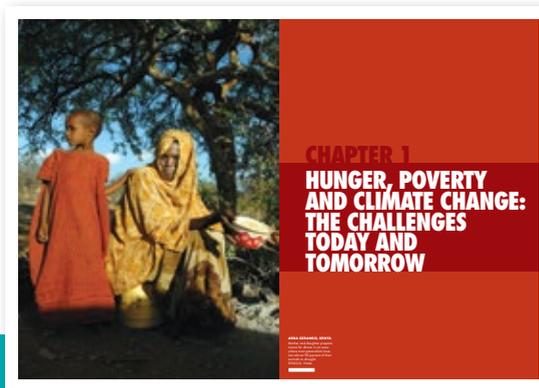


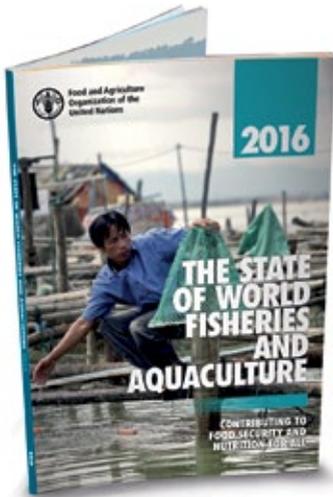
Rome, 2016  
 ISBN 978-92-5-109374-0  
 196 pp., 210 x 297 mm  
 USD 56.00, Paperback  
 Also available in e-book format  
 Available in: Arabic, Chinese, English, French, Russian, Spanish

Unless action is taken now to make agriculture more sustainable, productive and resilient, climate change impacts will seriously compromise food production in countries and regions that are already highly food-insecure. The Paris Agreement, adopted in December 2015, represents a new beginning in the global effort to stabilize the climate before it is too late. It recognizes the importance of food security in the international response to climate change, as reflected by many countries' prominent

focus on the agriculture sector in their planned contributions to adaptation and mitigation. To help put those plans into action, this report identifies strategies, financing opportunities, and data and information needs. It also describes transformative policies and institutions that can overcome barriers to implementation.

**The State of Food and Agriculture** is produced annually. Each edition contains an overview of the current global agricultural situation, as well as more in-depth coverage of a topical theme.





# THE STATE OF WORLD FISHERIES AND AQUACULTURE 2016

CONTRIBUTING TO FOOD SECURITY AND NUTRITION FOR ALL

The *State of World Fisheries and Aquaculture 2016* gives a global analysis of trends in fish stocks, production, processing, utilization, trade and consumption. It reports on the status of the world's fishing fleets and analyses human engagement in the sector.

The publication highlights specific areas including: nutrition; aquatic invasive alien species; resilience; and governance of tenure and user rights. It reports on developments such as the Common Oceans initiative, a broad-scale approach to sustainable management of fisheries resources in areas that do not fall under the responsibility of any one country, as well as FAO's Blue Growth Initiative. It also

examines efforts to combat illegal, unreported and unregulated fishing. The *State of World Fisheries and Aquaculture* series is a unique source of objective, reliable and up-to-date global information on fisheries and aquaculture development, of relevance to policy-makers, managers, scientists and all those interested in the sector.

Rome, 2016  
 ISBN 978-92-5-109185-2  
 200 pp., 210 x 297 mm  
 USD 75.00, Paperback  
 Also available in e-book format  
 Available in: Arabic, Chinese, English, French, Russian, Spanish



Global per capita fish consumption has risen to above **20 kg/year**.

Worldwide exports of fishery products amounted to **USD148 billion** in 2014, up from **USD 8 billion** in 1976.

Global aquaculture production reached **73.8 million tonnes** in 2014.

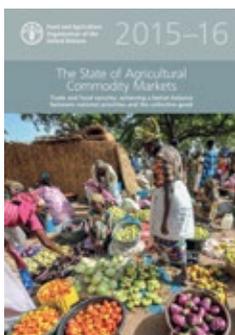
**China remains the leading nation for aquaculture**, but Nigeria, Chile, Indonesia, Norway and Viet Nam all show remarkable growth.



**THE STATE OF WORLD FISHERIES AND AQUACULTURE 2016**

VIDEO 3'08"





## THE STATE OF AGRICULTURAL COMMODITY MARKETS 2015-16

TRADE AND FOOD SECURITY: ACHIEVING A BETTER BALANCE BETWEEN NATIONAL PRIORITIES AND THE COLLECTIVE GOOD

Rome, 2015  
ISBN 978-92-5-108931-6  
89 pp., 210 x 297 mm  
USD 36.00, Paperback

Also available in e-book format  
Available in: Arabic, Chinese, English,  
French, Russian, Spanish



**THE STATE OF  
AGRICULTURAL  
COMMODITY  
MARKETS  
2015-2016**  
VIDEO 4'34"

Global trade in food and agricultural products has grown almost threefold in value terms over the past decade. Growth is projected to continue, with regions such as Asia, North Africa and the Near East – increasing net imports and others – notably Latin America – increasing net exports. The composition of trade also reflects changing patterns of food consumption, driven mainly by increasing incomes, population and urbanization in developing countries. The challenge is to ensure that its expansion works for, and not against, the

elimination of hunger, food insecurity and malnutrition. This edition of **The State of Agricultural Commodity Markets** aims to inform policy and debate, and reduce the polarization of views on the governance of agricultural trade and its impact on food security. Published biennially, the series presents commodity market issues in an objective and accessible way to policy-makers, commodity market observers and stakeholders interested in these issues and their impacts on countries at different levels of economic development.

## ACHIEVING ZERO HUNGER

THE CRITICAL ROLE OF INVESTMENTS IN SOCIAL PROTECTION AND AGRICULTURE

How much does it cost to achieve zero hunger? About USD267 billion per year, according to this report, which examines the investment costs required to eliminate chronic dietary energy deficits by 2030, i.e. to achieve Sustainable Development Goal 2 of eliminating hunger.

In a business-as-usual scenario, around 650 million people would still suffer from hunger in 2030.

With this as a baseline, the report estimates the investment

needed to eliminate hunger by 2030 using a combination of social protection and targeted pro-poor investments. The first stage foresees social protection measures to bring the poor above the extreme poverty line through a "transfer to cover the poverty gap". A second stage involves additional investment to stimulate and sustain pro-poor growth in incomes and employment, which would, in turn, reduce the need for social protection.



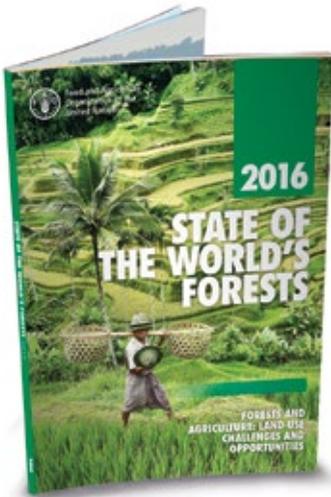
FAO, WFP & IFAD, Rome, 2015  
ISBN 978-92-5-108886-9 • 32 pp.  
210 x 297 mm. USD 20.00, Paperback  
Available in: Arabic, Chinese, English,  
French, Russian, Spanish



**ACHIEVING  
ZERO HUNGER**  
VIDEO 1'07"

# STATE OF THE WORLD'S FORESTS 2016

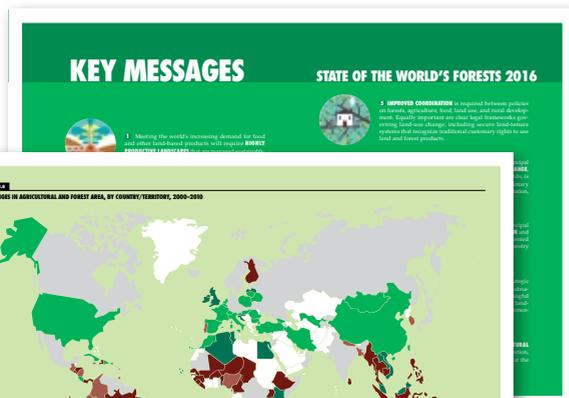
## FORESTS AND AGRICULTURE: LAND-USE CHALLENGES AND OPPORTUNITIES



Rome, 2016  
 ISBN 978-92-5-109208-8  
 124 pp., 210 x 297 mm  
 USD 65.00, Paperback  
 Also available in e-book format  
 Available in: Arabic, Chinese, English, French, Russian, Spanish

Forests and trees support sustainable agriculture. They stabilize soils and climate, regulate water flows, and provide a habitat for pollinators. They also contribute to the food security of hundreds of millions of people by providing food, energy and income. Yet, agriculture remains the main driver of deforestation globally. **State of the World's Forests 2016** shows that it is possible to increase agricultural productivity and food security while halting or even reversing

deforestation, highlighting the successful efforts of Costa Rica, Chile, the Gambia, Georgia, Ghana, Tunisia and Viet Nam. Integrated land-use planning, underpinned by the right policy instruments, is the key to balancing land uses. The biennial **State of the World's Forests** report covers the status of forests, policy and institutional developments and other key issues concerning the forest sector. It shares current, reliable and relevant information to facilitate informed discussion and decision-making.



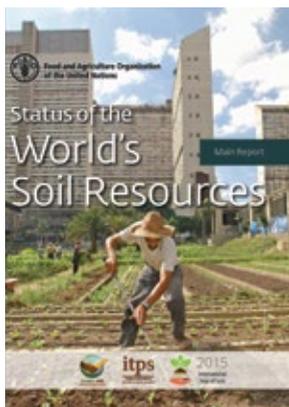
### STATE OF THE WORLD'S FORESTS VIDEO 3'26"



Costa Rica, Viet Nam and the Gambia's local success stories in integrating forest and agriculture. Payments for environmental services and community-based management are some of the answers.

## STATUS OF THE WORLD'S SOIL RESOURCES

TRADE AND FOOD SECURITY: ACHIEVING A BETTER BALANCE BETWEEN NATIONAL PRIORITIES AND THE COLLECTIVE GOOD



Rome, 2015

ISBN 978-92-5-109004-6

650 pp., 176 x 250 mm

Price available on request, Paperback

Also in e-book format (technical summary)

Available in: English, French (forthcoming), Spanish (forthcoming)

Soils function as Earth's largest water filter and storage tank. They contain more carbon than all above-ground vegetation, thereby playing a key role in regulating emissions of carbon dioxide and other greenhouse gases. They also host a tremendous diversity of organisms that are crucial to ecosystem processes.

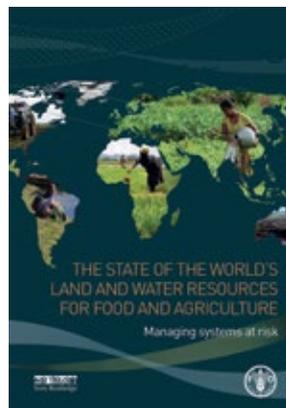
**The Status of the World's Soil Resources** provides a benchmark for periodical assessment and reporting of soil functions and overall soil health at global and regional levels. Today, 33

percent of land is moderately to highly degraded due to the erosion, salinization, compaction, acidification and chemical pollution of soils. Further deterioration would impair food production, amplify food-price volatility, and potentially plunge millions of people into hunger and poverty.

The report nevertheless demonstrates that this can be avoided through sustainable soil management, use of scientific and local knowledge and evidence-based, proven approaches and technologies.

## THE STATE OF THE WORLD'S LAND AND WATER RESOURCES FOR FOOD AND AGRICULTURE

MANAGING SYSTEMS AT RISK



By 2050, food production is projected to increase by about 70 percent globally and nearly 100 percent in developing countries. Population growth, coupled with economic progress, is likely to produce a surge in world food demand. Future agricultural production will need to be both more productive and more sustainable.

This publication analyses the options for overcoming challenges and improving resource management. In each

location, a mix of changes in institutional and policy measures will have to be combined with greater access to technologies for better management of resources. Increased investments, access to novel financing mechanisms, and international cooperation and development assistance also have an important role to play.

This first issue of **The State of the World's Land and Water Resources** complements FAO's other regular "State of" reports.

FAO & Earthscan

Rome, 2011

ISBN 978-92-5-106614-0

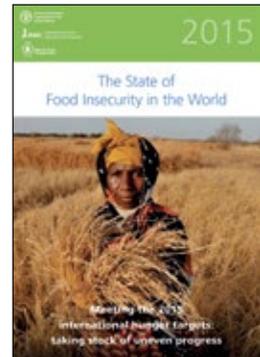
308 pp., 176 x 250 mm

USD 60.00, Paperback

Available in: Arabic, Chinese, English, French (summary), Russian (FAO & Ves Mir), Spanish (FAO & Mundi-Prensa)

# THE STATE OF FOOD INSECURITY IN THE WORLD 2015

MEETING THE 2015 INTERNATIONAL HUNGER TARGETS: TAKING STOCK OF UNEVEN PROGRESS



The *State of Food Insecurity in the World 2015* takes stock of progress made since 1990 towards Millennium Development Goal 1, to “eradicate extreme poverty and hunger”, and World Food Summit hunger targets. Key success factors have included economic growth, agricultural productivity growth, markets (including international trade) and social protection. However, despite overall progress, the deleterious effects of protracted crises, whether due to conflict or natural disasters, have also taken

their toll. The report provides useful policy guidance to overcome these challenges, eradicate hunger and achieve food security.

The *State of Food Insecurity in the World* series raises awareness about global hunger and malnutrition, discusses their causes, and monitors progress towards hunger reduction targets. Its audience includes policy-makers, international organizations, academia and anyone interested in the linkages between food security and human and economic development.

FAO, IFAD & WFP, Rome, 2015  
 ISBN 978-92-5-108785-5  
 62 pp., 210 x 297 mm  
 USD 36.00, Paperback  
 Also available in e-book format.  
 Available in: Arabic, Chinese, English, French, Russian, Spanish

**New edition of *The State of Food Insecurity in the World* FORTHCOMING 2017**

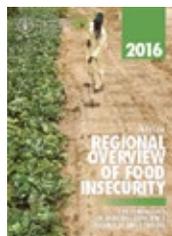
## REGIONAL OVERVIEWS OF FOOD INSECURITY 2016

COMPREHENSIVE OVERVIEWS ON THE STATE OF FOOD INSECURITY IN FIVE REGIONS.

**FORTHCOMING NOVEMBER 2016**

### AFRICA

THE CHALLENGES OF BUILDING RESILIENCE TO SHOCKS AND STRESSES



### ASIA AND THE PACIFIC

INVESTING IN A ZERO HUNGER GENERATION



### EUROPE AND CENTRAL ASIA

SETTING THE SCENE FOR BETTER NUTRITION



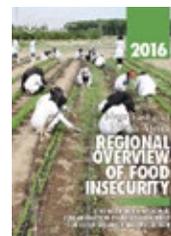
### LATIN AMERICA AND THE CARIBBEAN

SISTEMAS ALIMENTARIOS SALUDABLES Y SOSTENIBLES PARA ELIMINAR LA MALNUTRICIÓN EN TODAS SUS FORMAS



### NEAR EAST AND NORTH AFRICA

STRENGTHENING REGIONAL COLLABORATION TO BUILD RESILIENCE FOR FOOD SECURITY AND NUTRITION





Nearly **100 livestock** breeds became extinct between **2000 and 2014**.

**17% (1 458)** of the world's farm animal breeds are at risk of extinction

**Europe**, the **Caucases** and **North America** are the areas with most breeds at risk.

**Genetic erosion** is largely due to indiscriminate cross-breeding.

## GENETIC RESOURCES SERIES

The **FAO Commission on Genetic Resources for Food and Agriculture Assessments** provide global overviews, based on country data, of the state of the world's forest, plant, aquatic and animal genetic resources, and on biodiversity for food and agriculture.

# THE SECOND REPORT ON THE STATE OF THE WORLD'S ANIMAL GENETIC RESOURCES FOR FOOD AND AGRICULTURE

Domesticated animals contribute directly to the livelihoods of millions of people, including an estimated 70 percent of the world's rural poor. Maintaining the diversity of animal genetic resources makes it possible to adapt livestock management to changing conditions. However, a substantial proportion of the world's livestock breeds are at risk of extinction, and the characteristics of many of them have not been adequately studied. This publication provides a comprehensive and timely assessment of livestock biodiversity and trends in animal genetic resources management, drawing on information provided by 129 countries and numerous other sources. It analyses management capacity and identifies the knowledge gaps that will have to be filled in order to tackle current challenges.



Rome, 2015  
 ISBN 978-92-5-108820-3  
 604 pp., 176 x 250 mm  
 USD 195.00, Hardcover  
 Also available in  
 e-book format  
 Available in: English



**THE SECOND REPORT ON THE STATE OF WORLD'S ANIMAL GENETIC RESOURCES FOR FOOD AND AGRICULTURE**  
 VIDEO 3'00"

## THE STATE OF THE WORLD'S FOREST GENETIC RESOURCES



Biodiversity in forest genetic resources is essential to improving species' productivity and the nutritional value of the foods they produce – including leafy vegetables, honey, fruits, seeds, nuts, roots, tubers and mushrooms. A wide variability in desirable traits, such as fruit size, growing speed, oil composition and pulp proportion, is a prerequisite for breeding and domesticating improved tree species.

Yet, according to this first-ever comprehensive global overview of forest genetic resources, half of the forest species reported as regularly utilized by countries are threatened by the conversion of forests to pastures and farmland, overexploitation, and the impacts of climate change. The report makes recommendations to address these threats, as well as analysing the drivers of change and relevant emerging technologies.

Rome, 2014

ISBN 978-92-5-108402-1

304 pp., 176 x 250 mm

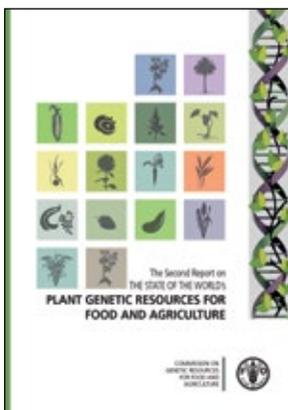
USD 55.00, Hardcover

Also available in e-book format

Available in: English



**THE STATE OF THE WORLD'S FOREST GENETIC RESOURCES**  
VIDEO 3'41"



## THE SECOND REPORT ON THE STATE OF THE WORLD'S PLANT GENETIC RESOURCES FOR FOOD AND AGRICULTURE

Plant genetic diversity contributes to shaping agriculture growth in the face of climate change and other environmental challenges. Based on information gathered from country reports and a wealth of other documents, this publication tracks developments in the field of plant genetic resources between 1996 and 2010.

The total number of seed samples conserved *ex situ*

increased by approximately 20 percent worldwide over this period, reaching 7.4 million, although minor crops and crop wild relatives remained under-represented. With the development of new molecular techniques, the amount of data available on genetic diversity increased dramatically, leading to better understanding of areas such as domestication, genetic erosion and genetic vulnerability.

Rome, 2010

ISBN 978-92-5-106534-1

399 pp., 176 x 250 mm

USD 95.00, Hardcover

Available in: English

# GENERAL INTEREST

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DESIGNED TO INFORM, STIMULATE REFLECTION AND INVITE PEOPLE TO  
ADOPT SUSTAINABLE AND HEALTHY LIFESTYLES.





Pulses contain about **twice the amount of protein** found in whole grain cereals such as wheat.

Pulses provide us with **steady, slow-burning energy** while their iron content helps transport oxygen throughout our bodies.

Introducing pulses in rotation with other crops during the fallow period can **increase farmers' incomes**.

As pulses fix their own nitrogen in the soil, they need less fertilizer, which helps **reduce greenhouse gas emissions**.

# PULSES

## NUTRITIOUS SEEDS FOR A SUSTAINABLE FUTURE

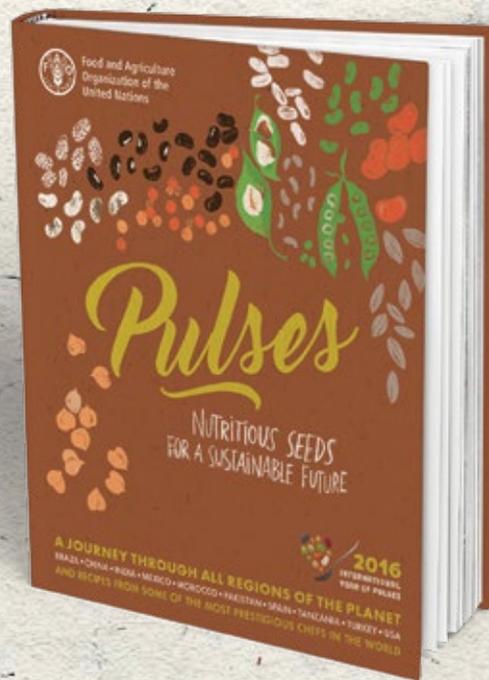


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5. TAIWAN  
CHEF SHEN SHEN
6. CHINA  
CHEF SHI ZHONG
7. PAKISTAN  
CHEF ZAHARA
8. MOROCCO  
CHEF MOHAMMED HADJ
9. TURKEY  
CHEF YUSUF KAYA
10. INDIA  
CHEF VIKRANT JAIN



Part guide, part cookbook, and peppered with informative visuals, this beautifully illustrated book provides an overview of pulses and a step-by-step guide on how to cook them. It presents the impact of pulses on nutrition, health, climate change, biodiversity and food security, and shows how pulses can be grown in garden patches. Readers embark on a journey around the planet, discovering the ways in which pulses tie in with regional histories and cultures, and learning the best-kept secrets of ten internationally acclaimed chefs: **Abraham García** (Spain), **Helena Rizzo** (Brazil), **Muñoz Zurita** (Mexico), **Ron Pickarski** (United States), **Moha Fedal** (Morocco), **Veronica Jackson** (Tanzania), **Didem Senol** (Turkey), **Sanjeev Kappor** (India), **Zubaida Tariq** (Pakistan) and **She Zentai** (China).

Rome, 2016  
 ISBN 978-92-5-109172-2  
 192 pp., 210 x 260 mm  
 USD 29.95, Paperback  
 Available in: Arabic,  
 Chinese, English, French,  
 Russian, Spanish



## PULSES

A GLOBAL JOURNEY  
 THROUGH RECIPES  
 FROM LEADING CHEFS

A beautifully illustrated collection of more than 30 recipes for pulses from around the world, presented in a handy and compact hardcover format. Explore Latin American cuisine with chefs Helena Rizzo and Muñoz Zurita, Asian creations with Sanjeev Kappor, Zubaida Tariq and She Zengtai, flavours

Rome, 2016  
 ISBN 978-92-5-109343-6  
 102 pp.,  
 165 x 215 mm  
 USD 16.00,  
 Hardcover  
 Available in:  
 English, Spanish

from the African continent with Moha Fedal and Veronica Jackson, as well as the delectable recipes of Abraham García from Spain, Ron Pickarski from the United States of America and Didem Senol from Turkey.



**PULSES**  
 VIDEO 4'04"



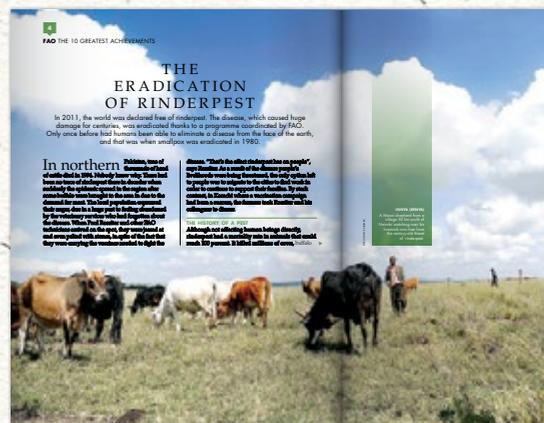
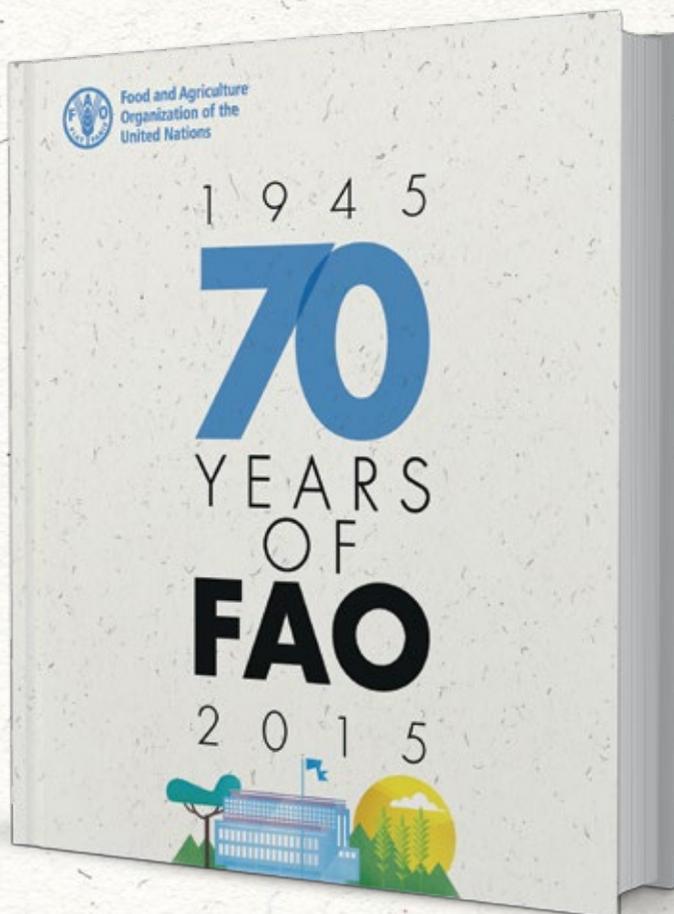
The ten chefs whose recipes feature in the Pulses books share their expert tips and passion for pulses.

# Seven decades of fighting hunger

## 70 YEARS OF FAO

(1945–2015)

This book tells the story of the Food and Agriculture Organization of the United Nations (FAO), its protagonists and their endeavours – such as the visionary David Lubin who campaigned tirelessly at the turn of the twentieth century for an international organization to defend farmers' interests. The publication brings to light previously unpublished images of the Organization's early years and recounts ten of FAO's success stories, such as the eradication of bovine rinderpest and the creation of the Treaty on Plant Genetic Resources.



Rome, 2015.  
 ISBN 978-92-5-108897-5  
 260 pp., 210 x 260 mm  
 USD 36.00, Paperback  
 Available in: Arabic,  
 Chinese, English, French,  
 Italian, Russian, Spanish

Over the past 70 years, the world has grown more complex, more global and more interactive. Taking stock of past challenges and achievements gives us a better chance of solving the problems that face us today. In this volume, two major issues take centre stage – the eradication of hunger and malnutrition, and action on climate change. This attractively designed book will appeal to everyone with an interest in uniting to tackle these and other global issues.

**FAO**  
VIDEO 5'39"



70 years ago, in 1945, in the aftermath of the Second World War, a core group of countries founded the Food and Agriculture Organization of the United Nations, a neutral forum that now represents most countries of the world.

**1** **FAO IN SEVEN DECADES**

In Stockholm in mid-1972, FAO was asked to convene the World Conference on Food Security, Agriculture, Forestry and Other Natural Resources and to strengthen its ongoing work. One of the main reasons for its invitation was the confidence that the delegates had placed in the organization. In the 1960s, FAO had transformed this confidence into the eradication of hunger and malnutrition, and the promotion of rural development and poverty eradication. It was now time to work after the Stockholm conference in the area of food security, agriculture, forestry and other natural resources. FAO was invited to convene the World Conference on Food Security, Agriculture, Forestry and Other Natural Resources in 1972. The results of the conference were published in the book *World Food Conference: Report of the Conference* (FAO, 1972).

**2** **A NEW FAO FOR THE 21<sup>ST</sup> CENTURY**

Operations, with a global reach that involved all forms of engagement and in the agricultural industry.

**3** **FAO IN THE 21<sup>ST</sup> CENTURY**

Operations, with a global reach that involved all forms of engagement and in the agricultural industry.

**2** **A NEW FAO FOR THE 21<sup>ST</sup> CENTURY**

Operations, with a global reach that involved all forms of engagement and in the agricultural industry.

**3** **PLANTS AND PLANT HEALTH**

Operations, with a global reach that involved all forms of engagement and in the agricultural industry.

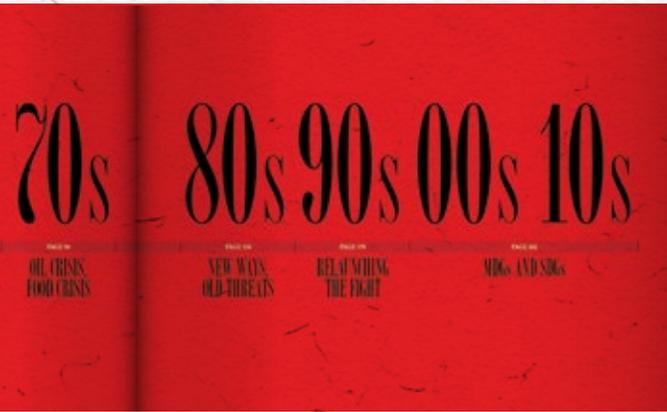


a representative sample of shots to give readers an authentic picture of the Organization's activities from its pioneering early years through to today, with early images in black and white later giving way to colour. The photographs reflect FAO's various fields of activity (agriculture, fisheries, forestry, nutrition, etc.), and span the globe.

Some photographs have served as historical records, documenting situations and FAO's projects. Others have been used for didactic purposes, also as part of films and slideshows,

to explain innovative techniques and how to do practical operations in the field. A good picture can indeed paint more than a thousand words, especially in areas with high levels of illiteracy or where material is not available in local languages.

In addition to the photographs and their captions, text describes FAO's work and significant moments in its history through the decades. Some photographers also share their experiences and insights. Thus, readers can see the captured detail in the context of an evolving whole.



### FROM MAPS TO DATABASES

**IN THE 1950s, THE WORLD WAS** a patchwork of small, isolated states, many of them newly independent. The world's population was growing rapidly, and the demand for food and other resources was increasing. The United Nations Food and Agriculture Organization (FAO) was established in 1945 to help countries improve their agricultural production and to ensure that the world's food supply was sufficient to meet the needs of a growing population.

**THE 1950s WERE A TIME OF** rapid technological change, particularly in the field of agriculture. The development of new fertilizers, pesticides, and irrigation techniques allowed farmers to produce more food on less land. This led to a significant increase in agricultural productivity, which helped to meet the growing demand for food.

**FAO'S ROLE WAS TO** help countries adopt these new technologies and to provide them with the technical assistance and training they needed to do so. FAO also worked to improve the distribution of food and other resources, particularly in developing countries where food shortages were common.

**THE 1960s SAW THE** emergence of the Green Revolution, a period of rapid agricultural growth in developing countries. This was made possible by the widespread adoption of high-yielding crop varieties, improved irrigation systems, and the use of fertilizers and pesticides. The Green Revolution helped to increase food production significantly, which helped to reduce food shortages and improve food security in many developing countries.

**FAO'S ROLE WAS TO** continue to provide technical assistance and training to help countries adopt these new technologies and to ensure that the world's food supply was sufficient to meet the needs of a growing population. FAO also worked to improve the distribution of food and other resources, particularly in developing countries where food shortages were common.

### 1960-1965

**1960 India's Independence**  
The United Nations Food and Agriculture Organization (FAO) was established in 1945 to help countries improve their agricultural production and to ensure that the world's food supply was sufficient to meet the needs of a growing population.

**1961 The World Food Programme is born**  
The United Nations World Food Programme (WFP) was established in 1961 to provide emergency food assistance to people in need. It is the largest humanitarian organization in the world.

**1962 The Green Revolution begins**  
The Green Revolution is a period of rapid agricultural growth in developing countries, characterized by the widespread adoption of high-yielding crop varieties, improved irrigation systems, and the use of fertilizers and pesticides.

**1965 The World Bank's first \$1 billion loan**  
The World Bank provided its first \$1 billion loan to India in 1965, marking a significant milestone in the organization's history.

# EDUCATION AND YOUTH

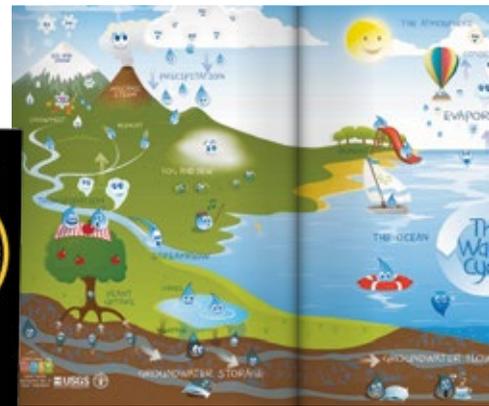
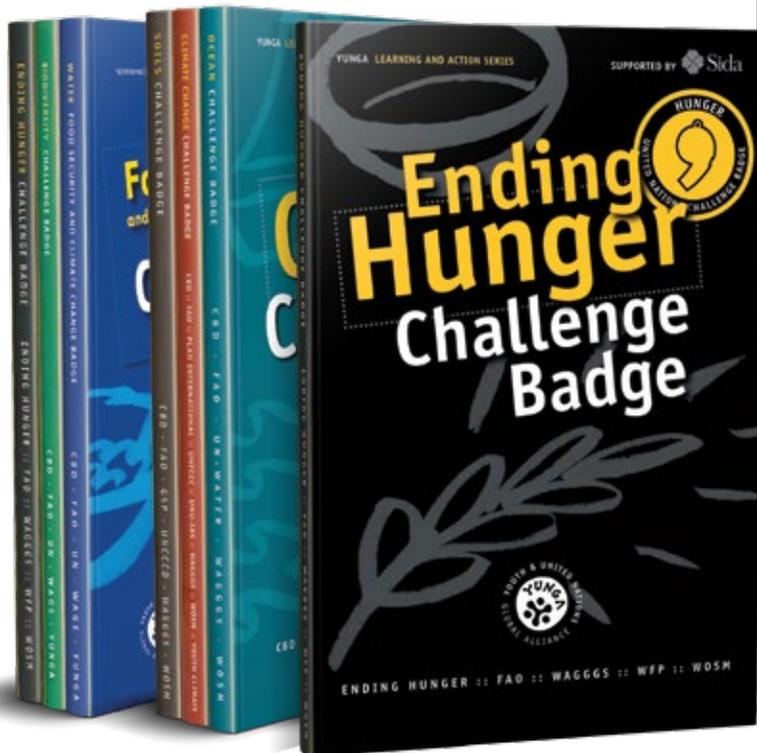
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A SELECTION OF TITLES TO EDUCATE AND AMUSE YOUNG PEOPLE,  
AWAKEN THEIR CURIOSITY AND INSPIRE THEM TO CHANGE  
THE WORLD FOR THE BETTER.



# YOUNG GLOBAL CITIZENS

Those who are now 11–18 years old will determine the future of our planet. Many of them already know this and are eager to play an active part in tackling the great issues of today, such as hunger, sustainability and climate change. FAO intends to help them do so by further stimulating their interest and sharing knowledge in accessible formats geared specifically to young people.

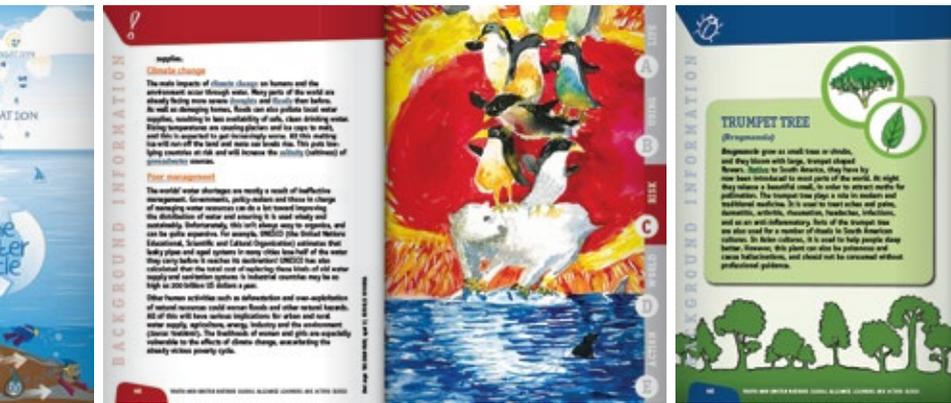


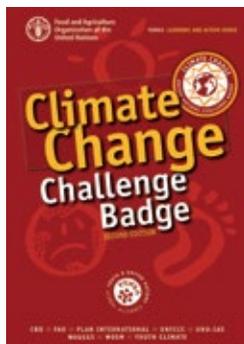
FAO hosts the Youth and United Nations Global Alliance (YUNGA), a partnership between UN Agencies (e.g. UNESCO and UNICEF) and other organizations (e.g. CarboSchools and WWF) that work with children and young people. The YUNGA Learning and Action series featured here

encourages young people to become active agents of change in their local communities. Each of the publications in this growing collection focuses on a specific issue or topic. FAO's experts have worked to make often-complex issues readily understandable. Teachers will also find the series a valuable classroom resource.

# THE COMPLETE SERIES

- 1 BIODIVERSITY
- 2 CLIMATE CHANGE
- 3 ENDING HUNGER
- 4 FORESTS
- 5 THE OCEAN
- 6 SOILS
- 7 WATER
- 8 NUTRITION
- 9 AGRICULTURE
- 10 GOVERNANCE
- 11 ENERGY
- 12 GENDER





## CLIMATE CHANGE

### CHALLENGE BADGE (2ND EDITION)

From being able to enjoy nice weather and spending time outdoors to depending on it for crops and food, we all rely on the planet's climate in a variety of ways. The Earth's natural laws and physical processes regulate climate in a way that makes it habitable and supportive of human, animal and plant life.

However, our climate is changing, largely due to human activity. While it has changed naturally over long time periods, humans are now causing the climate to change through intensive use of polluting energy sources, deforestation and other interventions. We are already seeing temperature increases, melting glaciers and rising sea levels, as well as an increase in extreme weather events. The good news is that there is a lot that can be done to tackle climate change. This book shows young people how they can join in, from changing daily habits to spreading awareness.

Rome, 2015  
ISBN 978-92-5-109012-1  
164 pp., 148 x 210 mm  
USD 20.00, Paperback  
Available in: Arabic,  
Chinese, English, French,  
Italian, Russian, Spanish

## BIODIVERSITY

### CHALLENGE BADGE

“Bio” means life and “diversity” means variety, so biodiversity (or biological diversity) refers to the incredible variety of living plants and animals in nature and how they interact with each other.

This publication encourages young people to understand the current and anticipated environmental challenges linked to biodiversity, and to protect it by taking action. While these problems need to be addressed at the global level, there are also many things that can be done by individuals and communities.



FAO, WAGGGS & CBD  
Rome, 2010  
70 pp., 148 x 200 mm  
USD 20.00, Paperback  
Available in: Arabic, Chinese,  
English, French, Italian,  
Macedonian, Russian, Spanish



## ENDING HUNGER CHALLENGE BADGE

Can you imagine not having anything to eat for a day? Or not knowing when you might next be able to eat? This is a daily problem for over 1 billion people around the world, who do not get enough food and nutrition to live normal, healthy lives. Hunger makes people feel weak, unwell and makes it harder to concentrate, study and work.

The **Ending Hunger Challenge Badge** helps young people learn about the causes of hunger, the importance of food security and food sovereignty, and steps we can take to fight hunger.

Rome, 2013  
ISBN 978-92-5-107950-8  
124 pp., 148 x 210 mm  
USD 20.00, Paperback  
Available in: Arabic, Chinese,  
English, French, Italian,  
Russian, Spanish

Rome, 2013  
ISBN 978-92-5-107973-7  
152 pp., 148 x 210 mm  
USD 20.00, Paperback  
Available in: Arabic,  
Chinese, English, French,  
Italian, Russian, Spanish



## FORESTS CHALLENGE BADGE

For humans, forests are a source of livelihoods, food and medicinal herbs; forests give us wood that can be used for shelter, furniture and fuel; and they are places of recreation. They also play a huge role in maintaining the planet's environmental health: helping prevent soil erosion, improving water quality, providing habitats for millions of animal and plant species, and offering protection against floods. Globally, forests help us resist climate change by storing carbon. Unfortunately, in many parts of the world, forests are being degraded or destroyed at alarming rates, and climate change is expected to worsen the situation. The good news is: there is a lot that we can do to help protect the world's forests. As Nobel laureate Wangari Maathai said: "When we plant trees, we plant the seeds of peace and the seeds of hope."



## THE OCEAN CHALLENGE BADGE

The ocean covers 70 percent of the Earth's surface, and is essential for life on our planet. It provides food, regulates our climate and provides half of the oxygen we breathe. The ocean also offers us means of transport and opportunities for recreation. People have long thought that the ocean was so wide and bountiful that it would go on supplying our needs forever, but this is not the case: human activities cause significant damage to ocean life. People are often unaware of the problems created by this heavy reliance, as few of us have the opportunity to look beneath the surface of the sea and see the damage that our actions have caused.

The **Ocean Challenge Badge** takes children on a journey to discover the ocean. It is packed with activities to help learn about how the ocean works, the creatures that live in it, and how important it is in our everyday lives, as well as the role we can all play to protect it.

Rome, 2013  
978-92-5-107948-5  
172 pp., 148 x 210 mm  
USD 20.00, Paperback  
Available in: Arabic,  
Chinese, English, French,  
Italian, Russian, Spanish

## SOILS CHALLENGE BADGE

Soil is essential for life – it provides nutrients, water and minerals to plants and trees, and is home to millions of insects, bacteria and small animals.

Without soil, we could not grow crops, support livestock, or have materials to build shelter. Healthy soils also store and filter water, recycle nutrients and help deal with the negative effects of climate change by storing large amounts of carbon. But our soils are at risk from threats such as pollution and bad agricultural practices.

The **Soils Challenge Badge** invites young people to discover the ground beneath their feet. Its activities explore what soil is and how it is formed, the creatures that live in it, and what we can do to protect it for future generations.



Rome, 2015  
ISBN 978-92-5-108433-5  
124 pp., 148 x 210 mm  
USD 20.00, Paperback  
Arabic, Chinese, English, French, Italian,  
Portuguese, Russian, Spanish



Rome, 2013  
ISBN 978-92-5-107536-4  
100 pp., 148 x 210 mm  
USD 20.00, Paperback  
Available in: Arabic, Chinese, English,  
French, German, Italian, Russian, Spanish

## WATER CHALLENGE BADGE

Can you imagine not using any water for a day? Did you know that almost all human-made objects require the use of water at some point during their manufacture? It is usually only once the rains stop and fresh water supplies dry up or are polluted that we remember we can't afford to use water without thinking about how to ensure clean supplies for the future.

The **Water Challenge Badge** sheds light on just how much we rely on water and what we can do to protect this vital resource.

**NUTRITION**  
 CHALLENGE BADGE

Eating foods that give your body everything that it needs is even more important than just eating what you like. Your body needs a range of different nutrients for many different uses and activities. You need to get all of them in the correct amounts to be healthy. This Challenge Badge explains the kinds of nutrients our bodies need to live a happy, healthy lifestyle, which foods to get important nutrients from, and how best to prepare these foods to make the most of the nutrients available.

**DECEMBER 2016**

**ENERGY**  
 CHALLENGE BADGE

Energy is part of our daily lives. We use it to cook our food, to move around and for electricity. The Sun is our most important source of energy, giving us light and warmth, and helping plants to grow, amongst many other things. People all around the world use energy from the Sun, and other resources such as oil, wood and wind, to meet their energy needs. In this Challenge Badge we find out about the different forms of energy we use, in particular the difference between renewable and non-renewable forms of energy. The period 2014–2024 has been declared the "Decade of Sustainable Energy for All" and is being used to raise awareness about using energy wisely, and to support cleaner energy for everyone.

**AUGUST 2017**

**GOVERNANCE**  
 CHALLENGE BADGE

Governance and decision-making processes impact every area of our lives – from how we interact with friends to how laws are formed. How decisions are made at international, national and local levels determines the equality of treatment of different individuals, levels of development, whether resources are used sustainably, and fulfilment of human rights. But how can we get involved in governance? This publication aims to show that, by being active citizens, we can contribute towards the promotion of good governance both in our local communities and throughout the world.

**DECEMBER 2017**

**GENDER**  
 CHALLENGE BADGE

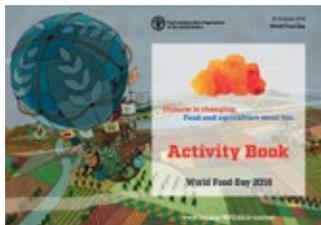
Take a minute to think about the people in your life around you: do the boys and girls, men and women whom you see have the same opportunities? Are they treated in the same way? Gender simply means the social roles that are assigned to men and women. Gender roles vary from culture to culture and have changed over time too. This book looks at how we think about gender roles in our own culture, as well as those around the world. It explores why inequalities sometimes exist and what we can do to overcome them and make the world a fairer place.

**DECEMBER 2017**

**AGRICULTURE**  
 CHALLENGE BADGE

Agriculture is essential for human life – it gives us the food we eat. There are many different types of agriculture, including crops, fruits, vegetables and livestock farming on both big and small scales. But how can we ensure that we can grow food in a sustainable way to feed the 7 billion people living on Earth? The **Agriculture Challenge Badge** examines different agricultural systems, including historical methods and practices around the world today. It also highlights the role of farmers in our society and the risks and challenges facing agriculture.

**DECEMBER 2018**



## WORLD FOOD DAY 2016

ACTIVITY BOOK

What would happen if we cut down all the forests and did nothing to protect our oceans or the people affected by climate change? **The World Food Day 2016 Activity Book** looks at agriculture and the perils of climate change in an enchanted world through illustrations by well-known Italian illustrator Lorenzo Terranera. Each illustration explores an important message related to the World Food Day theme, and children are invited to join their favourite fairytale characters in finding solutions to climate change and hunger.

Rome, 2016  
ISBN 978-92-5-109322-1  
18 pp., 148 x 210 mm  
USD 20.00, Paperback  
Available in: Arabic, Chinese,  
English, French, Russian, Spanish

FAO

## FORESTS FOR KIDS

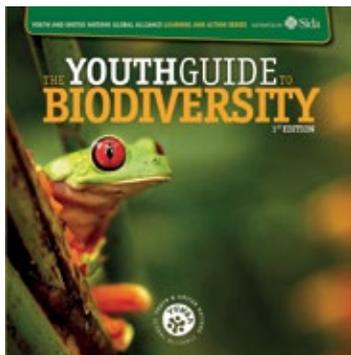
# FORESTS FOR KIDS

## STATE OF THE WORLD'S FORESTS: LESSON BOOK AND TEACHERS' MANUAL

This lesson book and manual aim to introduce students aged 8-13 to forests, their current state and multiple values, while allowing teachers to meet curricular objectives. Teaching focuses on defining forests, investigating their role in the water cycle, exploring some of their products and introducing students to sustainable forest management. The teaching draws inspiration from internationally recognized pedagogical approaches such as the enquiry method. Most of the learning is conceived to take place by "doing", in class or under the trees, rather than being paper-based, although reading and writing exercises are also included.

Rome, 2016 (forthcoming)  
ISBN 978-92-5-109440-2 (lesson book)  
ISBN 978-92-5-109439-6 (manual)  
Price available on request, Paperback  
Available in: English

**JANUARY 2017**

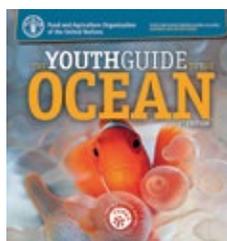


## YOUTH GUIDE TO BIODIVERSITY

This biodiversity guide was designed as an educational resource for schools, youth groups and curious young learners. It explains biodiversity in terms of genes, species and ecosystems, exploring its many shapes and forms under the sea, on land, up in the air, in rivers and lakes, and on the farms that produce our food.

The guide considers why biodiversity is important, how humans affect it, and what we must do to conserve the world's biological resources. At the end of the guide there are inspiring examples of youth-led initiatives and an easy-to-follow action plan to help readers develop their own projects.

Rome, 2013  
ISBN 978-92-5-107445-9  
260 pp., 210 x 220 mm  
USD 65.00, Paperback  
Available in: English

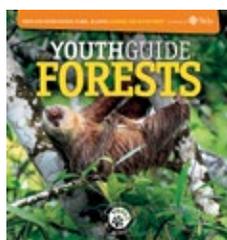


## YOUTH GUIDE TO THE OCEAN

This guide takes young readers on a voyage from the coastal zones to the frozen poles, and deep into the sea. It takes a close look at the physical features and natural processes that shape the incredible plant and animal life to be found underwater as well as life forms exposed by the tides.

It also demonstrates the many benefits the ocean provides us, discusses the negative impacts that human activities can have, and explains ways of protecting and conserving the ocean and ocean life, including activities and initiatives that young people can carry out themselves.

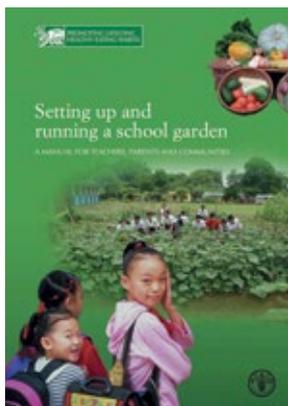
Rome, 2014  
ISBN 978-92-5-108647-6  
262 pp., 210 x 220 mm  
USD 50.00, Paperback  
Available in: English



## YOUTH GUIDE TO FORESTS

This fact-filled guide explores forests around the world, from the depths of the rainforest to high-altitude mountain forests. It also demonstrates the many benefits that forests provide, discusses the negative impacts that humans unfortunately have on forests, and explains how good management can help protect and conserve forests and forest biodiversity. At the end of the guide, inspiring examples of youth-led initiatives and an easy-to-follow action plan will help young people develop their own forest conservation activities and projects.

Rome, 2014  
ISBN 978-92-5-108435-9  
240 pp., 210 x 220 mm  
USD 54.00, Paperback  
Available in: English



Rome, 2005  
 ISBN 978-92-5-105408-8  
 211 pp., 210 x 297 mm  
 USD 30.00, Paperback  
 Available in: English, French,  
 Portuguese, Sinhalese, Spanish

## SETTING UP AND RUNNING A SCHOOL GARDEN

A MANUAL FOR TEACHERS, PARENTS  
 AND COMMUNITIES

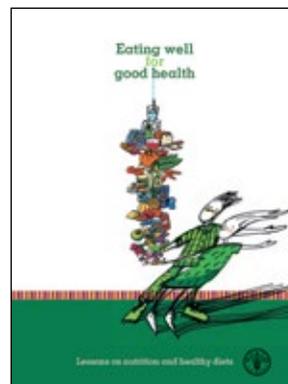
A country's future hinges on its youth, but children who go to school hungry do not learn well. They have decreased physical activity, diminished cognitive abilities and reduced resistance to infections. This manual is intended to assist school teachers, parents and the wider community in developing and managing school gardens

as a platform for learning and a vehicle for better nutrition. Drawing on experiences and best practices derived from school garden initiatives worldwide, the manual links classroom lessons with practical "in the garden" learning about the environment; food production, marketing, processing and preparation; and making healthy food choices.

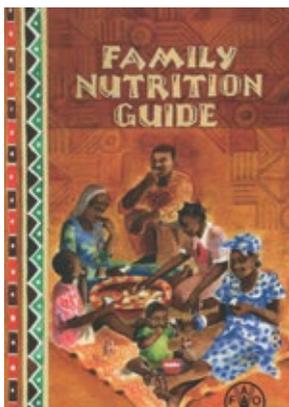
## EATING WELL FOR GOOD HEALTH

LESSONS ON NUTRITION AND HEALTHY DIETS

This is a learning module designed to explore basic concepts of good nutrition, health and healthy diets. The lessons apply to anyone who wants to learn how to improve their diets and eating habits; they can be used both inside and outside the classroom by students, teachers, youth or community groups and by individuals who want to learn on their own. The activities and their accompanying materials, such as fact sheets, exercises, quizzes and community investigations, help learners test and reinforce their understanding of the concepts in each lesson and apply their acquired knowledge to their daily lives.



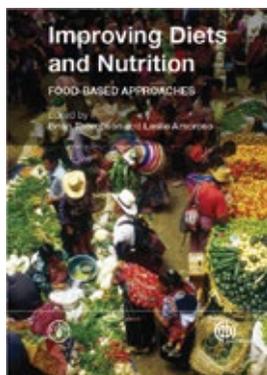
Rome, 2013  
 ISBN 978-92-5-107610-1  
 360 pp., 210 x 297 mm  
 USD 110.00, Paperback  
 Available in: English, Spanish



Rome, 2004 (reprinted 2005, 2013)  
 ISBN 978-92-5-105233-4  
 112 pp., 176 x 250 mm  
 USD 26.00, Ringbound  
 Also available in e-book format  
 Available in: English, French,  
 Russian, Spanish

## FAMILY NUTRITION GUIDE

This practical guide aims to improve the nutrition of families in developing countries. It is primarily written for health workers, nutritionists, agricultural extensionists or other development workers who design nutrition education materials and activities and work with people at community level. It should also be useful to family caregivers. The guide covers basic nutrition, family food security, meal planning, food hygiene and the special feeding needs of children, women and men, and of old, sick and malnourished people. Each topic provides a summary of nutrition facts that can be used to prepare face-to-face sessions and print and multimedia material.



FAO & CABI, Rome, 2014  
 ISBN 978-92-5-107319-3  
 454 pp., 176 x 250 mm  
 USD 180.00, Hardcover  
 Available in: English

## IMPROVING DIETS AND NUTRITION

FOOD-BASED APPROACHES

These proceedings from the International Symposium on Food and Nutrition Security: Food-based Approaches for Improving Diets and Raising Levels of Nutrition feature contributions from world-renowned experts on the linkages between nutrition and agriculture and nutrition-sensitive agriculture and food-based approaches. The book is a useful resource for decision-

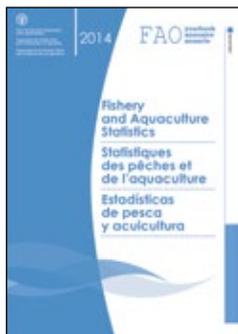
makers, policy-makers, planners and health workers, as well as all professionals in the field of food security, nutrition, public health, horticulture, agronomy, animal science, food marketing, information, education, communication, food technology and development. It is also a useful complementary source for graduate and postgraduate studies in these areas.

# STATISTICS

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FAO'S STATISTICS PROGRAMME HAS BEEN COLLECTING INFORMATION ON 245 COUNTRIES AND TERRITORIES SINCE 1961, COVERING PRODUCTION, CONSUMPTION, TRADE, PRICES, RESOURCES, NUTRITION, FISHERIES AND AQUACULTURE, FORESTRY, FOOD AID, LAND USE AND POPULATION. FAOSTAT IS THE WORLD'S MOST COMPREHENSIVE STATISTICAL DATABASE ON FOOD AND AGRICULTURE.





Rome, 2016  
 ISBN 978-92-5-009268-3  
 102 pp., 210 x 295 mm  
 USD 180.00, Paperback  
 Available in: English, French, Spanish  
 (trilingual)

## FAO YEARBOOK

FISHERY AND AQUACULTURE  
 STATISTICS 2014

The FAO yearbook is a compilation of data on capture production and fleet numbers, aquaculture production and commodities. All the key information and statistical tables are contained on a CD-ROM. An accompanying booklet includes general notes, concepts and classifications, and summary tables as well as a pull-out map of FAO major fishing areas. This issue also includes statistics on apparent fish consumption derived from FAO food balance sheets and notes on the major trends and issues relating to the individual statistical sets.

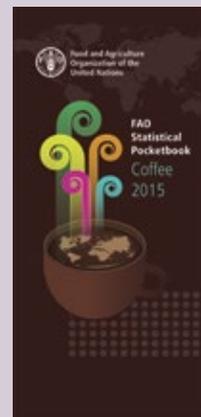


Rome, 2016  
 ISBN 978-92-5-009176-1  
 358 pp., 210 x 297 mm  
 USD 68.00, Paperback  
 Also in e-book format  
 Available in:  
 Arabic, Chinese,  
 English, French, Italian,  
 Russian, Spanish (multilingual)

## FAO YEARBOOK

FOREST PRODUCTS  
 2010–2014

This is a compilation of statistical data on basic forest products for all countries and territories of the world. It contains annual data on the volume of production and the volume and value of trade in forest products. It also includes tables showing the direction of trade and average unit values of trade for certain products. Statistical information in the yearbook is based primarily on data provided to the FAO Forestry Department by countries through questionnaires and official publications.

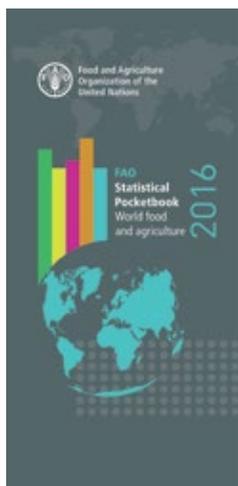


## FAO STATISTICAL POCKETBOOK

COFFEE 2015

Coffee is an important contributor to cash income for many smallholders, who produce most of the world's beans. Annual output has now reached almost 9 million tonnes, 1 million tonnes more than a decade ago. This publication forms part of the FAO Statistical Yearbook suite of publications. Focusing on coffee as a major traded commodity, it includes country profiles with key indicators for selected years. Topics include: a general overview; production of coffee and related crops; consumption of coffee and related products; trade; prices; and the environment. Thematic graphics provide a visual summary of coffee production and consumption.

Rome, 2015  
 ISBN 978-92-5-108894-4  
 194 pp., 100 x 210 mm  
 USD 20.00, Paperback  
 Available in: English

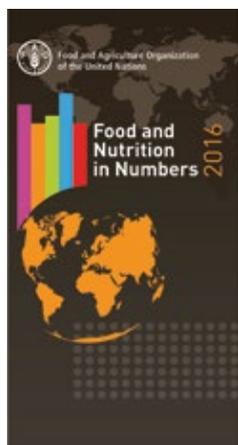


Rome, 2016  
234 pp., 100 x 210 mm  
USD 40.00, Paperback  
Available in: English  
(forthcoming)

## FAO STATISTICAL YEARBOOK 2016

WORLD FOOD AND AGRICULTURE

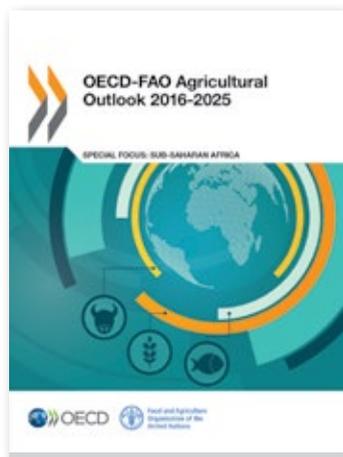
This yearbook presents selected key indicators related to agriculture and food security that the international community, governments, the private sector and civil society can use to assess current trends and prioritize actions. It has two main sections, one thematic and one country-specific. It presents a variety of dimensions of agriculture and food security in four focus areas: the setting; hunger dimensions; food supply; and environment. The book is part of the FAO Statistical Yearbook suite of products; it includes data from FAOSTAT and other FAO databases and international organizations.



Rome, 2016  
245 pp., 100 x 210 mm  
USD 40.00, Paperback  
Available in: English  
(forthcoming)

## FOOD AND NUTRITION IN NUMBERS 2016

This book includes a first section with thematic spreads on food security and nutrition, including food consumption data collected from national household surveys. The second section provides country and regional profiles with indicators categorized by anthropometry, nutritional deficiencies, supplementation, dietary energy supplies, and "setting". The setting provides indicators on demographics as well as health status, based on mortality patterns and the provision of safe water and sanitation. Anthropometry indicators inform not only on the prevalence of undernutrition but also on obesity. Dietary indicators are based on national food supplies and document the overall quality of diets. The importance of diets during the first 1 000 day window of an infant's life is also highlighted, with indicators on quality of breastfeeding, dietary diversity and meal frequency.



**Demand for food**, especially fish, meat and poultry, is foreseen to rise strongly in the coming decade.

**Demand for grains** and protein meals to use for feed would rise concomitantly.

Increases in demand will probably be met mostly through **productivity gains**.

In sub-Saharan Africa, the rate of **undernourishment is expected to decline** an estimated **23 to 19 percent**.

# OECD-FAO AGRICULTURAL OUTLOOK 2016-2025

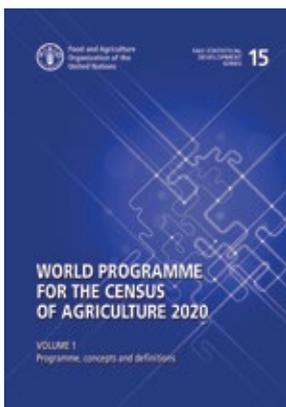
## SPECIAL FOCUS: SUB-SAHARAN AFRICA

The twelfth joint edition of this publication provides market projections to 2025 for major agricultural commodities, biofuels and fish. Over the ten-year Outlook period, slowing demand growth is expected to be matched by efficiency gains in production, implying relatively flat real agricultural prices.

However, market and policy uncertainties imply a risk of resurgent volatility.

This year's report contains a special feature on sub-Saharan Africa, where the outlook is for rising food availability, which should support a decline in undernourishment. The sector's prospects could be improved by more stable policies across the region, by strategic public and private investments, notably in infrastructure, and by suitably adapted research and extension.

Rome, 2016  
ISBN 978-92-5-109296-5  
136 pp., 210 x 297 mm  
USD 72.00, Paperback  
Available in: English,  
Chinese, French, Spanish



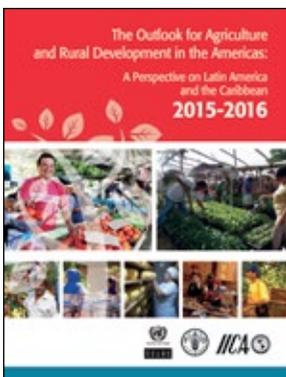
## WORLD PROGRAMME FOR THE CENSUS OF AGRICULTURE 2020

VOLUME 1: PROGRAMME,  
CONCEPTS AND DEFINITIONS

Rome, 2015  
ISBN 978-92-5-108865-4  
204 pp., 210 x 297 mm  
USD 30.00, Paperback  
Also in e-book format  
Available in: English, French  
Russian, Spanish

This publication provides guidance for agricultural censuses carried out by countries in the period 2016–2025. The World Programme for the Census of Agriculture 2020 will ensure that the data collected are comparable at the international level while also addressing emerging information needs. The publication discusses four modalities for conducting a

census of agriculture, and it emphasizes the benefits of developments in information technology for census data collection, processing and dissemination. By using these guidelines, countries can ensure that their census results are harmonized and internationally comparable, allowing them to benchmark their performance against others.



## THE OUTLOOK FOR AGRICULTURE AND RURAL DEVELOPMENT IN THE AMERICAS

A PERSPECTIVE ON LATIN AMERICA AND  
THE CARIBBEAN 2015–2016

This publication analyses trends in, and the outlook for, the macroeconomy, agriculture, rural well-being and policies in Latin America and the Caribbean. It makes recommendations on policies needed for the region's agriculture to regain momentum and to enhance rural development. These include mitigating the impact of the economic slowdown in agriculture, stimulating agricultural productivity, fostering

integrated management of natural resources, and facilitating the successful incorporation of family farmers, young people and rural women into agricultural value chains.

San José, 2015  
ISBN 978-92-9248-579-5  
210 pp., 215 x 280 mm  
Price available on request  
Paperback  
Available in: English, Spanish



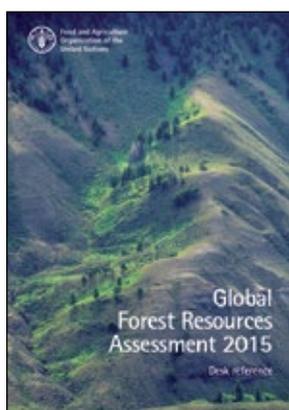
Rome, 2016 (second edition)  
 ISBN 978-92-5-109283-5  
 54 pp., 210 x 297 mm  
 USD 65.00, Paperback  
 Also in e-book format  
 Available in: Arabic, Chinese, English,  
 French, Russian, Spanish

# GLOBAL FOREST RESOURCES ASSESSMENT 2015

## HOW ARE THE WORLD'S FORESTS CHANGING?

Some 129 million hectares of forest – an area almost equivalent in size to South Africa – have been lost since 1990, as populations increase and forest land is converted to agriculture and other uses. However, building on comprehensive data covering 234 countries and territories, this report shows that over the past 25 years the rate of net global deforestation has slowed by more than 50 percent. The publication also notes that an increasing amount of forest areas

have come under protection while more countries are improving forest management, although positive trends need to be strengthened further. The **Global Forest Resources Assessment** was first published in 1948, and provides five-yearly updates on the status of the world's forests.



# GLOBAL FOREST RESOURCES ASSESSMENT 2015

## DESK REFERENCE

This desk reference provides the data reported by countries for the **Global Forest Resources Assessment 2015**. Presented in easy-to-consult tabular form, it is a useful companion to the main synthesis report as well as to the more detailed figures available on the Forest Land Use Data Explorer website.

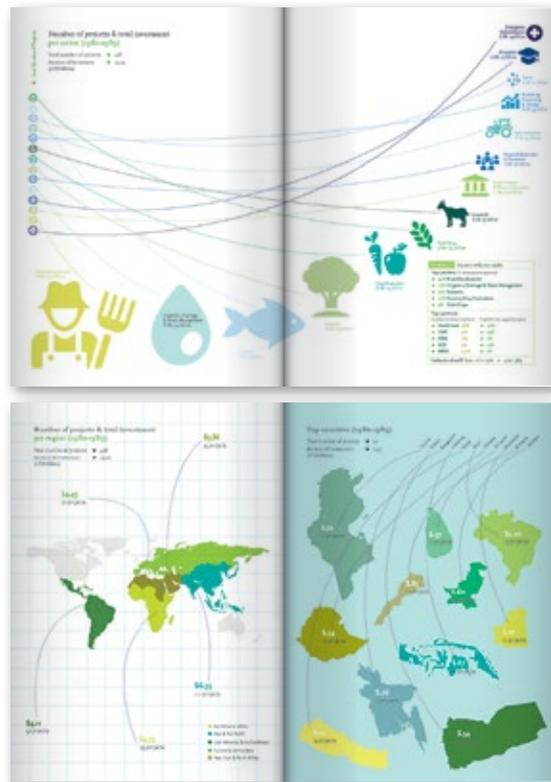
Rome, 2015  
 ISBN 978-92-5-108826-5  
 251 pp., 210 x 297 mm  
 USD 100.00, Paperback  
 Available in: Arabic, Chinese, English,  
 French, Russian, Spanish



# 1964–2014 FAO INVESTMENT CENTRE

## 50 YEARS OF DEVELOPMENT SUPPORT

Since its establishment in 1964, the FAO Investment Centre has contributed to over USD 100 billion worth of investments aimed at improving the lives and livelihoods of rural people. This book tells the story of how the Investment Centre came to be, what it is now, and what it is envisioned to be in the future. Enriched with personal reminiscences, early documents and photographs, this lively account will appeal to investment specialists and those who have an interest in learning from experiences in agriculture and rural development.



Rome, 2015  
86 pp., 180 x 250 mm  
Price available on request, Paperback  
Also in e-book format  
Available in: English

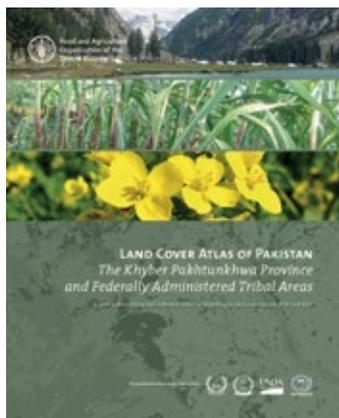


**FAO INVESTMENT CENTRE**  
VIDEO 3'37"

# ATLASES

FAO is the primary author of the International global standard for land cover ontologies, used extensively by its member countries as well as by the United Nations and the European Union. A team of eight experts, specialized in monitoring natural resources and agriculture using

remote sensing and geographic information systems (GIS), support countries with land-cover mapping, agroecological zoning, crop monitoring, and modelling and risk analysis in the fields of environmental degradation, food security and natural hazards. FAO publishes the detailed national land cover databases in both print and electronic formats.



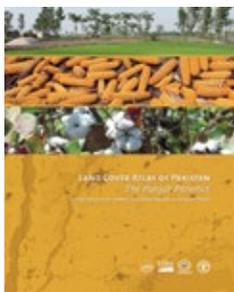
## LAND COVER ATLAS OF PAKISTAN

THE KHYBER PAKHTUNKHWA PROVINCE AND FEDERALLY ADMINISTERED TRIBAL AREAS

Rome, 2016  
ISBN 978-92-5-109162-3  
112 pp., 285 x 350 mm  
USD 150.00, Hardcover  
Available in: English

## LAND COVER ATLAS OF PAKISTAN

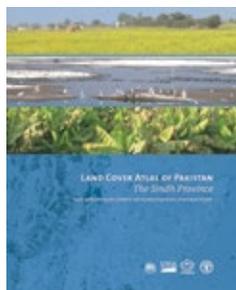
The Government of Pakistan, with support from cooperating partners, has initiated a comprehensive programme to improve agricultural statistical reporting using data from earth observation satellites. Thanks to this land-cover mapping, agricultural applications can obtain detailed, updated, reliable and accurate baseline data to support spatial monitoring and to evaluate ecosystem and landscape dynamics. These data are also useful for generating reliable models of the current land use to assist development. This series covers different regions of the country.



## LAND COVER ATLAS OF PAKISTAN

THE PUNJAB PROVINCE

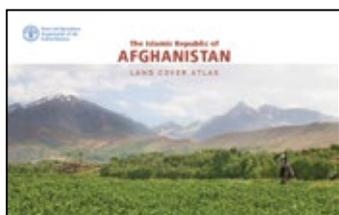
Rome, 2014  
100 pp., 285 x 350 mm  
Hardcover  
Available in: English



## LAND COVER ATLAS OF PAKISTAN

THE SINDH PROVINCE

Rome, 2014  
100 pp., 285 x 350 mm  
Hardcover  
Available in: English



Rome, 2016  
 ISBN 978-9-2-5108915-6  
 112 pp., 430 x 350 mm  
 USD 280.00, Hardcover  
 Available in: English

## THE ISLAMIC REPUBLIC OF AFGHANISTAN LAND COVER ATLAS

Afghanistan is a landlocked, mountainous country with a total area of about 652 000 km<sup>2</sup>, whose importance lies in its strategic position at the crossroads of Central Asia. Bordering Iran (Islamic Republic of), Turkmenistan, Uzbekistan, Tajikistan, China and Pakistan, it has a complex network of trade and culture. It has significant natural resources, yet very limited land and water resources. Drawing on ongoing land-cover assessments and high-resolution aerial photography, this atlas provides reliable information on the current state of land-cover and distribution of major land cover classes. The updated land cover information is instrumental to support agricultural statistical analysis as well as natural resources assessment, monitoring and management.



Rome, 2012  
 56 pp., 420 x 297 mm  
 USD 90.00, Paperback  
 Available in: English

## THE LAND COVER ATLAS OF SUDAN

This atlas provides information on land-cover distribution in the Sudan, by administrative division, based on data obtained from high-resolution satellite imagery, the Africover land-cover database and other sources. Field verification was completed by national experts, who received customized training on methodology and tools. The final product has about 490 000 polygons classified into 83 different classes and aggregated into seven major classes for ease of analysis and display. It is organized in two main sections: country and states.



Rome, 2011  
 74 pp., 420 x 297 mm  
 USD 100.00, Paperback  
 Available in: English

## LAND COVER ATLAS OF THE REPUBLIC OF SOUTH SUDAN

This atlas provides information on land-cover distribution – by administrative and sub-basin divisions – in the Republic of South Sudan, based on data obtained from satellite imagery, the Africover land-cover database and other sources. Field verification was

completed by national experts, who received customized training on methodology and tools. The final product has about 100 000 polygons classified into 43 different classes and aggregated into seven major classes for ease of analysis and display.

# THEMES

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FAO PRODUCES PUBLICATIONS IN ALL ITS FIELDS OF EXPERTISE FOR A RANGE OF SPECIALIZED AUDIENCES, FROM ACADEMICS AND POLICY-MAKERS TO TECHNICAL EXPERTS AND PRACTITIONERS ON THE GROUND.

AGRICULTURE

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ANIMAL PRODUCTION AND HEALTH

---

CITIES

---

CLIMATE CHANGE

---

ECONOMIC AND SOCIAL DEVELOPMENT

---

FISHERIES AND AQUACULTURE

---

FOOD AND NUTRITION

---

FORESTRY

---

GENDER

---

INDIGENOUS PEOPLES

---

PLANT PRODUCTION AND HEALTH

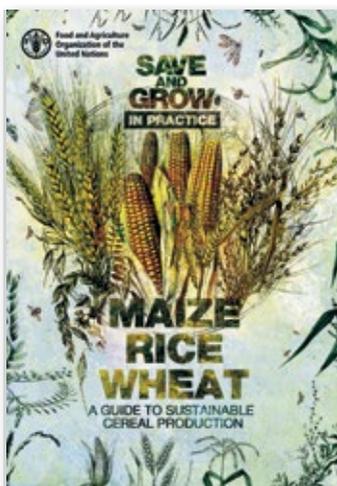
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A groundbreaking series presenting FAO's ecosystem-based approach to sustainable intensification of agriculture.

## SAVE AND GROW IN PRACTICE: MAIZE, RICE AND WHEAT

A GUIDE TO SUSTAINABLE  
CEREAL PRODUCTION



Insight, analysis and guidance to inform sustainable agricultural policy and practices.



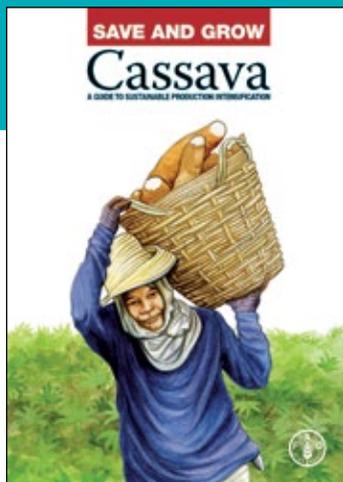
### SAVE AND GROW IN PRACTICE

VIDEO 3'40"



This guide describes the practical application of FAO's "Save and Grow" model of sustainable crop production intensification to the world's key food security crops: maize, rice and wheat. With examples from Africa, Asia and Latin America, it shows how ecosystem-based farming systems are helping smallholder farmers boost cereal yields, strengthen their livelihoods, reduce pressure on the environment and build resilience to climate change. The guide will be a valuable reference for policy-makers and development practitioners during the global transition to sustainable food and agriculture.

Rome, 2016  
ISBN 978-92-5-108519-6  
120 pp., 182 x 257 mm  
USD 45.00, Paperback  
Also available in e-book format  
Available in: Arabic, Chinese, English,  
French, Russian, Spanish



## SAVE AND GROW CASSAVA

A GUIDE TO SUSTAINABLE  
PRODUCTION INTENSIFICATION

This practical guide applies FAO's ecosystem-based model of agriculture, which aims at improving productivity while conserving natural resources, to cassava. The guide shows how "Save and Grow" can help cassava growers avoid the risks of intensification, while realizing the crop's potential for producing higher yields, alleviating hunger and rural poverty, and contributing to national economic development.

Rome, 2013

ISBN 978-92-5-107641-5

140 pp., 182 x 257 mm

USD 42.00, Paperback

Also available in e-book format

Available in: English, French, Spanish, Portuguese



Some key ingredients of  
the **Save and Grow**  
approach:

Integrated  
**crop–livestock**  
production

Sustainable  
**rice–wheat**  
farming systems

**Agroforestry**  
**Shifting** cultivation

Better conservation  
of **plant genetic**  
**resources**

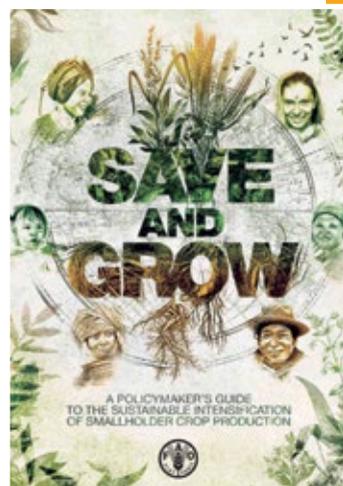
Improved **seed**  
**production** and  
distribution

Precision **irrigation**  
technologies

Multiple **uses of**  
**water** systems

## SAVE AND GROW

A POLICYMAKER'S GUIDE  
TO THE SUSTAINABLE  
INTENSIFICATION OF  
SMALLHOLDER CROP  
PRODUCTION



This book presents a new approach to agriculture: sustainable crop production intensification, which produces more from the same area of land while conserving resources, reducing negative impacts on the environment, and enhancing natural capital and the flow of ecosystem services. The book offers a rich toolkit of relevant, adoptable and adaptable ecosystem-based practices that can help the world's 500 million smallholder farm families achieve higher productivity, profitability and resource-use efficiency while enhancing natural capital.

Rome, 2011

(reprinted 2012, 2013)

ISBN 978-92-5-106871-7

112 pp., 182 x 257 mm

USD 45.00, Paperback

Available in: Arabic, Chinese,  
English, French, Italian,  
Russian, Spanish



## PUBLIC-PRIVATE PARTNERSHIPS FOR AGRIBUSINESS DEVELOPMENT

A REVIEW OF INTERNATIONAL EXPERIENCES

Innovative partnerships that bring together business, government and civil-society actors, known as public-private partnerships, or PPPs, are increasingly promoted as a mechanism for inclusive sustainable agricultural development. To improve understanding of their potential benefits and challenges for the agriculture sector, this publication analyses 70 PPP cases, gathered from 15 developing countries. It also provides evidence derived from FAO's support for the review of PPP policies on agriculture in Southeast Asia and Central America.

Rome, 2016  
ISBN 978-92-5-109252-1  
183 pp., 210 x 297 mm  
Price available on request, Paperback

## AGRICULTURE

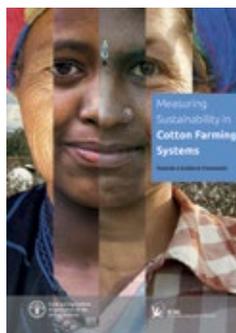
### USES OF GEOTHERMAL ENERGY IN FOOD AND AGRICULTURE

OPPORTUNITIES FOR DEVELOPING COUNTRIES

Geothermal energy has traditionally been used to generate electricity, but can also be used in agriculture and the agro-industry, including in developing countries. This book reviews the use of geothermal energy in agriculture and agro-industry around the world. With a simple format and many illustrations and models, the book is accessible to a wide range of interested readers, including those with no technical background. It shows that geothermal resources have the potential to provide long-term, secure energy for agriculture and food industries in both developed and developing countries.



Rome, 2015  
ISBN 978-92-5-108656-8  
62 pp., 175 x 245 mm  
USD 32.00, Paperback  
Also available in e-book format  
Available in: English



### MEASURING SUSTAINABILITY IN COTTON FARMING SYSTEMS

TOWARDS A GUIDANCE FRAMEWORK

The global cotton industry includes more than 100 million farm families across 75 countries, and it generates about USD 51.4 billion annually. For many farmers, however, cotton is only one component of their complex and integrated farming systems. This report provides farming communities with a framework and a common language for the pursuit of both sustainable production and livelihood improvement.

Rome, 2015  
ISBN 978-92-5-108614-8  
168 pp., 210 x 297 mm  
Price available on request  
Paperback  
Available in: English, French



## INCLUSIVE BUSINESS MODELS

GUIDELINES FOR IMPROVING LINKAGES BETWEEN PRODUCER GROUPS AND BUYERS OF AGRICULTURAL PRODUCE

Small actors in agricultural value chains are linked to markets through business models of varying complexity. Aimed at designers of agricultural value-chain projects and rural and enterprise development projects, as well as grassroots organizations implementing smallholder commercialization projects, these guidelines will facilitate the design and implementation of interventions to strengthen business models linking smallholders to value chains. Among other things they tackle the design of business model strategies that link smallholders to markets and address the quality of market inclusion and its impact on poverty reduction.

Rome, 2015  
ISBN 978-92-5-108923-1  
128 pp., 176 x 250 mm  
Price available on request  
Paperback  
Also available in e-book format  
Available in: English

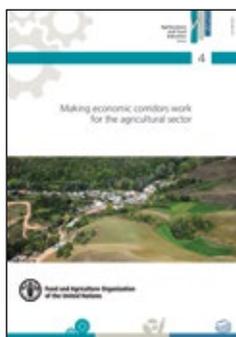


Rome, 2014  
ISBN 978-92-5-108481-6  
89 pp., 210 x 150 mm  
USD 37.00, Paperback  
Available in: English,  
French, Russian, Spanish

## DEVELOPING SUSTAINABLE FOOD VALUE CHAINS

GUIDING PRINCIPLES

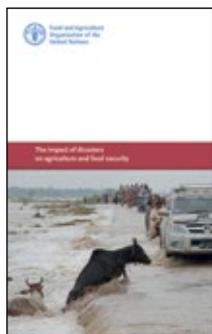
This publication provides the conceptual foundation for a new set of FAO handbooks on sustainable food value chain development. It defines the concept of a sustainable food value chain, presents a development paradigm that integrates the multidimensional concepts of sustainability and value added, highlights ten guiding principles, and discusses the potential and limitations of the approach. Aimed at policy-makers, project designers and field practitioners, the handbook makes a strong case for placing sustainable food value chain development at the heart of any long-term strategy for reducing poverty and hunger.



Rome, 2014  
ISBN 978-92-5-108636-0  
218 pp., 180 x 250 mm  
USD 40.00, Paperback  
Available in: English

## MAKING ECONOMIC CORRIDORS WORK FOR THE AGRICULTURAL SECTOR

Developing countries are increasingly using "agroc corridors" to develop their agriculture sectors. Such corridors promote inclusive agribusiness growth by investing in people living along existing transportation corridors. Based on initiatives in Central Asia, the Greater Mekong Subregion, Indonesia, Mozambique, Peru and the United Republic of Tanzania, this book shows how agroc corridors improve the physical connectivity and functioning of markets while generating economies of scale in agriculture. It provides policy-makers and practitioners with evidence-based, practical tools to guide the design and implementation of agroc corridors.



## THE IMPACT OF DISASTERS ON AGRICULTURE AND FOOD SECURITY

In the decade to 2013, natural disasters cost some USD 1.5 trillion worldwide in economic damage, and their frequency and severity is rising. In this publication, FAO shows that almost one-quarter of the damage and losses caused by natural disasters in developing countries fall on the agriculture sector, which is the main source of livelihoods and food security in those countries as well as a key driver of economic growth. The publication encourages governments to design disaster mitigation measures specific to crop and livestock production, fisheries and forestry.

Rome, 2015  
ISBN 978-92-5-108962-0  
92 pp., 185 x 295 mm  
Price available on request, Paperback  
Also available in e-book format  
Available in: English



## THE IMPACT OF DISASTERS

VIDEO 2'40"



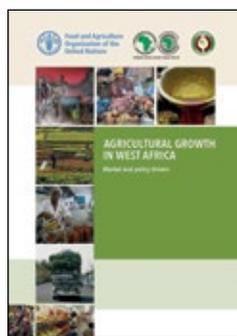
## AGRICULTURE

### IMPACT OF THE EBOLA VIRUS DISEASE OUTBREAK ON MARKET CHAINS AND TRADE OF AGRICULTURAL PRODUCTS IN WEST AFRICA

This report analyses the impact of the ebola virus disease outbreak on seven market chains – rice, cassava, potatoes, cocoa, palm-oil animal products, bushmeat and cocoa – in Guinea, Liberia and Sierra Leone. They were selected based on their importance to regional food security, the risks associated with ebola, and the extent of disruptions caused by the outbreak. The report makes recommendations for restoring trade flows and ensuring the smooth functioning of markets while minimizing the risk of disease spread.



Dakar, 2016  
ISBN 978-92-5-109223-1  
96 pp., 210 x 297 mm  
Price available on request  
Paperback  
Available in: English



Rome, 2015  
ISBN 978-92-5-108700-8  
384 pp., 200 x 300 mm  
Price available on request  
Paperback  
Also in e-book format  
Available in: English, French

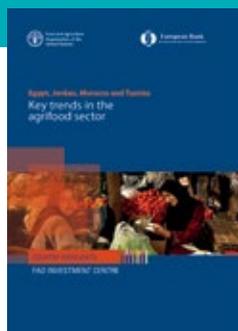
### AGRICULTURAL GROWTH IN WEST AFRICA

MARKET AND POLICY DRIVERS

Agriculture is at a turning point in West Africa. A combination of factors has generated the most conducive conditions for agricultural growth in the subregion in more than 30 years. This book helps to understand the opportunities and challenges for the agrifood sector by examining drivers and trends, evaluating the sector's performance and related policies in the light of those trends, and distilling policy implications. It will be useful to a range of audiences: policy-makers, development partners, scientists, farmers and other players in West Africa's agrifood system.

## COUNTRY HIGHLIGHTS SERIES

The Country Highlights series of the FAO Investment Centre reviews the agricultural/rural sector, specific investment projects and food chains in a range of countries and regions.



### EGYPT, JORDAN, MOROCCO AND TUNISIA

#### KEY TRENDS IN THE AGRIFOOD SECTOR

The population of the southern and eastern Mediterranean region is expected to grow by 7 percent by 2020, and per capita incomes will also increase. Such trends have implications for the dynamics of food and agriculture in the region, translating, for example, into increased demand for higher quality food products and for meat and dairy products. This joint FAO–European Bank for Reconstruction and Development publication examines trends in agribusiness and food security in Egypt, Jordan, Morocco and Tunisia with the aim of contributing to the development of effective, efficient policies for improved food security and nutrition in the region.

Rome, 2015  
94 pp., 150 x 210 mm  
Price available on request  
Paperback  
Available in: English

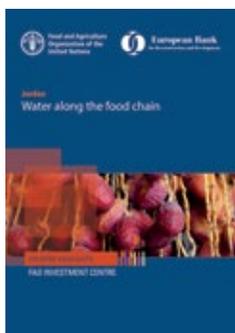
### EGYPT

#### WHEAT SECTOR REVIEW

Egypt is the largest importer of wheat globally, and the strategic importance of the wheat sector in the country has resulted in the strong involvement of the state at all stages of the wheat value chain. The aim of this book, which reports on a joint sector review, is to help policy-makers and investors achieve a more efficient and inclusive agricultural and food system. It identifies the main bottlenecks in the wheat supply chain and underlines the importance of allowing the active participation of the private sector in the country's food security.



Rome, 2015  
112 pp., 150 x 210 mm  
Price available on request  
Paperback  
Available in: English



Rome, 2015  
181 pp., 150 x 210 mm  
Price available on request  
Paperback  
Available in: English

### JORDAN

#### WATER ALONG THE FOOD CHAIN

Water is scarce in Jordan, and an imbalance in the supply and demand of this precious resource has been at the cost of over-abstracted groundwater. This book examines ways in which Jordan can move away from unsustainable agricultural and food activities, which consume large quantities of water inefficiently. It captures the findings of three missions to Jordan: one to scope the "water issue" and identify the food value chains that merited analysis, and the other two to collect primary data for analysis. The book proposes pathways toward water-efficient and productive solutions for Jordan.



## DESIGNING WAREHOUSE RECEIPT LEGISLATION

REGULATORY OPTIONS AND RECENT TRENDS

Warehouse receipt systems allow agricultural producers to access credit by borrowing against receipts issued for goods stored in independently controlled warehouses; among other things, they enable producers to delay the sale of their products until after harvest, when prices are generally more favourable. Despite these and other benefits for the agriculture sector, there is a lack of comprehensive guidance on the design of legislation governing warehouse receipt systems. This publication is aimed at filling this gap, providing countries with guidance on developing enabling legislation and evidence-based examples of best practices, based on a review of legislation worldwide.

Rome, 2015  
173 pp., 150 x 210 mm  
Price available on request  
Paperback  
Available in: English

## AGRICULTURE

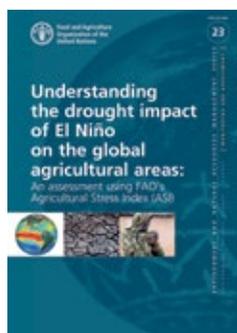
### LEGAL GUIDE ON CONTRACT FARMING

The use of contract farming – agricultural production and marketing carried out under prior agreement between producers and their buyers – is growing in many countries.

This guide aims to enhance knowledge and awareness of the legal regime applicable to contract farming operations. It will be a useful tool and reference point for a broad range of users involved in contract farming practice, policy design, legal research and capacity building, and it will contribute to creating a favorable, equitable and sustainable environment for contract farming.



Rome, 2015  
ISBN 978-88-86449-30-4  
253 pp., 210 x 297 mm  
Price available on request  
Paperback  
Available in: English, French

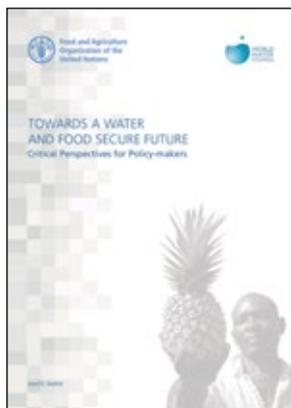


### UNDERSTANDING THE DROUGHT IMPACT OF EL NIÑO ON THE GLOBAL AGRICULTURAL AREAS

AN ASSESSMENT USING FAO'S AGRICULTURAL STRESS INDEX (ASI)

When El Niño strikes, the normal patterns of tropical precipitation and atmospheric circulation are disrupted, triggering droughts and floods worldwide and affecting the intensity and frequency of hurricanes. FAO monitors the El Niño–Southern Oscillation phenomenon and other weather-related hazards, with a special focus on their potential impacts on the agriculture sector. The aim of this study is to enhance understanding of El Niño using FAO's Agricultural Stress Index System. The system uses remote sensing data to identify anomalous vegetation growth and potential drought in arable lands during cropping seasons.

Rome, 2015  
ISBN 978-92-5-108671-1  
52 pp., 210 x 290 mm  
USD 25.00, Paperback  
Available in: English



Rome, 2015  
76 pp., 210 x 297 mm  
Price available on request  
Paperback  
Available in: English

## TOWARDS A WATER AND FOOD SECURE FUTURE

CRITICAL PERSPECTIVES FOR POLICY-MAKERS

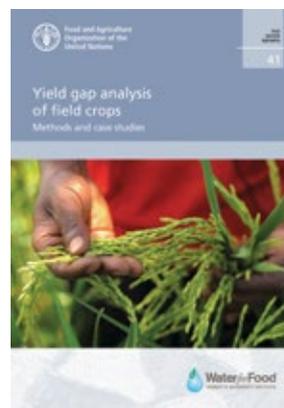
This FAO/World Water Council report presents decision-makers with an overview of the global outlook for water use in agriculture, particularly crop and livestock production. Agriculture will remain an important determinant of economic growth, poverty reduction and food security in many countries in 2050, even though the proportion of

agricultural revenue in national gross income may decline. Water use in agriculture will remain substantial, irrigated areas will expand, and competition for water will increase. The supply of land and water is likely to be sufficient to achieve global food production in 2050, but poverty and food security will remain pressing challenges.

## YIELD GAP ANALYSIS OF FIELD CROPS

METHODS AND CASE STUDIES

This publication reviews methods for yield gap analysis, clarifying definitions and techniques to measure and model actual, attainable and potential yield at different scales in space and time and using case studies to illustrate different approaches. It contributes to efforts to advance global water and food security through improvements in water and land productivity, discussing methods for measuring yield gaps and ways to diagnose the root causes of yield and water productivity gaps. It sets out the actions needed to close yield gaps in both small- and large-scale cropping systems.



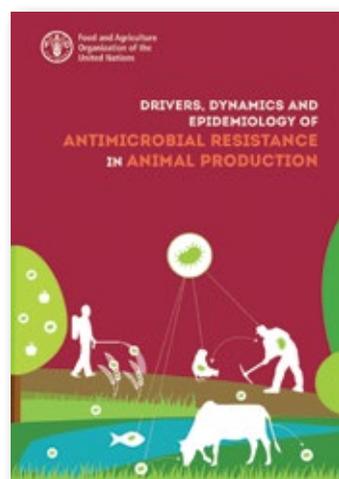
Rome, 2015  
ISBN 978-92-5-108813-5  
82 pp., 210 x 297 mm  
Price available on request  
Paperback  
Available in: English

## ANIMAL PRODUCTION AND HEALTH

### DRIVERS, DYNAMICS AND EPIDEMIOLOGY OF **ANTIMICROBIAL RESISTANCE IN ANIMAL PRODUCTION**

This technical paper deals with the transmission dynamics of antimicrobial resistance as a consequence of the use, overuse and even abuse of antimicrobial medicines in animal production (both terrestrial and aquatic) systems. It examines the risk of spread through food production and distribution chains and the environment, and potential effects on local and global trade. It provides an overview of current knowledge regarding the emergence of antimicrobial resistance, types and mechanisms of resistance, and methods of spread between humans and animals. In addition, the paper presents the different types of food production systems and how these influence both local and global pathways of transmission.

**Focusing on the three global public goods most affected by changes in the livestock sector: equity, veterinary public health, and environmental sustainability.**



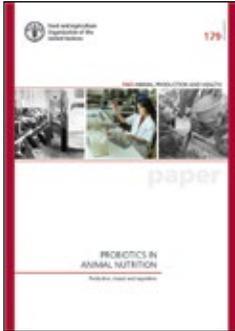
**ANTIMICROBIALS IN  
FOOD PRODUCTION**  
VIDEO 3'48"



Rome, 2016 (forthcoming)  
ISBN 978-92-5-109441-9  
Price available on request  
Paperback  
Available in: English

#### **KENYA**

A herd of cattle drinking water in Narok.  
©FAO/S. Maina



## PROBIOTICS IN ANIMAL NUTRITION

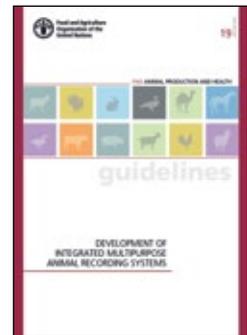
PRODUCTION, IMPACT AND REGULATION

Increasing consumption of livestock products is putting pressure on the livestock sector to produce more with less. This publication documents the use of probiotics in diverse livestock production systems, including their labelling and the global regulatory status of their use in animal feed. It should assist in identifying and designing interventions for increasing animal productivity and give impetus to the development of new probiotics that could be used in place of antibiotic growth promoters.

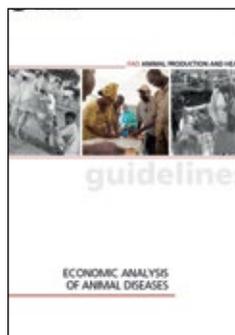
Rome, 2016  
ISBN 978-92-5-109333-7  
96 pp., 176 x 250 mm  
Price available on request  
Paperback  
Available in: English

## DEVELOPMENT OF INTEGRATED MULTIPURPOSE ANIMAL RECORDING SYSTEMS

Animal identification and recording are prerequisites for establishing and operating genetic improvement programmes. They are also key for animal traceability, which can enhance market access, increase incomes for producers and other players, and help deter livestock theft and fraud. Animal identification and recording systems, therefore, are powerful tools for livestock development and responding to global demands for food security and poverty alleviation. These guidelines describe a step-by-step approach for the development of multipurpose animal recording systems that integrate animal identification and registration, animal traceability, animal health information and performance recording.



Rome, 2016  
ISBN 978-92-5-109256-9  
189 pp., 176 x 250 mm  
USD 30.00, Paperback  
Available in: English



Rome, 2016  
ISBN 978-92-5-109166-1  
74 pp., 210 x 297 mm  
USD 30.00, Paperback  
Available in: English

## ECONOMIC ANALYSIS OF ANIMAL DISEASES

Any decision taken to prevent, control or eliminate an animal disease is based not only on technical knowledge about a particular disease. Economic rationale drives the investment decisions that are likely to benefit society as a whole or a specific stakeholder, including livestock farmers and communities. These guidelines underscore the importance of economic analysis when assessing the impact of an animal disease on production, trade, market access, food security and livelihoods, or when designing animal health strategies. The framework will facilitate communication and collaboration between animal health technicians, veterinarians and economists.

## ANIMAL PRODUCTION AND HEALTH



Rome, 2012  
ISBN 978-92-5-107273-8  
254 pp., 210 x 297 mm  
Price available on request, Paperback  
Available in: English

### THE GLOBAL FOOT AND MOUTH DISEASE CONTROL STRATEGY

STRENGTHENING ANIMAL HEALTH SYSTEMS  
THROUGH IMPROVED CONTROL OF MAJOR DISEASES

Foot and mouth disease (FMD) is an eminent transboundary animal disease, severely affecting the production of livestock and disrupting the regional and international trade of animals and animal products. The adverse effects of FMD are often underestimated in developing countries, where it undermines food security and economic development, both at the level of village smallholders and in the more organized production

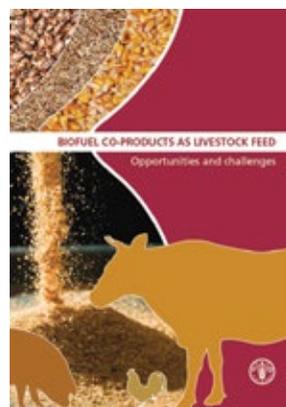
chains supplying urban and export markets. In some regions, especially southern Africa, the impact of FMD control measures on wildlife conservation has become an important concern.

### BIOFUEL CO-PRODUCTS AS LIVESTOCK FEED

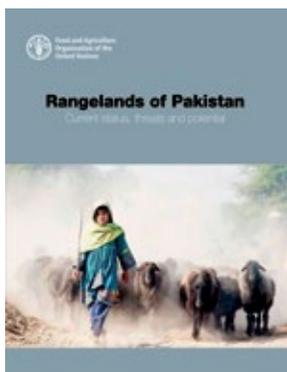
OPPORTUNITIES AND CHALLENGES

This publication looks into the use of co-products from the biofuel industry as livestock feed. At present, biofuel production makes use of agricultural crops grown primarily on arable land, in particular maize and wheat, and sugar cane used for the production of ethanol.

The book examines the future availability of co-products in the context of climate change and predicted shortages of fossil fuel, and emphasizes the need to ensure economic sustainability and avoid conflict with traditional usage of arable land to produce food and animal feed.



Rome, 2012  
ISBN 978-92-5-107299-8  
551 pp., 210 x 297 mm  
Price available on request, Paperback  
Available in: English



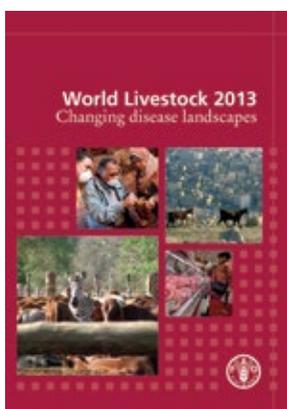
Islamabad, 2016  
 ISBN 978-92-5-109232-3  
 204 pp., 220 x 280 mm  
 Price available on request  
 Paperback  
 Available in: English

## RANGELANDS OF PAKISTAN

CURRENT STATUS, THREATS AND POTENTIAL

The rangeland resources of Pakistan constitute around 60 percent of the land area of Pakistan. This resource supports millions of livestock which are important for the livelihood, food security and nutrition of poor rural people. Currently the resource is in a deteriorating condition and the current productivity is far less than its potential. The book provides information

for all provinces/regions of the country, covering the extent of the resource, productivity, prevailing trends and their contribution to local livelihoods, food security and nutrition. It also describes the key problems in sustainable management of this natural resource with clear recommendations for enhancing productivity functions and services.



## WORLD LIVESTOCK 2013

CHANGING DISEASE LANDSCAPES

This book looks at the evidence of changing disease dynamics involving livestock and explores three key areas: the pressure, including drivers and risk factors that contribute to disease emergence, spread and persistence; the state, describing the disease dynamics that result from the pressure and their subsequent impact; and the response, required both to adapt and improve the state and to mitigate the pressure.

The report, which remains a reference in its field, argues for a comprehensive approach to global health to deal with the complexities of the disease landscape, give greater emphasis to agro-ecological resilience, protect biodiversity and ensure safer food supply chains, particularly in the areas most afflicted by poverty and disease. Speeding up response times by early detection and reaction – including through improved policies is key.

Rome, 2013  
 ISBN 978-92-5-107927-0  
 130 pp., 176 x 250 mm  
 USD 45.00, Paperback  
 Also in e-book format  
 Available in: English



**Acknowledging and strengthening the growing role of urban agriculture as an important land use and economic activity.**

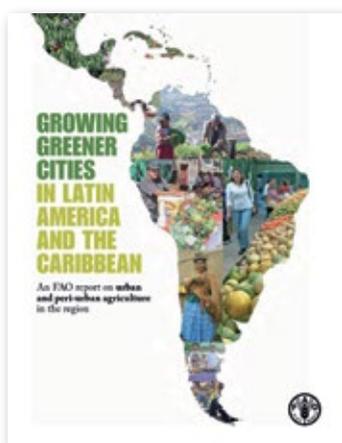
## CITIES

This report presents 23 countries and 10 cities in Latin America and the Caribbean in which urban and peri-urban agriculture (UPA) is part of public policy, included in urban development strategies, supported by research and extension, and linked to technological innovation, investment and credit.

It shows how UPA supplies urban dwellers with fresh, high-value "local food", generates employment, creates greenbelts, and stimulates local economic development. A growing number of cities are also linking family farmers in peri-urban and adjoining rural areas to their food banks, school meals and similar programmes, contributing to the livelihoods and well-being of both the rural and urban poor.

Rome, 2014  
 ISBN 978-92-5-108250-8  
 51 pp, 210 x 270 mm  
 USD 68.00, Paperback  
 Available in: English

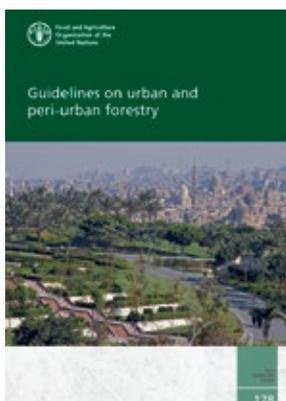
## GROWING GREENER CITIES IN LATIN AMERICA AND THE CARIBBEAN



### WEST BANK AND GAZA STRIP

A farmer tending the garden in the backyard of her home.

©FAO/M. Longari



Rome, 2016  
 ISBN 978-92-5-109442-6  
 168 pp., 176 x 250 mm  
 USD 35.00, Paperback  
 Available in: English

## GUIDELINES ON URBAN AND PERI-URBAN FORESTRY

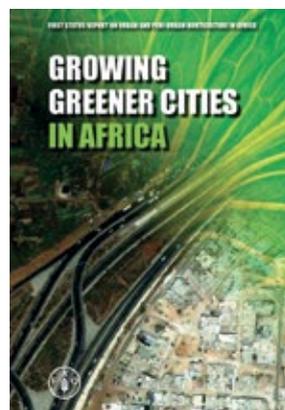
Although cities occupy only 2 percent of the planet's surface, their inhabitants use 75 percent of its natural resources. The world is urbanizing quickly too: by 2050, 70 percent of the global population will live in cities and towns.

Urban and peri-urban forests and trees can help make cities more sustainable and resilient by improving air quality, reducing stormwater runoff, providing space for recreation and physical exercise, increasing biodiversity and much more. These guidelines – intended for a global audience of decision-makers, civil servants, policy advisors and other stakeholders – promote urban and peri-urban forests as a way of meeting the needs of cities for environmental services. They will also raise community awareness on the positive contributions that urban and peri-urban forests can make to city life and their essential role in global sustainability.

## GROWING GREENER CITIES IN AFRICA

FIRST STATUS REPORT ON URBAN AND PERI-URBAN HORTICULTURE IN AFRICA

Africa's urban population is growing faster than that of any other region. By the end of the current decade, 24 of the world's 30 fastest growing cities will be African. Within 18 years, the urban population of sub-Saharan Africa is projected to reach almost 600 million, twice what it was in 2010. African cities already face enormous problems: more than half of all residents live in overcrowded slums; up to 200 million survive on less than USD2 a day; poor urban children are as likely to be chronically malnourished as poor rural children



Rome, 2012  
 ISBN 978-92-5-107286-8  
 116 pp., 176 x 250 mm  
 USD 28.00, Paperback  
 Available in: English,  
 French, Portuguese

## CLIMATE CHANGE



**The defining issue of our time and fundamental threat to global food security, sustainable development and poverty eradication.**



Rome, 2016  
 ISBN 978-92-5-108998-9  
 110 pp., 210 x 297 mm  
 Price available on request, Paperback  
 Also in e-book format  
 Available in: English

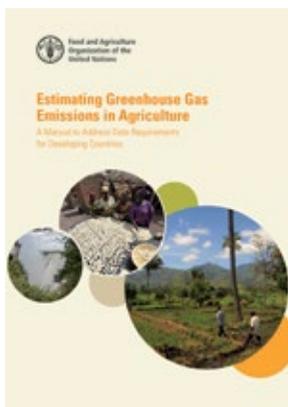
## CLIMATE CHANGE AND FOOD SECURITY: RISKS AND RESPONSES

Ensuring food security and good nutrition in the face of climate change is among the most daunting challenges facing humankind. Bringing together information from the Intergovernmental Panel on Climate Change and other scientific evidence and experience, this report shows how the impacts of climate change cascade from the environment, to agricultural production, to economic and social dimensions, especially affecting the most vulnerable communities. The report presents ways of reducing vulnerabilities and building resilience to climate change and shows the importance of acting now in order to ensure food security and good nutrition for all.

### MAKHANGA, MALAWI

Land degraded by flooding. FAO has been working closely with the Malawian Government to reduce the country's exposure to threats like floods and drought.

© FAO/L. Sola



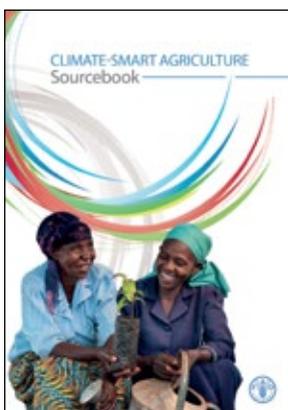
Rome, 2015  
 ISBN 978-92-5-108674-2  
 193 pp., 210 x 297 mm  
 Price available on request, Paperback  
 Available in: English, French, Spanish

## ESTIMATING GREENHOUSE GAS EMISSIONS IN AGRICULTURE

A MANUAL TO ADDRESS DATA REQUIREMENTS FOR DEVELOPING COUNTRIES

Countries report their greenhouse gas (GHG) emissions and removals from all sectors via national GHG inventories in accordance with international climate policy agreements and technical guidelines developed by the Intergovernmental Panel on Climate Change. The agriculture sector poses a unique challenge, especially in developing countries, because

of difficulties in compiling and regularly updating national statistics on agriculture, forestry and land use – the first step in preparing national GHG estimates. This manual provides national statistical offices and environmental ministries and agencies with a tool and methodology for identifying, building and accessing the minimum set of activity data needed for GHG estimation.

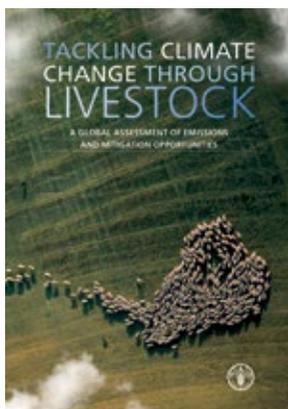


## CLIMATE-SMART AGRICULTURE SOURCE-BOOK

Climate-smart agriculture (CSA) integrates the three dimensions of sustainable development – economic, social and environmental – by jointly addressing food security and climate challenges. The purpose of this source-book is to further develop the concept and demonstrate both its potential and limitations. The source-book aims to help decision-makers understand the options available for making agricultural sectors, landscapes and food systems

more climate-smart. It will serve as a reference tool for planners, practitioners and policy-makers working in agriculture, forestry and fisheries at the national and subnational levels.

Rome, 2013  
 ISBN 978-92-5-107720-7  
 570 pp., 210 x 297 mm  
 USD 70.00, Paperback  
 Available in: English



Rome, 2013  
 ISBN 978-92-5-107920-1  
 139 pp., 176 x 250 mm  
 USD 40.00, Paperback  
 Also available in e-book format  
 Available in: English,  
 French, Spanish

## TACKLING CLIMATE CHANGE THROUGH LIVESTOCK

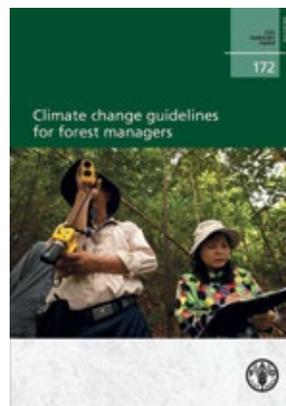
A GLOBAL ASSESSMENT OF EMISSIONS AND MITIGATION OPPORTUNITIES

This report provides the most comprehensive global assessment to date of the livestock sector's greenhouse gas emissions and its climate change mitigation potential, presenting a detailed assessment of the magnitude, sources and pathways of emissions caused by various production systems and supply chains. Relying on life cycle assessment, statistical analysis and scenario building, the report identifies concrete options for

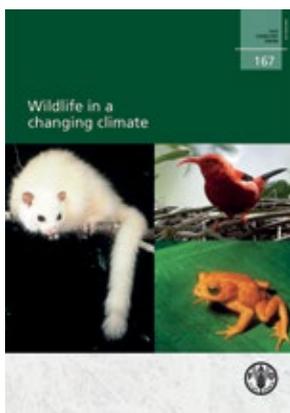
reducing emissions, which are needed urgently given that the livestock sector's greenhouse gas emissions are expected to increase with a projected increase in demand for livestock products of 70 percent by 2050.

## CLIMATE CHANGE GUIDELINES FOR FOREST MANAGERS

The effects of climate change and climate variability on forest ecosystems are evident around the world, and further impacts are unavoidable. Addressing the challenges posed by climate change will require adjustments to forest policies, management plans and practices. These guidelines have been prepared to assist forest managers to better assess and respond to climate change challenges and opportunities. The actions they propose are relevant to all kinds of forest managers – individual forest owners, private forest enterprises, public-sector agencies, indigenous groups and community forest organizations. They are applicable in all forest types and regions and for all management objectives.



Rome, 2013  
 ISBN 978-92-5-107831-0  
 124 pp., 176 x 250 mm  
 USD 35.00, Paperback  
 Available in: English, French,  
 Nepali, Spanish

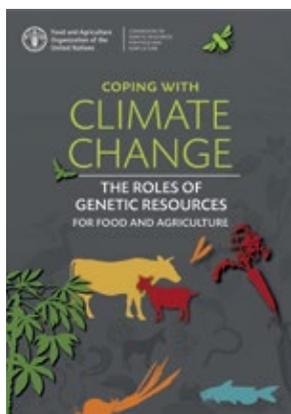


## WILDLIFE IN A CHANGING CLIMATE

This publication examines the likely consequences of climate change for wildlife, including altered ecosystems and species composition and the increased incidence of human–wildlife conflict, wildland fires, and the spread of invasive species and infectious diseases. The book focuses on tropical terrestrial wildlife and its habitats, although it also addresses other fauna, ecosystems and geographical regions. It discusses responses to climate change, such as adaptive

management, ecosystem restoration and the adoption of integrated and landscape approaches to biodiversity conservation. Case studies illustrate the issues and responses.

Rome, 2012  
 ISBN 978-92-5-107089-5  
 118 pp., 176 x 250 mm  
 USD 30.00, Paperback  
 Available in: English, Spanish



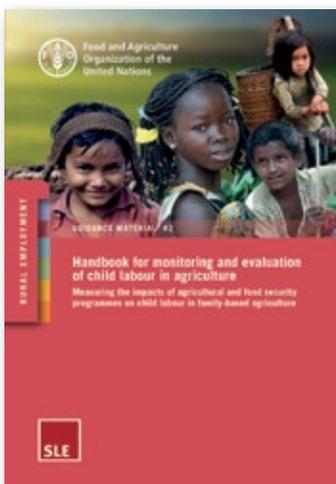
## COPING WITH CLIMATE CHANGE THE ROLES OF GENETIC RESOURCES FOR FOOD AND AGRICULTURE

Changes in climate will cause shifts in the distribution of land suitable for the cultivation of a wide range of crops. They will also create problems for the livestock sector, ranging from heat stress issues to feed and water availability. Other potential consequences include asynchrony between crop flowering and the presence of pollinators, and the spread of favourable conditions for invasive alien species, pests and parasites. Genetic diversity enables plants, animals and micro-organisms to adapt and survive when their

environments change, although the speed and magnitude of climate change is threatening this very diversity. This publication highlights the importance of ensuring the sustainable management of the world's genetic resources for food and agriculture before it is too late.

Rome, 2015  
 ISBN 978-92-5-108441-0  
 130 pp. 175 x 245 mm  
 USD 43.00, Paperback  
 Also available in e-book format  
 Available in: English

## ECONOMIC AND SOCIAL DEVELOPMENT



## HANDBOOK FOR MONITORING AND EVALUATION OF CHILD LABOUR IN AGRICULTURE

MEASURING THE IMPACTS OF AGRICULTURAL AND  
FOOD SECURITY PROGRAMMES ON CHILD LABOUR  
IN FAMILY-BASED AGRICULTURE

**Engaging dialogue on  
economic development,  
rural institutions, social  
protection, decent rural  
employment and the  
right to food.**

Preventing all forms of child labour requires broader food security and agricultural and rural development programmes that lift people out of poverty. Integrating child labour concerns into the monitoring and evaluation frameworks of food security and rural development programmes is essential, and this handbook provides a set of good practices and innovative approaches for doing so. It recognizes that one size does not fit all and provides tools for adapting programmes and policies to specific contexts. The handbook is an accessible guide for all those interested in monitoring and evaluating child labour in agriculture.

Rome, 2015  
ISBN 978-92-5-108779-4  
119 pp., 176 x 250 mm  
Price available on request, Paperback  
Also in e-book format  
Available in: English

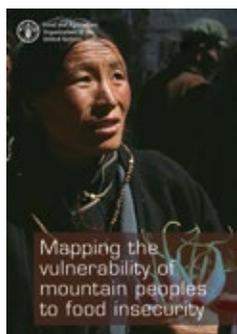
**DLBISSI, BURKINA FASO**  
Sacks of animal feed provided through  
an FAO distribution centre in a  
drought-stricken area.  
©FAO/I. Sanogo



### SUCCESS STORIES ON INFORMATION AND COMMUNICATION TECHNOLOGIES FOR AGRICULTURE AND RURAL DEVELOPMENT

Poor, smallholder farmers face many challenges – such as natural disasters, biodiversity loss, food price volatility and inefficient supply chains – and they must make complex decisions on land use, input purchases, what to grow and where to sell. Better information can improve such decisions and ultimately the living standards of rural producers. This publication presents seven case studies on the innovative use of emerging information and communication technologies that have changed the lives of farming communities for the better.

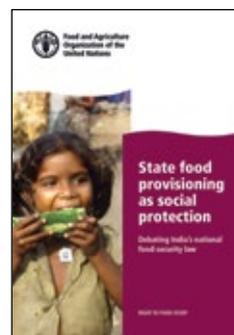
Rome, 2015  
ISBN 978-92-5-108993-4  
82 pp., 183 x 259 mm  
Price available on request, Paperback  
Available in: English



### MAPPING THE VULNERABILITY OF MOUNTAIN PEOPLES TO FOOD INSECURITY

One in three mountain people in developing countries is facing hunger and malnutrition. This publication presents an updated geographic and demographic picture of the world's mountain areas and assesses the vulnerability to food insecurity of mountain dwellers in developing countries, based on a specially designed model. It shows that the living conditions of mountain dwellers have continued to deteriorate in the last decade, and many mountain communities lag way behind in the eradication of poverty and hunger. The publication gives voice to their plight and sends a message to policy-makers on the importance of mountain development; it proposes specific measures that could break the cycle of poverty and hunger in mountain communities.

Bangkok, 2015  
ISBN 978-92-5-108774-9  
84 pp., 210 x 297 mm  
Price available on request, Paperback  
Available in: English



### STATE FOOD PROVISIONING AS SOCIAL PROTECTION

DEBATING INDIA'S NATIONAL  
FOOD SECURITY LAW

This book summarizes the main issues debated during the development and passage of India's 2013 National Food Security Act, which legally binds national and state governments to extend far-reaching social protection to the population. The book is written by renowned right-to-food expert, author and human rights activist, Harsh Mander, based on his participation in many of the processes and debates on the right to food in India over the last decade. It raises many important issues of interest to policy-makers, especially in low-income countries and emerging economies.

Rome, 2015  
ISBN 978-92-5-108890-6  
87 pp., 176 x 250 mm  
Price available on request, Paperback  
Available in: English, French, Spanish



Resource monitoring, guidelines and policy relating to the role of fish and its associated products in food security and nutrition, production and trade, poverty alleviation and employment.

## FISHERIES AND AQUACULTURE



Rome, 2016 (revised edition)  
ISBN 978-92-5-009140-2  
115 pp., 148 x 210 mm  
Price available on request, Paperback  
Available in: English, French, Spanish (trilingual), Arabic, Chinese, Russian



### PORT STATE MEASURES AGREEMENT TO COMBAT ILLEGAL, UNREPORTED AND UNREGULATED FISHING

VIDEO 3'38"



## AGREEMENT ON PORT STATE MEASURES TO PREVENT, DETER AND ELIMINATE ILLEGAL, UNREPORTED AND UNREGULATED FISHING

This landmark agreement seeks to prevent, deter and eliminate illegal, unreported and unregulated fishing – a major problem in capture fisheries and a serious threat to the effective conservation and management of many fish stocks. Through the adoption and implementation of effective port State measures, its aim is to ensure the long-term conservation and sustainable use of living marine resources. Adopted in 2009, the agreement came into force when it passed the threshold of 25 countries' adherence in June 2016, with over 30 nations, as well as the European Union, having acceded to the treaty. It is expected to be applied widely and effectively by Parties, in their capacities as port States, for vessels not entitled to fly their flags. It will apply to these vessels when they seek entry to Parties' ports or while in port. Certain artisanal fishing and container vessels will be exempt.

#### BAN BOR RAE, THAILAND

A fisher walks along the rails between the cages of a fish farm.  
©FAO/S. Khan



## FISHERIES IN THE DRYLANDS OF SUB-SAHARAN AFRICA

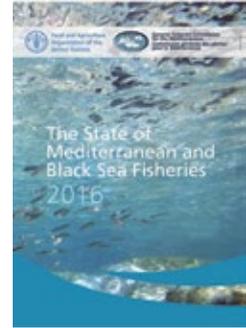
“FISH COME WITH THE RAINS”. BUILDING RESILIENCE FOR FISHERIES-DEPENDENT LIVELIHOODS TO ENHANCE FOOD SECURITY AND NUTRITION IN THE DRYLANDS

Drylands cover more than half sub-Saharan Africa and are home to nearly 50 percent of the region's people. Waterbodies in these areas are unstable and strongly pulsed ecosystems characterized by productive and resilient opportunistic fish species. These species have “boom and bust” fluctuations adapted to strong environmental disturbances. They play important roles in local livelihoods but are mostly unrecorded in official catch statistics. This review documents the resilience to climatic variability of fish resources in the sub-Saharan drylands and examines the potential for increasing their supply through the improved use of available waterbodies, especially small reservoirs.

Rome, 2016  
ISBN 978-92-5-109219-4  
64 pp., 210 x 297 mm  
Price available on request, Paperback  
Available in: English

## THE STATE OF MEDITERRANEAN AND BLACK SEA FISHERIES 2016

This report is a comprehensive analysis of the fisheries sectors in the Mediterranean and the Black Sea. It sheds light on the extent and composition of fishing fleets, the production and socio-economic characteristics of fisheries, the composition and volume of discards, the incidental catch of vulnerable species, and the status of stocks. The report is intended to be a flagship publication of the General Fisheries Commission for the Mediterranean for the regular dissemination of information on fisheries in the region and to support decision-making.



Rome, 2016  
ISBN 978-92-5-109159-3  
152 pp., 210 x 297 mm  
Price available on request  
Paperback  
Available in: English



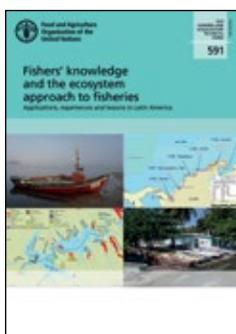
Rome, 2015  
ISBN 978-92-5-108809-8  
217 pp., 148 x 210 mm  
Price available on request,  
Paperback  
Also in e-book format  
Available in:  
English

## FISHING OPERATIONS

### 3. BEST PRACTICES TO IMPROVE SAFETY AT SEA IN THE FISHERIES SECTOR

These guidelines support the implementation of the Code of Conduct for Responsible Fisheries with regard to safety at sea in the fisheries sector. Their aim is to assist authorities in developing and implementing strategies on safety, health and the conditions of service at sea in capture fisheries and aquaculture operations. They apply to all commercial fishing activities, as well as activities at sea within the aquaculture sector. Although the guidelines are not directed at sport and recreation in aquatic environments, the safety and health aspects will also be useful for administrators responsible for such sectors.

## FISHERIES AND AQUACULTURE



### FISHERS' KNOWLEDGE AND THE ECOSYSTEM APPROACH TO FISHERIES

This publication presents reviews and case studies from Latin American countries on fishers' knowledge and its application to fisheries management under the ecosystem approach to fisheries (EAF). The papers convey the types of knowledge that fishers possess, how that knowledge is created and used and can contribute to EAF data requirements. They also present potential methods and institutional approaches for integrating fishers' knowledge into fisheries science and management. The publication addresses the role of government and legal frameworks in the context of both marine and inland fisheries.

Rome, 2015  
ISBN 978-92-5-108791-6  
278 pp., 210 x 297 mm  
Price available on request, Paperback  
Available in: English

### SOCIAL PROTECTION AND SUSTAINABLE NATURAL RESOURCES MANAGEMENT

INITIAL FINDINGS AND GOOD PRACTICES FROM SMALL-SCALE FISHERIES

Using small-scale fisheries as an illustrative case, this publication explores how social protection interventions can be used to reduce the vulnerability, and strengthen the resilience, of households and communities who depend on renewable natural resources for their livelihoods and food security. It reviews existing social protection policies, schemes and instruments for their potential role in supporting the transition to sustainable natural resource management in fisheries, showing that small-scale fishers and fishworkers are typically inadequately protected. It identifies five dimensions of the vulnerability of small-scale fishers and fishworkers, and draws preliminary conclusions.



Rome, 2015  
ISBN 978-92-5-108772-5  
72 pp., 210 x 297 mm  
Price available on request  
Paperback  
Available in: English



### TOWARDS THE IMPLEMENTATION OF THE SSF GUIDELINES

Small-scale fisheries are at the heart of FAO's goals of food security, poverty alleviation and natural resource management. This publication reports the outcomes of a workshop convened following the endorsement of the Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries in the Context of Food Security and Poverty Eradication (the "SSF Guidelines") by the FAO Committee on Fisheries. It provides guidance on consolidating the approach to implementing the guidelines and confirms FAO's role in supporting and facilitating such implementation.

Rome, 2015  
ISBN 978-92-5-108855-5  
95 pp., 210 x 297 mm  
Price available on request  
Paperback  
Available in: English



## AQUATIC INVASIVE ALIEN SPECIES

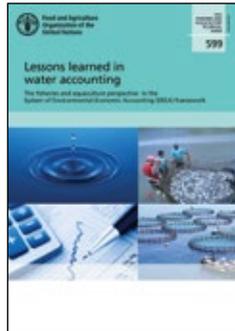
TOP ISSUES FOR THEIR  
MANAGEMENT

The European Union published a new regulation in 2014 to address invasive alien species (IAS) and protect biodiversity.

Beforehand, an international conference was held in Ireland in April 2013 to consolidate the views of IAS experts worldwide on the major IAS issues in Europe.

This publication reports the outcomes of that meeting. Among other things, the meeting developed a list of the "top 20 IAS issues", which will support policy-makers throughout the European Union as preparations are made to implement this important regulation.

Rome, 2015  
ISBN 978-92-5-108790-9  
74 pp., 210 x 297 mm  
Price available on request,  
Paperback  
Available in: English



Rome, 2016  
ISBN 978-92-5-109319-1  
82 pp., 210 x 297 mm  
Price available on request  
Paperback  
Also in e-book format  
Available in: English

## LESSONS LEARNED IN WATER ACCOUNTING

THE FISHERIES AND  
AQUACULTURE PERSPECTIVE

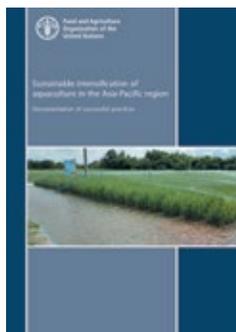
The United Nations Statistical Commission endorsed the System of Environmental-Economic Accounting (SEEA) as an international standard in 2012; it contains standard concepts, definitions, classifications, accounting rules and accounting tables for producing internationally comparable statistics. This document examines the accounting tables designed by the SEEA accounting framework and investigates the capacity of the SEEA to reflect the dependence of the fisheries sector on water resources and to account for water uses and requirements in fisheries and aquaculture.



Bangkok, 2015  
ISBN 978-92-5-109046-6  
152 pp., 210 x 297 mm  
Price available on request  
Paperback  
Available in: English

## RESPONSIBLE STOCKING AND ENHANCEMENT OF INLAND WATERS IN ASIA

Stocking through formal stocking programmes is generally recognized as a key tool to compensate for losses in fish productivity and species diversity. If conditions are conducive and enhancement measures well-designed, such programmes will increase fisheries yields for food or income. In practice, many enhancements are ineffective and some have caused demonstrable ecological damage. A major weakness of many such programmes in Asia is their failure to evaluate fully the outcomes of the activity in terms of benefits as well as adverse impacts. This document provides guidance for developing and evaluating stocking programmes, with the aim of assisting those who work in this area throughout Asia.



## SUSTAINABLE INTENSIFICATION OF AQUACULTURE IN THE ASIA-PACIFIC REGION

DOCUMENTATION OF SUCCESSFUL PRACTICES

Fish supply over 20 percent of animal protein in the diet of the Asian population and 60 percent of this is from aquaculture. In addition, Asia is the most important supplier to the global seafood trade, and Asian aquaculture accounts for the majority of the traded seafood commodities. It is expected that increased population growth and further economic development will lead to increased fish consumption. As a consequence, the global demand for food fish is expected to increase by 30–40 million tonnes by 2030 from the current level. The publication aims to raise awareness about sustainable intensification of aquaculture, highlighting innovative practices in the Asia-Pacific region. It is expected to serve as an important benchmark and contribute to regional and global food security and rural livelihood development.

Bangkok, 2016  
ISBN 978-92-5-109065-7  
170 pp., 210 x 297 mm  
Price available on request, Paperback  
Available in: English

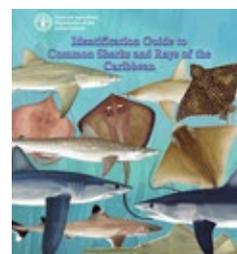
## FISHERIES AND AQUACULTURE

### IDENTIFICATION GUIDE TO COMMON SHARKS AND RAYS OF THE CARIBBEAN

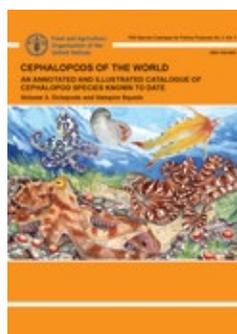
This identification guide features 41 shark species and 20 ray species identified as most relevant to commercial fisheries or most vulnerable to exploitation in the Caribbean Sea, the Gulf of Mexico, and the adjacent waters of the Atlantic Ocean.

The guide will assist fishery workers collecting catch data in the field to identify sharks and rays, thereby improving the quality of data on catches and landings.

It is likely to also be useful for fisheries inspectors, observers and enforcement officers in navies, coastguards and customs agencies.



Rome, 2016  
ISBN 978-92-5-109245-3  
80 pp., 145 x 155 mm  
USD 100.00, Ring-bound  
Also in e-book format

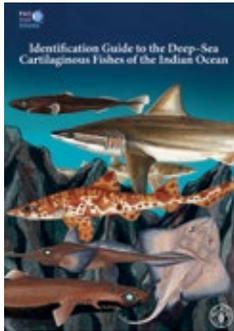


### CEPHALOPODS OF THE WORLD

AN ANNOTATED AND ILLUSTRATED CATALOGUE OF CEPHALOPOD SPECIES KNOWN TO DATE

This is the third volume of the entirely rewritten, revised and updated version of the original (1984) FAO Catalogue of Cephalopods of the World. It provides accounts of, and illustrated keys for, 13 cephalopod families, comprising 56 genera and the 280 species known and named at the date of publication. The volume includes sections on terminology and measurements, an extensive glossary, an updated review of existing biological knowledge on octopods and vampire squids, and a dedicated bibliography.

Rome, 2014  
ISBN 978-92-5-107989-8  
398 pp., 210 x 297 mm  
USD 80.00, Paperback  
Also in e-book format  
Available in: English



Rome, 2015  
 ISBN 978-92-5-108777-0  
 76 pp., 210 x 295 mm  
 USD 130.00, Ring-bound  
 Available in: English

## IDENTIFICATION GUIDE TO THE DEEP-SEA CARTILAGINOUS FISHES OF THE INDIAN OCEAN

This guide includes a selection of species of relevance to fisheries as well as species that may be of research, educational and ecological importance. The Indian Ocean deep-sea chondrichthyan fauna is currently represented by 117 shark, 61 batoid and 17 chimaera species. This guide includes full species accounts for 36 shark species selected as being the more difficult to identify and/or commonly caught. Each species is described, depicted with a colour illustration and photo, and key distinguishing features of similar-looking species occurring in the same area are highlighted to enable easy and accurate identification in the field. An additional 16 unusual or little-known shark species are displayed with a simplified account, line drawing and indications useful for their correct identification. Finally, short accounts of 52 shark species that could be misidentified with more common species occurring in the area are also included.

This laminated edition is water-resistant and will serve as a convenient handbook on board.

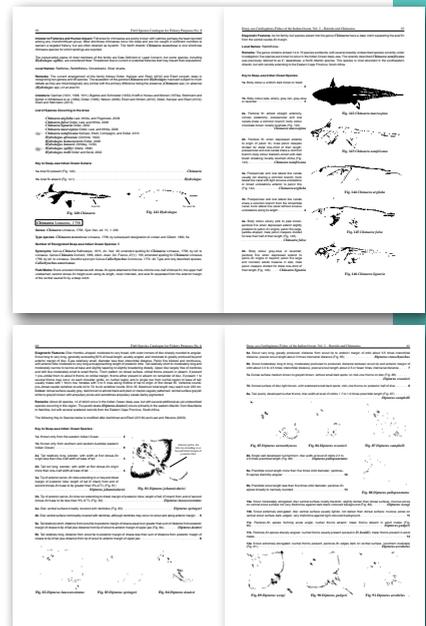
## DEEP-SEA CARTILAGINOUS FISHES OF THE INDIAN OCEAN

This volume is a comprehensive, fully illustrated catalogue of the sharks, batoid fishes, and chimaeras of the Indian Ocean. It includes 10 orders, 23 families, 45 genera, and 78 species of cartilaginous fishes, providing accounts for all orders, families and genera, and all keys to taxa are fully illustrated. A species representative account of each genus is also provided and includes: valid modern names and original citation of the species; synonyms; the English, French, and Spanish names for the species; a lateral view and often other useful illustrations; field marks; diagnostic features; distribution, including a GIS map; habitat; biology; size; interest to fisheries and human impact; local names when available; a remarks sections; and literature.



The volume is fully indexed and also includes sections on terminology and measurements, an extensive glossary, and a dedicated bibliography.

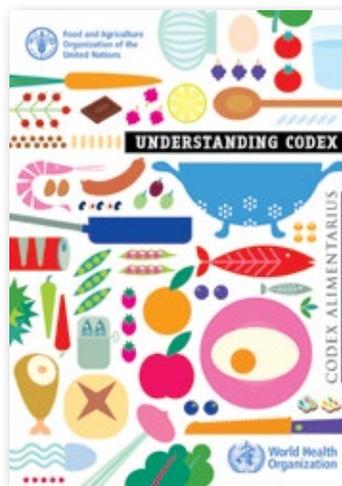
Rome, 2015  
 ISBN 978-92-5-108771-8  
 252 pp., 210 x 297 mm  
 USD 80.00, Ring-bound  
 Available in: English





**Food availability and waste, food safety, nutrition and other key food-related questions.**

## FOOD AND NUTRITION



Rome, 2016 (4th edition)  
 ISBN 978-92-5-109236-1  
 56 pp., 210 x 297 mm  
 Price available on request, Paperback  
 Available in: English, Russian (forthcoming)

## UNDERSTANDING CODEX CODEX ALIMENTARIUS

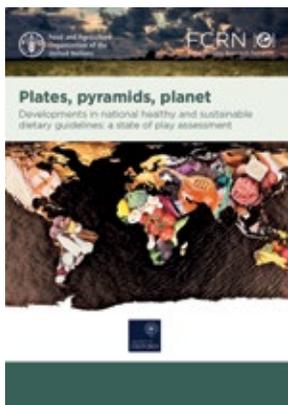
This publication presents the Codex Alimentarius Commission, what it is and how it works. Established by FAO and WHO in the 1960s, it has become the most important international reference point for developments associated with food standards.

Throughout much of the world, an increasing number of consumers and governments are becoming aware of food quality and safety issues and are realizing the need to be selective about the foods being consumed. It is now common for consumers to demand that their governments take legislative action to ensure that only safe food of acceptable quality is sold and that the risk of food-borne health hazards is minimized.



**LEMPIRA SUR, SAN JUAN GUARITA, HONDURAS**

Pupils line up to eat at the Francisco Navarro School.  
 ©FAO/G. Bizzarri



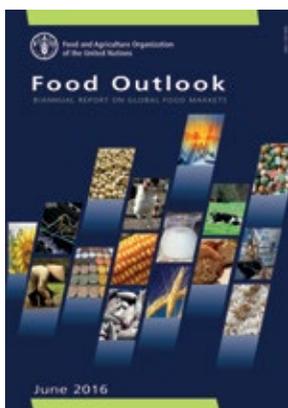
FAO & Oxford University Press,  
Rome, 2016  
ISBN 978-92-5-109222-4  
78 pp., 210 x 297 mm  
Price available on request,  
Paperback  
Available in: English

## PLATES, PYRAMIDS, PLANET

DEVELOPMENTS IN NATIONAL HEALTHY AND SUSTAINABLE DIETARY GUIDELINES: A STATE OF PLAY ASSESSMENT

Our food systems and consumption practices have shaped and transformed our world and our societies since prehistoric times. There have been enormous advances – in agricultural practice and systems of storage, distribution and retailing – that have enabled population growth and improved the diets of many. But these developments have also carried severe costs. Although the tools

and actions needed to achieve the necessary changes in diets are many, this report specifically considers the role of national-level dietary guidelines in providing a guide to dietary patterns that are both healthy and sustainable.



## FOOD OUTLOOK

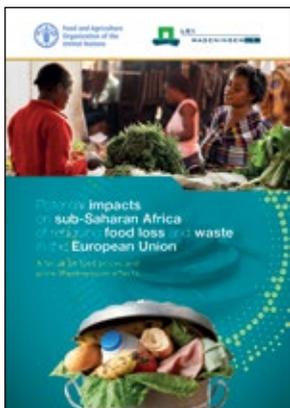
BIENNIAL REPORT ON GLOBAL FOOD MARKETS

This issue includes a special features section, "Pulses: A multi-faceted crop", which presents statistics and information on the production, consumption and trade of pulses, their contributions to environmental sustainability, and their nutritional benefits. The issue reports that global food commodity markets are broadly stable, supported by adequate supplies, and there are favourable prospects for continued stability in 2016/17.

Despite larger volumes of imports, the world food import bill is set to decline by 9 percent in 2016 to a seven-year low, on expectations of lower international prices and freights.

Rome, 2016  
ISSN 0251-1959  
139 pp., 210 x 297 mm  
USD 30.00, Paperback  
Available in: Arabic, Chinese, English,  
French, Russian, Spanish

## FOOD AND NUTRITION



Rome, 2015  
 ISBN 978-92-5-109028-2  
 64 pp., 210 x 297 mm  
 Price available on request,  
 Paperback  
 Also in e-book format  
 Available in: English

### POTENTIAL IMPACTS ON SUB-SAHARAN AFRICA OF REDUCING FOOD LOSS AND WASTE IN THE EUROPEAN UNION

A FOCUS ON FOOD PRICES AND PRICE TRANSMISSION EFFECTS

This publication uses scenario analyses to investigate how reductions in food loss and waste in the European Union could influence food prices in sub-Saharan Africa. In addition to a baseline “business as usual” scenario, four scenarios with 50-percent reductions are enacted using the Modular Applied General Equilibrium Tool. The analysis provides insights on potential impacts

in terms of medium-to-long-term global and local price changes in sub-Saharan Africa and the mechanisms behind them. It also examines potential impacts on welfare.

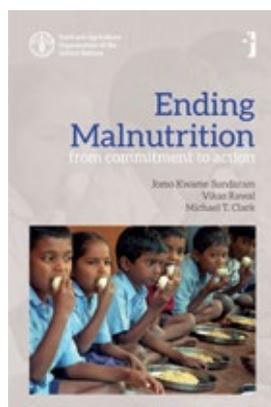
## FOOD WASTAGE FOOTPRINT

IMPACTS ON NATURAL RESOURCES  
 SUMMARY REPORT

About one-third of all food produced worldwide for human consumption is lost or wasted each year – representing a missed opportunity to improve global food security and mitigate the environmental impacts of food chains. This study provides the first global account of the environmental footprint of food waste along the food supply chain, focusing on impacts on climate, water, land and biodiversity. By demonstrating the magnitude of the environmental footprint of food waste by region, commodity and phases of the food supply chain, the report will help in prioritizing actions for meeting this global challenge.



Rome, 2013  
 ISBN 978-92-5-107752-8  
 63 pp., 180 x 180 mm  
 USD 30.00, Paperback  
 Available in: English



Rome, 2015  
 ISBN 978-92-5-108872-2  
 195 pp., 155 x 240 mm  
 Price available on request,  
 Paperback  
 Available in: English

## ENDING MALNUTRITION

FROM COMMITMENT TO ACTION

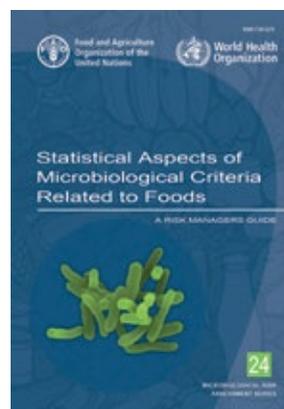
This publication reviews evidence on the prevalence of malnutrition and analyses policy issues crucial for a concerted global effort to end malnutrition. These issues include: improving food systems at the core of a sustainable nutrition strategy; promoting social protection to improve welfare; using fortification and supplementation to address

micronutrient deficiencies; and improving access to water and sanitation. Drawing on the Second International Conference on Nutrition, the book concludes by examining the key role of multilateral institutions in accelerating global progress on nutrition in the context of the post-2015 sustainable development agenda.

## STATISTICAL ASPECTS OF MICROBIOLOGICAL CRITERIA RELATED TO FOODS

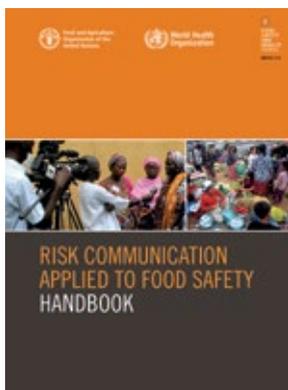
Microbiological criteria have been used in food production and the food regulatory context for many years. While the food-specific aspects of microbiological criteria are well understood, the mathematical and statistical aspects are often less well appreciated, which hinders their application in the food industry.

This document aims to illustrate the important mathematical and statistical aspects of microbiological criteria, but with minimal statistical jargon, equations and mathematical details. Thus, it makes the subject more accessible to a broad audience, including food business operators, quality assurance managers, food safety policy-makers and risk managers.



Rome, 2016  
 ISBN 978-92-5-108516-5  
 145 pp., 210 x 297 mm  
 Price available on request,  
 Paperback  
 Available in: English

## FOOD AND NUTRITION



Rome, 2016  
 ISBN 978-92-5-109313-9  
 98 pp., 210 x 297 mm  
 Price available on request  
 Paperback  
 Also in e-book format  
 Available in: English

### RISK COMMUNICATION APPLIED TO FOOD SAFETY

#### HANDBOOK

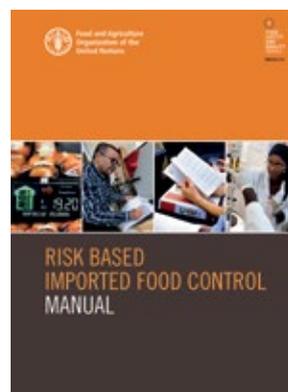
This handbook focuses on practical principles and communication practices to support risk management of adverse food safety (including quality) events associated with biological, chemical and physical hazards. Its focus is on the use of risk communication in the process of risk analysis to manage both emergency food safety risks (e.g. food-borne illness outbreaks) and non-emergency or more enduring food safety issues (e.g. food safety and health promotion campaigns).

### RISK BASED IMPORTED FOOD CONTROL

#### MANUAL

This manual aims to support competent authorities in improving the effectiveness of the control measures they are overseeing. It discusses the different types of approach to managing risks related to imported food, and provides concrete illustrations of how Codex Alimentarius guidelines can be implemented in different ways.

While respecting the principles, guidance and objectives agreed by the Codex Alimentarius Commission, different options for control measures can be selected and combined to implement a coherent set of import controls to best fit the needs of each country. The publication provides insights on legal and institutional frameworks, as well as on the necessary support services to effectively implement risk based food controls.



Rome, 2016  
 ISBN 978-92-5-109070-1  
 169 pp., 210 x 297 mm  
 Price available on request,  
 Paperback  
 Available in: English



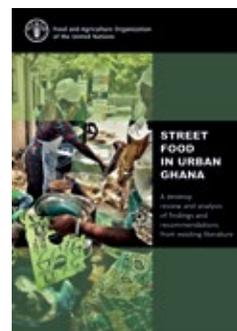
## COMPENDIUM OF FOOD ADDITIVE SPECIFICATIONS

This document contains food additive specification monographs, analytical methods, and other information prepared at for the Joint FAO/WHO Expert Committee on Food Additives (JECFA), meeting held in June 2015. The specification monographs provide information on the identity and purity of food additives used directly in foods or in food production. The main three objectives of these specifications are to identify the food additive that has been subjected to testing for safety, to ensure that the additives are of the quality required for use in food or in processing and to reflect and encourage good manufacturing practice. This publication will be useful to all those who work with or are interested in food additives and their safe use in food.

FAO & WHO  
Rome, 2016  
ISBN 978-92-5-108929-3  
88 pp., 210 x 297 mm  
USD 55.00, Paperback  
Available in: English

## STREET FOOD IN URBAN GHANA

In Africa, street food vending and consumption have proliferated in the last 35 years. People who face barriers to the formal wage labour market find street food vending a viable income option, requiring little start-up capital and no formal education. In addition, the commuting distances and pace of life in developing cities make street food the best option for people looking for inexpensive, quick and nutritious food out of the house. However, despite its nutritional, economic and social importance, street food is undermined by food safety issues, poor nutritional variety, widespread informality and policy gaps. This publication presents findings from existing literature and makes recommendations to improve policy frameworks, food safety, nutrition quality, and vendors' livelihoods and working conditions.



Accra, 2016  
ISBN 978-92-5-109304-7  
90 pp., 210 x 297 mm  
Price available on request  
Paperback  
Available in: English



Rome, 2013  
ISBN 978-92-5-107595-1  
201 pp., 210 x 297 mm  
USD 40.00, Paperback  
Also in e-book format  
Available in: English,  
French, Korean

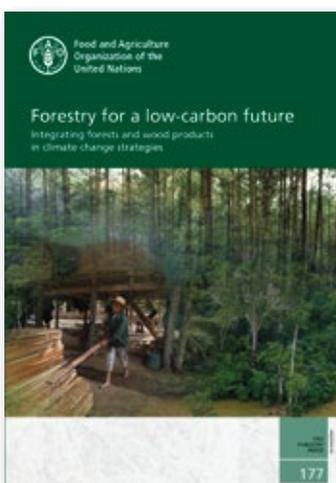
## EDIBLE INSECTS

FUTURE PROSPECTS FOR FOOD AND FEED SECURITY

Traditionally, most edible insects have been gathered from forest habitats, but innovation in mass-rearing systems has begun in many countries, both developed and developing, presenting opportunities for merging traditional knowledge and modern science.

The roots of this publication lie in an effort to recognize traditional practices and document their ecological impacts on forest habitats. It has developed into a broad-based effort to examine the multiple dimensions of insect gathering and rearing, for both food and feed, as a viable option for increasing food security and incomes. Drawing on a wide range of research studies, the publication highlights the valuable role of insects in sustaining nature and human life.

The FAO Forestry Papers series covers topical issues for forestry, from tenure to fire management to phytosanitary standards.



## FORESTRY FOR A LOW-CARBON FUTURE

INTEGRATING FORESTS AND WOOD PRODUCTS IN CLIMATE CHANGE STRATEGIES

Forests and forest products offer a wide range of avenues for timely and cost-effective climate change mitigation. Afforestation and restoration activities, as well as reducing deforestation, are well-known options. In addition, wood products and wood energy can replace fossil-intensive products in other sectors, creating a virtuous cycle towards low-carbon economies. The mitigation potential and costs of the various options differ greatly by activity, region, system boundaries and time horizon. This publication will help policy-makers decide on the optimal mix, adapted to local circumstances, for meeting national climate change and development goals.

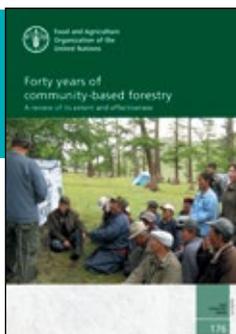
Rome, 2016  
ISBN 978-92-5-109312-2  
80 pp., 176 x 250 mm  
USD 30.00, Paperback  
Available in: English

Covering the full range of social, economic and environmental aspects of forestry.

### GRENADA

The Ceiba tree, a giant among tropical forest trees. Its products are used for medicinal purposes.

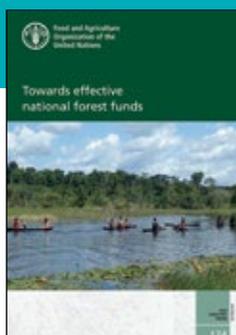
©FAO/G. Bizzarri



## FORTY YEARS OF COMMUNITY-BASED FORESTRY

Various forms of community-based forestry have evolved over time, but all have at their heart the notion of community participation in planning and implementation. This publication is FAO's first comprehensive look at the impact of community-based forestry since reviews in 1991 and 2001, and it considers both collaborative regimes and smallholder forestry. Targeted at policy-makers, practitioners, researchers, communities and civil society, the report examines the extent of community-based forestry globally and regionally and assesses its effectiveness in delivering key biophysical and socio-economic outcomes.

Rome, 2016  
 ISBN 978-92-5-109095-4  
 168 pp., 176 x 250 mm  
 USD 35.00, Paperback  
 Also in e-book format  
 Available in: English, Spanish

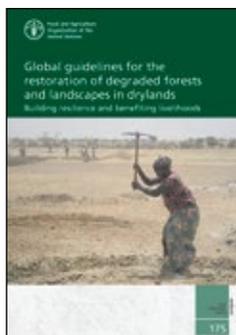


Rome, 2015  
 ISBN 978-92-5-108706-0  
 168 pp., 176 x 250 mm  
 USD 35.00, Paperback  
 Available in:  
 English, French

## TOWARDS EFFECTIVE NATIONAL FOREST FUNDS

Forests play crucial roles in addressing climate change, food security and poverty alleviation. Yet financing sustainable forest management remains a challenge. It entails more than just raising money for responsibly managed investment, requiring also a more diverse financial basis.

This publication describes the catalytic role of national forest funds in channelling investment, arguing that more information is needed on how they work. It provides insight into how to design and operate such funds to meet countries' specific requirements.

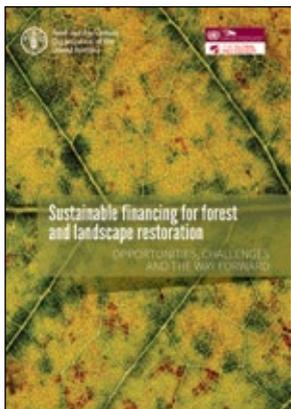


Rome, 2015  
 ISBN 978-92-5-108912-5  
 149 pp., 176 x 250 mm  
 USD 35.00, Paperback  
 Also in e-book format  
 Available in:  
 English, French

## GLOBAL GUIDELINES FOR THE RESTORATION OF DEGRADED FORESTS AND LANDSCAPES IN DRYLANDS

BUILDING RESILIENCE AND BENEFITING LIVELIHOODS

Drylands cover nearly half of the earth's land surface and are home to one-third of the global population. They face major challenges, including desertification, biodiversity loss, poverty, food insecurity and climate change. Serious efforts are needed to arrest dryland degradation and restore degraded lands, and the simple but urgent aim of this first set of global guidelines on dryland restoration is to support such efforts. The guidelines target two main groups – policy-makers and other decision-makers, and practitioners – because both have the power to bring about positive change.



Rome, 2015  
 ISBN 978-92-5-108992-7  
 131 pp., 210 x 297 mm  
 Price available on request  
 Paperback  
 Available in: English

## SUSTAINABLE FINANCING FOR FOREST AND LANDSCAPE RESTORATION

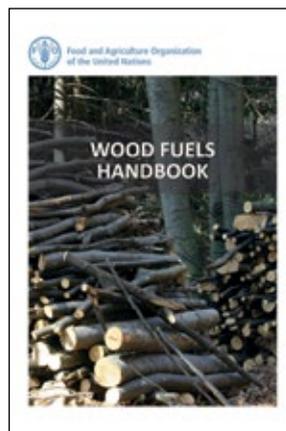
FINANCING OPPORTUNITIES, CHALLENGES  
 AND THE WAY FORWARD

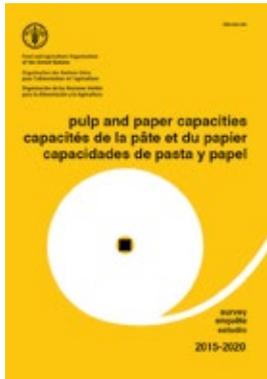
This publication provides an overview of existing funding sources and financial instruments that could be used and adapted for the implementation of forest and landscape restoration (FLR) efforts at the national, regional and global levels. It identifies innovative financing mechanisms to support the achievement of global FLR targets and discusses the main challenges for enhancing financing. It will help stakeholders better understand the financial architecture and identify areas that need further action to unlock the potential of sustainable financing mechanisms for FLR.

## WOOD FUELS HANDBOOK

Wood is the most important source of energy for the majority of households in southeastern Europe. Logs comprise the main form of wood energy consumed in the subregion, but wood pellets are used in larger towns, and wood chips are slowly entering the market. This handbook is a source of useful information for woodfuel users and producers. It seeks to support modern, technology-led growth in the wood biomass sector in southeastern Europe.

Pristina, 2015  
 ISBN 978-92-5-108728-2  
 40 pp., 182 x 257 mm  
 Price available on request, Paperback  
 Available in: Albanian, English, Serbian





## PULP AND PAPER CAPACITIES SURVEY 2015-2020

This publication presents the annual FAO survey of world pulp and paper capacities, based on figures received electronically from correspondents in many countries. It includes: country tables for pulp and paper; grade tables for each product and product aggregate code showing the volume of production capacity by country; and production tables by country.

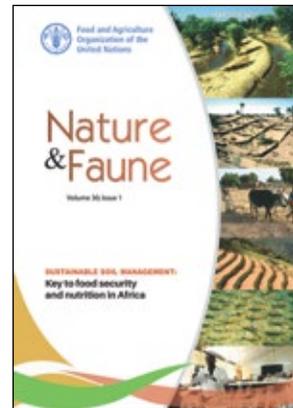
Rome, 2016  
 ISBN 978-92-5-009338-3  
 184 pp., 210 x 297 mm  
 USD 50.00, Paperback  
 Available in: English, French,  
 Spanish (trilingual)

## NATURE & FAUNE: SUSTAINABLE SOIL MANAGEMENT

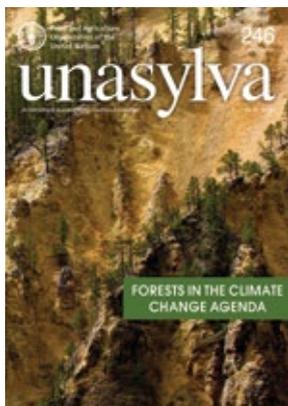
KEY TO FOOD SECURITY AND NUTRITION IN AFRICA  
 VOLUME 30, ISSUE 1

This special issue of the journal contains about 30 papers from various African countries, providing a panorama of insights into the challenges of sustainable soil management in Africa, from surveys and assessments to soil fertility management.

Nature & Faune is a peer-reviewed, open-access, international publication of the FAO Regional Office for Africa. Its aims are to disseminate scientific and technical knowledge, and to promote the exchange of experiences on wildlife, protected area management and the sustainable use and conservation of natural resources in Africa.



Accra, 2016  
 ISSN 2026-5611  
 210 x 297 mm  
 Price available on request  
 Paperback  
 Available in:  
 English, French (bilingual)



Rome, 2016  
ISSN 0041-6436  
70 pp., 210 x 297 mm  
USD 18.00, Paperback  
Available in:  
English, French, Spanish

## FORESTS IN THE CLIMATE CHANGE AGENDA

ISSUE 246

Where do forests and forestry stand today in international climate change negotiations? What exactly does it mean to reduce emissions from deforestation and forest degradation (REDD+)? What are the opportunities and risks for forests in today's changing climate and is there a clear path forward? The articles in this issue address these and other questions.

## XIV WORLD FORESTRY CONGRESS

ISSUE 247

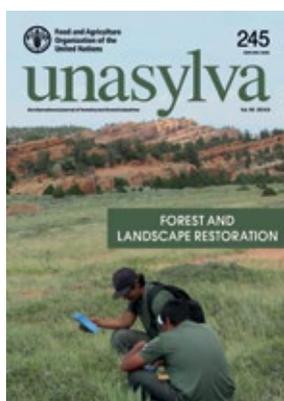
Nearly 4 000 participants from 142 countries, including the world's leading forestry experts, met at the XIV World Forestry Congress held in September 2015 in Durban, South Africa, for a broad and inclusive discussion on the issues facing forestry today.

About 200 papers were delivered at the Congress. This edition of **Unasyuva** presents some of the best of them, covering subjects ranging from gender to value chains to tenure. It also provides an overview of the Congress outcomes and the long-term vision that emerged, emphasizing the fundamental role of forests in the development agenda.



Rome, 2016  
ISSN 0041-6436  
100 pp., 210 x 297 mm  
USD 18.00, Paperback  
Available in:  
English, French, Spanish  
(forthcoming November 2016)

Rome, 2015  
 ISSN 0041-6436  
 116 pp., 210 x 297 mm  
 USD 18.00, Paperback  
 Available in: English, French, Spanish



## FOREST AND LANDSCAPE RESTORATION

ISSUE 245

To succeed, restoration initiatives need to engage a range of stakeholders, from policy-makers to local communities and from governments to the private sector. This issue brings together case studies from different continents and biomes to map the progress made in forest and landscape restoration and the challenges that lie ahead. It covers approaches ranging from “close-to-nature” planted forests in China to Africa’s Great Green Wall for the Sahara and the Sahel Initiative.



## FORESTS, TREES AND DISASTERS

ISSUE 243–244

This double issue of **Unasyvla** teases out the complex interrelationships between forests, trees and disasters, and examines the ways in which forests and trees can best be managed to resist shocks and to protect from shocks. Forests and trees have a powerful role to play in protecting against disasters and reducing their impacts. The long-term perspective implicit in sustainable forest management is also a valuable approach to planning for disaster risk reduction.

Rome, 2015  
 ISSN 0041-6436  
 104 pp., 210 x 297 mm  
 USD 25.00, Paperback  
 Available in: English, French, Spanish



Informing policy and practices to ensure equitable agriculture and rural development for women and men.

## GENDER

### RUNNING OUT OF TIME

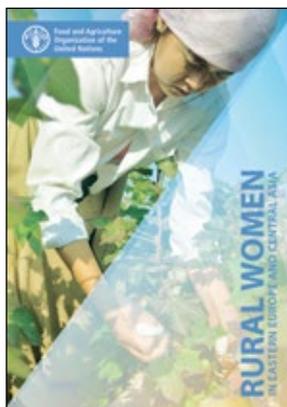
#### THE REDUCTION OF WOMEN'S WORK BURDEN IN AGRICULTURAL PRODUCTION

Rome, 2015  
ISBN 978-92-5-108810-4  
46 pp., 210 x 297 mm  
Price available on request  
Paperback

Available in: Arabic, Chinese, English, French, Italian, Russian, Spanish



This publication discusses rural women's time poverty in agriculture, elaborates on its possible causes and implications, and provides insight into the constraints affecting the adoption of solutions for reducing the work burden. Based on a literature review, it examines the labour-saving technologies, practices and services available to support women to better address the demands on their time and improve their well-being. It also presents an overview of successfully tested technologies, services and resource management practices in the context of water, energy, information and communication



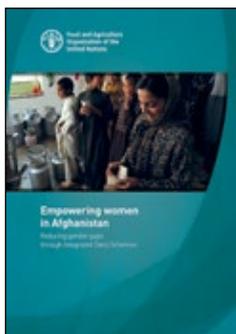
### RURAL WOMEN IN EASTERN EUROPE AND CENTRAL ASIA

This publication assesses the gender gap in the agriculture sector in the countries covered by the FAO Regional Office for Europe and Central Asia. It uses data on rural populations and households, education, the agricultural labour force, fisheries and aquaculture, livestock, and access to productive resources such as land, fertilizers, machinery and credit. The report presents empirical evidence from many countries showing that women face a consistent gender gap in gaining access to productive assets, inputs and services, and that closing this gap could result in significant gains.

Rome, 2015  
ISBN 978-92-5-108412-0  
60 pp., 210 x 297 mm  
Price available on request,  
Paperback  
Also in e-book format  
Available in: English, Russian

#### SIERRA LEONE

The chairwoman of a local agri-business centre on a community cabbage plot.  
©FAO/S. Liste/NOOR for FAO



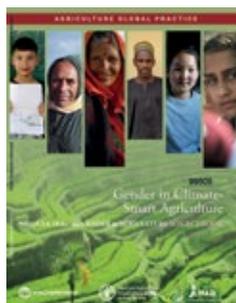
## EMPOWERING WOMEN IN AFGHANISTAN

REDUCING GENDER GAPS THROUGH INTEGRATED DAIRY SCHEMES

Milk and dairy products are crucial for the food security and income generation of Afghan families, and women play an important role. FAO has been implementing the Integrated Dairy Schemes (IDS) Project since 2005 to improve food security in Afghanistan by supporting the national dairy sector. This publication draws on evidence showing the multiple benefits of the project for gender equality and women's empowerment.

The IDS can be seen as a first stepping stone for a large number of rural women to start establishing a better place for themselves in Afghan society.

Rome, 2015  
 ISBN 978-92-5-108790-9  
 74 pp., 210 x 297 mm  
 Price available on request, Paperback  
 Available in: English



Rome, 2015  
 96 pp., 216 x 280 mm  
 Price available on request, Paperback  
 Available in: English

## GENDER IN CLIMATE-SMART AGRICULTURE

MODULE 18 FOR THE GENDER IN AGRICULTURE SOURCE-BOOK

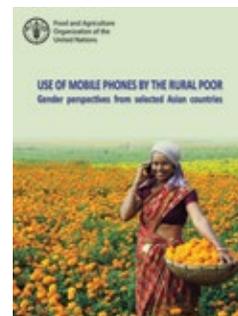
In 2009, FAO, the World Bank and the International Fund for Agricultural Development published the *Gender in Agriculture Source-book* as a practical reference for those working in the field of development – in which gender issues remain a core challenge. This latest module of the source-book provides a comprehensive menu of practical tools and guidance for integrating gender in the planning, design, implementation and evaluation of projects and investments in climate-smart agriculture.

## USE OF MOBILE PHONES BY THE RURAL POOR

GENDER PERSPECTIVES FROM SELECTED ASIAN COUNTRIES

Mobile phones have been shown (although not uniformly) to contribute positively in various ways to rural development, from reducing information asymmetry and improving functional networks to increasing access to services and finance. Yet, although women comprise 43 percent of the world's agricultural labour force, a digital gender divide exists that can inhibit rural development.

Despite substantial exploration of this digital gender divide in the literature, the answers to questions regarding differential access and use of information and communication technologies have remained mostly inconclusive until now. This study aims to clarify the picture and identify the information needs of the rural poor through gender-disaggregated statistics.



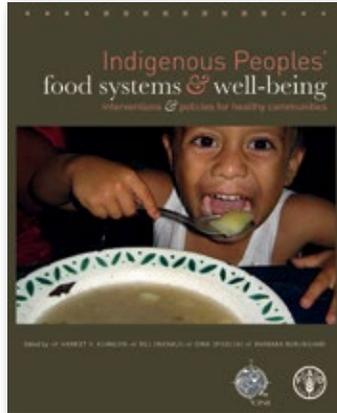
FAO, IRCD & IIRNEasia,  
 Bangkok, 2016  
 ISBN 978-92-5-109145-6  
 68 pp., 178 x 241  
 Price available on request  
 Available in: English

THEMES



**Ensuring that indigenous voices and concerns are part of the agricultural development agenda.**

**INDIGENOUS PEOPLES**



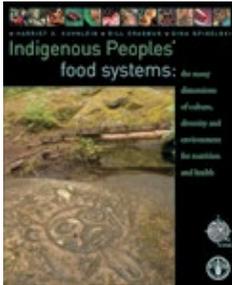
**INDIGENOUS PEOPLES' FOOD SYSTEMS & WELL-BEING**

INTERVENTIONS AND POLICIES FOR HEALTHY COMMUNITIES

This is the third book in a series promoting the use of local food systems by indigenous peoples. It presents findings from more than 40 interdisciplinary collaborators who created health promotion interventions for communities using local food systems. It describes participatory processes using local knowledge and activities specifically for local food. It also provides global overviews of indigenous peoples' health circumstances, environmental concerns, and infant and child feeding practices; and presents nine case examples from Canada, Colombia, the Federated States of Micronesia, India, Japan, Peru and Thailand.

Rome, 2013  
 ISBN 978-92-5-107433-6  
 437 pp., 205 x 250 mm  
 USD 86.00, Paperback  
 Available in: English



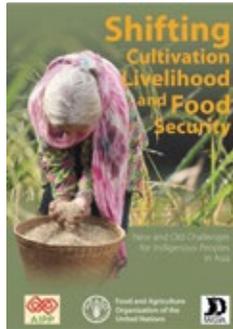


### INDIGENOUS PEOPLES' FOOD SYSTEMS

THE MANY DIMENSIONS OF CULTURE, DIVERSITY AND ENVIRONMENT FOR NUTRITION AND HEALTH

The food systems of indigenous peoples who retain their connection to long-evolved cultures are treasures of knowledge that contribute to well-being and can benefit all humankind. This book describes the diversity in food system use, nutrition and health in 12 case studies of indigenous peoples in Canada, Colombia, the Federated States of Micronesia, India, Japan, Kenya, Nigeria, Peru and Thailand as a window to the circumstances of indigenous peoples globally. It shows the inherent strengths of local traditional food systems, how people think about and use these foods, and the circumstances of the nutrition transition in indigenous communities.

Rome, 2009  
ISBN 978-92-5-106071-1  
381 pp., 205 x 250 mm  
USD 89.00, Paperback  
Available in: English

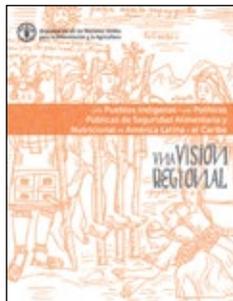


### SHIFTING CULTIVATION, LIVELIHOOD AND FOOD SECURITY

NEW AND OLD CHALLENGES FOR INDIGENOUS PEOPLES IN ASIA

Shifting cultivation is an agricultural system in which plots of land are cultivated temporarily, then abandoned and allowed to revert to their natural vegetation as the cultivator moves to other plots. This book highlights the importance of shifting cultivation in the livelihoods and food security of indigenous peoples in Asia. Case studies in seven countries show how shifting cultivation is still a viable form of land use in upland areas in Asia.

Bangkok, 2015  
ISBN 978-92-5-108761-9  
434 pp., 210 x 297 mm  
Price available on request, Paperback  
Available in: English



### PUEBLOS INDÍGENAS Y POLÍTICAS PÚBLICAS DE SEGURIDAD ALIMENTARIA Y NUTRICIONAL EN AMÉRICA LATINA Y EL CARIBE

UNA VISIÓN REGIONAL

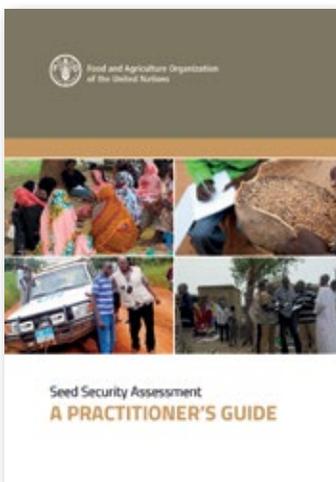
It is estimated that the indigenous population of Latin America totals some 44 million people in more than 800 ethnic groups. This publication documents FAO's efforts in the region to bridge gaps in inequality and discrimination that have so far prevented indigenous peoples from realizing their right to adequate food, while preserving their identity and heritage.

Santiago, 2015  
ISBN: 978-92-5-308796-9  
168 pp., 185 x 257 mm  
Price available on request, Paperback  
Available in: Spanish



**Guidelines, policy and technical knowledge to inform sustainable crop production, plant breeding, seed sector development, conservation and use of plant genetic resources, pest management and more.**

## PLANT PRODUCTION AND HEALTH



Rome, 2016  
 ISBN 978-92-5-109179-1  
 72 pp., 210 x 297 mm  
 Price available on request, Paperback  
 Available in: Arabic, Chinese  
 English, French,  
 Italian, Russian, Spanish

## SEED SECURITY ASSESSMENT

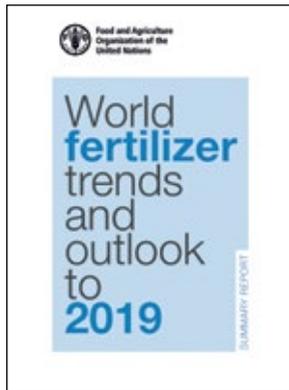
A PRACTITIONER'S GUIDE

Sufficient access to healthy and preferred crop seeds is crucial for millions of households in the developing world. When good-quality seed is scarce, rural farming families struggle to survive and may be forced into unsustainable coping strategies to meet food and income needs. Achieving and maintaining seed security is therefore an important goal. This book provides practical guidance on the theory, technical knowledge, procedures and good practices necessary for implementing a seed security assessment. It is an important reference and refresher for anyone seeking practical information on this topic.

### NEW HAMPSHIRE, GRENADA

A beneficiary of an FAO project irrigates seeds in his nursery.

©FAO/G. Bizzarri



Rome, 2016  
38 pp., 148 x 210 mm  
Price available on request, Paperback  
Available in: English

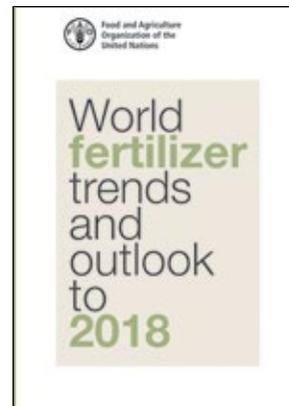
## WORLD FERTILIZER TRENDS AND OUTLOOK TO 2019

SUMMARY REPORT

This summary report contains estimates and projections of the supply of, and demand for, nitrogen, phosphate and potassium fertilizers for the five years to 2019. The report provides stakeholders in the public, private and educational sectors and civil society with valuable information on fertilizer use and trends at the global, regional and country levels and a guide for the planning and management of fertilizer resources.

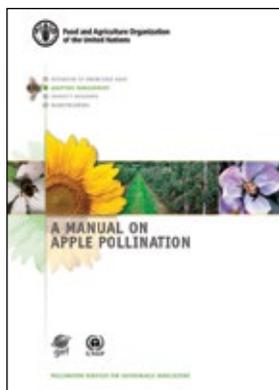
## WORLD FERTILIZER TRENDS AND OUTLOOK TO 2018

This report contains estimates and projections of the supply of, and demand for, nitrogen, phosphate and potassium fertilizers up to 2018. The report provides stakeholders in the public, private and educational sectors and civil society with valuable information on fertilizer use and trends at the global, regional and country levels and a guide for the planning and management of fertilizer resources.



Rome, 2015  
ISBN 978-92-5-108692-6  
66 pp., 148 x 210 mm  
Price available on request, Paperback  
Also in e-book format  
Available in: English

## PLANT PRODUCTION AND HEALTH



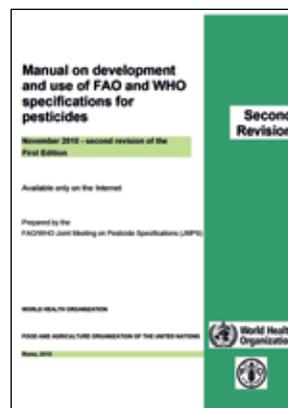
Rome, 2016  
 ISBN 978-92-5-109171-5  
 54 pp., 210 x 297  
 Price available on request  
 Paperback  
 Available in: English

## A MANUAL ON APPLE POLLINATION

Apples are one of the most widely cultivated fruit tree crops in the world. The production of this top global commodity depends on insect pollination. Understanding pollinators, their requirements, and their behaviours within and around apple orchards, will therefore allow for better pollination management strategies and increase apple production at both small- and large-scale production levels. This publication provides practical guidance for improving both fruit quality and yield.

## MANUAL ON DEVELOPMENT AND USE OF FAO AND WHO SPECIFICATIONS FOR PESTICIDES

This manual provides unique, robust and universally applicable standards for pesticide quality. Among other things, countries use the manual as a guidance document in setting pesticide specifications. It contains general principles and methodologies of the FAO/World Health Organization Joint Meeting on Pesticide Specification, which works to develop specifications for pesticides. This third revision contains new methodologies and principles, and incorporates the working principles applied by the Joint Meeting.



Rome, 2016  
 ISBN 978-92-5-109265-1  
 305 pp., 210 x 297 mm  
 USD 40.00, Paperback  
 Available in: English

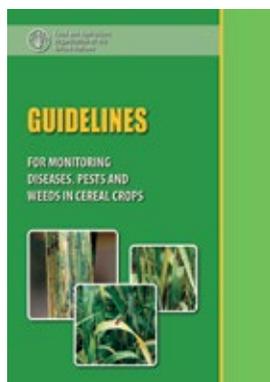


## PROGRESS IN PESTICIDE RISK ASSESSMENT AND PHASING-OUT OF HIGHLY HAZARDOUS PESTICIDES IN ASIA

Bangkok, 2015  
 ISBN 978-92-5-108709-1  
 168 pp., 210 x 297 mm  
 Price available on request, Paperback  
 Available in: English

This publication provides the latest update on pesticide risk reduction and the phasing out of highly hazardous pesticides in 15 countries in Asia. It contains databases of registered and banned pesticides as well as guidance and reference materials to enhance collaboration among countries. The book aims to safeguard against the adverse

effects of pesticides on human health and the environment, as well as to promote sustainable agricultural development in general.



## GUIDELINES FOR MONITORING DISEASES, PESTS AND WEEDS IN CEREAL CROPS

Ankara, 2016  
 ISBN 978-92-5-109180-7  
 42 pp., 176 x 250 mm  
 Price available on request, Paperback  
 Available in: English, Russian

In close collaboration with partners and national consultants, FAO has been providing countries in Central Asia with technical assistance on the monitoring of diseases, pests and weeds in cereal crops since 2011. The main purpose of the work is to collect information on the prevalence

of major diseases, pests and weeds and to identify crop varieties that are resistant to diseases – especially aggressive races of stem rust. These unified guidelines, prepared after a consultative meeting of experts in February 2013, are designed to assist future monitoring in the subregion.

# PRACTICAL INFORMATION

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FAO, ITS WORK AND ITS PUBLISHING PROGRAMME.



# ABOUT FAO



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©FAO/G. Diana

FAO has just completed 70 years as the largest specialized agency of the United Nations. Its mission is to eradicate hunger, promote sustainable food systems, and achieve balanced and complete nutrition for all. Among its most important objectives are directing efforts towards eliminating poverty and driving economic and social progress for all, including the care and conservation of the planet's natural resources.

FAO has 194 member countries. Its central office is in Rome, and

through its different regional and national offices it is present in more than 130 countries.

Some 11 000 people work for FAO worldwide. The Office for Corporate Communication has a far-reaching network of communicators both at headquarters and in the regional offices, including editors, journalists, graphic designers, audiovisual technicians, photographers, and experts in social networks, video and marketing.

FAO'S PUBLISHING ACTIVITIES ARE DRIVEN BY THE PRIORITIES DEFINED IN ITS STRATEGIC FRAMEWORK, WHICH ADDRESS KEY GLOBAL CHALLENGES. THE **FIVE STRATEGIC OBJECTIVES** AT THE HEART OF FAO'S WORK ARE TO:



**1.** Help eliminate hunger, food insecurity and malnutrition



**2.** Make agriculture, forestry and fisheries more productive and sustainable



**3.** Reduce rural poverty



**4.** Enable inclusive and efficient agricultural and food systems



**5.** Increase the resilience of livelihoods to threats and crises.

# FAO COMMUNICATION IN **NUMBERS**

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Every year FAO publishes more than **500 new titles**.

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At [fao.org](http://fao.org), you can find and download, for free, more than **65 000 documents** and consult statistical data in countless ways.

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FAO has over **1.5 million** followers on its **social media networks**.

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More than **100 000 articles** containing information or statements by FAO experts are published every year in the media.

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Every month **millions of users** access **fao.org** to read news or find information.

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FAO photo archives contain nearly **75 000 images** that may be used for no charge.

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The radio archive contains nearly **2 000 recordings** by leaders and experts who have shared their experience to advance towards a world without hunger.

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In its catalogue, FAO has more than **3 000 videos** on field projects and on campaigns.

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**World Food Day** is celebrated every year on **16 October** in over 150 countries.

# PUBLICATIONS AT FAO



©FAO/A. Pierdomenico

## THE TEAM

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An international team of **writers, editors, graphic artists, photographers and knowledge management specialists** work with FAO technical experts to produce FAO's publications. This publishing activity is underpinned by the Publications Workflow System, which enables coordination of publications from the concept and design stage right through to the final print and electronic versions across headquarters and some 130 decentralized offices.

## COPUBLISHING

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Copublishing is a major component of FAO's publishing programme, with both institutional and commercial publishing partners in all languages. FAO publishes jointly with other **international organizations, research institutes and universities**, including CABI, IFAD, ITU, OECD, OIE, Oxford University Press, UNDP, UNEP, UNESCO, University of California Press, WFP, WHO and the World Bank. FAO licenses its copyright material for reuse and dissemination by individuals as well as institutional and commercial publishers, aggregators, sales distributors and indexing services.

## FAO'S PUBLICATIONS ARE GROUPED INTO FOUR MAIN CATEGORIES:

### FLAGSHIP PUBLICATIONS

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These are a small set of titles that present the "state of" a key area of global interest (see section on Major global reports).



### GENERAL INTEREST PUBLICATIONS

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These titles include atlases, maps, recipe books and children's books, and cater to a broad audience.



### HIGH-PROFILE PUBLICATIONS

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These publications represent the cutting edge in their field and are often aimed towards decision-makers and practitioners in the public and private sectors alike.



### TECHNICAL PUBLICATIONS

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These cater to a specialized, technical audience, across the range of FAO's fields of expertise, and represent the bulk of FAO's publishing output.

They include the following subcategories:

- A. STANDARD SETTING
- B. MEETING REPORTS
- C. STUDIES
- D. TRAINING

#### STANDARD SETTING

This group includes much of FAO's normative information, notably standards, best practices, guidelines as well as more formal treaties and conventions and Plans of Action.

- Best practice
- Guidelines
- Treaties and conventions
- Strategies and Plans of Action
- Reference books

#### MEETING REPORTS

FAO acts as a neutral forum for countries to negotiate and debate. Records of these meetings are prepared by almost all units in FAO. They include both formal and informal proceedings of these meetings as well as Evaluation reports.

- Evaluations
- Proceedings
- Conferences
- Workshops/seminars

#### STUDIES

Much of FAO's work concerns studies of specific technical and socio-economic issues such as animals, fish, livestock or countries, sectors, regions or other national and international studies.

- Technical papers
- Working papers
- Project reports
- Country, sectoral studies and reports/assessments and reviews

#### TRAINING

As a result of knowledge gained, experience and best practices, FAO produces a range of different training materials both for those who work directly in development as well as for a wider general public.

- Manuals
- Handbooks
- Learning modules
- Toolkits/Sourcebooks

# FAO LIBRARY



©FAO/V. Montes Baffier

The David Lubin Memorial library is the specialized agricultural library of the United Nations. It was established in Rome at the 1952 FAO Conference. Over the years, the FAO library has built-up one of the world's finest collections of books on agriculture, food and nutrition, natural resources, economic and social development, forestry, fisheries and other related fields. It holds a historical core collection assembled in 1905 by FAO's predecessor, the International Institute of Agriculture (IIA), a rare book and incunabula collection and the complete collection of the Centre International de Silviculture (CIS).

## FAO LIBRARY CATALOGUE

The screenshot shows the search interface of the David Lubin Memorial Library Catalogue. At the top, there is a navigation bar with links for 'Catalog Home', 'Advanced search', 'Author Cloud', 'Subject Cloud', and 'Tag Cloud'. Below this is a search bar with a 'Library Catalog' button and a search icon. The main search area is titled 'Search for:' and contains several input fields: 'Title' (with a dropdown menu showing 'Food security work'), 'Publisher' (with a dropdown menu showing 'FAO'), 'Subject' (with a dropdown menu showing 'armed conflicts'), and another 'Subject' field (with a dropdown menu showing 'natural disasters'). Each field has a '+' icon to its right. Below the search fields is a 'Search' button and a 'New Search' link. Underneath, there is a 'Search Options' section with a 'Publication date range:' label and a text box containing the example: 'For example: 1999-2001. You could also use "1987" for everything published in and before 1987 or "2005:" for everything published in 2005 and after.' Below this text box is a date range selector showing '1911-2018'.

The online FAO Library Catalogue contains details on 1.5 million volumes – print and digital – on all FAO's areas of work since its foundation in 1945, and a specialized collection of non-FAO monographs and serials since 1976. Rich bibliographic metadata records and the use of FAO's multilingual thesaurus generate high-quality search results. The FAO Library has established an effective dissemination strategy with publishers like Hein Online, digital libraries like JSTOR, and aggregators of online content like the Web of Science to make FAO publications available to the global academic community.

# FAO DOCUMENT REPOSITORY

The FAO Document Repository collects, curates, manages and preserves FAO's intellectual products, ensuring their long-term open-access and readability. It includes 65 000 documents in almost 80 languages covering books, serials, journals, newsletters, leaflets, brochures, flyers, posters, briefs, executive summaries, meeting documents, project reports, speeches and articles. FAO's online archive provides free access to this vast knowledge base to ensure that all its publications are available to the widest possible audience. In addition to FAO materials, users can access publications where FAO is a copublisher with permission for online publication.

# FAO LIBRARY IN NUMBERS

Access to **over 648 000** books in print format.

**Subject alerts** and journal tables of contents.

Access to **over 184 000** **FAO publications** in print and electronic format.

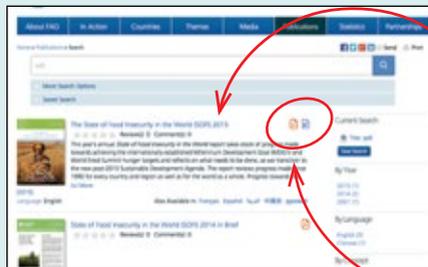
Access to **bibliographic** and **agricultural** **databases**.



Go to [www.fao.org](http://www.fao.org) and **click on the Publications tab** on the FAO homepage



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Click on the blue title to display more details or **click on the Adobe red icon to access the publication in PDF format**.



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# FOOD AND AGRICULTURE MATTERS



**FOOD AND AGRICULTURE**  
KEY TO ACHIEVING THE 2030  
AGENDA FOR SUSTAINABLE  
DEVELOPMENT

The new 2030 Agenda for Sustainable Development galvanizes and commits the international community to act together to transform our world for today's and future generations.

32 pp. Available in: Arabic, Chinese, English, French, Russian, Spanish



**FOOD AND AGRICULTURE IN THE 2030 AGENDA**  
BRINGING NUMBERS TO LIFE

This fact sheet is an updated briefing on how is FAO working to implement the 2030 Agenda.

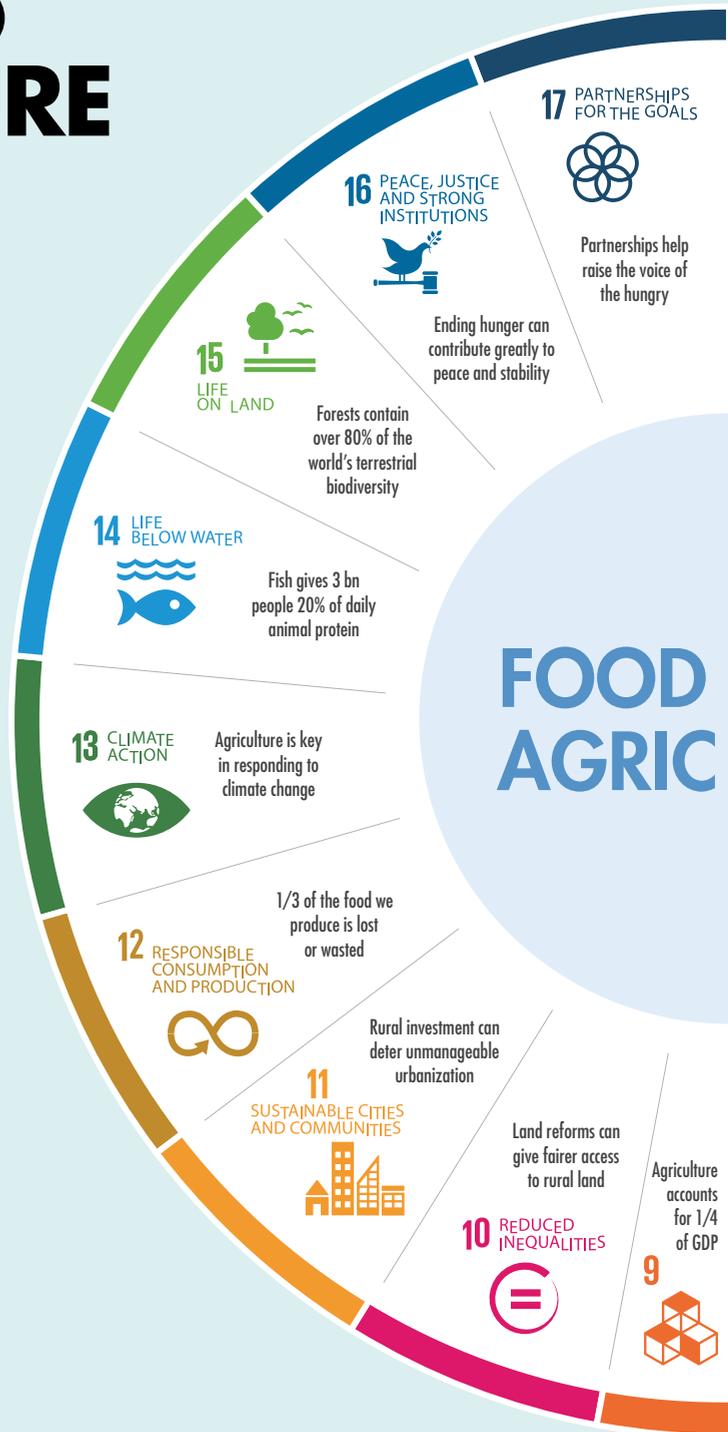
4 pp. Available in: English (forthcoming in Arabic, Chinese, French, Russian, Spanish)



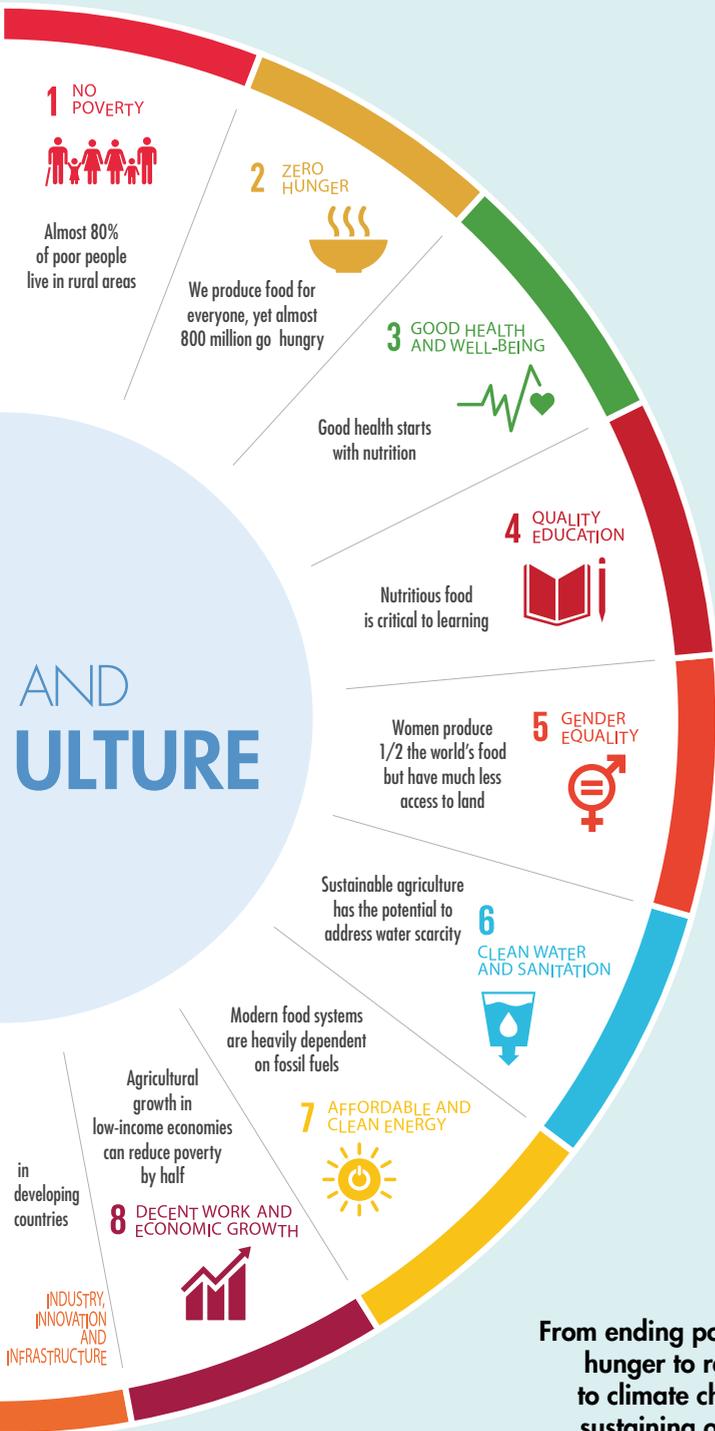
**HOW TO PLACE FOOD AND AGRICULTURE IN THE SDGS ON THE NATIONAL PLANNING MENU**  
A 10-POINT GUIDE

This pocket book offers practical steps on how FAO country offices can support governments in translating and integrating the SDGs.

20 pp. Available in: English



# THE 17 SUSTAINABLE DEVELOPMENT GOALS



From ending poverty and hunger to responding to climate change and sustaining our natural resources, food and agriculture lie at the very heart of the 2030 Agenda for Sustainable Development.

**GOAL 1** : End poverty in all its forms everywhere

**GOAL 2** : End hunger, achieve food security and improved nutrition and promote sustainable agriculture

**GOAL 3** : Ensure healthy lives and promote well-being for all at all ages

**GOAL 4** : Ensure inclusive and quality education for all and promote lifelong learning

**GOAL 5** : Achieve gender equality and empower all women and girls

**GOAL 6** : Ensure access to water and sanitation for all

**GOAL 7** : Ensure access to affordable, reliable, sustainable and modern energy for all

**GOAL 8** : Promote inclusive and sustainable economic growth, employment and decent work for all

**GOAL 9** : Build resilient infrastructure, promote sustainable industrialization and foster innovation

**GOAL 10** : Reduce inequality within and among countries

**GOAL 11** : Make cities inclusive, safe, resilient and sustainable

**GOAL 12** : Ensure sustainable consumption and production patterns

**GOAL 13** : Take urgent action to combat climate change and its impacts

**GOAL 14** : Conserve and sustainably use the oceans, seas and marine resources

**GOAL 15** : Sustainably manage forests, combat desertification, halt and reverse land degradation, halt biodiversity loss

**GOAL 16** : Promote just, peaceful and inclusive societies

**GOAL 17** : Revitalize the global partnership for sustainable development

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