FAO Statistical Yearbook 2013

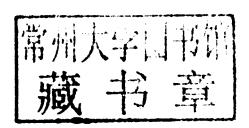
World food and agriculture



FAO STATISTICAL YEARBOOK

2013

World Food and Agriculture



The designations employed and the presentation of material in this information product do not imply the expression of any opinion whatsoever on the part of the Food and Agriculture Organization of the United Nations (FAO) concerning the legal or development status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. The mention of specific companies or products of manufacturers, whether or not these have been patented, does not imply that these have been endorsed or recommended by FAO in preference to others of a similar nature that are not mentioned.

The designations employed and the presentation of material in the maps do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal or constitutional status of any country, territory or sea area, or concerning the delimitation of frontiers.

ISBN 978-92-5-107396-4

© FAO 2013

FAO encourages the use, reproduction and dissemination of material in this information product. Except where otherwise indicated, material may be copied, downloaded and printed for private study, research and teaching purposes, or for use in non-commercial products or services, provided that appropriate acknowledgement of FAO as the source and copyright holder is given and that FAO's endorsement of users' views, products or services is not implied in any way.

All requests for translation and adaptation rights, and for resale and other commercial use rights should be made via www.fao.org/contact-us/licence-request or addressed to copyright@fao.org.

FAO information products are available on the FAO website (www.fao.org/publications) and can be purchased through publications-sales@fao.org.

Foreword

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.

There are 867 million chronically undernourished people in the world today. Seventy percent of the world's food insecure live in rural areas, and 60 percent of the world's population rely on agriculture for their livelihoods. The need for quality data on agriculture and food security is as pressing as ever.

Where do people live? Do they have access to land and water? How much formal schooling or training do they receive? How much do countries invest in agricultural innovation? What products do they export or import? How is agriculture affecting their forests, soils and waterways?

Employing data from global statistical providers, including FAO, this publication presents a visual synthesis of the major trends and factors shaping the global food and agricultural landscape and their interplay with broader environmental, social and economic dimensions. In doing so, it strives to serve as a unique reference point on world food and agriculture for policy-makers, donor agencies, researchers and analysts as well as the general public.

The data cycle revolves around three key activities: building the capacity of countries to improve their collection and use of data; collecting data in a timely and efficient manner; and disseminating this information through meaningful products.

Based on key resources, such as FAO flagship publications and others, the FAO Statistical Yearbook is the result of a global collaborative effort among countries, international organizations and resource partners. In addition to FAO's traditional domains – forestry, fisheries, agricultural production, trade, and resources – this edition of the yearbook features two new datasets: greenhouse gas emissions and investment.

This global yearbook is just one of the instruments used to disseminate information to a wider public. Regional statistical yearbooks, which highlight major trends in a particular area of the world, are also available. All of the data can be accessed electronically through the FAOSTAT data platform.

FAO is deeply committed to helping countries strengthen their statistical systems as, for example, collecting gender-disaggregated data. FAO and international partners are implementing a Global Strategy to Improve Agricultural and Rural Statistics, to address weaknesses in basic data and information availability in developing countries, as well as emerging data and information needs. This long-term project builds on three major pillars: producing a minimum set of core data and determining national priorities; integrating agricultural statistics into national statistical systems; and fostering the sustainability of agricultural statistics through governance and statistical capacity development.

We will continue to support these three activities – collection, dissemination and capacity building – to improve agriculture and food security statistics, and to advance the fight against hunger and poverty.

José Graziano da Silva FAO Director-General

Acknowledgements

This book was prepared by the Statistics Division (ESS) of the Food and Agriculture Organization of the United Nations in collaboration with staff at headquarters and in the regional and decentralized offices. The work was carried out under the direction of Pietro Gennari (Chief Statistician, FAO, and Director, ESS), Naman Keita (CountrySTAT Manager, ESS) and Josef Schmidhuber (Principal Officer, ESS). The core team was made up of Amy Heyman, Filippo Gheri and Michael Kao. Principal contributors were Nienke Beintema (the International Food Policy Research Institute - IFPRI), Andrea Borlizzi (ESS), Chiara Brunelli (ESS), Carlo Cafiero (ESS), Cinzia Cerri (ESS), Rocio Condor-Golec (Climate, Energy and Tenure Division - NRC), Piero Conforti (ESS), Jacqueline Demeranville (Gender, Equity and Rural Employment Division - ESW), Elisenda Estruch (ESW), Alessandro Ferrara (NRC), Karen Frenken (Land and Water Division - NRL), Nandini Gunewardena (ESW), Gary Jones (ESS), Arvydas Lebedys (Forest Economics, Policy and Products Division - FOE), Erdgin Mane (ESS), Robert Mayo (ESS), Verena Nowak (Nutrition Division - ESN), Michael Rahija (IFPRI), Simone Rossi (NRC), Mirella Salvatore (NRC), Nadia Scialabba (Office of Assistant Director-General - NRDD), Gert-Jan Stads (IFPRI), Nathalie Troubat (ESS), Sachiko Tsuji (Statistics and Information Service - FIPS), Francesco Tubiello (NRC), Stefania Vannuccini (FIPS), Nathan Wanner (ESS) and Firas Yassin (ESS). Special thanks also go to Andrea Alcibiade (ESS), Guido Barbaglia (ESS), Kafkas Caprazli (Office for Communication, Partnerships and Advocacy - OCP), Giulia Cimino (ESS), Giancarlo De Pol, Giorgia DeSantis (ESS), James Edge (ESS), Carola Fabi (ESS), Amanda Gordon (ESS), Nicola Graziani (ESS), Fabio Grita (ESS), Michelle Kendrick (ESS), Ana Moltedo (ESS), Gladys Moreno (ESS), Paul N'Goma-Kimbatsa (ESS), Adam Prakash (ESS), Nicholas Sakoff (ESS), Nicola Selleri (ESS), Jane Shaw, Mukesh Srivastava (ESS), Sylvaine Thomas (ESS), and Boris Veytsman. Will Prince (World Bank) also provided invaluable information.

How to use this book

The structure

The 2013 FAO Statistical Yearbook continues the process that began with the 2012 edition. The book has been created from beginning to end with the statistical software R and the typesetting language Lage to data retrieval, to data processing, indicator construction, and blueprint-ready pdf file for distribution. This technique has circumvented the traditional route of manual production, involving costly software licences, significant labour costs and inefficiencies associated with a lack of integration.

The book is divided into four thematic parts, in an attempt to present the full spectrum of issues relevant to the subject matter:

Part 1 The setting measures the state of the agricultural resource base by assessing the supply of land, labour, capital and inputs, and examining the pressure on the world food system stemming from demographic and macroeconomic change.

- **Part 2 Hunger dimensions** gauges the state of food insecurity and malnutrition, measuring the multitude of dimensions that give rise to hunger and shape undernourishment.
- **Part 3 Feeding the world** evaluates the past and present productive capacity of world agriculture, together with the role of trade in meeting changing food, feed and other demands.
- **Part 4 Sustainability dimensions** examines the sustainability of agriculture in the context of the pressure it exerts on the environment, including the interaction of agriculture with climate change, and how it can provide ecosystem services through the bio-based economy.

Several page spreads are used to present each thematic issue. Each spread contains visualizations of the data in maps and charts, along with text providing background to the salient issues and an assessment of current trends. Tables are provided at the end of each part. A list of indicators used throughout the book and a section on concepts and methods can be found in Part 5.

Country definitions and classification

Parts 1, 3 and 4 follow the M49 list from the United Nations Statistics Division. This can be found at "geographical regions for statistical use" (see "Table: Country list" or http://unstats.un.org/unsd/methods/m49/m49regin.htm). Part 2 adapts the Millennium Development Goals country classification with the exception of the sections "Poverty", "Education and health" and "Natural and human-made risks", which apply M49.

Developing regions, which are referred to throughout the book, consist of Africa, the Americas excluding Northern America, Latin America and the Caribbean, Asia excluding Japan, and Oceania excluding Australia and New Zealand. Developed regions are Northern America, Europe, Japan, Australia and New Zealand.

South Sudan declared independence on 9 July 2011. When available, data for the Sudan and South Sudan are shown separately. In the tables, the Sudan (former) is also reported. Based on the data available, the assessment presented in the map of the Sudan and South Sudan reflects the situation up to 2011 of the Sudan (former).

Aggregations

Two types of aggregations are used in the book: sum and weighted mean. Two restrictions are imposed when computing the aggregation: i) the sufficiency condition – the aggregation is computed only when sufficient countries have reported data, and the current threshold is set at 50 percent of the variable and the weighting variable, if present; and ii) the comparability condition – as aggregations are usually computed over time, this condition is designed to ensure that the number of countries is comparable over several years; under the current restriction the number of countries may not vary by more than 15 over time.

Data presentation conventions

The cutoff date for the data is 31 December 2012.

- When country data have not been reported for the reference year, an asterisk (*) on the year label indicates that the value for the most recent year available is shown. For example, 2008–2010* means that the most recent value for the period from 2008 to 2010 is shown. When a growth rate is computed, the specified interval always refers to available data.
- · A billion is 1 000 million.
- · A trillion is 1000 billion.
- A blank means that data are not available or that aggregates cannot be calculated because of missing data for the years shown.
- In tables, 0 or 0.0 means zero or a number that is small enough to round to zero at the displayed number of decimal places.
- A ~ in the maps refers to the range specified in the class intervals.

CONTENTS

Foreword:	iii
Acknowledgements:	٧
How to use this book:	vii
Part 1 The Setting:	1
Overview Economy Land and Water Labour Inputs Capital and Investment Innovation Tables	4 8 10 14 16 18 20 22
Part 2 Hunger dimensions:	67
Number undernourished and their prevalence in the population Anthropometric indicators Poverty Food Availability Economic and physical access Clean water and sanitation Economic and political stability Education and health Natural and human-made risks Tables	70 72 74 76 78 80 82 86 88
Part 3 Feeding the world:	123
Aggregate agriculture Growth in crop production Trends in the crop sector Trends in the livestock sector Trends in the fisheries sector Trends in agricultural trade Tables	126 128 130 140 146 150
Part 4 Sustainability dimensions:	201
Land and Forestry Water Biodiversity Agri-environmental indicators Organic farming Bio-based economy Climate change Greenhouse gas emissions Tables	204 208 210 212 214 216 218 220 222
Part 5 Metadata: Country list Concepts and Methods Indicators Acronyms Bibliography	259 259 261 264 285 286

List of Charts

1	world rural and urban population (1960-2050)	
2	Agricultural population (1990 and 2010)	4
3	Population ages 0-14 and 65+, share of total (2011)	
4	Population density (2010)	5
5	Change in life expectancy between 2000-2010 (with data available in 2010)	6
6	Value added in agriculture, industry and services as shares of GDP (2009)	8
7	Trade, FDI and ODA as shares of GDP (2000-2010)	8
8	Arable land per capita, top 20 countries (2009)	10
	Arable land per capita, top 20 countries (2003)	10
9	Arable land per capita, bottom 20 countries (2009)	
10	Land area (2009)	11
11	Agricultural area (2009)	11
12	Irrigation potential, top 20 countries (2012)	12
13	Total equipped area, top 20 countries (2009)	12
14	Female employment in agriculture, share of female employment (2010)	14
15	Labour force participation rate by gender, ages 15+ (2010)	
16	Fertilizer consumption in nutrients per ha of arable land (2002 and 2009)	16
17	Fertilizer consumption in nutrients per ha of arable land (2009)	16
18	Credit to agriculture, share of value added in agriculture, selected countries (2005 and 2010)	18
19	ODA received in agriculture, forestry and fishing sectors, share of total ODA (2001 and 2010)	18
20	Share of components in capital stock (2007)	19
21	Government expenditures in agriculture, forestry, fishing and hunting (2010)	19
22	Total public agricultural research expenditure, share of agricultural GDP, top 20 countries (2006-2010*)	20
23	Mobile cellular, broadband Internet and telephone line subscribers per 100 people (2010)	20
	Undernourishment in the developing world (1990-1992 to 2010-2012)	70
24	Undernourishment in the developing world (1990-1992 to 2010-2012)	70
25	Number of people undernourished (1990-1992 and 2010-2012)	
26	Percentage of children under 5 years of age who are stunted and underweight, countries with highest stunting rates (2005-2011*)	
27	People living on less than 2005 PPP \$1.25 and \$2 a day (1981-2005)	74
28	Gini coefficient (1990-1992 and 2007-2009)	74
29	Average dietary supply adequacy (1990-1992 and 2007-2009)	76
30	Trend of the value of food production (1992-2009)	76
31	Share of energy supply derived from cereals, roots and tubers (1990-1992 and 2007-2009)	
32	Relative change in average protein supply (between 1990-1992 and 2007-2009)	77
	Relative change in average protein supply (between 1790-1792 and 2007-2007)	77
33	Relative change in average protein supply from animal origin (between 1990-1992 and 2007-2009)	
34	Relative price of food by level of economic development (2000-2012)	
35	Relative price of food by region (2000-2012)	
36	Percentage of population without reasonable access to improved water sources (2010)	
37	Percentage of population without reasonable access to improved sanitation facilities (2010)	80
38	Value of cereal imports over total merchandise exports (1990-1992 and 2007-2009)	
39	Cereal import dependency ratio (1990-1992 and 2007-2009)	87
40	Domestic food price volatility (1995-2012)	
41	Per capita food production variability (1990-2012)	85
42	Domestic food price volatility by level of economic development (2000 and 2010)	84
43	Domestic food price volatility by region (2000 and 2010)	84
44	Per capita food supply variability (1995-2009)	85
45	Girls' and boys' enrolment in primary education (2010)	86
46	Total health expenditure, share of GDP (1995-2010)	86
47	Droughts, floods, extreme temperatures - share of population affected (average 1990-2009)	88
48	UNHCR total population of concern by type over time (2000-2011)	
49	Food supply in crops primary equivalent (2000-2009)	
50	Protein and fat supply in crops primary equivalent (2000-2009)	
51	Protein supply in crops primary equivalent (2009)	
52	Fat supply in crops primary equivalent (2009)	127
53	Crops, gross per capita production (2004-2006 = 100) (2000-2010)	128
54	Growth in cereals production (2000-2010)	128
55	Per capita cereal production (2000-2010)	130
56	Per capita coarse grain production (2000-2010)	
57	Per capita rice production (2000-2010)	
58	Per capita wheat production (2000-2010)	
59	Per capita oil crop production (2000-2010)	134

60	Per capita pulse production (2000-2010)	
61	Per capita roots and tubers production (2000-2010)	136
62	Per capita sugar production (2000-2010)	136
63	Per capita fruit production, excluding melons (2000-2010)	
64	Per capita vegetable production, including melons (2000-2010)	138
65	Stocks of cattle and buffaloes, and sheep and goats (2000-2010)	140
66	Stocks of poultry birds (2000-2010)	140
67	Stocks of cattle and buffaloes, and sheep and goats (2010)	
68	Stocks of poultry birds (2010)	141
69	Meat production (2000-2010)	
70	Meat production by type (2010)	142
71	Per capita meat production (2000-2010)	143
72	Per capita meat production (2010)	143
73	Egg production (2000-2010)	144
74	Cheese production (2000-2010)	144
75	Butter and ghee production (2000-2010)	
76	Processed milk production (2000-2010)	145
77	Per capita capture fish production (2000-2010)	146
78	Per capita aquaculture fish production (2000-2010)	146
79	State of the world's fishery stocks (1974 and 2009)	148
80	Composition of fish production (2010)	148
81	Per capita fish food supply (1992-2010)	149
82	Exports of fruit and vegetables, constant 2005 US\$ (2000-2010)	150
83	Exports of vegetable oils, constant 2005 US\$ (2000-2010)	150
84	Composition of global exports, constant 2005 US\$ (2000-2010)	151
85	Exports of cereals, constant 2005 US\$ (2000-2010)	152
86	Exports of oilseeds and sugar and honey, constant 2005 US\$ (2000-2010)	152
87	Exports of livestock products and fish, constant 2005 US\$ (2000-2010)	154
88	Exports of animal fats, constant 2005 US\$ (2000-2010)	154
89	Exports of coffee, tea, cocoa and spices, constant 2005 US\$ (2000-2010)	156
90	Exports of beverages, constant 2005 US\$ (2000-2010)	156
91	Annual growth rate in forest area (1990-2009)	
92	Forest characteristics (2010)	
93	Production of selected forest products (1970-2011)	206
94	Production of selected forest products (1970-2011)	206
95	Top five exporters of forest products, 2011 ranking (2000 and 2011)	207
96	Top five importers of forest products, 2011 ranking (2000 and 2011)	207
97	Freshwater withdrawal by agricultural sector, shares of total, top 20 countries (2000-2010*)	208
98	Freshwater withdrawal by industrial sector, shares of total, top 20 countries (2000-2010*)	
99	Species threatened (2011)	
100	Terrestrial protected areas, share of total land area (1990 and 2009)	210
101	Livestock density per ha of agricultural land, cattle and buffaloes, sheep and goats (2009)	212
102	Agricultural land, share of total land area (1992-2009)	212
103	Organic water pollutant (BOD) emissions, top 20 countries (2005-2006*)	213
	Organic water pollutant (BOD) emissions per worker, top 20 countries (2005-2006*)	
	Organic agriculture area (2009)	
	Organic agriculture, share of total agricultural area (2009)	
	Area under bioenergy crops (2005-2010)	
	Biofuel production (1990-2009)	
	Share of food crop usage in world bio-based economy (2009)	
110	Global land-ocean temperature index (base period 1951-1980) (1880-2011)	218
	Global land-ocean temperature index (base period 1951-1980) (1880-2011)	
	Regional net emissions/removals from net forest conversion (1990, 2000 and 2010)	
	Regional greenhouse gas emissions from cultivated organic soils (2010)	
114	Global agricultural greenhouse gas emissions by sector (2010)	221
	Company of the Compan	

List of Maps

1	World population annual growth (percent, 2000-2011)	5
2	GNI per capita, current US\$ (percent, 2010-2011*)	7
3	Under-5 mortality rate (per 1 000 live births, 2010-2011*)	
4	Agriculture, value added per worker annual growth (percent, 2000-2010)	
5	Agriculture, value added as share of GDP (percent, 2008-2011*)	9
6	Cropland per capita (ha/cap, 2009)	11
7	Share of equipped area actually irrigated (percent, 2000-2012*)	13
8	Water resources per capita (m³/yr/cap, 2010)	13
9	Employment in agriculture, share of total employment (percent, 2005-2010*)	15
10	Children in employment, total (percentage of children ages 7-14, 2008-2010*)	15
11	Pesticides per ha of arable land (kg/ha, 2005-2009*)	17
12	Agricultural tractors, total (tractors, 2000-2010*)	17
13	FDI (inward flows) to agriculture (million US\$, 2010)	19
14	Access to mobile cellular phone subscriptions annual growth (percent, 2000-2010)	21
15	Total public agricultural research expenditure, share of agricultural GDP (percent, 2006-2010*)	21
16	Map of hunger (% prevalence of undernourishment, 2012)	/1
17	Prevalence of food inadequacy (percent, 2012)	/1
18	Percentage of children under 5 years of age who are stunted (percent, 2005-2011*)	
19	Percentage of children under 5 years of age who are underweight (percent, 2005-2011*)	/3
20	Poverty gap at national poverty line (percent, 2005-2011*)	75
21	Poverty headcount ratio at national poverty line, share of population (percent, 2005-2011*)	75
22	Road density (per 100 km ² of land area, 2005-2009*)	79
23	Share of paved roads over total roads (percent, 2005-2009*)	19
24	Share of population without reasonable access to improved water sources (percent, 2010)	81
25	Share of population without reasonable access to improved sanitation facilities (percent, 2010)	81
26	Political stability and absence of violence/terrorism (index, 2009)	85
27	Adult female literacy rate, share of females ages 15 and above (percent, 2005-2010*)	87
28	Primary completion rate, total (percent, 2005-2010*)	87
29	Droughts, floods, extreme temperatures (share of population affected, average 1990-2009)	
30	UNHCR total population of concern (2011)	89
31	Food supply in crops primary equivalent (kcal/cap/day, 2009)	127
32	Crops, gross per capita production (2004-2006 = 100) (index, 2010)	129
33	Food, gross per capita production (2004-2006 = 100) (index, 2010)	129
34	Cereal producing countries (million tonnes, 2010)	131
35	Coarse grain producing countries (million tonnes, 2010)	
36	Rice producing countries (million tonnes, 2010)	
37	Wheat producing countries (million tonnes, 2010)	133
38	Oil crop producing countries (million tonnes, 2010)	135
39	Pulse producing countries (million tonnes, 2010)	135
40	Root and tuber producing countries (million tonnes, 2010)	137
41	Sugar producing countries (million tonnes, 2010)	137
42	Fruit producing countries, excluding melons (million tonnes, 2010)	139
43	Vegetable producing countries, including melons (million tonnes, 2010)	139
44	Stocks of cattle and buffaloes (million heads, 2010)	
45	Meat producing countries (million tonnes, 2010)	
46	Milk production (million tonnes, 2010)	
47	Capture fish producing countries (thousand tonnes, 2010)	
48	Aquaculture producing countries (thousand tonnes, 2010)	
49	Geo-location of harvests by capture and aquaculture (2010)	
50	Import value (2004-2006 = 100) (index, 2010)	
51	Major trade flows of wheat (US\$, 2010)	
52	Major trade flows of pig meat (US\$, 2010)	
53	Major trade flows of coffee (US\$, 2010)	
54	Global distribution of risks associated with main agricultural production systems	
55	Forest area as share of total land area (percent, 2009)	205
56	Roundwood production (thousand m ³ , 2011)	207
57	Total water withdrawal per capita (m³/cap/year, 2000-2010*)	
58	Freshwater resources withdrawn by agriculture (share, 2000-2010*)	
59	Terrestrial protected areas (share of total land area, 2009)	211

60	Marine protected areas (share of territorial waters, 2009)	211
61	Nitrogen fertilizer consumption per ha of arable area and permanent crops (kg/ha, 2009)	213
62	Organic agriculture area (ha, 2009)	215
63	Organic agriculture, share of total agricultural area (percent, 2009)	215
	Biofuel production (kilotonnes of oil equivalent, 2009)	
65	Surface temperature, anomaly versus 1951-1980 (degrees Celsius, 2012)	219
66	Share of population living in areas with elevation of 5 m or less (percent, 2011)	219
67	Total agricultural greenhouse gas emissions (gigagrams CO ₂ eg. 2010)	221

List of Tables

1	Population and structure	22
2	Demographic indicators	26
3	Economy	
4	Land	34
5	Water resources and irrigation	38
6	Labour	42
7	Inputs	46
8	Agricultural capital stock	50
9	Foreign direct investment and official development assistance	54
10	Government expenditures	58
11	Innovation	62
12	Outcomes: Inadequate access to food	90
13	Outcomes: Utilization	
14	Poverty	
15	Determinants: Availability	
16	Determinants: Physical and economic access	102
17	Vulnerability/Stability	
18	Health and education	
19	Population at risk	
	Top cereal producers and their productivity	110
20	top cereal producers and their productivity	150
21	Top coarse grain producers and their productivity	
22	Top rice producers and their productivity	160
23	Top wheat producers and their productivity	161
24	Top oilcrop producers and their productivity	
25	Top pulse producers and their productivity	163
26	Top root and tuber producers and their productivity	
27	Top vegetable producers and their productivity	165
28	Top sugar producers and their productivity	166
29	Top treenut producers and their productivity	
30	Top fruit producers and their productivity	168
31	Top citrus fruit producers and their productivity	169
32	Top fibre crop producers and their productivity	170
33	Top jute and jute-like producers and their productivity	171
34	Meat production	172
35	Egg, milk, and processed milk production	176
36	Fish production	180
37	Volume of total cereal trade	
38	Volumes of total oilseed trade and sugar and honey trade	
39	Volume of total meat and dairy products trade	
40	Value of fish trade	196
41	Land and forestry	
42	Forestry production and trade	226
43	Production of finished forestry products	
44	Water withdrawal and pressure on renewable water resources	230
	Species threatened and nationally protected areas	270
45		
46	Agri-environmental indicators	
47	Water pollution	
48	Renewable feedstocks	
49	Agricultural emissions	254

The Setting

Introduction

More than 3 billion people – almost half of the world's population – live in rural areas. Roughly 2.5 billion of these rural people derive their livelihoods from agriculture. For many economies, especially those of developing countries, agriculture can be an important engine of economic growth. Approximately three-quarters of the world's agricultural value added is generated in developing countries, and in many of these, the agriculture sector contributes as much as 30 percent to gross domestic product (GDP). According to the World Bank, 1 percent growth in GDP from agriculture increases the expenditures of the three poorest deciles by at least 2.5 times as much as 1 percent growth from the rest of the economy. Agriculture can also provide an important haven against global economic and financial turmoil, often more effectively than other sectors.

A look back through history reveals that growth in agriculture has tended to be followed by wider economic development. From the industrial revolution that began in the United Kingdom of Great Britain and Northern Ireland in the eighteenth century and spread to other now developed countries, through to more recent examples in China or Viet Nam, growth in agriculture has always been the precursor to the rise of industry and services.

In many poor developing countries, primary activities such as agriculture still constitute the backbone of the economy. However, the sector often faces many challenges. A profound and prolonged lack of investment in agriculture is evident in many countries. Notably, infrastructure is missing or weak in rural areas, agricultural productivity is stagnant, and lack of opportunities for income diversification combines with poorly functioning markets to undermine economic growth. There is often a gender divide. Although women make significant contributions to the rural economy, they often have less access to productive resources than men, and families often rely on children's work for survival.

Downward trends in the global economy are slowly turning, with improved accessibility to financial resources. Agriculture is reaping the benefits of technological innovation, and there is also a growing recognition among governments and donor agencies that agriculture must be the mainstay of any development agenda and of policies promoting economic growth. The reaffirmation of the sector's role in development and growth provides fresh impetus for fostering investments that raise productivity and incomes in agriculture.

Within this context, FAO – together with international partners – is promoting the Global Strategy to Improve Agricultural and Rural Statistics. This multi-year, collaborative project builds capacity in developing countries to produce and use agricultural and rural statistics for more effective food security, sustainable agricultural and rural development policies, and helps ensure that information is available to farmers and policy-makers when and where they need it.

Key Resources

The State of Food and Agriculture

The State of Food and Agriculture, FAO's major annual flagship publication, aims at bringing to a wider audience balanced science-based assessments of important issues in the field of food and agriculture. Each edition of the report contains a comprehensive, yet easily accessible, overview of a selected topic of major relevance for rural and agricultural development and for global food security. This is supplemented by a synthetic overview of the current global agricultural situation.

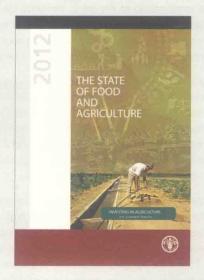
2012: Investing in agriculture for a better future

2010-11: Women in Agriculture, Closing the gender gap for development

2009: Livestock in the balance

Publication cycle: Annual

Webpage: www.fao.org/publications/sofa



Looking Ahead in World Food and Agriculture

How will the world feed itself in 2050? This volume, which is a compilation of papers authored by world-class experts, addresses this very question. Agricultural and food demand is expected to slow over the next decades, following slowing population growth and rising incomes. However, population will still grow considerably in the coming decades, and require world agricultural production to increase substantially by 2050. Other areas explored in the volume are natural resources – notably land and water – as well as capital, investment and technology.

Webpage: www.fao.org/economic/esa/esag/en/

