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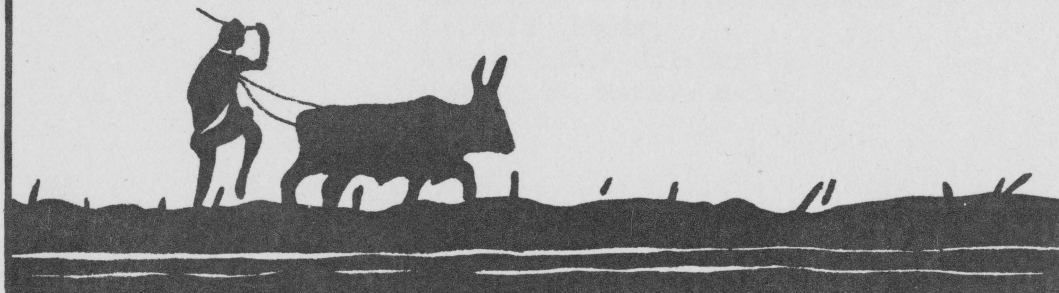
A FARMING SYSTEMS RESEARCH BIBLIOGRAPHY
OF KANSAS STATE UNIVERSITY'S VERTICAL
FILE MATERIALS: SOME SELECTIONS FROM THE
PETER E. HILDEBRAND COLLECTION, Part One.

Noel D. Young and Elsa Eaton
Editors

Paper No. 481
(Supplement One to the Revised Edition)
Fall 1988

FARMING SYSTEMS RESEARCH

PAPER SERIES



Resources on developing countries

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

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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.

Copies of these papers may be obtained from the Distribution Center, Umberger Hall, Kansas State University, Manhattan, Kansas 66506. There will be a charge for selected papers and multiple copies to help defray the cost of printing.

Vernon C. Larson
Director
International Agricultural Programs

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FARMING SYSTEMS RESEARCH AND THE KSU COLLECTION

Kansas State University is one of the increasing number of institutions involved in farming systems research (FSR). The Library has organized a collection of materials available to persons interested in the subject.

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 preferences and aspirations, attempts to produce output from the inputs and technology available to him. It is the farmer's unique understanding of his immediate environment, both natural and socio-economic, that results in his 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

SUPPLEMENT ONE ...

lists FSR vertical file material and selected publications with Library of Congress classification numbers donated by Peter E. Hildebrand, from his collection at the University of Florida, Gainesville. These items can be found within KSU's Farrell Library. The vertical file material includes unpublished papers, drafts, house organs and other non-conventional, or fugitive literature. Keyword, title, and primary author indices are provided. The standard for keywording is an "enhanced" CAB Thesaurus.

¹Farming Systems Research at the International Agricultural Research Centers, Washington, World Bank for TAC Secretariat/FAO, 1978, page 8.

Over eight hundred new items have been added. Duplicate citations (listed in the previous FSR Bibliography, No. 4, Revised) amount to less than five per cent of the new supplement. They have been retained in order to maintain the integrity of the Hildebrand Collection. The original classification scheme developed and assigned by Peter Hildebrand, has been placed at the end of the keyword section. This will allow searching from an additional subject perspective.

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Noel D. Young
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2277 Van Crowder, L. (1980)* Delaine, B.L. COMMUNICATING WITH SMALL FARMERS IN THE
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Comunicacion en el Chapare - Un Analisis.") [Gainesville, Fla.]: L. Van
Crowder, Editorial Dept., Univ. of Florida. 17p. KEYWORDS: Bolivia/extension/
communication/rural development/sociological analysis/social structures/
socioeconomic organization/innovation adoption/regional planning/diffusion of
information/data collection/surveys/sampling techniques/representative sampling/
65.024 BO.3.E.1.A.BB
Hildebrand subject code
location
pagination
keywords

HILDEBRAND SUBJECT CODE LIST

01.....Evaluation	51.....Organic Farming
02.....Methodology - General	52.....Integrated Pest Management
03.....Rural Poverty	53.....Weeds
04.....Cropping Systems - General	54.....No Tillage/Minimum Tillage
05.....Cropping Systems - Guatemala	55.....Farm Records
06.....TI-59	56.....Women in Agriculture
07.....Apple	57.....Agronomy - General
08.....Minicomputers - General	58.....Food Policy
09.....Multicultivos - El Salvador	59.....Infrastructure
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16.....FSR/E Methodology	66.....Anthropology
17.....FSR/E Title XII	67.....Energy
18.....FSR/E Florida	68.....Cooperatives
19.....FSR/E Administration - Policy	69.....Ecology
20.....Livestock - General	70.....Culture and Agriculture
21.....Livestock - Small Farms	71.....Catalogues
22.....Sondeos	72.....Miscellaneous
23.....Livestock - Methodology	73.....Africa
24.....Rural Development	74.....
25.....Socioeconomics - General	75.....West Pakistan
26.....Socioeconomics - ICTA	76.....
27.....ICTA - Annual Reports	77.....Rockefeller Foundation
28.....	78.....Rockefeller Foundation
29.....	79.....Annual Reports - General
30.....ICTA General	80.....Farm Management
31.....Post Harvest	81.....Learning Curve
32.....Credit	82.....Maps
33.....Seed	83.....Meteorology
34.....Crop Production Costs	84.....Irrigation
35.....Crops - General	85.....IADS - General
36.....Potatoes	86.....INIAP - General
37.....Corn	87.....IDIAP - General
38.....Sorghum	88.....ICA - General
38a.....Forages	89.....ICA - Agricultural Economics
39.....Wheat	90.....ICA - FSR/E
40.....Vegetables	91.....CENTA - El Salvador
41.....Rice	92.....Data General
42.....Pigeon Pea	93.....Mechanization
43.....Cassava	94.....Inputs
44.....Beans, Soybeans	95.....Training/Courses in FSR/E
45.....Peanut	96.....
46.....Fruit	97.....
47.....Forestry	98.....Vertebrate Pests
48.....Crop Methodology	99.....Projects Proposals
49.....SER Field Books	100.....Food and Resource Economics
50.....Soils	105.....Marketing

ABBREVIATIONS, ACRONYMS AND INITIALISMS

AAAS	American Association for the Advancement of Science
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/UNECA	African Training and Research Centre for Women/United Nations Economic Commission for Africa
AIA	Agricultor-Investigacion-Agricultor
AICRPDA	All India Coordinated Research Project for Dryland Agriculture
AID	Agency for International Development
AID/S&T	Agency for International Development/Bureau for Science and Technology
ALDEP	Arable Lands Development Programme
ASA	American Society of Agronomy
ASAE	American Society of Agricultural Engineers
ASHA/AHS/ AABGA	?/American Horticulture Society/American Association of Botanical Gardens and Arboreta
ASPAC/FFTC	Asian and Pacific Council/Food and Fertilizer Technology Center
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
BDPA	Bureau pour le developpement de la production agricole
BIFAD	Board for International Food and Agricultural Development
CARDI	Caribbean Agricultural Research and Development Institute
CATIE	Centro Agronomico Tropical de Investigacion y Ensenanza
CATIE/ROCAP	Centro Agronomico Tropical de Investigacion y Ensananza/ Regional Office for Central American Programs
CENDA	Centro de Desarrollo Agropecuario, Zona Norte
CDR	Centre for Development Research
CENDERCO	Centro para el Desarrollo Rural y Cooperativo
CENDHRA	Centre for the Development of Human Rersources in Rural Asia (San Juan, Rizal, Philippines)
CENTA	Centro Nacional de Tecnologia Agropecuaria
CENTA/BID	Centro Nacional de Tecnologia Agropecuaria/Banco Interamericano de Desarrollo (El Salvador)
CEPAL	Economic Commission for Latin America
CES	Cooperative Extension Service (U.S.)
CGIAR	Consultative Group on International Agricultural Research
CIARLA	Centro de Investigaciones Agropecuarias Region Los Andes
CIAT	Centro Internacional de Agricultura Tropical
C.I.A.T.	Centro de Investigacion Agricola Tropical (Bolivia)
CID	Consortium for International Development
CILSS	Comite permanent interetats de lutte contre la 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
comp., comps.	compiler, compilers
CLSU	Central Luzon State University
CRIA	Central Research Institute for Agriculture, Indonesia
CRDI	Centre de recherche pour le developpement international
CRSP	Collaborative Research Support Project
DAI	Development Alternatives, Inc.
Dept.	Department
ed., eds.	editor, editors
EFSaip	Evaluation of Farming Systems & Agricultural Implements Project, Sebele
et al.	(used when there are <u>more</u> than 3 authors)
EMBRAPA	Empressa Brasileira de Pesquisa Agropecuaria
FAO	Food and Agriculture Organization of the United Nations
FAO/SIDA	Food and Agriculture Organization of the United Nations/ Swedish International Development Agency
FSR	farming systems research
FSR/D	Farming Systems Research/Development
FSR/E	Farming Systems Research/Extension
FSSP	Farming Systems Support Project (University of Florida, Gainesville)
FSSP/GARD	Farming Systems Support Project (University of Florida, Gainesville)/ Gambia Agricultural Research and Diversification (?)/Development(?) (Project)
FONAIAP	Fondo Nacional de Investigaciones Agropecuarias
FY	fiscal year
GARD	Gambia Agricultural Research and Diversification (?)/Development(?) (Project)
GERDAT	Groupement d'etudes et de recherches pour le developpement de l'agronomie tropical
HYV	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
IARC	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 Agrícolas=Institute of Agricultural Science and Technology of Guatemala
IDB	Inter-American Development Bank=Banco Interamericano de Desarrollo (BID)
IDIAp	Instituto de Investigaciones Agropecuarias de Panama

IDRC	International Development Research Centre
IDS	Institute for Development Studies
IE&R, IPIA	International Education and Research, International Programs in Agriculture, Purdue University
IFAS	Institute of Food and Agricultural Sciences
IFDC/IRA	International Fertilizer Development Center/Institut de recherche agronomique
IFOAM	International Federation of Organic Agricultural Movements
IFPP	Integrated Farming Pilot Project, Pelotshetlha
IFPRI	International Food Policy Research Institute
IICA	Instituto Interamericano de Ciencias Agrícolas= Interamerican Institute for Co-operation on Agriculture
IICA/CIDIA	Instituto Interamericano de Ciencias Agrícolas de la Organización de Estados Americanos/Centro Interamericano de Documentación y Información Agrícola
IICA/INRA	Inter-American Institute for Cooperation on Agriculture/ Institut national de recherches agronomiques
IIRR	International Institute of Rural Reconstruction
IITA	International Institute of Tropical Agriculture
IITA/USAID/ MIDAS	International Institute of Tropical Agriculture/United States Agency for International Development/Managed Inputs and Delivery of Agricultural Services
ILCA	International Livestock Center for Africa
ILO	International Labour Organisation
INARC	International Agricultural Research Centers
INCAP	Instituto de Nutrición de Centroamérica y Panamá
INIA	Instituto Nacional de Investigaciones Agrarias
INIAP	Instituto Nacional de Investigación Agropecuaria
INRA	Institut national de la recherche agricole
INRAN	Institut national de recherches agronomiques des Niger
Inst.	Institute
INTA	Instituto Nacional de Tecnología
INTERPAKS	International Program for Agricultural Knowledge Systems, Univ. of Illinois, Urbana-Champaign
INTSORMIL	International Sorghum/Millet
IPIA	International Programs in Agriculture, Purdue University
IRAEN	International Rice Agro-Economic Network
IRAT	Institut des recherches agronomiques tropicales et des cultures vivrières
IRC	International Research Centers
IRCT/Mali	Institut de recherche du coton et des textiles exotiques (Mali)
IRRI	International Rice Research Institute
ISA	Investigación de Sistemas Agropecuarios
ISS	Institute of Social Studies
ISNAR	International Service for National Agricultural Research
IUFS&T	International Union of Food Science & Technology, Göteborg, Sweden
IUNS	International Union of Nutritional Sciences, Zurich, Switzerland
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

MAFCA	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
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
NGA	National Grains Authority (Quezon City, Philippines)
NOAA	National Oceanic and Atmospheric Administration
NSW/ACT	New South Wales/Australian Capital Territory
OAS	Organization of American States
OAU	Organization of African Unity
OAU/STRC	Organization of African Unity/Scientific Technical Research Commission
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
PARC	Pakistan Agricultural Research Council
PASITAM	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 Resources 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
PROTAAL	Proyecto Cooperative de Investigacion sobre Tecnologia Agropecuaria en America Latina
PSCPA	Proyecto de Sistemas de Cultivo para Pequenos Agricultores del Istmo Centroamericano
PTPA	Proyecto de Tecnologia para Pequenos Agricultores
RD	reporting documents
ROC	Republic of China
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
SACUC	Swaziland Agricultural College and University Centre
SADCC	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
SERA	Servicio de Invertigaciones Agricolas
SR-CRSP	Small Ruminant-Collaborative Research Support Program
SSIP	? (Germany)
SSRC/SERP	Social Sciences Research Centre/Socio-Economic Research Project
S&T/AGR/AP	Bureau for Science and Technology/Office of Agriculture/?
STRC/OAU	Scientific Technical Research Commission/Organization of African Unity
TES	typical (Developing Country) extension systems
TFNC	Tanzania Food and Nutrition Centre
TIF	Technological Improvement File
T&V	training and visit system
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
USAID/ORD	United States Agency for International Development/ ? (Guatemala)
USDA	United States Department of Agriculture
var.	various (paging)
VITA	Volunteers in Technical Assistance
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)
Winrock	Winrock International Institute for Agricultural Development
WIP	Winrock International publication
WP	working papers
WSARP	Western Sudan Agricultural Research Project

SUBJECT HEADINGS AND TABLE OF CONTENTS

- I. FARMING SYSTEMS: DESCRIPTIVE (General and Inclusive)
 - A. Cropping Patterns
 - 1. Polyculture
 - 2. Double or triple crops
 - 3. Fallowing and cover cropping, tillage systems
 - 4. Crop rotations
 - 5. Shifting cultivation
 - 6. Plantations and agro-silviculture
 - B. Animal Systems
 - C. Mixed Systems (animals and plants)
 - D. Aquaculture and Agriculture
- II. PHYSICAL AND BIOLOGICAL FACTORS
 - A. Physical Factors
 - 1. Land, soils and fertilizer
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 - 3. Water and water management
 - B. Biological Factors
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 - 2. Crop protection
 - a. Weeds
 - b. Animal kingdom
 - c. Fungi and bacteria
 - 3. Animals
 - a. Animal parasites
- III. HUMAN ELEMENT: EXOGENOUS FACTORS
 - A. Social Organization and Community Structure
 - B. Physical Environment (built environment)
 - C. Community Norms and Beliefs
 - D. Population, Nutrition and Health
 - E. External Institutions
 - 1. Infrastructure, support systems
 - a. Input
 - aa. Input distribution
 - bb. Extension
 - cc. Credit
 - b. Output
 - aa. Marketing
 - bb. Post harvest storage
 - cc. Processing
 - 2. Policies and structural reform programs
 - F. Technological and Mechanical Factors
 - 1. Mechanization (animal traction falls in Mixed Systems)
 - 2. Energy
 - 3. Technology transfer
 - 4. Appropriate technology
 - 5. Recommended technology

SUBJECT HEADINGS AND TABLE OF CONTENTS (con't)

IV. HUMAN ELEMENT: ENDOGENOUS FACTORS (Household)

- A. Goals and Risks
- B. Economic Inputs
 - 1. Land
 - 2. Labor management
 - 3. Capital, finance
- C. Economic Output
 - 1. Income
 - 2. Food

V. FARMING SYSTEMS RESEARCH METHODOLOGY

- A. Survey Techniques (descriptive and diagnostic methods)
- B. Design of Improved Technology
- C. Testing
- D. FSR Methodology Extension and Transfer
- E. Systems Analysis

VI. INSTITUTIONAL FACTORS IN IMPLEMENTATION OF FARMING SYSTEMS RESEARCH

FARMING SYSTEMS RESEARCH BIBLIOGRAPHY:
SELECTIONS FROM THE PETER E. HILDEBRAND COLLECTION, Part One

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