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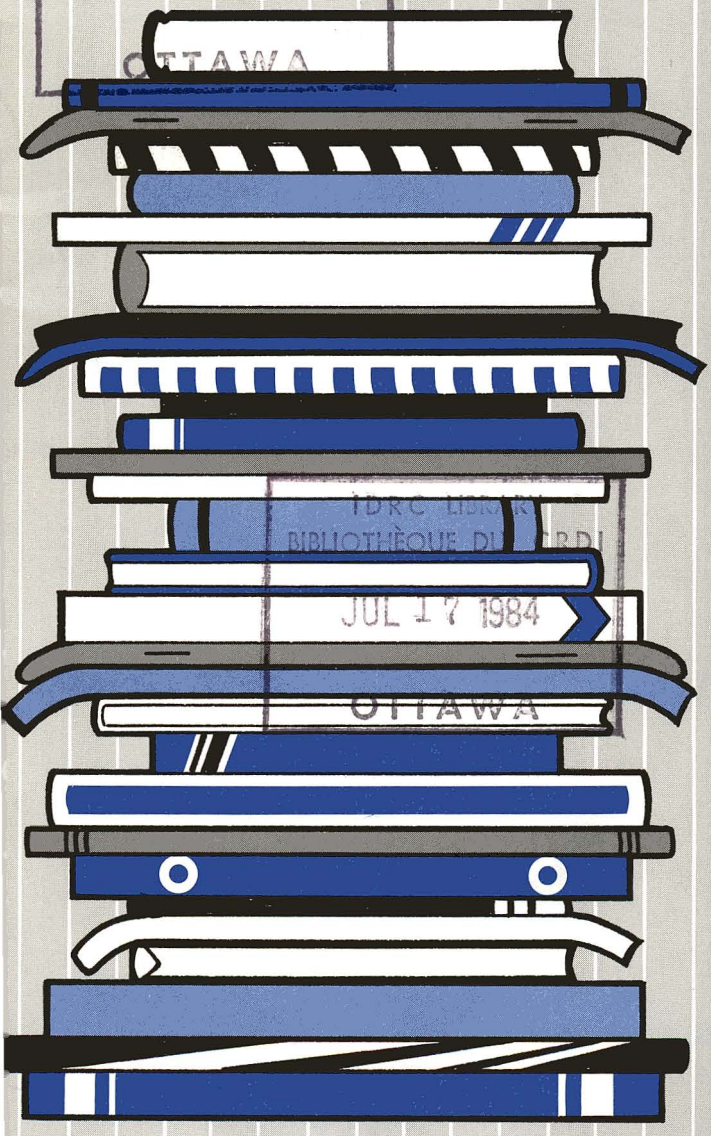

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The International Development Research Centre is a public corporation created by the Parliament of Canada in 1970 to support research designed to adapt science and technology to the needs of developing countries. The Centre's activity is concentrated in five sectors: agriculture, food and nutrition sciences; health sciences; information sciences; social sciences; and communications. IDRC is financed solely by the Parliament of Canada; its policies, however, are set by an international Board of Governors. The Centre's headquarters are in Ottawa, Canada. Regional offices are located in Africa, Asia, Latin America, and the Middle East.

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Agricultural Economics

Agricultural policy in India: growth with equity (IDRC-201e)
(see Economics and Social Development, page 7)

Livestock in Asia: issues and policies (IDRC-202e)
(see Economics and Social Development, page 7)

Animal Sciences

Wildlife disease research and economic development: proceedings of a workshop held in Kabete, Kenya, 8 and 9 September 1980
L. Karstad, B. Nestel, M. Graham, ed.
1981, 80p., IDRC-179e, 0-88936-307-2 *$5.00*
This proceedings focuses attention on the complementary role that domesticated and wild animals can play in terms of land use and economic development. It examines the role of wildlife in the transmission and control of diseases affecting livestock production. A list of participants is included.

Cartography

Remote sensing and development: report on IDRC-supported projects in the Sudan, Bolivia, Tanzania, Bangladesh, and Mali
R. LeBlond
1982, 24p., IDRC-174e, 0-88936-302-01 *$2.50*
Each of the projects described in this report represents a different experience in "technology transfer" and tests of the feasibility of applying satellite data for the production of thematic maps in developing countries. This report is of interest to personnel working at institutions concerned with research in remote sensing.
(Also available in French)

Crops and Cropping Systems

Root crops in Eastern Africa: proceedings of a workshop held in Kigali, Rwanda, 23-27 November 1980
Cosponsored by Gouvernement du Rwanda, International Institute of Tropical Agriculture, and IDRC
IITA, Ibadan, IDRC, Ottawa
1982, 128p., IDRC-177e, 0-88936-305-6 *$10.00*
The workshop brought together researchers and policy-makers to discuss and identify constraints to root crop production in the region, to establish means of working together

internationally and nationally toward a solution of the production constraints.

Intercropping: proceedings of the second symposium on intercropping in semi-arid areas, held at Morogoro, Tanzania, 4-7 August 1980

C.L. Keswani, B.J. Ndunguru, ed.

1982, 168p., IDRC-186e, 0-88936-318-8 *$9.00*

This proceedings deals with agronomy, plant breeding, plant protection, and farming systems research. Each section contains a summary and conclusion of the work presented and selected papers. This second SISA was organized under the auspices of the University of Dar es Salaam, the Tanzania National Scientific Research Council (UTAFITI), and IDRC.

Asian cropping systems research: microeconomic evaluation procedures

G.R. Banta

1982, 56p., IDRC-197e, 0-88936-335-8 *$5.00*

This publication analyzes the microeconomic component of cropping systems research in Southeast Asia and examines the systems network and the role of the International Rice Research Institute (IRRI). It describes the role of the agricultural economist and develops informal economic analysis procedures that will be of value for team economists on the respective research sites.

Multiple cropping in the humid tropics of Asia

A.A. Gomez, K.A. Gomez

1983, 248p., IDRC-176e, 0-88936-304-8 *$12.00*

This book recognizes the great potential of multiple cropping for increasing farm productivity in the humid tropics of Asia, and the unique requirements of multiple-cropping technology. It summarizes the results of current research and development efforts in multiple cropping, evaluates contemporary schools of thought on research and extension methodologies, identifies areas of research and development that are expected to maximize payoffs in terms of increased farm productivity, and describes the Philippine experience in accelerating the adoption by farmers of multiple-cropping techniques.

By-product utilization for animal production: proceedings of a workshop on applied research held in Nairobi, Kenya, 26-30 September 1982

B. Kiflewahid, G.R. Potts, R.M. Drysdale, ed.

1983, 158p., IDRC-206e, 0-88936-365-X *$10.00*

This workshop included sessions on research results and research methodology. The reports of the sessions on research results contain useful information on the use of by-products in animal feeding in different parts of Africa with examples on the use of by-products and animal wastes from other parts of the world, particularly Indonesia and Pakistan.

The section based on research-methodology sessions includes papers on methods employed in evaluating by-products as animal feeds, applying research results, standardizing analytical methods of evaluating the nutritive value of by-products, and difficulties involved in applying research results to farm situations. Tables and diagrams supplement the text.

Crop improvement in Eastern and Southern Africa: research objectives and on-farm research: a regional workshop held in Nairobi, Kenya, 20-22 July 1983

R.A. Kirkby, ed.

1984, 123p., IDRC-218e, 0-88936-396-X *$10.00*

The workshop brought together a small group of scientists working in food-crop improvement programs in Eastern and Southern Africa to discuss planning, conducting, and developing such programs. Emphasis was placed on those methodological aspects common to most crops grown by small-scale farmers, that contributed most to the likelihood that the research results will be utilized by the farmer.

Contained within the report are brief accounts of the local varieties grown and cultivation practices currently employed, institutional organization for crop improvement, and evaluation procedures used in arriving at a new recommendation for extension. The report also includes a summary of a discussion session that looked at the organization of crop-improvement programs, setting of technical objectives and application of selection criteria, and methodology for multi-location and on-farm testing.

Tropical root crops: production and uses in Africa: proceedings of the second triennial symposium of the International Society for Tropical Root Crops — Africa Branch held in Douala, Cameroon, 14-19 August 1983

E.R. Terry, E.V. Doku, O.B. Arene, N.M. Mahungu, ed.

1984, 231p., IDRC-221e, 0-88936-409-5 *$15.00*

A mixture of original research, updates on procedures, literature reviews, and survey reports, this document resulted from the second symposium of the International Society for Tropical Root Crops — Africa Branch with 77 participants from 16 countries. The focus was cassava, yams, cocoyams, and sweet potatoes from the perspectives of breeders, agronomists, soil specialists, plant pathologists, entomologists, nutritionists, food technologists, etc. Learning from past successes and failures, many of the researchers directed their efforts toward problems obstructing progress in research for improved production and use of root crops and attempted to view realistically the context in which their results would be applied. The publication includes a list of participants.

(Will be available in French, Fall 1984)

Economic and Social Development

Resource allocation to agricultural research: proceedings of a workshop held in Singapore, 8-10 June 1981

). Daniels, B. Nestel, ed.

981, 170p., IDRC-182e, 0-88936-314-5 *$9.00*

This proceedings focuses on the existing allocation systems n developing countries. It examines the personnel needs, rganization of work, research policy, and decision-making nvolved in the allocation of funds for agricultural research. It vill be of interest to researchers and policymakers in devel- ping countries. A list of participants is included.

(Also available in French and Spanish)

Tourism in the Caribbean: the economic impact

S.B. Seward, B.K. Spinrad, ed.

982, 163p., IDRC-196e, 0-88936-334-X *$12.00*

The economic implications of tourism in Antigua, Aruba, St. Lucia, and the United States Virgin Islands are described. The book includes detailed studies that assess tourism's con- ribution to gross domestic product, employment, consumer xpenditures, seasonal fluctuations, and tax revenues. It will e of interest to policymakers, planners, and academics. Critical areas for further research and the need for ongoing lata collection and analysis throughout the Caribbean are mphasized. A bibliography is included.

Agricultural policy in India: growth with equity

.S. Sarma

982, 94p., IDRC-201e, 0-88936-347-1 *$5.00*

This study reviews agricultural policies as they have volved in India, assesses their impact on the economy, and xamines the conflicts between growth and equity in the gricultural sector. The book includes a bibliography and oncluding observations.

Livestock in Asia: issues and policies

.C. Fine, R.G. Lattimore, ed.

982, 192p., IDRC-202e, 0-88936-353-6 *$9.00*

This monograph was developed from papers presented at conference held in Singapore. It examines a number of mportant agricultural policy issues that identify the economic nd social factors involved to increase livestock production. A discussion summary and a list of participants are included.

Education

Teaching yourself in primary school: report of a seminar on self-instructional programs held in Quebec, Canada, 12-15 May 1981

IDRC, Ottawa

1981, 108p., IDRC-185e, 0-88936-319-6 *$7.00*

This seminar brought together people with a range of research and development experience in the field of self-instruction in primary school. The book provides a projection of future needs in research and application of results. A list of participants is included.

(Also available in French)

Educational innovation in the Philippines: a case study of Project Impact

P.V. Flores

1981, 88p., IDRC-TS36e, 0-88936-294-7 *$6.50*

This case study presents an historical account of the politics of innovation, implementation, and dissemination on Project Impact in the Philippines. It deals with the program instruction, peer teaching, educational projects, and project evaluation involving cost and effectiveness.

Eight years of their lives: through schooling to the labour market in Chile

E. Schiefelbein, J.P. Farrell

1982, 207p., IDRC-191e, 0-88936-326-9 *$12.00*

This study traces 8 critical years in the lives of many young Chileans, through the various stages of the school systems and into the labour market. The objective of the study has been to try to find ways to move from the less preferable to the more tolerable version of social-distribution problems in Chile. This publication is of interest to educational policymakers at all levels.

Financing educational development: proceedings of an international seminar held in Mont Sainte Marie, Canada, 19-21 May 1982

IDRC, Ottawa, CIDA, Ottawa

1982, 142p., IDRC-205e, 0-88936-361-7 *$8.00*

This proceedings contains papers presented and relevant comments on educational economics and financing in developing countries. It includes a list of participants.

(Also available in French)

Educational networks in Latin America: their role in the production, diffusion, and use of educational knowledge

E. Schiefelbein

1982, 44p., IDRC-TS39e, 0-88936-350-1 *$3.50*

This report deals with major educational networks operating in Latin America. It identifies overlapping and possible social forces that are shaping the development of these networks and provides information that could be used in future forums on educational research. Research is defined in this report as any activity that leads to better information or produces findings relevant to policy formation. The book contains a list of periodical publications with Latin American distribution.

(Also available in French and Spanish)

Educational research environments in the developing world

S. Shaeffer, J.A. Nkinyangi, ed.

1983, 288p., IDRC-213e, 0-88936-378-1 *$15.00*

This monograph discusses the world of educational research through the various environments — content research, research for planning, evaluation research, and action research. It looks at the use of educational research to understand the state of the education system and its policies. The publication includes several case studies from Africa, Asia, Latin America, the Caribbean, and the Middle East.

(Will be available in French, Fall 1984)

Preventing school failure: the relationship between preschool and primary education: proceedings of a workshop on preschool research in Bogotá, Colombia, 26-29 May 1981

CIID, Ottawa, Ford Foundation, Office for Latin America and the Caribbean, Bogotá, Colombia

1983, 178p., IDRC-172e, 0-88936-300-5 *$10.00*

Early childhood stimulation is examined in the light of case studies and the national program presented. The publication is divided into three major parts: research and action in preschool and primary education, consideration of the problems, and general discussions and recommendations. A list of participants is included.

(Also available in Spanish)

Educational financing in developing countries: research findings and contemporary issues

E. Schiefelbein

1983, 168p., IDRC-TS38e, 0-88936-348-X *$8.00*

This publication discusses educational financing, cost of education, and educational research, both in public education and higher education. Educational and statistical tables are included.

(Also available in French)

Universal primary education in Tanzania

I.M. Omari, A.S. Mbise, S.T. Mahenge, G.A. Malekela, M.P. Besha
1983, 87p., IDRC-TS42e, 0-88936-359-5 *$8.00*

This technical study discusses primary education in Tanzania by highlighting aspects of educational policy, educational enrollment, aims of education, and the economics of education. It presents the trends in teacher training, quality of education and provides educational statistics and references.

Education research: the English-speaking Caribbean

E.L. Miller
1984, 199p., IDRC-TS46e, 0-88936-399-4 *$10.00*

This technical study traces the origins and evolution of educational research in the English-speaking Caribbean; explores its social and historical dimensions; examines in considerable detail the existing resources for educational research in the Windward and Leeward Islands, Bahamas, Barbados, Guyana, Belize, Jamaica, and Trinidad; and takes a look at some regional projects. The author makes a strong case for assigning higher priority to educational research than it has so far been accorded.

Energy

Rural energy in Fiji: a survey of domestic rural energy use and potential

S. Siwatibau
1981, 132p., IDRC-157e, 0-88936-256-4 *$10.00*

The author discusses the present use of current energy in rural Fiji and evaluates alternative sources of energy supplies. The advisability of expanding the use of biogas and the possibility of improving conditions of domestic cooking, notably through conservation, are assessed. The monograph includes case studies and tables of statistics.

Renewable resources in the Pacific: proceedings of the 12th Pacific Trade and Development Conference, held in Vancouver, Canada, 7-11 September 1981

H.E. English, A. Scott, ed.
1982, 293p., IDRC-181e, 0-88936-312-9 *$15.00*

This proceedings covers such issues as management of transboundary migratory fish stocks; joint ventures between distant-water fishing fleets and coastal regions; foreign investment in forest harvesting and wood processing; access for products of developing countries to developed-country markets; and technology transfer and cooperation at the research frontiers of conservation and utilization in fish, forests, and fuels. A list of participants and a bibliography are included.

Fisheries

Tropical oysters: culture and methods
D.B. Quayle
1980, 80p., IDRC-TS17e, 0-88936-181-9 *$6.00*
This comprehensive manual is of use to both researchers and field personnel involved in producing tropical oysters. Detailed instructions, glossary, and references should be a practical guide that elaborates issues touched upon by the film "Oyster Farming in the Tropics" (available from IDRC) for those who seek to produce oysters and other bivalves for food in the tropics.
(Also available in French and Spanish)

Induced fish breeding in Southeast Asia: report of a workshop held in Singapore, 25-28 November 1980
F.B. Davy, A. Chouinard, ed.
1981, 48p., IDRC-178e, 0-88936-306-4 *$4.50*
This report summarizes discussion sessions on gonadal maturation, gametic preservation, induced spawning, and larval rearing. A list of participants and recommendations for research priorities are included as is a microfiche of country reports.

Science of the culture of freshwater fish species in China
IDRC, Ottawa
1981 (set of 17 microfiche), IDRC-TS16e, 0-88936-180-0 *$10.00*
The history of Chinese freshwater fisheries is presented and the utilization of resources, fish culture, propagation of cultured fishes, fish feed, prevention and cure of disease, and fish processing are discussed.

Aquaculture economics research in Asia: proceedings of a workshop held in Singapore, 2-5 June 1981
Cosponsored by IDRC and the International Center for Living Aquatic Resources Management
IDRC, Ottawa, ICLARM, Manila
1982, 128p., IDRC-193e, 0-88936-330-7 *$12.00*
Fisheries biologists and economists from nine South and Southeast Asian countries discussed the economic principles of existing and experimental aquacultural production systems, as well as aquaculture's contribution to society as a whole. Case studies were presented. The book includes a list of participants and a selected bibliography.

Fish by-catch . . . bonus from the sea: report of a technical consultation on shrimp by-catch utilization held in Georgetown, Guyana, 27-30 October 1981

Cosponsored by FAO and IDRC

FAO, Rome, IDRC, Ottawa

1982, 163p., IDRC-198e, 0-88936-336-6 *$15.00*

This consultation was attended by specialists from 20 countries and 10 agencies. Background documents and papers presented a varied experience in the recovery, processing, and marketing of fish by-catch in all the developing regions of the world. This report is of interest to executive administrators, policymakers, and all personnel involved in fisheries development. It includes a list of participants and a bibliography.

(Also available in French and Spanish)

Bivalve culture in Asia and the Pacific: proceedings of a workshop held in Singapore, 16-19 February 1982

F.B. Davy, M. Graham, ed.

1982, 90p., IDRC-200e, 0-88936-343-9 *$5.00*

This proceedings reviews culture practices, postharvest handling, economics of mollusc management, and future research needs for bivalve producers. It presents Asian and Pacific country reports and includes a list of participants and a bibliography.

(Also available in French and Spanish)

Fish quarantine and fish diseases in Southeast Asia: report of a workshop held in Jakarta, Indonesia, 7-10 December 1982

UNDP/FAO South China Sea Fisheries Development and Coordinating Program, Manila, IDRC, Ottawa

1983, 79p., IDRC-210e, 0-88936-376-5 *$5.00*

This report presents a summary of the workshop and the recommendations that were developed. It considers the status of fish-disease research and legislation, fish-disease agents and hosts, and fish quarantine and certification and includes country reports for Indonesia, Malaysia, the Philippines, Singapore, and Thailand.

Rearing of marine fish larvae in Japan

K. Kuronuma, K. Fukusho

1984, 109p., IDRC-TS47e, 0-88936-406-0 *$10.00*

An IDRC-sponsored regional workshop on induced fish breeding prompted considerable interest in further information on the most suitable approaches, facilities, and equipment for the improved rearing of larvae of many marine finfish species. Subsequent examination revealed that this information could not be found in a single text suitable for use in the developing countries. This technical study is the result of a detailed review of the literature on the subject — most of which was available only in Japanese — and constitutes a summary account of the state of the art in induced

fish breeding in Japan today. It consists of three main parts: an introduction to aquaculture in Japan, the basic principles involved in the rearing of marine fish larvae that have been developed in Japan, and the application of these techniques to rearing larvae of selected species of fish. Sources are provided at the end of each section with full bibliographic detail in the reference list.

Food and Nutrition

Nutritional standards and methods of evaluation for food legume breeders

J.H. Hulse, K.O. Rachie, L.W. Billingsley
1977, 100p., IDRC-TS7e, 0-88936-137-1 *$6.00*

This book describes nutritional quality standards in legume plant breeding, including recommendations for standards of food composition. It also discusses physical and chemical analysis, food analysis, and biological evaluation techniques.

Improving small-scale food industries in developing countries

W. Edwardson, C.W. MacCormac, ed.
1984, 167p., IDRC-TS48e, 0-88936-398-6 *$10.00*

Small- and medium-sized food-processing industries are the main source of low-cost traditional food products in the developing countries. They also constitute an important source of employment and income. Several countries are now taking steps to strengthen the sector by attempting to match local skills and industry with local market conditions. A strong small- to medium-scale industrial sector is perceived as a solid basis for the development of larger-scale industry in the future. This text summarizes the most recent of the continuing discussions (at workshops held in Singapore in 1980, Bangkok in 1981, and Vancouver in 1983) on how industrial research and extension services can best be made available to the small-scale food processor.

Forestry

Rattan: a report of a workshop held in Singapore, 4-6 June 1979

IDRC, Ottawa
1980, 76p., IDRC-155e, 0-88936-251-3 *$3.50*

This workshop describes the geographic distribution of rattan, the cultivation techniques, harvesting and marketing processes. The report includes a list of participants and a bibliography.

Leucaena research in the Asian-Pacific region: proceedings of a workshop held in Singapore, 23-26 November 1982

IDRC, Ottawa

1983, 192p., IDRC-211e, 0-88936-372-2 *$8.00*

The workshop was convened to consolidate research on *Leucaena leucocephala*'s multiple uses as forage, fuelwood, poles, and green manure. This report summarizes recent research and technical advances with *Leucaena*; advises on *Leucaena* wood and forage production; assesses major ecological and socioeconomic constraints to *Leucaena* production, evaluating the potential of other nitrogen-fixing species; and identifies research needs and priorities for development.

General Interest

A decade of learning: International Development Research Centre, Agriculture, Food and Nutrition Sciences Division — the first ten years

IDRC, Ottawa

1981, 180p., IDRC-170e, 0-88936-297-1 *$6.00*

This publication reviews the projects and programs of IDRC's Agriculture, Food and Nutrition Sciences Division during its first 10 years of operation. The history, philosophy, and style of the division are presented along with an examination of activities in each of the principal developing regions as well as a summation of experience and an outline of future directions.

(Also available in French and Spanish)

International Development Research Centre projects, 1970-1981

IDRC, Ottawa

1982, 384p., IDRC-180e, 0-88936-308-0 *No charge*

This publication represents 10 years of research activity supported by the Centre.

(Also available in French and Spanish)

IDRC annual report 1983-1984/Rapport annuel CRDI 1983-1984

IDRC, Ottawa

1984 (in press), IDRC-003/84 e,f, 0-88936-415-X *No charge*

Searching: review of IDRC activities 1983

IDRC, Ottawa

1984, 40p., IDRC-220e, 0-88936-401-X *No charge*

(Also available in French and Spanish)

Health Care

SALUS: low-cost rural health care and health manpower training: an annotated bibliography with special emphasis on developing countries

A series of annotated bibliographies published from the IDRC's computerized data base of nontraditional methods of delivering health care, and the training and use of auxiliary health workers in remote regions of developing countries.

(Volume 7)
R.M. Bechtel, ed.
1981, 144p., IDRC-165e, 0-88936-287-4 *$10.00*

(Volume 8)
R.M. Bechtel, ed.
1981, 143p., IDRC-173e, 0-88936-301-3 *$10.00*

(Volume 9)
R.M. Bechtel, ed.
1982, 149p., IDRC-187e, 0-88936-322-6 *$10.00*

(Volume 10)
R.M. Bechtel, ed.
1983, 148p., IDRC-216e, 0-88936-388-9 *$10.00*

(Volume 11)
R.M. Bechtel, ed.
1984, 134p., IDRC-222e, 0-88936-410-9 *$10.00*

SALUS: Low-cost rural health care and health manpower training: a cumulative index to volumes 1-10
R.M. Bechtel, ed.
1983, 150p., IDRC-217e, 0-88936-389-7 *$10.00*

Traditional medicine in Zaire: present and potential contribution to the health services
IDRC, Ottawa
1980, 40p., IDRC-137e, 0-88936-222-X *$3.50*

Traditional medicine in Zaire and its potential contribution to health services are described. Traditional culture and the social aspects of the population served by the auxiliary health workers are studied as well as the legal and health policies affecting the traditional healers.

Role of cassava in the etiology of endemic goitre and cretinism
A.M. Ermans, N.M. Mbulamoko, F. Delange, R. Ahluwalia, ed.
1980, 182p., IDRC-136e, 0-88936-220-3 *$10.00*

This monograph summarizes a series of clinical and experimental studies of endemic goitre and cretinism. It establishes clearly that, in Central Africa, these conditions are caused by iodine deficiency and a goitrogen found in cassava. The study was carried out on the basis of an alternation between clinical and experimental studies. A listing of general conclusions and a list of references are included.

Nutritional factors involved in the goitrogenic action of cassava

F. Delange, F.B. Iteke, A.M. Ermans, ed.
1982, 100p., IDRC-184e, 0-88936-315-3 *$6.0(*

This monograph is a continuation of the study reported by Ermans et al. in "Role of cassava in the etiology of endemic goitre and cretinism" (IDRC-136e). It sheds new light on the nutritional and environmental aspects of cassava toxicity. The findings have important practical implications for the health and development of millions of people in developing countries whose diet is based on cassava. A listing of general conclusions and a list of references are included.

Cassava toxicity and thyroid: research and public health issues: proceedings of a workshop held in Ottawa, Canada, 31 May - 2 June 1982

F. Delange, R. Ahluwalia, ed.
1983, 148p., IDRC-207e, 0-88936-368-4 *$10.00*

This proceedings reports on the research relationship between the consumption of cassava and thyroid condition in humans. It reviews results of IDRC-supported studies on the role of cassava in the etiology of endemic goitre and cretinism as well as the research activities on agricultural and public health aspects of cassava. Conclusions and recommendations are presented and a list of participants is included.

(Will be available in French and Spanish, Fall 1984)

Housing and Urban Planning

Low-income urban shelter projects: an annotated bibliography of research funded by IDRC-IBRD

IDRC, Ottawa, IBRD, Washington
1982, 61p., IDRC-TS41e, 0-88936-355-2 *$3.50*

This report lists and, in most cases, summarizes the major research outputs of the evaluation supported by the IDRC and the World Bank of four of the first IBRD-financed low-income urban housing projects. The projects supported the creation of locally staffed evaluation units to conduct a 5-year evaluation of housing projects in El Salvador, Zambia, Senegal, and the Philippines.

(Also available in French and Spanish)

Basic housing: policies for urban sites, services, and shelter in developing countries

A.A. Laquian
1983, 163p., IDRC-208e, 0-88936-370-6 *$8.00*

This study on basic housing focuses on the evaluations of community-upgrading and sites-and-services programs in El Salvador, the Philippines, Senegal, and Zambia. It draws on actual experiences in the formulation and implementation of basic housing policies designed to improve the living conditions of the urban poor. This monograph attempts to deter-

mine the extent to which the goals of the projects are being achieved; to assess the impact of the projects on the people living in the project areas, on the neighbouring communities affected by them, on the urban structure, and on the city as a whole; and to compile information that would facilitate the design and implementation of effective policies and projects.
(Also available in French)

A place to live: more effective low-cost housing in Asia

Y.M. Yeung, ed.
1983, 216p., IDRC-209e, 0-88936-371-4 *$12.00*

This review of specific housing programs and policies regarding low-cost housing in Asia features papers presented at a 1981 seminar jointly sponsored by the Directorate General of Housing, Building, Planning and Urban Development of Indonesia and the IDRC. Among the topics considered are housing programs in Singapore; low-cost, low-income housing in Malaysia; urban housing in Bangkok; slum-improvement programs in the Philippines; and urban-development programs and processes in Hong Kong.

Information Systems and Dissemination

Devindex: index to selected literature on economic and social development/Index d'ouvrages sur le développement économique et social

A series of annotated bibliographies of material published in Canada on economic and social development in developing countries as part of the DEVSIS project.

1980
IDRC, Ottawa
1982, 174p., IDRC-194e,f, 0-88936-331-5 *$10.00*

1981
IDRC, Ottawa
1982, 186p., IDRC-203e,f, 0-88936-358-7 *$10.00*

1982
IDRC, Ottawa
1983, 302p., IDRC-214e,f, 0-88936-379-X *$10.00*

1983
IDRC, Ottawa
1984, 222p., IDRC-223e,f, 0-88936-411-7 *$10.00*

Information retrieval and library management: an interactive minicomputer system

F.A. Daneliuk
1978, 16p., IDRC-TS14e, 0-88936-170-3 *$2.00*

This technical study describes the background and feasibility study of the implementation of IDRC's bibliographic information system on a minicomputer, discusses systems

design and computer programing work done at IDRC. A bibliography is included.

(Also available in French)

Dissemination of scientific information in the People's Republic of China

K.P. Broadbent

1980, 60p., IDRC-148e, 0-88936-238-6 *$5.00*

This monograph presents findings concerning library and information services and their related mechanization problems in the People's Republic of China. It outlines the vocational training required for library automation, the use of computers, and current trends and developments in science and technology information. A list of acronyms is included.

CDS/ISIS and MINISIS: a functional analysis and comparison

R.L. Valantin

1981, 88p., IDRC-TS37e, 0-88936-296-3 *$6.50*

This technical study examines closely the most recent versions of CDS/ISIS and MINISIS, the functions of the two systems that are similar, and identifies the differences.

Computer-based conferencing systems for developing countries: report of a workshop held in Ottawa, Canada, 26-30 October 1981

D. Balson, R. Drysdale, B. Stanley, ed.

1982, 43p., IDRC-190e, 0-88936-325-0 *$4.00*

This report discusses the opportunities that computer-based conferencing offers to developing countries, as well as its technical feasibility. It includes a brief summary by the participants, a list of participants, and recommendations for future concepts in telecommunications for developing countries.

(Also available in French)

Recommended methods for development-information systems, volume 1: manual for the preparation of records in development-information systems

G. Morin-Labatut, M. Sly

1982, 272p., IDRC-TS40e, 0-88936-354-4 *$15.00*

This style manual provides information concerned with cataloguing, analysis, and recording of accumulated information based on the DEVSIS program.

International socioeconomic information systems: an evaluation study of DEVSIS-type programs

W.O. Aiyepẹku

1983, 100p., IDRC-TS43e, 0-88936-366-8 *$5.00*

The DEVSIS model has been applied to information initiatives in many regions of the world. This publication represents the first in-depth evaluation of DEVSIS-type information systems and outlines the objectives and organization

and presents a resumé of the operational DEVSIS-type systems. It examines their economic and social development in Africa, Latin America, and the Caribbean.

(Also available in French and Spanish)

Checklist of publications associated with IDRC and recorded in AGRIS: 1975-1982

IDRC, Ottawa

1983, 79p., IDRC-TS44e, 0-88936-390-0 *$8.00*

This bibliography lists documents on the agricultural sector supported by IDRC and recorded in AGRIS, the International Information System for the Agricultural Sciences and Technology. Generally, the documents described were originally published during the years from 1974 through 1981. It includes items published elsewhere for which IDRC is shown as the affiliation of an author. Items copublished by IDRC or produced as a result of work financed by IDRC are incorporated as well. This checklist includes a personal author index, corporate entry list, commodities index, and two geographical indexes. Entries are in English, French, and Spanish.

Postharvest Technology

Food systems: an account of the postproduction systems program supported by the International Development Research Centre

R.S. Forrest, W. Edwardson, S. Vogel, G. Yaciuk

1979, 72p., IDRC-146e, 0-88936-235-1 *No charge*

This publication describes the postproduction research being supported by the AFNS Division of IDRC. It includes short reports on each of the projects within the Postproduction Systems Program up to September 1979. Addresses of project leaders are included for those who wish more detailed information.

(Also available in French)

Food drying: proceedings of a workshop held at Edmonton, Alberta, 6-9 July 1981

G. Yaciuk, ed.

1982, 104p., IDRC-195e, 0-88936-333-1 *$8.00*

The workshop covered the most important areas in the design and operation of a drying system: drying requirements, consumer acceptance, heat and mass transfer, and heat sources. The theory and design of a drying chamber and process control are explained and an operational, full-scale drying system is examined. Examples are given in the use of the sun's energy, petroleum products, agricultural wastes, and wood as heat sources for a drying process. Recommendations are made and proposals for future work are given.

(Also available in French)

Rural Development

Caqueza: living rural development
H. Zandstra, K. Swanberg, C. Zulberti, B. Nestel
1979, 321p., IDRC-107e, 0-88936-167-3 *$15.00*

This monograph describes the "Caqueza Project" of the Instituto Colombiano Agropecuario (ICA) — a rural development project aimed at the development of a strategy for the transference of technical, economic, and social knowledge to small farmers in the Caqueza region of Colombia. The book traces the progress of the project through its first 5 years and shows how achievement of its objectives has resulted in increased crop and animal yields in the region.

(Also available in Spanish)

Beyond Manila: Philippine rural problems in perspective
G.T. Castillo
1979, 420p., IDRC-116e, 0-88936-191-6 *$18.00*

A detailed picture of the problems affecting the rural Philippines is presented. The book outlines patterns of employment and income sources; examines farms and farm labourers; the Philippine family and household; rural youth; education, development, and social structure; and technology transfer in agriculture and family planning. It includes a bibliography.

The future of pastoral peoples: proceedings of a conference held in Nairobi, Kenya, 4-8 August 1980
J.G. Galaty, D. Aronson, P.C. Salzman, A. Chouinard, ed.
1981, 396p., IDRC-175e, 0-88936-303-X *$20.00*

The proceedings presents conference papers by social scientists, representatives of research institutes, development planners, and administrators addressing problems of pastoral peoples. It discusses the programs and policies designed to aid pastoral peoples in developing countries and includes a discussion summary, research recommendations, and a list of participants.

(Also available in French)

Coming full circle — farmers' participation in the development of technology
P. Matlon, R. Cantrell, D. King, M. Benoit-Cattin, ed.
1984, 176p., IDRC-189e, 0-88936-324-2 *$12.00*

Involving farmers in identifying the constraints to rural agriculture and in designing measures to alleviate them is the subject of this publication. Agronomists, economists, anthropologists, and others seeking to get the most from research efforts discuss the pitfalls of assembling packages that have flaws because the developers have overlooked some crucial constraint at the farm level. The gaps between results on research stations and those on farms in the Third World have prompted some researchers to view the farmers' condi-

tions as the real laboratories. Why, how, where, and when to get farmers involved in research are the focus of this document, and the degree to which researchers have been able to listen and work with their new partners varies. The book includes a bibliography and list of participants.

(Will be available in French, Fall 1984)

Social scientists in agricultural research: lessons from the Mantaro Valley project, Peru

D.E. Horton

1984, 67p., IDRC-219e, 0-88936-400-1 *$8.00*

Social scientists are latecomers to agricultural research programs and, although most members of the International Agricultural Research Centers now employ economists, few have anthropologists or sociologists on staff. The exception, however, is the International Potato Center (CIP) in Lima, Peru, which has had a "socioeconomic unit" since 1975. This monograph summarizes the experiences and results of the Mantaro Valley project (1977-80) in which an interdisciplinary team consisting of biological and social scientists worked to develop and field test procedures for on-farm potato research. The anthropologist and sociologist were a key element in the approach and success of the project. Moreover, on-farm research has become an integral part of CIP's research and technology-transfer system and a range of survey and experimental techniques developed during the project are routinely employed in CIP's programs.

(Also available in French and Spanish)

Science and Technology Policy

Science and technology for development: main comparative report of the Science and Technology Policy Instruments project

F. Sagasti

1978, 112p., IDRC-109e, 0-88936-174-6 *$8.50*

This report on the Science and Technology Policy Instruments (STPI) project on the implementation of science policy in developing countries studies the role of science and technology in economic development, particularly in the industrialization process; mechanisms of policy formulation, decision-making, and policy implementation; factors affecting technological change; and industrial administration.

(Also available in French)

Canada's role in science and technology for development: proceedings of a symposium held at the Ontario Science Centre, Toronto, Canada, 10-13 May 1979

J.K. Gordon, ed.

1979, 136p., IDRC-141e, 0-88936-230-0 *$5.00*

This report outlines a symposium sponsored by IDRC to study how Canada could mobilize more effectively its scienti-

fic and technological resources, in close collaboration with developing countries, to assist with the achievement of their development objectives.

Science and technology for development, STPI Module 7: policy instruments to define the pattern of demand for technology

S. Barrio

1980, 91p., IDRC-TS27e, 0-88936-265-3 *$3.50*

This technical study describes industrial programing and mechanisms for setting priorities for industry; industrial financing mechanisms; fiscal measures and price controls; and export promotion measures in the STPI countries.

Consulting and engineering design in developing countries

A. Aráoz, ed.

1981, 140p., IDRC-161e, 0-88936-278-5 *$7.00*

This report examines consulting and engineering design organizations in developing countries, presenting case studies from Korea, Brazil, the Philippines, and Argentina. It includes notes for further research.

Priorities for science and technology policy research in Africa: report of a seminar held at the University of Ife, Ile-Ife, Nigeria, 3-6 December 1979

IDRC, Ottawa, ECA, Addis Ababa

1981, 32p., IDRC-162e, 0-88936-279-3 *$3.00*

This report discusses science and technology policy research in Africa, examining challenges and prospects, research priorities, labour requirements, and project proposals. It includes a list of participants.

(Also available in French)

Absorption and diffusion of imported technology: proceedings of a workshop held in Singapore, 26-30 January 1981

IDRC, Ottawa

1983, 112p., IDRC-171e, 0-88936-298-X *$9.00*

This proceedings presents studies on the accumulation of technological capability and assimilation of imported industrial technology in Bangladesh, Pakistan, India, Sri Lanka, Korea, and Indonesia. It includes a comparative analysis of technology policies of ADIT network countries as well as conclusions and a list of participants.

Transport

Low-cost transport in Asia: a comparative report on five cities

R.B. Ocampo

1982, 77p., IDRC-183e, 0-88936-313-7 *$6.00*

This report discusses the results of low-cost transport studies conducted during 1976-77 by university research teams in Indonesia, the Philippines, Thailand, and Turkey. It describes the objectives and the research methods and summarizes the research questions and major findings of the studies. Sample surveys are included.

Water Supply and Sanitation

Wastewater treatment and resource recovery: report of a workshop on high-rate algae ponds, Singapore, 27-29 February 1980

IDRC, Ottawa, Singapore Ministry of National Development

1980, 47p., IDRC-154e, 0-88936-260-2 *$4.50*

This report discusses wastewater, water treatment, waste recycling, and renewable resources. It examines cultivation techniques, food production, harvesting, and processing in Singapore and Israel. A list of participants and a bibliography are included.

Rural water supply in developing countries: proceedings of a workshop on training held in Zomba, Malawi, 5-12 August 1980

IDRC, Ottawa

1981, 144p., IDRC-167e, 0-88936-292-0 *$9.00*

This proceedings discusses low-cost renewable energy technologies now available or being field tested. It examines the role of training in operation and maintenance, community participation, health, education, economic, and sociocultural aspects of water-supply delivery. It presents guidelines for new directions in rural water supply training.

(Also available in French)

Sanitation in developing countries: proceedings of a workshop on training held in Lobatse, Botswana, 14-20 August 1980

IDRC, Ottawa

1981, 172p., IDRC-168e, 0-88936-293-9 *$9.00*

This proceedings discusses sanitation and waste-disposal techniques in Ethiopia, Kenya, Tanzania, Malawi, Botswana, Zambia, Mozambique, and Lesotho. It examines development and training programs for professional, technical, and village-level personnel. Recommendations for specific follow-up activities are included.

(Also available in French)

Rural water supply in China
IDRC, Ottawa
1981, 92p., IDRC-TS25e, 0-88936-261-0 *$7.00*

A translation from five Chinese manuals on water supply techniques, this report discusses potable water, source improvement, water treatment, supply configurations, and well drilling and repairs.

Village handpump technology: research and evaluation in Asia
D. Sharp, M. Graham, ed.
1982, 72p., IDRC-204e, 0-88936-360-9 *$4.00*

This monograph presents summaries of the results of IDRC's Asian network of water-supply projects. It identifies future research priorities, specifically the need to investigate large-scale manufacturing of the polyvinyl chloride (PVC) pump and the social and public-health factors that are an essential part of the program.

(Also available in French and Spanish)

Forthcoming Publications

The rural university
F. Arbab
1984

The rural university is an experience in education and development to which many people have contributed over about a decade. It began when a small group of university professors in Colombia became intensely involved in the community life of a nearby rural region; it gradually grew to be organized within an institution with its own well defined concept and methods. In this book, Farzam Arbab, as the voice of the professors who founded the rural university, describes the evolution of the training and curricula and the philosophy behind the work. He reexamines the concepts of rural development prevalent during the past few decades and provides much food for thought, not only for educators but also for development personnel, agencies, etc. Most of the graduates — promoters, technicians, and engineers of rural well-being — are a cadre of young people who are investing efforts in improving life in the rural areas rather than migrating to the nearby city of Cali.

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