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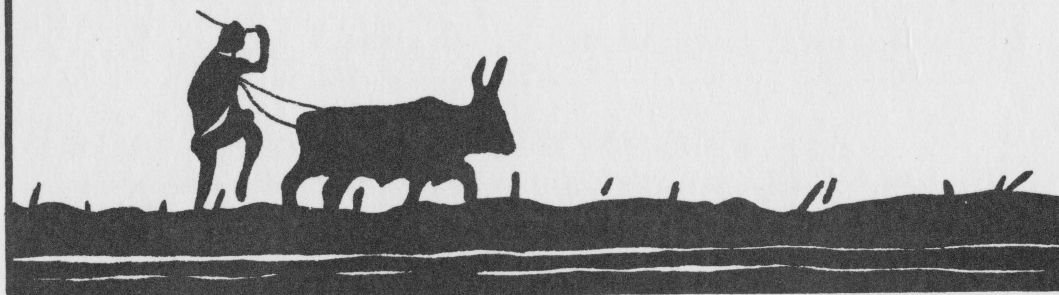
A FARMING SYSTEMS RESEARCH
BIBLIOGRAPHY OF KANSAS STATE
UNIVERSITY'S VERTICAL FILE MATERIALS:
1991 SUPPLEMENT

Nancy H. Donoghue and Dean A. Hargett
Compilers and Editors

Paper No. 4S3
Supplement Three
to the
Revised Edition
Fall 1991

FARMING SYSTEMS RESEARCH

PAPER SERIES



RESOURCES ON DEVELOPING COUNTRIES

KANSAS STATE UNIVERSITY,
MANHATTAN, KANSAS 66506 U.S.A.

A FARMING SYSTEMS RESEARCH
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FARMING SYSTEMS RESEARCH PAPER SERIES

Kansas State University's Farming Systems Research (FSR) Paper Series is supported by the U.S. Agency for International Development Title XII Program Support Grant. The goal of the Program Support Grant is to increase the University's ability to implement Title XII agricultural and nutritional development assistance programs in developing countries. This paper series is maintained by the FSR Program Associates -- a multidisciplinary team of professors who are aiming their activities at applied research on farming from a systems perspective.

The purpose of the FSR Paper Series is to disseminate information on FSR. Publication categories include updated bibliographies from KSU's FSR data base; proceedings from KSU's FSR Systems Symposium; selected papers presented in KSU's FSR Seminar Series; and selected papers prepared by KSU's Program Associates.

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Vernon C. Larson
Director
International Agricultural Programs

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The Technical Advisory Committee's Review Team of Farming Systems Research has defined a farming system as:

"a complicated, interwoven mesh of soils, plants, animals, implements, workers, other inputs and environmental influences with the strands held and manipulated by a person called the farmer who, given his [or her] preferences and aspirations, attempts to produce output from the inputs and technology available to him [or her]. It is the farmer's unique understanding of his immediate environment, both natural and socio-economic, that results in his [or her] farming system."

It goes on to describe FSR as:

"research (including training) which: (1) is conducted with a recognition of and focusing towards the interdependencies and inter-relationships that exist among elements of the farm system, and between these elements and the farm environment; and (2) is aimed at enhancing the efficacy of farming systems through the better focusing of agricultural research so as to facilitate the generation and testing of improved technology.

"The major activities involved in FSR are:

- (a) The collection and analysis of base data;
- (b) The study of existing farming systems;
- (c) The design of new farming systems;
- (d) Farm systems experimentation; and
- (e) The evaluation and monitoring of new farming systems."¹

THE SUPPLEMENT . . .

is the result of the KSU Farming Systems Research Program's ongoing documentation effort, and lists FSR vertical file material and selected publications with Library of Congress classification numbers found within KSU's Farrell Library. A complete listing of FSR documents at KSU cited prior to this supplement can be found in the following three previously issued bibliographies:

Graham, Gretchen A., ed. A Farming Systems Research Bibliography of Kansas State University's Vertical File Materials (Revised Ed.). Farming Systems Research Paper Series no. 4. Manhattan, Kan.: Resources on Developing Countries, Farrell Library, Kansas State University. 1986.

Young, Noel D. and Elsa Eaton, eds. A Farming Systems Research Bibliography of Kansas State University's Vertical File Materials: Some Selections from the Peter E. Hildebrand Collection, Part One. Farming Systems Research Paper Series no. 4S1 (supplement 1 to the rev. ed.). Manhattan, Kan.: Resources on Developing Countries, Farrell Library, Kansas State University. 1988.

Meyn, Tod L. and Nancy Donoghue, eds. A Farming Systems Research Bibliography of Kansas State University's Vertical File Materials: 1990 Supplement. Farming Systems Research Paper Series no. 4S2 (supplement 2 to the rev. ed.). Manhattan, Kan.: Resources on Developing Countries, Farrell Library, Kansas State University. 1990.

Two other bibliographies in the FSR Paper Series are:

Young, Noel D. and Tod L. Meyn, comps. and eds. Women in Development: Selections from Kansas State University's Vertical File Materials. Farming Systems Research Paper Series no. 21. Manhattan, Kan.: Resources on Developing Countries, Farrell Library, Kansas State University. 1989.

Young, Noel D. and Tod L. Meyn, comps. and eds. Botswana and Bechuanaland Items Held in Farrell Library: A Compendium of Books, Documents, Reports, Journal Articles, and Fugitive Literature, Part One. Farming Systems Research Paper Series no. 20. Manhattan, Kan.: Resources on Developing Countries, Farrell Library, Kansas State University. 1989.

The vertical file material includes unpublished papers, drafts, house organs and other non-conventional items. Keyword, title and primary author indices are provided. The standard for keywording is an "enhanced" CAB Thesaurus. Those items marked with a "++" in the location code have not yet been assigned a Library of Congress classification number.

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Nancy H. Donoghue

Librarian

Resources on Developing Countries

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PARTS OF THE CITATION

accession number	title	place of publication	publisher	citation to larger work
2812	FOOD CONSUMPTION SURVEY IN GUIDIMAKA, GORGOL, BRAKNA AND TRARZA REGIONS.	IN: <u>Farming Systems Research Along the Senegal River Valley</u>	Frankenberger, T.R. (1986) Tucson, Ariz.: Univ. of Arizona, College of Agriculture.	(Mauritania Agricultural Research Project II; Report No.3, Apr. 1986) 105p.
<u>KEYWORDS:</u> Africa, West Africa, Mauritania, semiarid zones, surveys, food consumption, food preferences, food preparation, food prices, food storage, food distribution, wild plants, diseases, women, gardens, food shortages, seasonality MR.3.D				
	keywords			location code

ABBREVIATIONS, ACRONYMS, AND INITIALISMS

AAAS	American Association for the Advancement of Science
AABGA	American Association of Botanical Gardens and Arboreta
ACDI	Agricultural Cooperative Development International
ACIAR	Australian Centre for International Agricultural Research
AD	Agricultural Administration
ADB	Asian Development Bank
ADC	Agricultural Development Council
ADNP	Agricultural Development Ngamiland Project
AFTRCW/UNEC	African Training and Research Centre for Women/United Nations Economic Commission for Africa
AHS	American Horticulture Society
AIA	Agricultor-Investigacion-Agricultor
AICRPDA	?
AID/S&T	Agency for International Development/Bureau for Science and Technology
AID	Agency for International Development
ALDEP	Arable Lands Development Program
APCWD	Asian and Pacific Centre for Women and Development (Bangkok, Thailand)
ASA	American Society of Agronomy
ASAE	American Society of Agricultural Engineers
ASPAC/FFT	Food and Fertilizer Technology Center of the Asian and Pacific Region
ASTA	American Seed Trade Association
ATIP	Agricultural Technology Improvement Project (Botswana)
AVRDC	Asian Vegetable Research and Development Center
BAEP	Bureau of Economic Analysis and Planning
BARC	Bangladesh Agricultural Research Council
BIFAD	Board for International Food and Agricultural Development
BDPA	Bureau pour le developpement de la production agricole
c	copyright
C.I.A.T.	Centro de Investigacion Agricola Tropical (Bolivia)
CAEP	Caribbean Agricultural Extension Project
CARDI	Caribbean Agricultural Research and Development Institute (U. of the West Indies)
CATIE	Centro Agronomico Tropical de Investigacion y Ensenanza
CATIE/ROCAP	Centro Agronomico Tropical de Investigacion y Ensenanza/Regional Office for Central American Programs
CDR	Centre for Development Research
CENDA	Centro de Desarrollo Agropecuario (Zona Norte)

CENDERCO	Centro para el Desarrollo Rural y Cooperativo
CENDHRRA	? (San Juan, Rizal, Philippines)
CENTA/BID	Centro Nacional de Tecnologia Agropecuaria/? (El Salvador)
CENTA	Centro Nacional de Tecnologia Agropecuaria
CEPAL	Economic Commision for Latin America (Santiago, Chile)
CES	Cooperative Extension Service (U.S.)
CGIAR	Consultative Group on International Agricultural Research
CIAR	Centro Internacional de Agricultura Tropical
CIARLA	Centro de Investigaciones Agropecuarias Region Los Andes
CIAT	Centro Internacional de Agricultura Tropical
CID	Consortium for International Development
CIDA	Canadian International Development Agency
CILSS	Comite permanent interetat du lutte contre le secheresse dans le Sahel- Permanent Interstate Committee for Drought Control in the Sahel)
CIMMYT	Centro Internacional de Mejoramiento de Maiz y Trigo
CIP	Centro Internacional de la Papa
CIPEA	Centre international pour l'elevage en Afrique
CLADES	Latin American Centre for Economic and Social Documentation
CLSR	Crop-Livestock Systems Research
CLSU	Central Luzon State University
comp., comps.	compiler, compilers
CRDI	Centre de recherche pour le developpementinternational
CRIA	Central Research Institute for Agriculture (Indonesia)
CRIFC	Central Research Institute for Food Crops
CRSP	Collaborative Research Support Program
DAI	Development Alternatives, Inc.
Dept.	Department
DESFIL	Development Strategies for Fragile Lands
ed., eds.	editor, editors
EFSAIP	Evaluation of Farming Systems & Agricultural Implements Project (Sebele, Botswana)
EMBRAPA	Empressa Brasileira de Pesquina Agropecuaria
et al.	(used when there are more than 3 authors)
FAO	Food and Agriculture Organization of the United Nations
FAO/SID	Food and Agriculture Organization of the United Nations/Swedish International Development Agency
FONAIAP	F o n d o N a c i o n a l d e I n v e s t i g a c i o n e s Agropecuarias(?)/Development(?)(Project)
FSDP-EV	Farming Systems Development Project - Eastern Visayas (Philippines)
FSIP	Farming Systems Improvement Project (Rwanda)
FSR	farming systems research
FSR/E	Farming Systems Research/Extension
FSR/D	Farming Systems Research/Development

FSSP	Farming Systems Support Project (University of Florida, Gainesville)
FSSP/GARD	Farming Systems Support Project (University of Florida, Gainesville)/Gambia Agricultural Research and Diversification (?)
FSSR	Farming Systems Southern Region
FY	fiscal year
GARD	Gambia Agricultural Research and Diversification (?)/Development (?) (Project)
GERDA	Groupement d'études et du recherches pour le developpement de l'agronomie tropical
GIS	geographic information systems
HYVs	high yielding varieties
IAAE	International Association of Agricultural Economists
IADS	International Agricultural Development Service
IAF	Inter-American Foundation
IAFP	International Agricultural and Food Program (Cook College, Rutgers University)
IARCs	International Agricultural Research Centers
IARI	International Agricultural Research Institute
IBPGR	International Board for Plant Genetic Resources
ICA	Instituto Colombiano Agropecuario
ICAR	Indian Council of Agricultural Research
ICARDA	International Center for Agricultural Research in the Dry Areas
ICLARM	International Centre for Living Aquatic Resources Management
ICMRD	International Center for Marine Resource Development
ICRAF	International Center for Research in Agroforestry
ICRISAT	International Crops Research Institute for the Semi-Arid Tropics
ICRW	International Center for Research on Women
ICTA	Instituto de Ciencia y Tecnologia Agricolas-Institute of Agricultural Science and Technology (Guatemala)
IDIAP	Instituto de Investigaciones Agropecuarias de Panama
IDRC	International Development Research Centre
IDS	Institute for Development Studies
IDS	international development strategy
IDWSSD	International Drinking Water Supply and Sanitation Decade
IE&R, IPIA	International Education and Research, International Programs in Agriculture (Purdue U.)
IFAD	International Fund for Agricultural Development
IFDC/IRA	International Fertilizer Development Center/Institute du recherche agronomique
IFOAM	International Federation of Organic Agricultural Movements
IFPP	Integrated Farming Pilot Project (Pelotshetlha)
IFPRI	International Food Policy Research Institute
IIAP	Instituto de Investigaciones Agropecuarias de Panama

IICA/INR	Inter-American Institute for Cooperation on Agriculture/Institute national de recherches agronomiques
IICA/CIDIA	Inter-American Institute for Cooperation on Agriculture - Instituto Interamericano de Ciencias Agricolas de la Organizacion de Estados Americanos/Centro Interamericano de Documentacion e Informacion Agricola
IITA	International Institute of Tropical Agriculture
ILCA	International Livestock Center for Africa
ILO	International Labour Organisation
INCAP	Instituto de Nutricion de Centroamerica y Panama
INIA	Instituto Nacional de Investigaciones Agrarias
INIAP	Instituto Nacional de Investigacion Agropecuaria
INRA	Institute national de la recherche agricole
INRAN	Institute national de recherches agronomiques des Niger
Inst.	Institute
INSTRAW	International Research and Training Institute for the Advancement of Women
INTERPAKS	International Program for Agricultural Knowledge Systems (U. of Illinois, Urbana-Champaign)
INTSORMIL/CRSP	International Sorghum/Millet/Collaborative Research Support Program
INTSORMIL	International Sorghum/Millet
IPIA	International Programs in Agriculture (Purdue University)
IPM	integrated pest management
IRAEN	International Rice Agro-Economic Network
IRAT	Institute des recherches agronomiques tropicales et des cultures vivrieres
IRCs	International Research Centers
IRCT/Mali	Institut de recherche du coton et des textiles exotiques (Mali)
IRRI	International Rice Research Institute
ISA	Investigacion de Sistemas Agropecuarios
ISAR	Institute for Agricultural Research (Rwanda)
ISNAR	International Service for National Agricultural Research
ISRA	Institut Sénégalais de Recherche Agricole - Senegal Agricultural Research Institute
ISS	Institute of Social Studies
IUFS&T	International Union of Food Science & Technology (Goteborg, Sweden)
IUNS	International Union of Nutritional Sciences (Zurich)
KKU	Khon Kaen University, Thailand
KKU/FCSP	Khon Kaen University/Ford Cropping Systems Project
KSU	Kansas State University (Manhattan, Kansas)
LASA	Lesotho Agricultural Sector Analysis Project
MAFC	Ministry of Agriculture, Food and Consumer Affairs (Barbados)
MARC	Monitoring and Assessment Research Centre
MARIF	Malang Research Institute for Food Crops

MDP	Molapo Development Project (Maun)
MF	microfiche
MIAC	MidAmerica International Agricultural Consortium
MIDAS	Managed Inputs and Delivery of Agricultural Services
MP	miscellaneous papers
MSTT	Modular System for Technology Transference
MSU	Michigan State University (East Lansing, Michigan)
n.d.	no date of publication
NADP	Ngamiland and Agricultural Development Project (Gomare)
NARS	national agricultural research systems
NERAD	Northeast Rainfed Agricultural Development Project (Thailand)
NGA	National Grains Authority (Quezon City, Philippines)
NGO	non-governmental organization
NIEO	new international economic order
NOAA	National Oceanic and Atmospheric Administration
NRDP	National Rural Development Project (Malawi)
NSW/ACT	New South Wales/Australian Capital Territory
OAS	Organization of American States
OAU/STRC	Organization of African Unity/Scientific Technical Research Commission
OAU	Organization of African Unity
ODA	Overseas Development Administration
ODI	Overseas Development Institute
OECD	Organization for Economic Cooperation and Development
OLC	Overseas Liaison Committee (American Council on Education)
ORD	Organisme regional de developpement
ORSTOM	Office de la recherche scientifique et technique outre-mer
PACO	Projet Agricole du Centre-Ouest (Ivory Coast)
PAR	planning-centered approach to research
PARC	Pakistan Agricultura Research Council
PASITA	Program of Advanced Studies in Institution Building and Technical Assistance Methodology
PC	paper copy
PCARR	Philippine Council for Agriculture and Resources Research
PCARRD	Philippine Council for Agriculture and Resource Research and Development
PCCMCA	Programa Cooperativo Centroamericano para el Mejoramiento de Cultivos Alimenticios
PGRCE	Plant Genetic Resource Center for Ethiopia
PN	publication number
PR	progress report
PRC	People's Republic of China
PROTAAL	Proyecto Cooperativo de Investigacion sobre Tecnologia Agropecuaria en America Latina

PSCPA	Proyecto de Sistemas de Cultivo para Pequeños Agricultores y del Istmo Centroamericano
PTPA	Proyecto de Tecnología para Pequeños Agricultores
RD	reporting documents
ROC	Republic of China
ROCAP	Regional Office of Central American Programs
RPO	? (World Bank)/International Finance Corporation
RRFH	regular research field hearings
RTN	Research and Training Network
s.l.	no location of publisher/printer
s.n.	no name of publisher/printer
S&T/AGR/AP	Bureau for Science and Technology/Office of Agriculture/?
SACUC	Swaziland Agricultural College and University Centre
SADCC	Southern African Development Coordination Committee
SADDC	Southern African Development Coordination Committee
SAFGRAD	Semi-Arid Food Grains Research and Development Program
SAREC	Swedish Agency for Research Cooperation with Developing Countries
SAT	semi-arid tropics
SEADAG	Southeast Asian Development Advisory Group
SEARCA	Southeast Asian Regional Center for Graduate Study and Research in Agriculture
SIRDO	Integrated System for Recycling Organic Wastes
SOA	School On-The-Air
SR-CRSP	Small Ruminant-Collaborative Research Support Program (Germany)
SSRC/SERP	Social Science Research Centre/Socio-Economic Research Project
STRC/OAU	Scientific Technical Research Commission/Organization of African Unity
SURIF	Sukamandi Research Institute for Food Crops (Subang, West Java, Indonesia)
T&V	training and visit system
TARO	Tanzania Agricultural Research Organization
TES	typical (Developing Country) extension systems
TFNC	Tanzania Food and Nutrition Centre
TIF	Technological Improvement File
Trans.	translation
U.	University
UN	United Nations
UN/ESCAP	United Nations/Economic and Social Commission for Asia and the Pacific
UNAZA	? (Zaire)
UNDP/FAO	United Nations Development Programme/Food and Agriculture Organization of the United Nations
UNESCO	United Nations Educational, Scientific, and Cultural Organization
UNU	United Nations University (Tokyo)
US	United States

USAID	United States Agency for International Development
USDA	United States Department of Agriculture
var.	various (paging)
VITA	Volunteers in Technical Assistance
VLS	village level studies
VLS	village level studies
vol., vols.	volume, volumes
WA	West Africa
WARDA	West Africa Rice Development Association
WHO	World Health Organization
WIADP	Women in Agriculture (Development Project)
WIDRIC	Women and International Development Research and Information Center (U. of Minnesota, Minneapolis, Minnesota)
Winrock	Winrock International Institute for Agricultural Development
WIP	Winrock International publication
WIRFS	Women in Rice Farming Systems
WP	working papers
WSARP	Western Sudan Agricultural Research Project

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- 3014 **CROPPING SYSTEMS RESEARCH AND DEVELOPMENT IN INDONESIA.** IN: Report of the Cropping Systems Working Group: 10th Cropping Systems Working Group Meeting sponsored by the Dept. of Agriculture, Nepal, and the International Rice Research Institute (IRRI), May 28-31, 1979. Ismail, I.G. (1980) s.l.: s.n. (p.48-60) 13p. **KEYWORDS:** Indonesia, IRRI, self-sufficiency, objectives, national programs and projects, intensification, rice, diversification, cropping systems, target selection, technology development, irrigated farming, swamps, extension S602.5/.C76a
- 3015 **ECONOMICS OF IRRIGATED CROPPING PATTERNS.** (Paper prepared for IRRI Saturday Seminar, September 1, 1973) Banta, G.R. (1973)* s.l.: G.R. Banta 26p. **KEYWORDS:** Asia, economic analysis, labor requirements, cost effectiveness, cropping patterns, field tests, agricultural economics, intercropping ASIA.1.A
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 IN: Proceedings of the 1979 Workshop on the Economics of Cropping Systems. Price, E.C. (1979) s.l.: s.n. 40p.
KEYWORDS: Asia, Philippines, Thailand, cropping systems, cropping patterns, rice, economic analysis ASIA.1.A
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- 3177 **ECONOMICS OF TIMELINESS IN THE CROP INTENSIFICATION OF RAINFED FARMS IN ILOILO, CENTRAL PHILIPPINES.** (Paper based on author's masters' thesis at Australian National Univ.) Roxas, N.M. (1982) Los Baños, Philippines: International Rice Research Institute (IRRI). (IRRI Ag. Ec. Dept. Paper No. 82-01) 34p. **KEYWORDS:** Philippines, cropping systems, rice, rain-fed farming, intensification, timeliness, land preparation, tillage, risks, economic analysis, technology analysis PH.IRR.3.F

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- 3179 **ENERGY-CONSERVING FARMING SYSTEMS FOR THE HUMID TROPICS.** IN: Agricultural Mechanization in Asia. Wijewardene, R. (1980) (Vol.11 no.2 p.47-53, Spring 1980; Summarized in Tillage Systems & Social Science, Vol.1 no.3, Oct. 1981) 7p. **KEYWORDS:** humid tropics, farming systems, energy conservation, mechanization, tillage systems, seeding, planting methods, fertilizer application S671/.A15

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- 3181 **FUELWOOD SITUATION AND FARMERS' ADJUSTMENT IN NORTHEASTERN THAI VILLAGES.** Subhadhira, S. (1985)* Khon Kaen, Thailand: S. Subhadhira, Khon Kaen Univ., Dept. of Sociology. (Socio-Economic Studies of the Farmers in Rainfed Areas of Northeast Thailand, KKU-Ford Project) 29p. **KEYWORDS:** Thailand, fuelwood, rapid rural appraisal, deforestation, energy, village level studies, socioeconomic analysis TH.3.F.2
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- 3184 **ADOPTION OF AGRICULTURAL TECHNOLOGY: DEVELOPMENTS IN AGRO-SOCIO-ECONOMIC THOUGHT.** IN: Social and Economic Studies. Andrew, C.O. (1982) (Vol.31 no.3 p.171-89, 1982, AID Doc. No. PN-AAT-636) 19p. **KEYWORDS:** farming systems theory, development theory, socioeconomic analysis, farmers' attitudes, socioeconomic constraints, innovation adoption, hybrids, corn, sorghum, technology transfers HN244/.S6
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4 HUMAN ELEMENT: ENDOGENOUS FACTORS (HOUSEHOLD)

- 3200 **CHANGES IN HOUSEHOLD ECONOMY IN A RICE VILLAGE IN SOUTHERN LUZON; 1975/76, 1980/81 AND 1981/82.** Kikuchi, M. (1983) Los Banos, Philippines: International Rice Research Institute (IRRI). (IRRI Ag. Econ. Dept. Paper No.83-09; Report No.6 in Phase II of the project "Anatomy of Peasant Economy") 49p. **KEYWORDS:** Philippines, rural households, economic analysis, rice, surveys, cost benefit analysis PH.IRR.4
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- 3202 **IDENTIFICATION AND CHARACTERIZATION OF AGRICULTURAL ENTERPRISES: CONCEPTUAL FRAMEWORK AND OPERATING MODEL, SALTA, ARGENTINA.** Elena, M.A. (1985)* Salta, Argentina: M.A. Elena, INTA-EERA, Dept. of Economics. (Spanish version also available) 7p. **KEYWORDS:** Argentina, production systems, economic evaluation, models, resource allocation, technology analysis, technology transfers, field tests, technological change AR.4

- 3203 **LAND TENURE AND RICE PRODUCTION IN FOUR VILLAGES OF DACCA DISTRICT, BANGLADESH.** Shahid, A. (1982)* Manila, Philippines: A. Shahid, International Rice Research Institute (IRRI), Dept. of Agricultural Economics. (IRRI Ag. Econ. Dept. Paper 82-25) 13p. **KEYWORDS:** Bangladesh, IRRI, land tenure, rice, rice production, land reform, income, development, socioeconomic constraints, resource allocation, research objectives, methodology, yields, inputs, improved varieties, seed selection, cropping patterns, credit, share cropping, tenancy BD.4
- 3204 **RECORDS FOR SMALL FARMS IN HONDURAS: A DEVELOPMENT AND CRITIQUE.** Parks, L.L. (1980) Stillwater, Okla.: Oklahoma State Univ., Dept. of Agricultural Economics. (International Development Series no.80-3, Aug. 1980; AID/ta-CA-1; Project No. 931-1134-02) 83p. **KEYWORDS:** Latin America, Honduras, farm records, accounting, small farms, analysis S564.7/.R43/1980
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