

# PUBLICATIONS

*of the*  
**FOOD AND AGRICULTURE  
ORGANIZATION**  
OF THE UNITED NATIONS

.....

## 2013



PUBLICATIONS  
*of the*  
FOOD AND AGRICULTURE  
ORGANIZATION  
OF THE UNITED NATIONS

2013



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FRONT COVER PHOTO:

Quinoa seeds.

In 2013, the United Nations celebrates  
the International Year of Quinoa.



# PUBLICATIONS

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# FAO Statistical Yearbook 2013

World food  
and  
agriculture

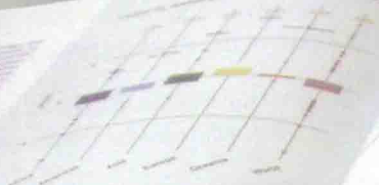
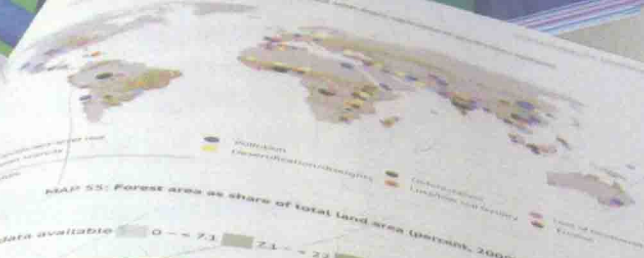
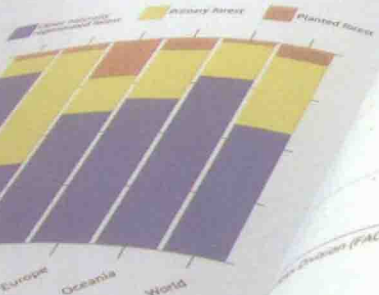


Chart 22: Forest characteristics (2010)



MAP 55: Forest area as share of total land area (percent, 2009)



Source: FAO (FAOSTAT)

# FAO Statistical Yearbook 2013

**Presenting the latest global data for  
agricultural and food statistics**

*“Good statistics are needed to monitor the progress of development. The better the data, the better policies can be designed to protect vulnerable populations. And, without good data, it is impossible to evaluate or determine the impact of policies.”*

José Graziano da Silva  
FAO Director-General

**FAO Statistical Yearbook 2013  
breaks down myriads of numbers  
into four broad thematic  
categories:**

- **The setting** measures the state of the agricultural resource base, assessing the supply of land, labour, capital, inputs and the state of infrastructure
- **Hunger dimensions** gauges the state of food insecurity and malnutrition
- **Feeding the world** evaluates the past and present capacity of world agriculture
- **Sustainability dimensions** examines agriculture in terms of the pressure it exerts on the environment, including the interaction of agriculture with climate change

**Highlights from the 2013  
edition include:**

- About 12 percent of the world's land area is used for crop production
- Around 870 million people - or one in eight people in the world - are undernourished
- For the world as a whole, per capita food supply rose from about 2 200 kcal/day in the early 1960s to more than 2 800 kcal/day by 2009
- The land sector is responsible for nearly 30 percent of all human-induced GHG emissions into the atmosphere

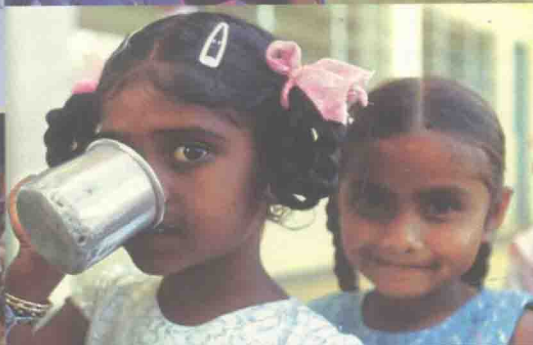
**FAO Statistical Yearbook  
2013**

FAO, Rome, 2013  
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366 pp., 210 x 297 mm  
USD 125.00, Paperback

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# FAO

## For a world without hunger



Photos: © FAO



Global food production capacity is sufficient to feed the world's current population, yet FAO's latest estimates indicate that almost 870 million people are undernourished in terms of energy intake. Efforts to eliminate world hunger are complicated by a number of complex global challenges, including a rapidly increasing population, urbanization, globalization and its effects on agriculture, pressure on natural resources, climate and environmental changes, and a rise in resulting disasters and emergencies.

In the face of these challenges, FAO is focusing its entire work effort on five overarching objectives:

- Eradicate hunger, together with food insecurity and malnutrition
- Make agriculture more productive, yet more sustainable
- Reduce rural poverty
- Create agricultural and food systems that are at once more inclusive and efficient
- Build the resilience of livelihoods to disasters and emergencies

As a specialized UN agency and knowledge organization, FAO has a well-established and broad-ranging publishing programme, and we are continuing to build on this with an increasingly dynamic and interdisciplinary range of titles in direct support of the Organization's strategic objectives.

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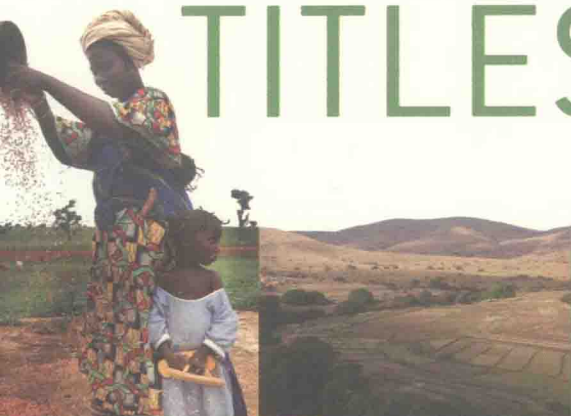
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**Rachel Tucker**

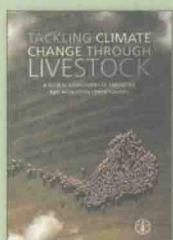
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Photos: © FAO

>> ANIMAL PRODUCTION AND HEALTH



## Tackling climate change through livestock

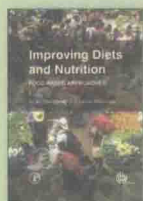
A global assessment of emissions and mitigation opportunities

Greenhouse gas emissions by the livestock sector could be cut by as much as 30 percent through the wider use of existing best practices and technologies. FAO conducted a detailed analysis of GHG emissions at multiple stages of various livestock supply chains, including the production and transport of animal feed, on-farm energy use, emissions from animal digestion and manure decay, as well as the post-slaughter transport, refrigeration and packaging of animal products. This report represents the most comprehensive estimate made to-date of livestock's contribution to global warming – as well as the sector's potential to help tackle the problem. This publication is aimed at professionals in food and agriculture as well as policy makers.

FAO, Rome, 2013  
ISBN 9789251079201  
140 pp., 176 x 250 mm  
USD 40.00, Paperback

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## Improving Diets and Nutrition: Food-based Approaches

*The International Symposium on Food and Nutrition Security: Food-based Approaches for Improving Diets and Raising Levels of Nutrition* was organized by the Food and Agriculture Organization of the United Nations (FAO) to better document the contribution that food and agriculture can make to improving nutrition. The publication presents the proceedings of the symposium. These proceedings are a useful resource for decision and policy makers, programme planners and implementers, and health workers, all of which work to combat hunger and malnutrition. Likewise, they will have appeal for professionals in the field of food security, nutrition, public health, horticulture, agronomy, animal science, food marketing, information, education, communication, food technology and development. They are also designed as a useful complementary source for graduate and postgraduate courses

*Edited by: Thompson, B., Amoroso, L.*  
Copublished with CABI  
FAO, Rome, 2013  
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350 pp., 172 x 144 mm  
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## Promoting investment in Agriculture for increased production and productivity

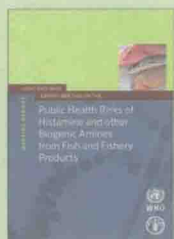
Covering the development of sustainable agriculture, food production and food security, this book explains the relationship between, and interdependence of, all levels of investment required for success. It also describes how to drive increased investment, at what stage and where; farmer investment, public investment and corporate private sector investment are all integral to the increased productivity of agriculture. Providing definitions of investment, farm-level capital formation and policy frameworks, the book proposes policies and a programme of action for achieving positive investment in agriculture, and concludes with globally-relevant case studies. This book is an essential resource for policymakers and researchers

*By: Syed, S., Miyazako, M.*  
Copublished with CABI  
FAO, Rome, 2013  
ISBN 9789251075883  
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USD 100.00, Paperback

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### Public Health Risks of Histamine and other Biogenic Amines from Fish and Fishery Products

Report of a joint FAO/WHO Expert Meeting and Histamine Sampling Tool (version 1.0)

Codex Alimentarius through its standards and guidelines aims to provide countries with tools to manage food safety issues such as histamine in fish. Together with guidance on good practices, different histamine limits have been established by Codex as indicators of decomposition and as indicators of hygiene and handling. However, many of these limits were established in a pre-risk assessment era and their scientific basis is unclear. As food safety management moves towards more risk- and evidence- based approaches, there is a need to review existing limits to ensure that they are scientifically based and take into account all the available evidence. At the request of Codex, FAO and WHO convened an expert meeting at the FAO headquarters in Rome from 23 – 27 July 2012 to address the public health risks of histamine and other biogenic amines from fish and fishery products. This report summarises the outcome of that meeting.

Copublished with WHO  
FAO, Rome, 2013  
ISBN 9789251078495  
TBD pp., 176 x 250 mm  
USD TBD, Paperback

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## >> FISHERIES AND AQUACULTURE



### Fish Identification Tools for Biodiversity and Fisheries Assessments

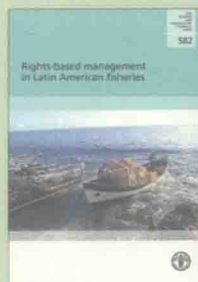
Review and guidance to decision-makers

This review provides an appraisal of existing, state-of-the-art fish identification (ID) tools (including some in the initial stages of their development) and shows their potential for providing the right solution in different real-life situations. The ID tools reviewed are: Use of scientific experts (taxonomists) and folk local experts, taxonomic reference collections, image recognition systems, field guides based on dichotomous keys; interactive electronic keys (e.g. IPOFIS), morpho-metrics (e.g. IPEZ), scale and otolith morphology, genetic methods (Single nucleotide polymorphisms [SNPs] and Barcode [BOL]) and Hydroacoustics. It is expected that it will help fisheries managers, environmental administrators and other end users to select the best available species identification tools for their purposes.

FAO Fisheries and Aquaculture  
Technical Paper No. 585  
FAO, Rome, 2013  
ISBN 9789251077719  
ISSN 2070-7010  
106 pp., 210 x 297 mm  
USD 55.00, Paperback

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## >> FISHERIES AND AQUACULTURE



### Rights-based management in Latin American fisheries

This study reports on the experiences with a diversity of cases of rights-based benthic and finfish fisheries management regimes from the Latin American region. Each case specifies the main attributes of the access rights (in a broad sense, including privileges), whether formal or informal: (i) how the rights are conferred and upheld; (ii) exclusivity of participation in the fishery; (iii) duration of the rights conferred; (iv) security or quality of the title conferred by the rights; (v) transferability, divisibility and flexibility in the use of the rights; and (vi) actual rights enforceability and corresponding compliance with use rights limitations. The study also reports on aspects of the harvest strategies in place, including: (i) fishing methods and gear; (ii) when fishing is authorized to take place; (iii) harvest controls; and (iv) monitoring.

FAO Fisheries and Aquaculture  
Technical Paper No. 582  
FAO, Rome, 2013  
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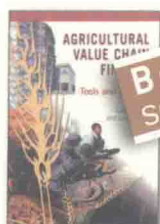
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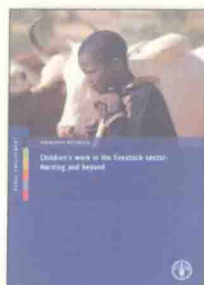
## Agricultural value chain finance

Tools and lessons

Agriculture remains an important means of alleviating poverty, but shortage of finance can constrain its development. At the same time agriculture is evolving towards a global system requiring high-quality, competitive products, organized in value chains which often exclude smallholders. Value chain financing in agriculture offers an opportunity to increase the scope and reduce the cost and risk of financing to agriculture. It can also help value chains to be more inclusive, by making resources available for smallholders to integrate into higher value chains. This publication provides a comprehensive look at the models, tools and approaches used by industry leaders in all parts of the developing world. It is essential reading for bankers, microfinance practitioners and credit union leaders working in agriculture, as well as NGO practitioners, agribusiness technical staff, researchers and policy makers.

By: Miller, C., Jones, L.  
Copublished with  
Practical Action  
FAO, Rome, 2013  
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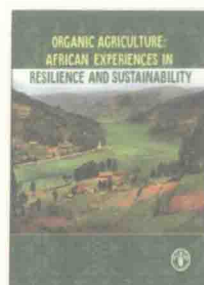


## Children's work in the livestock sector: Herding and beyond

Child labour in the livestock sector is widespread and largely ignored. This publication, the first global study on child labour issues related to livestock, points out that agriculture accounts for most of the reported child labour in the world, and livestock accounts for some 40 percent of the agricultural economy. Curbing child labour will require governments, farmer organizations and rural families to become directly involved in finding alternatives to practices that often reflect the need for survival.

FAO, Rome, 2013  
ISBN 9789251073872  
56 pp., 210 x 297 mm  
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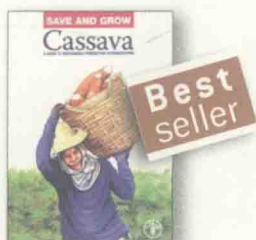


## Organic agriculture: African experiences in resilience and sustainability

This publication demonstrates that organic agriculture can benefit people, the economy and ecosystems and that this can be achieved in Africa, where hunger and degradation stubbornly persist despite decades of development efforts. The different chapters document sustainability experiences, including: mainstreaming organic agriculture into African development approaches; community-based livestock systems; indigenous ethno-veterinary practices and new understanding of customary systems of resource management; ecofunctional intensification through management of legumes, systems of rice intensification and integrated farming; and smallholders' knowledge harnessed through family farmers' learning groups and customized information and communication technologies.

Edited by: Auerbach, R.,  
Rundgren, G., El-Hage  
Scialabba, N.  
FAO, Rome, 2013  
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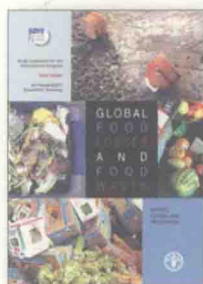
## Save and Grow: Cassava

A guide to sustainable production intensification

This guide is the first on the practical application of FAO's "Save and Grow" model of agriculture to specific smallholder crops and farming systems. It comes as cassava production intensifies worldwide, and growers shift from traditional cultivation practices to monocropping, higher-yielding genotypes, and greater use of agrochemicals. Intensification carries great risks, including soil nutrient depletion and upsurges in pests and diseases. The guide shows how ecosystem-based "Save and Grow" approaches and practices can help tropical developing countries to avoid the risks of unsustainable intensification, while realizing cassava's potential for producing higher yields, alleviating hunger and rural poverty, and contributing to national economic development.

FAO, Rome, 2013  
ISBN 9789251076415  
140 pp., 180 x 255mm  
USD 42.00, Paperback  
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- **Rights available in all languages**  
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(forthcoming)



## Global food losses and food waste

The two studies in this volume (one for high/medium-income countries and one for low income countries) aim to raise awareness about global food losses and waste, and the impact of these on poverty and hunger in the world, as well as on climate change and the use of natural resources. They were carried out by The Swedish Institute for Food and Biotechnology (SIK) on request from FAO to serve as a basis for the international congress *Save Food!*, coorganized by Interpack2011 and FAO in May 2011, in Düsseldorf, Germany.

FAO, Rome, 2012  
ISBN 9789251072059  
36 pp., 210 x 297 mm  
Not for sale, Paperback

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## Conservation agriculture and sustainable crop intensification

A Zimbabwe case study

Conservation agriculture (CA) addresses the problem of low and erratic rainfall through the use of practices that reduce water losses and increase infiltration, and improve low soil nutrient status by increasing soil carbon and nitrogen through the use of organic soil cover and legumes in rotations and interactions. This publication describes the experiences of introducing and promoting CA as a practice for sustainable crop production intensification in farming communities across Zimbabwe. The case study is aimed at policy makers, scientists and environmentalists and should inform decision-making relating to sustainable crop intensification.

By: Sepo Marongwe, L.,  
Nyagumbo, I., Kwazira, K.,  
Kassam, A., Friedrich, T.  
Integrated Crop  
Management No. 17  
FAO, Rome, 2012  
ISBN 9789251074480  
ISSN 1020-4555  
44 pp., 176 x 250 mm  
USD 18.00, Paperback

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# The World of Livestock 2013

## Changing Disease Landscapes

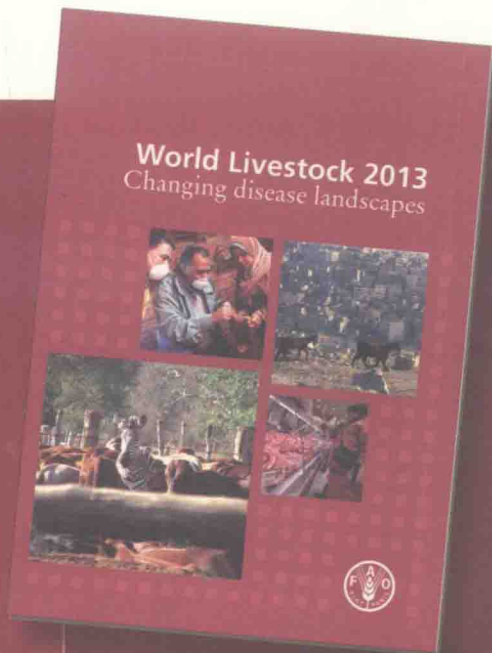
The **World of Livestock 2013: Changing Disease Landscapes** looks at the evidence of changing disease dynamics involving livestock and explores three key areas:

- 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 argues that a comprehensive approach, the **One Health** approach, is needed to face the complexities of the changing disease landscapes, giving greater emphasis on agro-ecological resilience, protection of biodiversity, efficient use of natural resources and ensure safer food supply chains particularly in areas worst afflicted by poverty and animal disease. Speeding up response times, by early detection and reaction, including at the driver level, is essential.

Highlights from **World of Livestock 2013: Changing Disease Landscapes** include:

- Livestock dynamics are a major determinant in global health, including human, animal and environment health
- Four different diseases complexes are analyzed that relate changing disease patterns to factors of global change (e.g. urbanization, climate change, intensification)
- Major social, economic and environmental benefits can be generated from more integrated control measures.



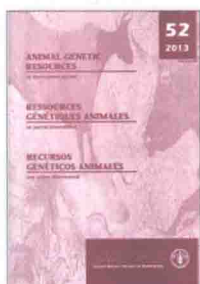
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Livestock  
Programme key  
publication is an  
indispensable  
read for policy  
makers and  
a wide range  
of health  
professionals.**

### The World of Livestock 2013

FAO, Rome, 2013  
ISBN: 978-92-5-107927-0  
130 pp., 176 x 250 mm  
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## Animal Genetic Resources – an international journal

Animal Genetic Resources is published by Cambridge University Press under the auspices of FAO's Animal Genetic Resources Branch. The journal provides an international forum for the publication of papers related to the management of animal genetic resources for food and agriculture. It covers the following areas: phenotypic and molecular characterization; surveying and monitoring; development (genetic improvement); sustainable use; conservation; capacity-building in livestock-keeping and pastoralist communities; and policies and institutions. Papers are published in English, French or Spanish, with abstracts in the other two languages.

Animal Genetic Resources No. 51  
FAO, Rome, 2012  
ISBN 9789250073255  
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USD 30.00, Paperback

Animal Genetic Resources No. 52  
FAO, Rome, 2013  
ISBN 9789250075235  
ISSN 2078-6336  
184 pp., 210 x 297 mm  
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● *Trilingual: English, French, Spanish*



## Enhancing animal welfare and farmer income through strategic animal feeding

Some case studies

This paper presents a series of case studies to document existing practices that enhance animal welfare as well as farmers' incomes. The information contained should encourage researchers and agencies working in the area of animal welfare to initiate studies to capture the impact of any intervention on farmers' incomes – an area that has been neglected to date. These studies could also pave the way for the development of guidelines and policy options to promote sustainable animal feeding that enhances animal welfare, animal productivity, animal product quality and profitability.

*Edited by: Makkar, H.*  
FAO Animal Production and Health Paper No. 175  
FAO, Rome, 2013  
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96 pp., 176 x 250 mm  
USD 35.00, Paperback

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## In vivo conservation of Animal Genetic Resources

In vivo conservation encompasses a range of actions that can be taken to ensure the survival of livestock breeds or populations that are threatened with extinction. These guidelines address both "in situ" conservation (supporting the continued use of threatened breeds in the livestock production systems where they have traditionally been raised) and "ex situ" conservation (maintenance of populations at sites such as conservation farms and zoos). As well as providing a wealth of information on breeding strategies for small at-risk populations, the guidelines provide advice on how to develop an effective and well-targeted national conservation strategy.

FAO Animal Production and Health Guidelines No. 14  
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