## World Development Report 1986

The Hesitant Recovery and Prospects for Sustained Growth Trade and Pricing Policies in World Agriculture World Development Indicators

**PUB6134**July 1986



OPD HC59.7 .W659 1986 World Bank. World development report ... /



# World Development Report 1986

OPD HC59.7 .W659 1986

Oxford University Press

NEW YORK OXFORD LONDON GLASGOW

TORONTO MELBOURNE WELLINGTON HONG KONG

TOKYO KUALA LUMPUR SINGAPORE JAKARTA

DELHI BOMBAY CALCUTTA MADRAS KARACHI

NAIROBI DAR ES SALAAM CAPE TOWN

© 1986 by the International Bank for Reconstruction and Development / The World Bank 1818 H Street, N.W., Washington, D.C. 20433 U.S.A.

First printing July 1986

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior permission of Oxford University Press. Manufactured in the United States of America.

The denominations, the classifications, the boundaries, and the colors used in maps in World Development Report do not imply on the part of The World Bank and its affiliates any judgment on the legal or other status of any territory, or any endorsement or acceptance of any boundary.

ISBN 0-19-520517-0 clothbound ISBN 0-19-520518-9 paperback ISSN 0163-5085

The Library of Congress has cataloged this serial publication as follows:

World development report. 1978–

[New York] Oxford University Press.

v. 27 cm. annual.

Published for The World Bank.

1. Underdeveloped areas—Periodicals. 2. Economic development— Periodicals I. International Bank for Reconstruction and Development.

HC59.7.W659

330.9'172'4

78-67086



This book is printed on paper that adheres to the American National Standard for Permanence of Paper for Printed Library Materials, Z39.48-1984.

#### Foreword

This Report is the ninth in the annual series assessing development issues. Part I reviews recent trends in the world economy and the policy framework required for sustained growth. Part II is devoted to trade and pricing policies in world agriculture. As in the past, the Report includes an updated World Development Indicators annex, which provides selected social and economic data for more than a hundred countries.

The world economy is entering its fourth consecutive year of growth since the 1980–82 recession. Yet the recovery continues to be hesitant, and many developing countries are facing serious problems of adjustment. Although the recent declines in oil prices, real interest rates, and inflation will provide a useful stimulus to industrial and developing countries alike, many heavily indebted developing countries, particularly oil exporters, will find it difficult to maintain growth in the near term. In addition, the beneficial effects of the recovery have been much weaker for many low-income sub-Saharan African countries.

Part I of this year's Report explores the policies required to restore sustained growth in the world economy. It stresses the importance of maintaining the commitment of industrial countries to policies that have both reduced inflation and moderated market distortions and rigidities. A recurring concern, however, is the increase in international trade restrictions. If high and sustainable growth is to be attained, the reform of domestic institutions and incentives needs to be accompanied by a renewed effort to move toward freer international trade. The progress that developing countries have made in reforming their policies and adjusting to the rapid, and often large, changes in the world economy since 1980 is charted. Despite considerable progress, many of them enter the second half of the decade weighed down by the cumulative effects of domestic policies, large foreign debt obligations, and, in the case of oil exporters, the recent decline in export earnings. Continued domestic policy reforms, designed to restore and maintain a stable macroeconomic environment and to improve the incentive structure, are stressed as the prerequisites for growth. Increased reliance on international trade will be a necessary component of this reform process. Policy reforms in developing countries, however, will need to be supported by reductions in trade barriers and increases in net flows of foreign capital.

Part II of this Report develops these themes in the context of agricultural policies. It examines the policies of developing and industrial countries in an integrated framework, bringing out the interdependence of domestic agricultural policies throughout the world and the potential for large gains from more liberal trade in agriculture. It suggests that liberalization of trade should be a high priority for international action in agriculture.

An examination of the policy options for developing countries suggests that economic stability and growth would be greatly enhanced if pricing and trade policies were improved. In many developing countries, both macro- and microeconomic policies have hindered agricultural development. Overvalued exchange rates, the protection provided to domestic manufacturing activities, and the taxation of agricultural exports and importcompeting food crops have discouraged domestic agricultural production. In addition, programs for subsidizing consumers and farm inputs and for stabilizing consumer and producer prices have often led to significant losses in the real national incomes of developing countries. These problems, however, are being increasingly acknowledged,

and some developing countries have initiated significant—in some cases sweeping—policy reforms.

Agricultural policy reforms are also under serious consideration in many industrial countries. The policies they have pursued in the past several decades have limited trade opportunities for developing countries and have been counterproductive for themselves as well. As preparations are made for the next round of GATT negotiations, it is well to recognize the opportunities that exist for bringing about a more efficient world agricultural system—a system which will benefit both industrial and developing countries. The progress that has been achieved in agricultural technology presents an opportunity for a rapid expansion of agricultural output if more open and competitive world markets are established.

Like its predecessors, this Report is a study by the staff of The World Bank, and the judgments in it do not necessarily reflect the views of our Board of Directors or of the governments they represent.

A. W. Clausen President

The World Bank

May 19, 1986

This Report was prepared by a team led by Anandarup Ray and comprising Trent Bertrand, Ajay Chhibber, Bruce Gardner, Orsalia Kalantzopoulos, Odin Knudsen, Donald O. Mitchell, Alan Walters, John Wilton, and L. Alan Winters, assisted by Therese Belot, Zohreh Hedjazi, M. Shahbaz Khan, Donald F. Larson, Tani Maher, Yasmin Saadat, Rodney Smith, and Robert Wieland. D. Gale Johnson, Ulrich Koester, and many others in and outside the Bank provided helpful comments and contributions (see the bibliographical note). The Economic Analysis and Projections Department, under the direction of Jean Baneth, supported the work on Part I, and Enzo Grilli, Peter Miovic, and Heywood Fleisig coordinated the work of that department on projections. Ramesh Chander, assisted by David Cieslikowski, also of that department, supervised the preparation of the World Development Indicators; Elizabeth Crayford edited the Indicators, and Shaida Badiee was responsible for systems design. Special thanks also go to the production staff, especially Joyce Eisen, Pensri Kimpitak, and Victoria Lee, and to the support staff, headed by Rhoda Blade-Charest and including Banjonglak Duangrat, Jaunianne Fawkes, Carlina Jones, and Patricia Smith. The work was carried out under the general direction of Anne O. Krueger and Constantine Michalopoulos, with John Parker as the editorial adviser.

#### **Contents**

**Definitions and data notes** 

Acronyms and initials

1 Introduction

ix

Prospects for the world economy 1 Trade and pricing policies in world agriculture

3

Prospects for the world economy

Pa	rt I	The Hesitant Recovery and Prospects for Sustained Growth
2	The l	nesitant recovery 15  The industrial countries 16
		The developing countries 24
3	Oppo	ortunities for growth 40
		Policies for growth in developing countries 40 A decade of opportunity, 1985–95 44 Policy requirements for the High case 45 Developing-country prospects 48 Capital flows and debt 55 International initiatives and the role of the Bank 58
Pa	rt II	Trade and Pricing Policies in World Agriculture
4	_	cultural policies in developing countries: exchange rates, prices, axation $61$
		Economy-wide policies and agriculture 62 Agriculture as a source of tax revenues 80
5	_	cultural policies in developing countries: marketing stabilization, subsidies, and policy reform 85
		Marketing and stabilization 85 Consumer subsidies 90
		Producer support programs 94 Policy reforms 104
6	Agri	cultural policies in industrial countries 110
		The characteristics of agricultural policies 110 The domestic gains and losses from agricultural policies 119 International consequences 123

7	International initiatives in agricultural trade 133
	International commodity agreements 133
	Compensatory finance 137
	Trade preferences 142
	Food aid 145
8	National and international priorities in agriculture 149
	Priorities in developing countries 149
	Trade liberalization 151
	The GATT negotiations 152
	The role of the World Bank 152
CLA	intinal annual in 154
	ristical appendix 154
BID	liographical note 162
Wo	orld Development Indicators 169
Tex	kt tables
1.1	Agriculture's share of GDP, employment, and exports, selected years, 1964-84 3
1.2	2 Agriculture's share of exports in developing countries, 1979-83 4
1.3	B Growth of agricultural production by major commodity group, 1961-84 4
1.4	1 0
1.5	
$1.\epsilon$	•
1.7	, , ,
2.1	
2.2	,
2.3	1981-85 19
2.4	
2.5	1 ,
2.6	e
2.7 2.8	0 1 1
2.9	1 0
	1960-84 27
2.1	
2.1	1 0
2.1	12 New commitments to public and publicly guaranteed borrowers in developing countries, 1978–84 33
2.1	
2.1	
3.1	
3.2	
3.3	
3.4	
3.5	
4.1	Protection of agriculture compared with manufacturing in selected developing countries 62
4.2	
4.3	Index of nominal and real protection coefficients for cereals and export crops in selected African countries, 1972–83 68
4.4	, 1 1 0
4.5	

5.1	Price instability indices, 1964-84 86
5.2	Trends in bread prices and consumption and imports of wheat, selected years, 1969–81 92
5.3	Growth in production of selected commodities in China, 1957–84 105
5.4	Growth in yields of selected commodities in China, 1957–83 105
6.1	Nominal protection coefficients for producer and consumer prices of selected commodities in industrial countries, 1980-82 112
6.2	The frequency of application of various nontariff barriers in industrial countries, 1984 117
6.3	The market value of quotas in Ontario, Canada, 1984 118
6.4	The domestic efficiency loss from agricultural intervention in selected industrial countries 121
6.5	The annual domestic costs and benefits of agricultural protection to consumers, taxpayers, and producers in the EC, Japan, and the United States 121
6.6	Changes in export revenue, import costs, and efficiency gains for selected commodities of developing countries caused by a 50 percent decrease in OECD tariff rates, 1975–77 128
6.7	International price and trade effects of liberalization of selected commodity markets, 1985 129
6.8	Efficiency gains caused by liberalization of selected commodities, by country group, 1985 131
6.9	Effects of liberalization on price instability, 1985 131
7.1	Current international commodity agreements in agriculture 135
7.2	The principal beneficiaries of STABEX's grant elements, 1975–83 140
7.3	Characteristics of the CFF and STABEX 141
7.4	Food aid in cereals, 1971–83 146
8.1	World Bank lending for agricultural and rural development, by purpose and period 153
Apper	ndix tables
A.1	Population growth, 1965–85 and projected to 2000 154
A.2	Population and GNP per capita, 1980, and growth rates, 1965-85 154
A.3	GDP, 1980, and growth rates, 1965–85 155
A.4	Population and composition of GDP, selected years, 1965–85 155
A.5	GDP structure of production, selected years, 1965–84 156
A.6	Sector growth rates, 1965–84 156
A.7	Consumption, savings, and investment indicators, selected years, 1965–84  157
A.8	Growth of exports, 1965–85 158
A.9	Change in export prices and in terms of trade, 1965–85 159
A.10	Growth of long-term debt of developing countries, 1970–85 159
A.11	Savings, investment, and the current account balance, 1965–84 160
A.12	Composition of debt outstanding, 1970–84 161
	igures
1.1	Trends in agricultural and food production, 1961–84 5
1.1	Grain yields in selected countries, 1965–84 6
1.3	Trends in U.S. real agricultural prices, selected years, 1800–1985 6
1.4	Trends in food trade and trade balance, 1961–84 11
1.5	
2.1	Nominal protection coefficients 13  Growth rate of real GDP in developing and industrial countries, 1961–85 15
2.2	Growth, inflation, and unemployment rates in seven major industrial countries, 1965–85 16
2.3	Exchange rate misalignment and real GDP growth in twenty-four developing economies, 1960–83 31
2.4	Exchange rate instability and net investment in twenty-four developing economies, 1960–83. 31
2.5	Debt rescheduling, 1979–85 38
4.1	Ratio of farmgate prices to border prices for selected commodities of developing countries in the late 1970s and early 1980s 64
4.2	Indices of real exchange rates and agricultural exports in Ghana, Nigeria, Brazil, and Chile, 1961-84 71
4.3	Production, consumption, and imports of cereals in sub-Saharan Africa, 1965–84 77
4.4	Average annual growth in agriculture and industry in developing countries, 1973–84 80

- 5.1 Food subsidies as a percentage of total government expenditure in selected developing countries, 1973-83 90
- 6.1 Threshold and border prices for selected grains in the EC, 1968–84 115
- 6.2 Nominal protection coefficients and the income differential in selected industrial countries, 1980 123
- 6.3 Per capita feed utilization and maize prices in selected industrial regions, 1960-84 127
- 7.1 International commodity agreements: price ranges and prices 136

#### **Boxes**

- 1.1 Food security 8
- 1.2 Adam Smith on the causes of famine and the modern evidence 9
- 1.3 Agricultural protectionism in historical context 12
- 2.1 Inflation as a tax 18
- 2.2 Protectionism: who pays? 22
- 2.3 Inconsistency in macroeconomic policymaking: the case of the Philippines, 1980-83 30
- 2.4 Reacting to a debt crisis 34
- 3.1 Multilateral trade negotiations and the GATT 46
- 3.2 How a drop in the price of oil affects developing countries 50
- 3.3 The sub-Saharan Africa debt problem 52
- 3.4 The debt overhang and the heavily indebted middle-income countries 54
- 4.1 Coffee prices and macroeconomic policies in Colombia 66
- 4.2 Flexible markets in Niger 69
- 4.3 Trade policies and agricultural performance: the case of Argentina 70
- 4.4 Oil and agriculture: Nigeria and Indonesia 72
- 4.5 Agricultural prices and marketing in Tanzania 74
- 4.6 Export taxation and monopoly power 76
- 4.7 Food self-sufficiency in Asia 78
- 4.8 Agricultural pricing policies and the environment: the case of Haiti 79
- 4.9 Agricultural taxation in Japan 81
- 4.10 The efficiency cost of export taxes 82
- 5.1 Risk aversion in agriculture 83
- 5.2 Food-grain buffer stocks and price stabilization in India 89
- 5.3 Papua New Guinea's buffer fund 91
- 5.4 Food subsidy reform in Sri Lanka 93
- 5.5 Targeting economic assistance in Tamil Nadu, India 94
- 5.6 Credit subsidies in Brazil 98
- 5.7 Improving rural financial markets in Indonesia 100
- 5.8 Rubber replanting programs in Thailand 102
- 5.9 Agricultural policy improvements in Bangladesh 106
- 5.10 Cotton sector reform in Sudan 108
- 6.1 Price support in the dairy industry 112
- 6.2 Protecting sugar producers 114
- 6.3 Land restrictions and part-time farming 116
- 6.4 Hidden subsidies: the Crow's Nest rates 120
- 6.5 Old wine in new bottles 122
- 6.6 Commodity prices, rent, and rates of return 124
- 6.7 Protection and agroprocessing 126
- 6.8 Simulation of liberalized agricultural policies 130
- 7.1 Recent commodity agreements in agriculture 136
- 7.2 Commodity futures and options 138
- 7.3 The Lomé Convention 140
- 7.4 The EC's Sugar Protocol 142
- 7.5 Agricultural trade among developing countries 144
- 7.6 Food aid institutions 145
- 7.7 The challenges of emergency food aid 147

### Definitions and data notes

The principal country groups used in the text of this Report and in the World Development Indicators are defined as follows:

- Developing countries are divided into: low-income economies, with 1984 gross national product (GNP) per person of less than \$400; and middle-income economies, with 1984 GNP per person of \$400 or more. Middle-income countries are also divided into oil exporters and oil importers, identified below.
- Middle-income oil exporters comprise Algeria, Angola, Cameroon, People's Republic of the Congo, Ecuador, Arab Republic of Egypt, Gabon, Indonesia, Islamic Republic of Iran, Iraq, Malaysia, Mexico, Nigeria, Peru, Syrian Arab Republic, Trinidad and Tobago, Tunisia, and Venezuela.
- Middle-income oil importers comprise all other middle-income developing countries not classified as oil exporters. A subset, major exporters of manufactures, comprises Argentina, Brazil, Greece, Hong Kong, Israel, Republic of Korea, Philippines, Portugal, Singapore, South Africa, Thailand, and Yugoslavia.
- High-income oil exporters (not included in developing countries) comprise Bahrain, Brunei, Kuwait, Libya, Oman, Qatar, Saudi Arabia, and United Arab Emirates.
- Industrial market economies are the members of the Organisation for Economic Co-operation and Development, apart from Greece, Portugal, and Turkey, which are included among the middleincome developing economies. This group is commonly referred to in the text as industrial economies or industrial countries.
- East European nonmarket economies include the following countries: Albania, Bulgaria, Czechoslovakia, German Democratic Republic, Hungary, Poland, Romania, and U.S.S.R. This group is sometimes referred to as nonmarket economies.
- Sub-Saharan Africa comprises all thirty-nine developing African countries south of the Sahara, excluding South Africa, as given in Toward Sustained Development in Sub-Saharan Africa: A Joint Program of Action (World Bank 1984).
- Middle East and North Africa includes Afghanistan, Algeria, Arab Republic of Egypt, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Morocco, Oman, Saudi Arabia, Syrian Arab Republic, Tuni-

- sia, Turkey, United Arab Emirates, Yemen Arab Republic, and People's Democratic Republic of Yemen.
- East Asia comprises all low- and middleincome countries of East and Southeast Asia and the Pacific, east of, and including, Burma, China, and Mongolia.
- South Asia includes Bangladesh, Bhutan, India, Nepal, Pakistan, and Sri Lanka.
- Latin America and the Caribbean comprises all American and Caribbean countries south of the United States.
- Major borrowers are countries with disbursed and outstanding debt estimated at more than \$15 billion at the end of 1984 and comprise Argentina, Brazil, Chile, Egypt, India, Indonesia, Israel, Republic of Korea, Mexico, Turkey, Venezuela, and Yugoslavia.

Economic and demographic terms are defined in the technical notes to the World Development Indicators. The Indicators use the country groupings given above but include only countries with a population of 1 million or more.

Billion is 1,000 million.

*Tons* are metric tons, equal to 1,000 kilograms, or 2,204.6 pounds.

*Growth rates* are in real terms unless otherwise stated. Growth rates for spans of years in tables cover the period from the beginning of the base year to the end of the last year given.

*Dollars* are current U.S. dollars unless otherwise specified.

The symbol .. in tables means "not available."
The symbol — in tables means "not applicable."

All tables and figures are based on World Bank data unless otherwise specified.

Data from secondary sources are not always available through 1984. The numbers in this *World Development Report* shown for historical data may differ from those shown in previous Reports because of continuous updating as better data become available and because of recompilation of certain data for a ninety-country sample. The recompilation was necessary to permit greater flexibility in regrouping countries for the purpose of making projections.

### Acronyms and initials

**CIAT** International Center for Tropical Agriculture.

**CIMMYT** International Maize and Wheat Improvement Center.

**CFF** Compensatory Financing Facility.

DAC The Development Assistance Committee of the Organisation for Economic Co-operation and Development comprises Australia, Austria, Belgium, Canada, Denmark, Finland, France, Federal Republic of Germany, Ireland, Italy, Japan, Netherlands, New Zealand, Norway, Sweden, Switzerland, United Kingdom, United States, and Commission of the European Communities.

EC The European Communities comprise Belgium, Denmark, France, Federal Republic of Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, and United Kingdom. Greece joined the EC in 1981; Portugal and Spain joined in 1986.

ECU European currency unit.

FAO Food and Agriculture Organization.

**GATT** General Agreement on Tariffs and Trade.

**GDP** Gross domestic product.

GNP Gross national product.

**IBRD** International Bank for Reconstruction and Development.

**IDA** International Development Association.

**IFC** International Finance Corporation.

IFPRI International Food Policy Research Institute

**IRRI** International Rice Research Institute.

IMF International Monetary Fund.

LIBOR London interbank offered rate.

**ODA** Official development assistance.

**OECD** The Organisation for Economic Cooperation and Development members are Australia, Austria, Belgium, Canada, Denmark, Finland, France, Federal Republic of Germany, Greece, Iceland, Ireland, Italy, Japan, Luxembourg, Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States.

SDR Special drawing right.

**UNCTAD** United Nations Conference on Trade and Development.