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

Compiled and Indexed by
Susan Casement and Martha Tomecek.

Paper No. 4. Supplement. September, 1984

Resources on Developing Countries
Farrell Library
Kansas State University
Manhattan, Kansas 66506
U.S.A.

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 Strengthening Grant. The goal of the Strengthening Grant is to increase the University's capacity for, and focus its commitment to, implementing Title XII agricultural and nutritional development assistance programs in less-developed countries. This series is maintained by the FSR Program Associates-a multidisciplinary team of professors who are focusing their activities around applied research on farming from a systems perspective.

Those faculty involved in the FSR Group (past and present) include Gerald Wilde (Entomology), Ulysses Acasio (Grain Science and Industry), Charles Bussing and Duane Nellis (Geography), Janet Benson, James Converse, Cornelia Butler Flora, Barry Michie, Martin Ottenheimer and Wayne Rohrer (Sociology, Anthropology and Social Work), J. Arthur Hobbs and L. Van Withee (Agronomy), Leniel Harbers, Berl Koch and John Wheat (Animal Sciences and Industry), George Larson (Agricultural Engineering), Carole Harbers and Meredith Smith (Foods and Nutrition) Richard Welton and Dwight Wiebe (Adult and Occupational Education).

The purpose of the FSR Paper Series is to provide an avenue for disseminating information on FSR to those interested. Publications to be included fall into the following categories: updated bibliographies from KSU's FSR data base; proceedings from KSU's annual Farming Systems Symposium; selected papers presented in KSU's FSR Seminar Series; selected papers prepared by KSU's Program Associates.

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

Vernon C. Larson
Director

NOTICE OF NON-DISCRIMINATION

Kansas State University is committed to a policy of non-discrimination on the basis of race, sex, national origin, handicap, or other non-merit reasons, in admissions, educational programs or activities, and employment, all as required by applicable laws and regulations. Inquiries may be addressed to: Director, Affirmative Action Office, 214 Anderson Hall, Kansas State University, Manhattan, KS 66506 (913-532-6220), or Regional Director, Office of Civil Rights, Department of Education, 1150 Grand Avenue, Kansas City, MO 64106 (816-376-2356).

KSU
KANSAS STATE UNIVERSITY

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 small collection of materials available to persons interested in the subject.

The Technical Advisory Committee's Review Team of Farming Systems Researc 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 socioeconomic, 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 interrelationships 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...

lists FSR vertical file material and selected publications with Library of Congress classification numbers found within KSU's Farrell Library. The vertical file material includes unpublished papers, drafts, in-house publications and other ephemeral items. Keyword, title and main author indices come at the end. The standard for keywording is a modified 1978 CAB Word List (e.g., maize, soyabean and groundnut rather than corn, soybean and peanut).

Please Note:

Fertilizer was added to the table of contents on line 2.A.1. A new line of animal parasites was added and given a subject code 2.B.3.A.

Those items marked with a ++ in the location code have not yet had a Library of Congress classification number assigned as of printing date. They may be obtained through Inter-Library Loan Service.

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

Referenced materials may be obtained:

For KSU Library card holders,
- by coming to the Resources on Developing Countries office, third floor, Farrell Library, and checking out the material;

For persons outside of KSU,
- through Inter-Library Loan;

For persons in developing countries without Inter-Library Loan Service,
- by mail.

Send your inquiry to:

Resources on Developing Countries
Farrell Library
Kansas State University
Manhattan, Kansas 66506

We welcome suggestions and new materials for the farming systems collection.

PARTS OF THE CITATIONS

author | date of publication | title | place of publication | publisher

BARLOW, C. (1978) ET AL. ON MEASURING THE ECONOMIC BENEFITS OF NEW TECHNOLOGIES TO SMALL RICE FARMERS. LOS BANOS, IRRI, DEPARTMENT OF AGRICULTURAL ECONOMICS. (DEPARTMENT PAPER, 78-10) 44P. SMALL FARMS/RICE/ECONOMIC ANALYSIS/TECHNOLOGY TRANSFERS/COST-BENEFIT ANALYSIS/EVALUATION/TECHNOLOGY ANALYSIS/PHILIPPINES/CROPPING SYSTEMS/LINEAR MODELS PH.IRR.4.C

keywords | series | pages | location code

author | date of publication | second author | title | place of publication | publisher

HAYAMI, Y. (1974) HERDT, R.W. THE IMPACT OF TECHNOLOGICAL CHANGE IN SUBSISTENCE AGRICULTURE ON INCOME DISTRIBUTION. LOS BANOS, IRRI, AGRICULTURAL ECONOMICS DEPARTMENT. (PAPER, 74-26) 21P. TECHNOLOGY/CHANGE/SUBSISTENCE FARMING/INCOME DISTRIBUTION/TECHNOLOGY TRANSFERS/EVALUATION PH.IRR.4.C.1

keywords | series | pages | location code

author | date of publication | second author | title | publisher

REYNOLDS, S.G. (1981) LUND, P. THE DEVELOPMENT OF INTEGRATED FARMING SYSTEMS FOR THE SMALLHOLDER IN ZANZIBAR, TANZANIA. S.L., UNDP/FAO LIVESTOCK PRODUCTION PROJECT. 7P. TANZANIA/FSR/METHODOLOGY/FORAGE CROPS/LIVESTOCK FEEDING/RESIDUES, PLANT/PROGRAMS AND PROJECTS TZ.1.C

keywords | pages | location code

TABLE OF CONTENTS

I.	Farming Systems: Descriptive (general and inclusive)	1
	A. Cropping Patterns	1.A
	1. Polyculture	1.A.1
	2. Double or triple crops	1.A.2
	3. Fallowing and cover cropping, tillage systems	1.A.3
	4. Crop rotations	1.A.4
	5. Shifting cultivation	1.A.5
	6. Plantations and agro-silviculture	1.A.6
	B. Animal Systems	1.B
	C. Mixed Systems (animals and plants)	1.C
	D. Aquaculture and agriculture	1.D
II.	Physical and Biological Factors	2
	A. Physical Factors	2.A
	1. Land, soils and fertilizer	2.A.1
	2. Agroclimatology	2.A.2
	3. Water and water management	2.A.3
	B. Biological Factors	2.B
	1. Crops	2.B.1
	2. Crop protection	2.B.2
	a. Weeds	2.B.2.A
	b. Animal kingdom	2.B.2.B
	c. Fungi and bacteria	2.B.2.C
	3. Animals	2.B.3
	a. Animal parasites	2.B.3.A
III.	Human Element: Exogenous Factors	3
	A. Social Organization and Community Structure	3.A
	B. Physical Environment (built environment)	3.B
	C. Community Norms and Beliefs	3.C
	D. Population, Nutrition and Health	3.D
	E. External Institutions	3.E
	1. Infrastructure, support systems	3.E.1
	a. Input	3.E.1.A
	aa. Input distribution	3.E.1.A.AA
	bb. Extension	3.E.1.A.BB
	cc. Credit	3.E.1.A.CC
	b. Output	3.E.1.B
	aa. Marketing	3.E.1.B.AA
	bb. Post harvest storage	3.E.1.B.BB
	cc. Processing	3.E.1.B.CC
	2. Policies and structural reform programs	3.E.2
	F. Technological and Mechanical Factors	3.F
	1. Mechanization (other than animal traction, which falls in mixed farming)	3.F.1
	2. Energy	3.F.2
	3. Technology transfer	3.F.3
	4. Appropriate technology	3.F.4
	5. Recommended technology	3.F.5
IV.	Human Element: Endogenous Factors (household)	4
	A. Goals and Risks	4.A
	B. Economic Inputs	4.B
	1. Land	4.B.1
	2. Labor management	4.B.2
	3. Capital, finance	4.B.3
	C. Economic Output	4.C
	1. Income	4.C.1
	2. Food	4.C.2
V.	Farming Systems Research Methodology	5
	A. Survey Techniques (descriptive and diagnostic methods)	5.A
	B. Design of Improved Technology	5.B
	C. Testing	5.C
	D. FSR Methodology Extension and Transfer	5.D
	E. Systems Analysis	5.E
VI.	Institutional Factors in Implementation of Farming Systems Research	6

1

1363 BALASUBRAMANIAN, V. (1982) BRAIDE, J.O.; ATAYI, E.A. AN APPRAISAL OF THE PRESENT FARMING SYSTEMS OF THE ATEBUBU DISTRICT OF GHANA. IBADAN, IITA. (IITA/USAID-MIDAS PROJECT) 88P. GHANA/PROGRAMS AND PROJECTS/SURVEYS, SHORT-TERM/FARMING SYSTEMS/LABOR REQUIREMENTS/YAM/CROPPING SYSTEMS/MAIZE/CASSAVA/WOMEN IN AGRICULTURE/LIMITING FACTORS/SOCIOECONOMIC CONSTRAINTS/RICE/GROUNDNUT/SORGHUM ++

1364 BIBLIOGRAPHY OF RECENT FARM SYSTEM STUDIES IN TANZANIA / CHANT, JOHN, COMP. (1968) DAR ES SALAAM, UNIVERSITY OF DAR ES SALAAM, ECONOMIC RESEARCH BUREAU. (RESEARCH PAPER, 68.31) 5P. FSR/BIBLIOGRAPHY/TANZANIA TZ.1

1365 EFFENDI, S. (1983) MCINTOSH, J.L. CROPPING AND FARMING SYSTEMS RESEARCH IN INDONESIA. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESEARCH PAPER, 5) 26P. INDONESIA/INTERDISCIPLINARY RESEARCH/LAND CLASSIFICATION/LAND USE/FSR/TARGET SELECTION/RAINFED FARMING/CROPPING SYSTEMS/PROGRAMS AND PROJECTS/TECHNOLOGY TRANSFERS/SMALL FARMS S539.5/.F37/no.5

1366 GIBBON, D. (1974) DRYLAND CROP PRODUCTION SYSTEMS IN SEMI-ARID BOTSWANA : THEIR LIMITATIONS AND POTENTIAL FOR IMPROVEMENT. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 9P. BOTSWANA/LIMITING FACTORS/FARMING SYSTEMS/PLANNING OF RESEARCH S616/.T76/I57/1974a

1367 HARWOOD, R.R. (1974) RESOURCE UTILIZATION APPROACH TO CROPPING SYSTEMS IMPROVEMENT. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 11P. FARMING SYSTEMS/IRRI/CROPPING SYSTEMS/INTERCROPPING/FSR/SOUTHEAST ASIA S616/.T76/I57/1974a

1368 KIRWAY, T.N. (1982) THE BASIS FOR PLANNING AN ADAPTIVE RESEARCH PROGRAMME ON RICE FOR SMALL FARMERS IN USANGU. MBEYA, UYOLE AGRICULTURAL CENTER. (RESEARCH REPORT, 38) 36P. TANZANIA/FSR/FARMING SYSTEMS/SMALL FARMS/CROPPING SYSTEMS/FARMING CALENDAR/SOCIOECONOMIC CONSTRAINTS/LIMITING FACTORS/RICE TZ.4

1369 LAGEMANN, J. (1977) TRADITIONAL AFRICAN FARMING SYSTEMS IN EASTERN NIGERIA : AN ANALYSIS OF REACTION TO INCREASING POPULATION PRESSURE. MUNCHEN, WELTFORUM-VERLAG. (AFRIKA-STUDIEN, 98) 269P. NIGERIA/FARMING SYSTEMS/CROPPING SYSTEMS/YAM/MAIZE/CASSAVA/GROUNDNUT/INTERCROPPING/SOIL FERTILITY/YIELD/SHIFTING CULTIVATION/WOMEN IN AGRICULTURE/LIVESTOCK/FAMILY LABOR/HIRED LABOR/INPUT-OUTPUT ANALYSIS/FARM INCOME/NON-FARM INCOME/RICE/FOOD CROPS/CASH CROPS/PERMANENT CULTIVATION/TREE CROPS S473/.N52/E24

1370 LEEUWRIK, D.M. (1974) FARMING SYSTEMS IN THE MEDITERRANEAN REGION. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 6P. MEDITERRANEAN SOILS/CROPPING SYSTEMS/FARMING SYSTEMS S616/.T76/I57/1974a

1371 LIGHTFOOT, C. (1982) ET AL. A COLLECTION OF PAPERS RELEVANT TO FARMING SYSTEMS RESEARCH. GABORONE, USAID/BOTSWANA, AGRICULTURAL TECHNOLOGY IMPROVEMENT PROJECT. 95P. BOTSWANA/SMALL FARMS/FSR/PROGRAMS AND PROJECTS/FARMING SYSTEMS/FARM INCOME/EXTENDED FAMILIES/HOUSEHOLDS/DUAL-PURPOSE CATTLE/OFF-FARM EMPLOYMENT/HIRED LABOR/FAMILY LABOR/SUBSISTENCE FARMING/DATA COLLECTION/ON-FARM TESTING/WOMEN IN AGRICULTURE/SELF SUFFICIENCY/ADOPTION OF INNOVATIONS/YIELD/SORGHUM/SOIL STRUCTURE/FARM MANAGEMENT/GRASSLAND MANAGEMENT/ZAMBIA/ZIMBABWE/MAIZE/MILLET, FINGER BW.1

1372 MAXWELL, S. (1981) POZO, M. FARM SYSTEMS IN THE COLONIZATION CRESCENT OF SANTA CRUZ, BOLIVIA : RESULTS OF A SURVEY : VOLUME 1, TEXT. SANTA CRUZ, CIAT. (WORKING PAPER, 22) 114P. FARMING SYSTEMS/BOLIVIA/SLASH AND BURN/FSR/SETTLEMENT/SURVEYS, SHORT-TERM/TARGET SELECTION/METHODOLOGY/LAND-USE SYSTEMS/AGRICULTURAL MANPOWER/CAPITAL/RICE/YUCCA/MAIZE/BANANA/PASTURE/INTERCROPPING/FARMING CALENDAR/GROUNDNUT/YIELD/FIELD SIZE/CASH CROPS/FOOD CROPS/CATTLE/PIG/POULTRY/OFF-FARM EMPLOYMENT/FARM INCOME/GROSS MARGINS ++

1373 MAXWELL, S. (1981) POZO, M. PRODUCTION SYSTEMS IN THE NORTHERN COLONIZATION ZONE : VOLUME II, TABLES. SANTA CRUZ, CIAT. (WORKING PAPER, 22) 163P. FARMING SYSTEMS/BOLIVIA/SLASH AND BURN/FSR/SETTLEMENT/SURVEYS, SHORT-TERM/TARGET SELECTION/METHODOLOGY/LAND-USE SYSTEMS/AGRICULTURAL MANPOWER/CAPITAL/RICE/YUCCA/MAIZE/BANANA/PASTURE/INTERCROPPING/FARMING CALENDAR/GROUNDNUT/YIELD/FIELD SIZE/CASH

CROPS/FOOD CROPS/CATTLE/PIT/POULTRY/OFF-FARM EMPLOYMENT/FARM INCOME/GROSS MARGINS ++

1374 NARENDRAN, V. (1981) FARMING SYSTEMS IN ST. LUCIA : AN ANTHROPOLOGICAL PERSPECTIVE. TRINIDAD, CARDI. 25P. ST. LUCIA/FARMING SYSTEMS/SMALL FARMS/TENURE SYSTEMS/SHIFTING CULTIVATION/CROPPING SYSTEMS/CASH CROPS/FOOD CROPS/SOCIOECONOMIC CONSTRAINTS/LIVESTOCK LC.1

1375 NORMAN, M.J.T. (1979) ANNUAL CROPPING SYSTEMS IN THE TROPICS : AN INTRODUCTION. GAINESVILLE, UNIVERSITY PRESSES OF FLORIDA. 276P. FARMING SYSTEMS/HYDROLOGICAL ASPECTS/SOLAR ENERGY/ENERGY UTILIZATION/RAINFED FARMING/SOCIOECONOMIC ORGANIZATION/SHIFTING CULTIVATION/BIOGEOCHEMICAL ASPECTS/SUBSISTENCE FARMING/CROPPING SYSTEMS/AFRICA/DRAFT ANIMALS/INPUT-OUTPUT ANALYSIS/YIELD/IRRIGATED FARMING/RICE/COTTON/MILLET, PEARL/WHEAT/SORGHUM/INDIA/SOUTHEAST ASIA/ASIA/AGRICULTURAL MECHANIZATION/PERENNIAL CROPPING/MIXED FARMING S604.37/.N67

1376 REEVES, E.B. (1982) FRANKENBERGER, T. SOCIOECONOMIC CONSTRAINTS TO THE PRODUCTION, DISTRIBUTION AND CONSUMPTION OF SORGHUM, MILLET AND CASH CROPS IN NORTH KORDOFAN, SUDAN : A FARMING SYSTEMS APPROACH; ASPECTS OF AGRICULTURAL PRODUCTION, THE HOUSEHOLD ECONOMY, AND MARKETING. LEXINGTON, UNIVERSITY OF KENTUCKY, INSTITUTE OF AGRICULTURE AND NATURAL RESOURCES. (INTSORMIL. FARMING SYSTEMS RESEARCH IN NORTH KORDOFAN, SUDAN. REPORT, 2) 151P. SUDAN/CROPPING SYSTEMS/FARMING SYSTEMS/LIMITING FACTORS/SOCIOECONOMIC CONSTRAINTS/FSR/MILLETS/SORGHUM/SESAME/GROUNDNUT/INTERCROPPING/LIVESTOCK MANAGEMENT/MARKETING/SOLUTION DESIGN ++

1377 RUTHENBERG, H. (1971) FARMING SYSTEMS IN THE TROPICS. OXFORD, CLARENDON PRESS. 313P. FARMING SYSTEMS/SHIFTING CULTIVATION/CROPPING SYSTEMS/PERMANENT CULTIVATION/TROPICS/RAINFED FARMING/SMALL FARMS/LEY FARMING/IRRIGATED FARMING/PASTORAL SYSTEMS/PERENNIAL CROPS/AFRICA/ASIA SB111/R87

1378 RUTHENBERG, H. (1974) FROM SHIFTING CULTIVATION TO SEMI-PERMANENT AND PERMANENT FARMING IN THE AFRICAN SAVANNAS. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 24P. SHIFTING CULTIVATION/PERMANENT CULTIVATION/AFRICA/CROPPING SYSTEMS/ANIMAL HUSBANDRY/SAVANNA/LABOR REQUIREMENTS/LAND-USE SYSTEMS/FARMING SYSTEMS/INDIA/SOCIOECONOMIC CONSTRAINTS/LIMITING FACTORS S616/.T76/I57/1974a

1379 STALLINGS, J.L. (1980) A STATE-OF-THE-ARTS PAPER (SOAP) ON TECHNIQUES OF ENUMERATION OF INTERCROPPING AND ASSOCIATED CULTIVATION AND LIVESTOCK NUMBERS AND PRODUCTS IN SUBSISTENCE AGRICULTURE IN LDC'S. AUBURN, AUBURN UNIVERSITY, 54P. RWANDA/SUBSISTENCE FARMING/CROPPING SYSTEMS/LAND-USE SYSTEMS/MULTICROPPING/INTERCROPPING/MIXED CROPPING/SURVEYS, SHORT-TERM/DATA COLLECTION/LIVESTOCK CENSUSES/FSR/ENUMERATION/FARMING SYSTEMS RW.1

1380 WEBSTER, C.C. (1966) WILSON, P.N. AGRICULTURE IN THE TROPICS. LONDON, LONGMANS, GREEN AND CO. 488P. TROPICS/CLIMATE/SOIL CLASSIFICATION/VEGETATION/SOIL CONSERVATION/WATER CONSERVATION/TILLAGE SYSTEMS/SHIFTING CULTIVATION/SOIL FERTILITY/FARMING SYSTEMS/TREE CROPS/GRASSLAND MANAGEMENT/PASTORAL SYSTEMS/FORAGE CROPS/LIVESTOCK/LIVESTOCK HUSBANDRY S471/.T75/W4

1381 WESTPHAL, E. (1975) AGRICULTURAL SYSTEMS IN ETHIOPIA. WAGENINGEN, CENTRE FOR AGRICULTURAL PUBLISHING AND DOCUMENTATION. (AGRICULTURAL RESEARCH REPORTS, 826) 278P. ETHIOPIA/GEOGRAPHY/SOIL TYPES/CLIMATE/VEGETATION/ETHNIC GROUPS/CROPPING SYSTEMS/FARMING SYSTEMS/FOOD CROPS/MARKETS/NUTRITIONAL STATE S373/E8/W4/V.1

1.A

1382 BEPHE, T. (1982) INTSORMIL AGRONOMIC ACTIVITIES IN NORTH KORDOFAN, WESTERN SUDAN. LINCOLN, UNIVERSITY OF NEBRASKA, INSTITUTE OF AGRICULTURE AND NATURAL RESOURCES. 39P. SUDAN/CLIMATE/CROPPING SYSTEMS/MILLET, PEARL/SORGHUM/FARMERS' INNOVATIONS/LIMITING FACTORS/PROGRAMS AND PROJECTS SD.1.A

1383 BRUSH, S.B. (1980) CARNEY, H.J.; HUAMAN, Z. THE DYNAMICS OF ANDEAN POTATO AGRICULTURE. LIMA, CIP, SOCIAL SCIENCE DEPARTMENT. (WORKING PAPER SERIES, 1980-5) 27P. PERU/POTATO/TAXONOMY/TRADITIONAL FARMING/NATIVE VARIETIES/SELECTION SYSTEM/COMMERCIAL FARMING PE.CIP.1.A

1384 CHOWDHURY, S.L. (1974) CROPPING SYSTEMS IN THE SEMI-ARID TROPICS OF INDIA. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 11P. INDIA/SEMIARID TROPICS/CROPPING SYSTEMS/FERTILIZER APPLICATION/LIMITING FACTORS/FOOD CROPS S616/.T76/I57/1974a

1385 FUEHRING, H.D. (1981) DRYLAND CROPPING SYSTEMS IN EASTERN NEW MEXICO. LAS CRUCES, NEW MEXICO STATE UNIVERSITY,

AGRICULTURAL EXPERIMENT STATION. (RESEARCH REPORT, 452) 4P. USA/NEW MEXICO/SORGHUM/WHEAT/RAINFED FARMING/ROW INTERCROPPING/FALLOW/GROSS RETURNS/RUNOFF CONTROL PREVIOUS WORK INDICATED THAT WATER SHED FROM ONE AREA ONTO ADJACENT GROWING BEDS PRODUCED HIGH GRAIN SORGHUM YIELDS, BUT THE COST OF MAINTAINING THE SHEDS WAS PROHIBITIVE. APPARENTLY, NEITHER BARE NOR CROPPED WATERSHED AREAS ARE A PRACTICAL MEANS OF INCREASING PRODUCTION. US.2.A.3

1386 GUITARD, A.A. (1974) APPLICATION TO THE SEMI-ARID TROPICS OF THE CANADIAN DRYLAND SPRING WHEAT PRODUCTION SYSTEM. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 11P. SEMIARID ZONES/WHEAT/CANADA/CROPPING SYSTEMS S616/.T76/I57/1974a

1387 GYPMANTASIRI, P. (1980) ET AL. AN INTERDISCIPLINARY PERSPECTIVE OF CROPPING SYSTEMS IN THE CHIANG MAI VALLEY : KEY QUESTIONS FOR RESEARCH. CHIANG MAI, UNIVERSITY OF CHIANG MAI, FACULTY OF AGRICULTURE. 238P. THAILAND/PLANNING OF RESEARCH/MULTICROPPING/PROGRAMS AND PROJECTS/RICE/FARMING SYSTEMS/DRAFT ANIMALS/SOYABEAN/IRRIGATED FARMING/HYDROLOGICAL FACTORS/CROPPING SYSTEMS/GROUNDNUT/GARLIC/CHINESE CABBAGE/MUNGBEAN/LIMITING FACTORS/SOCIOECONOMIC CONSTRAINTS/PESTS/AGRICULTURAL POLICY/DECISION MAKING/TECHNOLOGY TRANSFERS/EXPERIMENTAL PLOTS/TOMATO/AGROECOSYSTEM/TOBACCO ++

1388 INTERNATIONAL RICE RESEARCH INSTITUTE (1977) PROCEEDINGS, SYMPOSIUM ON CROPPING SYSTEMS RESEARCH AND DEVELOPMENT FOR THE ASIAN RICE FARMER, 21-24 SEPTEMBER, 1976. LOS BANOS, IRRI. 454P. FSR/CROPPING SYSTEMS/RICE/NATIONAL PROGRAMS AND PROJECTS/INDONESIA/PHILIPPINES/BANGLADESH/THAILAND/SRI LANKA/PLANNING OF RESEARCH/SOIL TYPES/AGROCLIMATOLOGY/AGROECOSYSTEM/INDIA/IRRIGATED FARMING/RAINFED FARMING/SMALL FARMS/MIXED CROPPING/DECISION-MAKING/RISK/MULTICROPPING/SOCIOECONOMIC CONSTRAINTS/DATA COLLECTION/ADOPTION OF INNOVATIONS/LIMITING FACTORS/MUNGBEAN/WHEAT/HIGH YIELDING VARIETIES/ON-FARM TESTING/EXTENSION/EVALUATION/WEED CONTROL/INTERCROPPING/BRAZIL/PEST MANAGEMENT/SORGHUM/MAIZE/SWEET POTATO/INTENSIVE CROPPING S602.5/.S94/1976

1389 KRANTZ, B.A. (1974) ET AL. CROPPING PATTERNS FOR INCREASING AND STABILIZING AGRICULTURAL PRODUCTION IN THE SEMI-ARID TROPICS. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 31P. SEMIARID TROPICS/CROPPING SYSTEMS/INDIA/SOIL TYPES/INTERCROPPING/INTERCROPS/WEST AFRICA/BRAZIL/FARMING SYSTEMS/PLANNING OF RESEARCH S616/.T76/I57/1974a

1390 KRANTZ, B.A. (1980) REPORT OF ADVISOR TO CARDI/USAID PROJECT 538-0015. TRINIDAD, CARDI. (CONSULTANT REPORT, 1) 13P. ST. VINCENT/ST. LUCIA/FSR/CROPPING SYSTEMS/RECOMMENDATIONS LC.1.A

1391 KRISHNAMOORTHY, C. (1974) PRESENT CROPPING SYSTEMS : TRENDS OF CHANGE AND APPROACHES FOR IMPROVEMENT. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 9P. INDIA/DECISION MAKING/CROPPING SYSTEMS/TRADITIONAL FARMING/STRESS CONDITIONS/DRY FARMING S616/.T76/I57/1974a

1392 LABADAN, E. (1980) ET AL. SCREENING CROP INNOVATIONS IN A WHOLE-FARM FRAMEWORK. LOS BANOS, IRRI. (IRRI AGRICULTURAL ECONOMICS DEPARTMENT PAPER, 80-18) 37P. CROPPING SYSTEMS/PHILIPPINES/RICE/FARMING SYSTEMS/TECHNOLOGY TRANSFERS/LINEAR PROGRAMMING PH.IRR.1.A.1

1393 LIGHTFOOT, C. (1982) ON FARM RESEARCH PROGRAMME FOR THE FIRST SEASON OF A FARMING SYSTEMS RESEARCH PROJECT. GABORONE, USAID/BOTSWANA, AGRICULTURAL TECHNOLOGY IMPROVEMENT PROJECT. 30P. BOTSWANA/FSR/SURVEYS, SHORT-TERM/PROBLEM IDENTIFICATION/SOLUTION DESIGN/ON-FARM TESTING/STAND ESTABLISHMENT/YIELD/WEED COMPETITION/CROPPING SYSTEMS BW.1.A

1394 MICHIE, B.H. (1983) A FARMING SYSTEMS APPROACH TO SEMI-ARID AGRICULTURE IN RAJASTHAN. UDAIPUR, MOHAN LAL SUKHADIA UNIVERSITY. 29P. INDIA/FSR/VIGNA ACONITIFOLIA/MILLET, PEARL/DATA COLLECTION/INTERDISCIPLINARY RESEARCH/SURVEYS, LONG-TERM/SILVICULTURAL SYSTEMS IN.1.A

1395 OKIGBO, B.N. (1978) CROPPING SYSTEMS AND RELATED RESEARCH IN AFRICA. ADDIS ABABA, ASSOCIATION FOR THE ADVANCEMENT OF AGRICULTURAL SCIENCES IN AFRICA. (OCCASIONAL PUBLICATIONS, OT-1) 81P. AFRICA/FARMING SYSTEMS/CROPPING SYSTEMS/NIGERIA/MIXED CROPPING/CROP ROTATION/MAIZE/CASSAVA/YAM/PIGEON PEA/TREE CROPPING/SORGHUM/ETHIOPIA/FALLOWING/RICE/PEPPERS/OKRA/GHANA/LIBERIA/SIERRA LEONE/DOMESTIC GARDENS/MILLET, FINGER/BANANA/CENTRAL AFRICA/SOUTH AFRICA/ALGERIA/EGYPT/MOROCCO/TUNISIA/LIBYA/INTERCROPPING/IITA/FSR S602.5/.044/1978a

1396 OKIGBO, B.N. (1979) CROPPING SYSTEMS FOR SMALL FARMS IN THE HUMID TROPICS OF WEST TROPICAL AFRICA AND THEIR IMPROVEMENT. IBADAN, IITA. 42P. PLANNING OF RESEARCH/CROPPING SYSTEMS/WEST AFRICA/NIGERIA/FOOD CROPS/MIXED CROPPING/FARMING CALENDAR/AGROCLIMATOLOGY/DOMESTIC GARDENS/SILVICULTURAL SYSTEMS NG.IIT.1.A

1397 ROSALES, F.E. (1979) GUIA METODOLOGICA PARA CONDUCCION DE ENSAYOS DE FINCA. COMAYAGUA, SECRETARIA DE RECURSOS NATURALES, PROGRAMA NACIONAL DE INVESTIGACION AGROPECUARIA UNIDAD CENTRAL. 26P. MAIZE/SORGHUM/FARMING CALENDAR/RICE/BEANS/ON-FARM TESTING/HONDURAS HN.1.A

1398 RUSSO, S. (1982) MATUVA, M.; HART, R. FEED PRODUCTION SYSTEMS IN WESTERN KENYA. MORRILTON, WINROCK INTERNATIONAL. (SR-CRSP PAPERS, CP-12) 11P. KENYA/FSR/TARGET SELECTION/FEEDS/CROPPING SYSTEMS KE.1.A

1399 SCHERER, F. (1969) THE DEVELOPMENT OF SMALLHOLDER VEGETABLE PRODUCTION IN KIGEZI, UGANDA. MUNICH, IFO - INSTITUT FUR WIRTSCHAFTSFORSCHUNG, AFRIKA-STUDIENSTELLE. 217P. UGANDA/SMALL FARMS/LAND-USE SYSTEMS/CASH CROPS/FOOD CROPS/COOPERATIVE MARKETING/CROPPING SYSTEMS/FOOD CONSUMPTION/PRODUCT MARKETS/COLONIALISM/VEGETABLE CROPS/PROGRAMS AND PROJECTS/EXTENSION/COOPERATIVE FARM ENTERPRISES SB320.8/U3/S3

1400 SPRAGUE, H.B. (1981) THE STATUS AND CHALLENGE OF DRYLAND AGRICULTURE IN DEVELOPING COUNTRIES OF THE TROPICS AND SUBTROPICS. WASHINGTON, D.C., USAID, RURAL DEVELOPMENT DIVISION. 119P. DRY FARMING/TROPICS/SUBTROPICS/ARID REGIONS/SEMIARID ZONES/MONSOON/LEGUMES, GRAIN/OIL CROPS/FIBER PLANTS/VEGETABLE CROPS/FORAGE CROPS/PASTURES/RANGE MANAGEMENT/FARMING SYSTEMS/SOCIOECONOMIC CONSTRAINTS ++

1401 VEGETABLE FARMING SYSTEMS IN CHINA : REPORT OF THE VISIT OF THE VEGETABLE FARMING SYSTEMS DELEGATION TO CHINA / PLUCKNETT, DONALD L. AND HALSEY L. BEEMER, EDS. (1981) BOULDER, WESTVIEW PRESS. (WESTVIEW SPECIAL STUDIES IN AGRICULTURAL SCIENCE AND POLICY) 386P. CHINA/VEGETABLE CROPS/PRODUCTION/ORGANIC FERTILIZER/INORGANIC FERTILIZER/CROPPING SYSTEMS/PLANT PROTECTION/WEED CONTROL/EXTENSION/AGRICULTURAL RESEARCH/POST-HARVEST MANAGEMENT/MARKETING SB320.8/.C5/V43/1980

1.A.1

1402 BEETS, W.C. (1982) MULTIPLE CROPPING AND TROPICAL FARMING SYSTEMS. BOULDER, WESTVIEW PRESS. 156P. FARMING SYSTEMS/MULTICROPPING/CROPPING SYSTEMS/TROPICS S603.7/.B43/1982

1403 FERGUSON, T.U. (1981) ROOT CROP PRODUCTION ON PROJECT FARMS IN ST. LUCIA AND ST. VINCENT. TRINIDAD, CARDI. (CONSULTANT REPORT, 9) 109P. ST. VINCENT/YAM/SWEET POTATO/CULTURAL METHODS/RECOMMENDATIONS/CASSAVA/ST. LUCIA/INTERCROPPING/ARROWROOT/ROOT CROPS ++

1404 HILDEBRAND, P.E. (1983) MODIFIED STABILITY ANALYSIS OF FARMER MANAGED, ON-FARM TRIALS. GAINESVILLE, UNIVERSITY OF FLORIDA, INSTITUTE OF FOOD AND AGRICULTURAL SCIENCES. (JOURNAL SERIES, 4577) 23P. FSR/FARMER TESTING/MAIZE/SMALL FARMS/MALAWI/TARGET SELECTION/VARIANCE COMPONENTS/STATISTICAL ANALYSIS MW.1.A.1

1.A.2

1405 BAKER, E.F.I. (1974) RESEARCH ON MIXED CROPPING WITH CEREALS IN NIGERIAN FARMING SYSTEMS : A SYSTEM FOR IMPROVEMENT. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 14P. MIXED CROPPING/NIGERIA/YIELD/SORGHUM/MILLETS/COWPEA/PROGRAMS AND PROJECTS/MAIZE S616/.T76/I57/1974a

1406 COLLINSON, M.P. (1980) CROON, S.I.; MKINDI, G.I. PLANNING AN ADAPTIVE EXPERIMENTAL PROGRAMME ON MAIZE FOR FARMERS OF THE UFIPA PLATEAU. MBEYA, UYOLE AGRICULTURAL CENTRE. (RESEARCH REPORT, 27) 16P. TANZANIA/FSR/MILLET, FINGER/MAIZE/BEANS/WOMEN IN AGRICULTURE/HIRED LABOR/FARMING SYSTEMS/SOCIOECONOMIC CONSTRAINTS/ANIMAL TRACTION/POST-HARVEST MANAGEMENT/CIMMYT TZ.1.A.2

1407 ICRISAT (1981) PROCEEDINGS OF THE INTERNATIONAL WORKSHOP ON INTERCROPPING, 10-13, JANUARY 1979, HYDERABAD, INDIA. PATANCHERU, ICRISAT. 401P. INTERCROPPING/YIELD/LAND EQUIVALENT RATIO/SORGHUM/INTERCROPS/INDIA/MILLET, PEARL/PIGEON PEA/BRAZIL/MAIZE/BEANS/COWPEA/UPPER VOLTA/NIGERIA/CROPPING SYSTEMS/MILLET, FINGER/GROUNDNUT/KENYA/RELAY CROPPING/ROW SPACING/SWAZILAND/NATIONAL PROGRAMS AND PROJECTS/SOWING DATE/GENOTYPE-SYSTEM INTERACTION/LEAF AREA INDEX/IITA/CASSAVA/LEAF CANOPY/ROOTING PATTERN/NITROGEN RESPONSE/TANZANIA/CHICKPEA/WEED CONTROL/PEST MANAGEMENT/PLANNING OF RESEARCH/SUBSISTENCE FARMING/PLANTING EQUIPMENT S603.5/.I57/1979

1408 MITAWA, G.M. (1981) EFFECTS OF DENSITIES AND ROW ARRANGEMENT ON INTERCROPPED SORGHUM AND PEARL-MILLET. THESIS (M.S.), UNIVERSITY OF NEBRASKA/LINCOLN. 124P. INTERCROPPING/SORGHUM/MILLET, PEARL/CROP MANAGEMENT/POST-HARVEST

MANAGEMENT/YIELD ++

1409 PRICE, E.C. (1980) MORRIS, R.A.; MATHEMA, S. FARM RESOURCE PRODUCTIVITY AND CONSTRAINTS IN A CROPPING SYSTEMS FRAMEWORK. LOS BANOS, IRRI. 60P. SMALL FARMS/CROPPING SYSTEMS/IRRIGATED FARMING/PHILIPPINES/RAINFED FARMING/FARMING CALENDAR/YIELD/SOCIOECONOMIC CONSTRAINTS/FARMERS' ATTITUDES/CHINA/INPUT-OUTPUT ANALYSIS/MULTICROPPING/GREEN MANURES/PROGRAMS AND PROJECTS/NEPAL PH.IRR.1.A.2

1410 PRICE, E.C. (1982) DEVELOPING MORE PRODUCTIVE FARMING SYSTEMS. LOS BANOS, IRRI. (AGRICULTURAL ECONOMICS DEPARTMENT PAPER, 82-31) 13P. PHILIPPINES/RICE/RAINFED FARMING/MIXED CROPPING/CROPPING SYSTEMS/PRODUCTIVITY/FSR PH.IRR.1.A.2

1411 QUISUMBING, E.C. (1982) PILOT PRODUCTION IN THE PHILIPPINES : PROGRESS REPORT 1981-82. BANGKOK-CHIANGMAI, ASIAN CROPPING SYSTEMS WORKING GROUP. 9P. PHILIPPINES/RICE/PROGRAMS AND PROJECTS/MULTICROPPING PH.1.A.2

1412 WALKER, T.S. (1982) RAO, K.V.S. RISK AND THE CHOICE OF CROPPING SYSTEMS : HYBRID SORGHUM AND COTTON IN THE AKOLA REGION OF CENTRAL PENINSULAR INDIA. PATANCHERU, ICRISAT. (ECONOMICS PROGRAM PROGRESS REPORT, 43) 17P. INDIA/SORGHUM/INTERCROPPING/RISK/COTTON/HIGH YIELDING VARIETIES/RETURNS IN.ICR.1.A.2

1.A.3

1413 DEWALT, B.R. (1982) ET AL. CROPPING SYSTEMS IN PESPIRE, SOUTHERN HONDURAS. LEXINGTON, UNIVERSITY OF KENTUCKY, INTSORMIL PROJECT. (PRELIMINARY REPORT, 1) 103P. HONDURAS/SORGHUM/CROPPING SYSTEMS/MAIZE/SLASH AND BURN/FARMING CALENDAR/FIELD CROPS/INSECT PESTS/POST-HARVEST MANAGEMENT/SEED/SURVEYS, SHORT-TERM HN.1.A.3/++

1414 DOOLETTE, J.B. (1977) DEVELOPMENT OF CROP ROTATION TECHNOLOGY FOR TUNISIA. IN: MIDDLE EAST AND AFRICA AGRICULTURAL SEMINAR, TUNIS, TUNISIA, FEBRUARY 1-3, 1977. NEW YORK : THE FORD FOUNDATION. 16P. TUNISIA/WHEAT/ROTATION/MEDICAGO/FALLOW/LAND-USE SYSTEMS/EXTENSION/EVALUATION/GRAZING/TECHNOLOGY TRANSFERS AFRICA.3

1415 LIGHTFOOT, C.W.F. (1981) BROADCAST PLANTING IN PERSPECTIVE. SEE : LIGHTFOOT, C.W.F. AN EVALUATION OF IMPROVED AND TRADITIONAL TECHNOLOGIES... BW.1.A.3

1.A.4

1416 CHARREAU, C. (1974) SYSTEMS OF CROPPING IN THE DRY TROPICAL ZONE OF WEST AFRICA WITH SPECIAL REFERENCE TO SENEGAL. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 25P. CROPPING SYSTEMS/TRADITIONAL FARMING/SENEGAL/CROP ROTATION/INTENSIVE CROPPING/GROUNDNUT/SORGHUM/COTTON/MILLET, PEARL/MULTICROPPING/MAIZE S616/.T76/I57/1974a

1417 MCINTOSH, J.L. (1979) EFFENDI, S. CROPPING SYSTEMS RESEARCH ACTIVITIES IN INDONESIA. LOS BANOS, IRRI, AND INDONESIA, CENTRAL RESEARCH INSTITUTE FOR AGRICULTURE. 14P. INDONESIA/CROPPING SYSTEMS/TARGET SELECTION/PROGRAMS AND PROJECTS/RICE/IRRIGATED FARMING/HIGH YIELDING VARIETIES/RAINFED FARMING/LIMITING FACTORS ID.1.A.4

1.A.5

1418 BISHOP, J.P. (1982) THE DYNAMICS OF SHIFTING CULTIVATION, RURAL POOR, CATTLE COMPLEX ON MARGINAL LANDS IN THE HUMID TROPICS. GAINESVILLE, UNIVERSITY OF FLORIDA. 19P. SHIFTING CULTIVATION/LEGUMES, FORAGE/TROPICS/SHEEP/SMALL FARMS/FALLOWING 1.A.5

1419 MAXWELL, S. (1982) STUTLEY, C.; BOJANIC, A. REPORT ON A CASE STUDY PROGRAMME IN SAN PEDRO. SANTA CRUZ, CIAT. (WORKING PAPER, 27) 54P. BOLIVIA/FSR/CIAT/TARGET SELECTION/SURVEYS, LONG-TERM/SHIFTING CULTIVATION/SLASH AND BURN/DESTUMPING/FAMILY LABOR/CASH FLOW/FARMING SYSTEMS/SOCIOECONOMIC CONSTRAINTS/LIMITING FACTORS BO.1.A.5

1420 STUTLEY, C. (1982) A STUDY OF THE PROBLEMS OF DESTUMPING IN THE CHANE-PIRAY COLONIZATION AREA NORTH OF SANTA CRUZ. SANTA CRUZ, CIAT. (WORKING PAPER, 34) 84P. BOLIVIA/FSR/SLASH AND BURN/DESTUMPING/SHIFTING CULTIVATION/SURVEYS, LONG-TERM/ADOPTION OF INNOVATIONS/MECHANIZATION/RICE/LIMITING FACTORS/FARMING SYSTEMS/COST-BENEFIT ANALYSIS/HIRED LABOR/SOCIOECONOMIC CONSTRAINTS BO.1.A.5

1.A.6

1421 DESAI, S.N. (1980) BHOI, P.G. ASSESSMENT OF PRODUCTION POTENTIAL OF FOOD AND FORAGE UNDER AGRO-FORESTRY SYSTEM. JOURNAL OF MAHARASHTRA AGRICULTURAL UNIVERSITY. 7(1):33-36. 1982. FORAGE CROPS/AGROFORESTRY/INTERCROPPING/INDIA IN.2.B.1

1.B

1422 BISHOP, J.P. (1982) TROPICAL FOREST SHEEP ON LEGUME FORAGE/FUELWOOD FALLOWS. WASHINGTON, D.C., USAID. 11P. ECUADOR/SHEEP/FALLOWING/FORAGE CROPS EC.1.B

1423 COSSINS, N.J. (1981) NEW WAYS FOR OLD WORLDS : DEVELOPMENT AND RESEARCH : A NEW APPROACH TO THE ETHIOPIAN RANGELANDS DEVELOPMENT PROJECT. ADDIS ABABA, THE ETHIOPIAN COOPERATIVE RANGELANDS PRODUCTION SYSTEM STUDY PROGRAM. 72P. ETHIOPIA/PASTORAL SYSTEMS/MARGINAL POPULATIONS/DROUGHT/SURVIVAL/HIGHLAND SITES/ILCA/PROGRAMS AND PROJECTS/LAND-USE SYSTEMS/CULTURAL HERITAGE/SOCIAL CHANGE/CATTLE BREEDS/SOCIAL STRATIFICATION/LIMITING FACTORS/WELLS/BORANA/AFAR ++

1424 DELGADO, C.L. (1979) THE SOUTHERN FULANI FARMING SYSTEM IN UPPER VOLTA : A MODEL FOR THE INTEGRATION OF CROP AND LIVESTOCK PRODUCTION IN THE WEST AFRICAN SAVANNAH. EAST LANSING, MICHIGAN STATE UNIVERSITY, DEPARTMENT OF AGRICULTURAL ECONOMICS. (AFRICAN RURAL ECONOMY PAPER, 20) 185P. UPPER VOLTA/PASTORAL SYSTEMS/SORGHUM/MAIZE/FARMING SYSTEMS/LIVESTOCK ENTERPRISES/HOUSEHOLDS/FARMING CALENDAR/LABOR ALLOCATION/DIVISION OF LABOR/LAND-USE SYSTEMS/MILLETS/COWPEA/TRADITIONS/CROP DAMAGE/SOCIAL SANCTIONS/LIVESTOCK CENSUSES/LIVESTOCK PRODUCTS/MANURES, ANIMAL/INPUT-OUTPUT ANALYSIS/SIMULATION MODELS/MIXED FARMING/FULANI ++

1425 HOROWITZ, M.M. (1979) THE SOCIOLOGY OF PASTORALISM AND AFRICAN LIVESTOCK PROJECTS. WASHINGTON, D.C., USAID. (A.I.D. PROGRAM EVALUATION DISCUSSION PAPER, 6) 102P. PASTORAL SYSTEMS/NATIONAL PROGRAMS AND PROJECTS/LIVESTOCK SECTOR/GRASSLAND MANAGEMENT/AFRICA DOC. S18.52/1/6

1426 ILCA (1980) ILCA PROPOSED PROGRAMME AND BUDGET, 1981. ADDIS ABABA, ILCA. 59P. ETHIOPIA/INTERDISCIPLINARY RESEARCH/PROGRAMS AND PROJECTS/REPORT/PASTORAL SYSTEMS/LIVESTOCK SECTOR/MALI/NIGERIA ++

1427 INTEGRATED CROP-LIVESTOCK-FISH FARMING (1980) TAIPEI, FOOD AND FERTILIZER TECHNOLOGY CENTER. (FFTC BOOK SERIES, 16) 147P. FARMING SYSTEMS/CROPPING SYSTEMS/FISH FARMING/RICE/INDONESIA/INDIA/NEPAL/TAIWAN/PIG/PHILIPPINES/CATTLE/WASTE UTILIZATION/THAILAND/FISH CULTURE/KOREA/SMALL FARMS/MALAYSIA/POULTRY/FISHERIES/NATIONAL PROGRAMS AND PROJECTS/AQUACULTURE/MAIZE/JAPAN/COST-BENEFIT ANALYSIS S603.5/I46

1428 MARTINEZ-CASTILLA, D. (1982) SHEEP PRODUCTION UNITS IN THE CENTRAL PUNA OF PERU : OWNERSHIP, MANAGEMENT, AND HUSBANDRY IN UCRUCANCHA, GAYA, AND PALCAN. MORRILTON, WINROCK INTERNATIONAL. (SR-CRSP PAPERS, CP-1) 68P. PERU/LIVESTOCK FARMING/SHEEP/GRASSLAND MANAGEMENT/SHEEP MANAGEMENT/LABOR ALLOCATION/SURVEYS, SHORT-TERM PE.1.B

1429 MCCOWN, I.L. (1979) HAALAND, G.; DE HAAN, C. THE INTERACTION BETWEEN CULTIVATION AND LIVESTOCK PRODUCTION IN SEMI-ARID AFRICA. BERLIN, SPRINGER-VERLAG. IN: AGRICULTURE IN SEMI-ARID ENVIRONMENTS / A.E. HALL, G.H. CANNELL AND H.W. LAWTON, ED. (ECOLOGICAL STUDIES, 34) P.297-332. SEMIARID ZONES/PASTORAL SYSTEMS/SUBSISTENCE FARMING/LIVESTOCK PRODUCTS/DRAFT ANIMALS/SENEGAL/MALI/UPPER VOLTA/NIGER/NIGERIA/CHAD/SUDAN/ETHIOPIA/LIMITING FACTORS/SOCIOECONOMIC CONSTRAINTS/PERMANENT CULTIVATION/LAND-USE SYSTEMS SB110/.A37

1430 MINK, S. (1983) PROSPECTS FOR SMALL FARM GOAT PRODUCTION IN A TRANSMIGRATION AREA OF INDONESIA : RESULTS OF A SURVEY. MORRILTON, WINROCK INTERNATIONAL. (SR-CRSP PAPERS, CP-4) 45P. INDONESIA/SMALL FARMS/GOAT/CASSAVA/MAIZE/RICE/CROPPING SYSTEMS/ADOPTION OF INNOVATIONS/PROGRAMS AND PROJECTS/CATTLE/CHICKEN/LABOR REQUIREMENTS/OFF-FARM EMPLOYMENT/MARKETS/AGRICULTURAL CREDIT ID.1.B

1431 SABRANI, M. (1982) MULJADI, A.; DEBOER, A.J. SMALL RUMINANT PRODUCTION ON SMALL FARMS IN WEST JAVA, INDONESIA : PRELIMINARY RESULTS OF A BASELINE SURVEY OF UPLAND AND LOWLAND FARMING SYSTEMS. MORRILTON, WINROCK INTERNATIONAL. (SPECIAL PAPERS AND PRESENTATIONS, SP-16) 21P. INDONESIA/SMALL FARMS/FSR/SURVEYS, SHORT-TERM/RUMINANTS ID.1.B

1432 SANDS, M.W. (1982) FITZHUGH, H.A.; CHEMA, S. LIVESTOCK PRODUCTION ON SMALL FARMS OF WESTERN KENYA. MORRILTON, WINROCK INTERNATIONAL. (SPECIAL PAPERS AND PRESENTATIONS, SP-17) 12P. KENYA/LIVESTOCK FARMING KE.1.B

1433 SANDS, M.W. (1982) FITZHUGH, H.A.; CHEMA, S. SEASONAL VARIATION IN FEED RESOURCES ON SMALL FARMS OF WESTERN KENYA. MORRILTON, WINROCK INTERNATIONAL. (SPECIAL PAPERS AND PRESENTATIONS, SP-17) 11P. KENYA/SMALL FARMS/SURVEYS, SHORT-TERM/LIVESTOCK FEEDING KE.1.B

1434 SYSTEMS RESEARCH IN THE ARID ZONES OF MALI : INITIAL RESULTS/CLATER, SIMON, ED. (1981) ADDIS ABABA, ILCA. (ILCA SYSTEMS STUDY, 5) 251P. MALI/ILCA/LIVESTOCK CENSUSES/PASTORAL SYSTEMS/PRECIPITATION/LAND-USE SYSTEMS/PERMANENT CULTIVATION/MILLETS/SHIFTING CULTIVATION/DRAFT ANIMALS/FAMILY LABOR/CATTLE/SHEEP/GOAT/CAMEL/RICE/HUSBANDRY/LIVESTOCK ENTERPRISES/GRAZING BEHAVIOR/LIVESTOCK PRODUCTS/COWPEA/CROPPING SYSTEMS/FLOOD PLAINS/GRASSLAND MANAGEMENT/BROWSE/PRODUCTIVITY/NUTRITION/DONKEY ++

1435 TILLMAN, A.D. (1981) ANIMAL AGRICULTURE IN INDONESIA. MORRILTON, WINROCK INTERNATIONAL LIVESTOCK RESEARCH AND TRAINING CENTER. 80P. INDONESIA/DUAL-PURPOSE BREEDS/BEEF CATTLE/DAIRY CATTLE/BUFFALO/GOAT/SHEEP/PIG/POULTRY/ANIMAL DISEASES/FEEDS/FORAGE/PROGRAMS AND PROJECTS/LIMITING FACTORS HD9426/.I5/T54/1981

1436 VENGROFF, L. (1980) UPPER VOLTA : ENVIRONMENTAL UNCERTAINTY AND LIVESTOCK PRODUCTION. LUBBOCK, TEXAS TECH UNIVERSITY, INTERNATIONAL CENTER FOR ARID AND SEMI-ARID LAND STUDIES. 147P. UPPER VOLTA/SURVEYS, SHORT-TERM/ETHNIC GROUPS/LIVESTOCK MANAGEMENT/ANIMAL DISEASES/MORTALITY/HERDERS/TRANSHUMANCE/PRODUCT MARKETS/WOMEN IN AGRICULTURE/FEMALE LABOR/WOMAN'S STATUS HD9427/.U6/V45

1437 WINROCK INTERNATIONAL (1981) ARCHIBALD, F.; SINGH, R. ANIMAL PRODUCTION SYSTEMS IN THE EASTERN CARIBBEAN. TRINIDAD, CARDI. (CONSULTANT REPORT, 7) 221P. ANIMAL PRODUCTION/ST. KITTS-NEVIS/CATTLE/GOAT/SHEEP/PIG/POULTRY/ANIMAL HUSBANDRY/FEEDS/LIMITING FACTORS/FARM INPUTS/LIVESTOCK PRODUCTS/RECOMMENDATIONS/DONKEY/ANTIGUA/SURVEYS, SHORT-TERM/SMALL FARMS/NATIONAL PROGRAMS AND PROJECTS/BARBUDA/TENURE SYSTEMS/PASTURE MANAGEMENT/MONTSERRAT/RABBIT/TREE CROPS/DOMINICA/DUAL-PURPOSE CATTLE/BASELINE DATA/FAMILY LABOR/AGRICULTURAL CREDIT/ST. LUCIA/ST. VINCENT/GRENADA/MILK PRODUCTION/EGG PRODUCTION/SELF SUFFICIENCY ++

1438 THE WORKSHOP ON PASTORALISM AND AFRICAN LIVESTOCK DEVELOPMENT (1980) WASHINGTON, D.C., USAID. (A.I.D. PROGRAM EVALUATION REPORT, 4) 81P. PASTORAL SYSTEMS/LIVESTOCK SECTOR/NATIONAL PROGRAMS AND PROJECTS/SENEGAL/SOCIOECONOMIC CONSTRAINTS/KENYA/BOTSWANA DOC. S 18.52/4/4

1.C

1439 BISHOP, J. (1982) MIXED CROP/LIVESTOCK FARMING SYSTEMS. MORRILTON, WINROCK INTERNATIONAL. 20P. FSR/PROBLEM IDENTIFICATION/ON-FARM TESTING/SMALL FARMS/MIXED FARMING/LEGUMES, FORAGE/NIGERIA/NATIONAL PROGRAMS AND PROJECTS NG.1.C

1440 GUTIERREZ A., N. (1981) DEBOER, A.J.; UBIRACI, J. SOME RESOURCE INTERACTIONS AND ECONOMIC CHARACTERISTICS OF SHEEP AND GOAT PRODUCERS IN THE SERTAO OF CEARA STATE, NORTHEAST BRAZIL : PRELIMINARY SURVEY RESULTS. MORRILTON, WINROCK INTERNATIONAL. (SPECIAL PAPERS AND PRESENTATIONS, SP-12) 42P. BRAZIL/SHEEP/GOAT/MIXED FARMING/SURVEYS, SHORT-TERM/LAND USE BR.1.C

1441 MCCOWN, R.L. (1979) HAALAND, G.; DE HAAN, C. THE INTERACTION BETWEEN CULTIVATION AND LIVESTOCK PRODUCTION IN SEMI-ARID AFRICA. BERLIN, SPRINGER-VERLAG. IN: AGRICULTURE IN SEMI-ARID ENVIRONMENTS / A.E. HALL, G.H. CANNELL AND H.W. LAWTON, ED. (ECOLOGICAL STUDIES, 34) P.297-332. SEMIARID ZONES/PASTORAL SYSTEMS/SUBSISTENCE FARMING/LIVESTOCK PRODUCTS/DRAFT ANIMALS/SENEGAL/MALI/UPPER VOLTA/NIGER/NIGERIA/CHAD/SUDAN/ETHIOPIA/LIMITING FACTORS/SOCIOECONOMIC CONSTRAINTS/PERMANENT CULTIVATION/LAND-USE SYSTEMS SB110/.A37

1442 MCINTIRE, J. (1983) TWO ASPECTS OF FARMING IN SAT UPPER VOLTA : ANIMAL TRACTION AND MIXED CROPPING. OUAGADOUGOU, ICRISAT. (W.A. ECONOMICS PROGRAM PROGRESS REPORT, 7) 48P. ANIMAL TRACTION/UPPER VOLTA/SURVEYS, LONG-TERM/HAND TOOLS/DONKEY/INPUT-OUTPUT ANALYSIS/LABOR ALLOCATION/MIXED CROPPING/ICRISAT HV.1.C

1443 NORDBLOM, T.L. (1983) LIVESTOCK-CROP INTERACTIONS : THE CASE OF GREEN STAGE BARLEY GRAZING. ALEPPO, ICARDA. (DISCUSSION PAPER, 9) 37P. SYRIA/SHEEP/BARLEY/CONTROLLED GRAZING/ECONOMIC ANALYSIS/FEED SUPPLEMENTS/MARGINAL COSTS/LAND-USE SYSTEMS/ENERGY, METABOLIZABLE THIS PAPER SPECIFIES A BIO-ECONOMIC MODEL WHICH LINKS GRAZING AND FEED PURCHASE DECISIONS TO FARM TENURE ARRANGEMENTS, ALTERNATIVE FEED PRICES, CROP GROWTH CONDITIONS, AND CROP AND SHEEP RESPONSES TO VARIOUS GRAZING INTENSITIES. SY.ICA.1.C

1444 NYGAARD, D. (1983) TESTS ON FARMERS' FIELDS : THE ICARDA EXPERIENCE. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESEARCH PAPER, 5) 22P. ICARDA/SYRIA/BARLEY/FSR/SURVEYS, LONG-TERM/ON-FARM TESTING/INTERDISCIPLINARY RESEARCH/RAINFED FARMING/SOCIOECONOMIC ANALYSIS/METHODOLOGY/EVALUATION/SHEEP/FERTILIZER

RESPONSES/STRAW S539.5/.F37/no.5

1445 REPORT OF AN "IN HOUSE" OF THE CARDI/USAID PROJECT 538-0015 (1981) TRINIDAD, CARDI. 79P. BASELINE DATA/SURVEYS, SHORT-TERM/DATA COLLECTION/ST. LUCIA/ST. VINCENT/BANANA/GROUNDNUT/MULTICROPPING/GRENADA/FSR/TECHNOLOGY TRANSFERS/ON-FARM TESTING/EXPERIMENTAL STATIONS/CROPPING SYSTEMS/ANTIGUA/LIMITING FACTORS/SWEET POTATO/SOCIOECONOMIC CONSTRAINTS/SMALL FARMS/MONTSERRAT/FORAGE CROPS/FOOD CROPS/FARMING SYSTEMS/INTERCROPPING/CEREALS/IMPORTS/LIVESTOCK/ST. KITTS-NEVIS ++

1446 RUSSO, S.F. (1982) MUTHUVA, M.; HART, R. FEED PRODUCTION SYSTEMS FOR DUAL PURPOSE GOATS ON SMALL FARMS IN WESTERN KENYA. MORRILTON, WINROCK INTERNATIONAL. (SR-CRSP PAPERS, CR-6) 9P. KENYA/FORAGE CROPS/MIXED FARMING/FSR KE.1.C

1447 SHUMBA, E. (1982) ET AL. DEMONSTRATIONS OF AN INTERDISCIPLINARY APPROACH TO PLANNING ADAPTIVE AGRICULTURAL RESEARCH PROGRAMMES : PART OF CHIBI DISTRICT SOUTHERN ZIMBABWE. NAIROBI, CIMMYT, AND RESEARCH AND SPECIALIST SERVICES, MINISTRY OF AGRICULTURE, GOVERNMENT OF ZIMBABWE AND DEPARTMENT OF LAND MANAGEMENT, UNIVERSITY OF ZIMBABWE. (REPORT, 5) 44P. ZIMBABWE/DRAFT ANIMALS/TARGET SELECTION/CIMMYT/FARMING SYSTEMS/MAIZE/MILLETS/SOCIOECONOMIC CONSTRAINTS/HIRED LABOR/LAND SCARCITY/GROUNDNUT/LIMITING FACTORS/PROBLEM IDENTIFICATION/OBJECTIVES/SURVEYS, SHORT-TERM/SOLUTION DESIGN ZB.1.C

1448 SOMDJANA, S.B. (1982) KNIPSCHEER, H.C. PRODUCTIVITY OF SHEEP UNDER UPLAND FARMING CONDITIONS IN SUKAWARSI VILLAGE, DISTRICT OF GARUT, WEST JAVA. MORRILTON, WINROCK INTERNATIONAL. (SR-CRSP PAPERS, CR-2) 13P. INDONESIA/SURVEYS, SHORT-TERM/MIXED FARMING/SHEEP FARMING ID.1.C

1449 THOMSON, E.F. (1983) ET AL. ASPECTS OF SHEEP HUSBANDRY SYSTEMS IN ALEPPO PROVINCE OF NORTHWEST SYRIA. ALEPPO, ICARDA. (FARMING SYSTEMS PROGRAM RESEARCH REPORT, 1983) 36P. SYRIA/SHEEP/SURVEYS, LONG-TERM/GOAT/FORAGE CROPS/FARMING SYSTEMS/FEED SUPPLEMENTS/TRACTORS/BARLEY/STEPPE/CONTROLLED GRAZING/HUSBANDRY SY.ICA.1.C

1.D

1450 INTEGRATED AGRICULTURE-AQUACULTURE FARMING SYSTEMS : PROCEEDINGS / PULLIN, ROGER, S.V. AND ZIADH SHEHADEH, EDS. (1980) MANILA, INTERNATIONAL CENTRE FOR LIVING AQUATIC RESOURCES MANAGEMENT, AND SOUTHEAST ASIAN REGIONAL CENTER FOR GRADUATE STUDY AND RESEARCH IN AGRICULTURE. (ICLARM CONFERENCE PROCEEDINGS, 4) 258P. RICE/SOUTHEAST ASIA/FISH CULTURE/AQUACULTURE/IRRIGATION SYSTEMS/NATIONAL PROGRAMS AND PROJECTS/INDONESIA/THAILAND/PESTICIDES/TOXICITY/INTEGRATED METHODS/PIG/MANURES, ANIMAL/FERTILIZER RESPONSES/FEEDS/YIELD/AQUATIC MACROPHYTES/DISEASES/DUCK/GOOSE/MIXED FARMING/INDIA/FARMING SYSTEMS/JAPAN/MALAYSIA/NEPAL/PHILIPPINES/CROPPING SYSTEMS/TAIWAN/CHICKEN/FISH FARMING ++

1451 INTEGRATED CROP-LIVESTOCK-FISH FARMING (1980) TAIPEI, FOOD AND FERTILIZER TECHNOLOGY CENTER. (FFTC BOOK SERIES, 16) 147P. FARMING SYSTEMS/CROPPING SYSTEMS/FISH FARMING/RICE/INDONESIA/INDIA/NEPAL/TAIWAN/PIG/PHILIPPINES/CATTLE/WASTE UTILIZATION/THAILAND/FISH CULTURE/KOREA/SMALL FARMS/MALAYSIA/POULTRY/FISHERIES/NATIONAL PROGRAMS AND PROJECTS/AQUACULTURE/MAIZE/JAPAN/COST-BENEFIT ANALYSIS S603.5/146

2

1452 GERHART, J.D. (1977) DRYLAND FARMING IN BOTSWANA. IN: MIDDLE EAST AND AFRICA AGRICULTURAL SEMINAR, TUNIS, TUNISIA, FEBRUARY 1-3, 1977. NEW YORK : THE FORD FOUNDATION. 15P. BOTSWANA/RAINFED FARMING/SEASONAL MIGRATION/DRAFT ANIMALS/LIMITING FACTORS/SORGHUM/MAIZE/COWPEA/MILLET, COMMON/FARMING SYSTEMS/SOCIOECONOMIC CONSTRAINTS/PROGRAMS AND PROJECTS/ON-FARM TESTING/WOMEN IN AGRICULTURE/OX-DRAWN IMPLEMENTS/ADOPTION OF INNOVATIONS/MARKETING BOARDS AFRICA.3

1453 HART, R.D. (1982) AGROECOSYSTEM DETERMINANTS. MORRILTON, WINROCK INTERNATIONAL. (SPECIAL PAPERS AND PRESENTATIONS, SP-19) 25P. AGROECOSYSTEM/DECISION MAKING/HONDURAS/PLANNING OF RESEARCH/ECOSYSTEMS 2

2.A

1454 SAH, D.N. (1980) FLINN, J.C. RESEARCH TRIALS AND FARMER RECOMMENDATIONS. LOS BANOS, IRRI. (IRRI AGRICULTURAL ECONOMICS DEPARTMENT PAPER, 80-19) 21P. WHEAT/FERTILIZER RESPONSES/NEPAL/YIELD GAP NP.2.A

2.A.1

1455 AHMAD, N. (1981) AN INVESTIGATION OF SOIL CONDITIONS OF FARMERS HOLDINGS IN ST. VINCENT. ST. AUGUSTINE, TRINIDAD, CARDI. (CONSULTANT REPORT, 8) 78P. ST. VINCENT/SWEET POTATO/SOIL PROPERTIES/SOIL MANAGEMENT/SOIL MAPS/PLANTAIN/SOIL FERTILITY/TARO/ARROWROOT/CASSAVA/GROUNDNUT/COWPEA/MAIZE/TOMATO/CABBAGE/PIGEON PEA/SOIL CLASSIFICATION/ROOT CROPS/COLOCASIA ++

1456 CARROLL, C.R. (1983) SOME ECOLOGICAL ASPECTS OF FARMING SYSTEMS IN SOUTHERN HONDURAS. LINCOLN, UNIVERSITY OF NEBRASKA, INSTITUTE OF AGRICULTURAL AND NATURAL RESOURCES. 8P. HONDURAS/PHOSPHORUS/LEGUMES/INTERCROPPING/AGROECOSYSTEM/SOIL FERTILITY HN.2.A.1

1457 SANCHEZ, P.A. (1981) A LEGUME-BASED, PASTURE PRODUCTION STRATEGY FOR ACID INFERTILE SOILS OF TROPICAL AMERICA. RALEIGH, NORTH CAROLINA STATE UNIVERSITY. 45P. COLOMBIA/BRAZIL/PERU/SOIL ACIDITY/LEGUMES, FORAGE/NITROGEN/PHOSPHATES/GRASSLAND MANAGEMENT/OXISOLS/ULTISOLS LATIN AMERICA.2.A.1

1458 TEJWANI, K.G. (1974) CASE STUDIES ON FARMING SYSTEMS IN THE SEMI-ARID TROPICS OF INDIA. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 15P. FSR/SEMIARID TROPICS/INDIA/SOIL EROSION/SOIL AND WATER CONSERVATION S616/.T76/I57/1974a

2.A.2

1459 BRONZI, P. (1976) AGRO-CLIMATOLOGICAL CONSTRAINTS TO IMPROVING DRY-LAND PRODUCTION TECHNOLOGY. IN: MIDDLE EAST AND AFRICA AGRICULTURAL SEMINAR, TUNIS, TUNISIA, FEBRUARY 1-3, 1977. NEW YORK : THE FORD FOUNDATION. 15P. AGROCLIMATOLOGY/JORDAN/WATER BALANCE/TUNISIA/SOIL MOISTURE/IRAN/SYRIA/EVAPOTRANSPIRATION/SEMIARID ZONES AFRICA.3

1460 ELSTON, J. (1974) DENNETT, M.D. ASSESSMENT OF CLIMATIC RESOURCES IN RELATION TO FARMING SYSTEMS IN THE SEMI-ARID TROPICS. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 31P. SOLAR RADIATION/AGROCLIMATOLOGY/WATER BALANCE/AFRICA/PREDICTION/PRECIPITATION/SEMIARID TROPICS S616/.T76/I57/1974a

1461 KRISHAN, A. (1974) SOME CLIMATOLOGICAL FEATURES OF THE SEMI-ARID TROPICAL REGIONS OF THE WORLD. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 38P. SEMIARID TROPICS/AGROCLIMATOLOGY/AFRICA/INDIA/GROWTH, SEASONAL S616/.T76/I57/1974a

1462 RIJKS, D. (1974) APPLICATION OF AGROMETEOROLOGY TO THE FARMING SYSTEMS IN THE SEMI-ARID TROPICS. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 7P. AGROMETEOROLOGY/WATER BALANCE/SEMIARID TROPICS S616/.T76/I57/1974a

1463 VIRMANI, S.M. (1974) A GEO-CLIMATOLOGICAL APPROACH FOR FARMING SYSTEMS RESEARCH. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 14P. FSR/INDIA/PRECIPITATION/WATER BALANCE/EVAPORATION/CROPPING SYSTEMS S616/.T76/I57/1974a

2.A.3

1464 ARNON, I. (1974) WATER-USE EFFICIENCY IN CROP PRODUCTION IN THE SEMI-ARID TROPICS. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 14P. SOIL MOISTURE/WATER MANAGEMENT/ISRAEL/SOIL AND WATER CONSERVATION/DROUGHT TOLERANCE/SEMIARID TROPICS S616/.T76/I57/1974a

1465 FUEHRING, H.D. (1981) DRYLAND CROPPING SYSTEMS IN EASTERN NEW MEXICO. LAS CRUCES, NEW MEXICO STATE UNIVERSITY, AGRICULTURAL EXPERIMENT STATION. (RESEARCH REPORT, 452) 4P. USA/NEW MEXICO/SORGHUM/WHEAT/RAINFED FARMING/ROW INTERCROPPING/FALLOW/GROSS RETURNS/RUNOFF CONTROL PREVIOUS WORK INDICATED THAT WATER SHED FROM ONE AREA ONTO ADJACENT GROWING BEDS PRODUCED HIGH GRAIN SORGHUM YIELDS, BUT THE COST OF MAINTAINING THE SHEDS WAS PROHIBITIVE. APPARENTLY, NEITHER BARE NOR CROPPED WATERSHED AREAS ARE A PRACTICAL MEANS OF INCREASING PRODUCTION. US.2.A.3

1466 GEDDES, H.J. (1974) ACHIEVEMENTS IN WATER HARVESTING TECHNOLOGY IN AUSTRALIA. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 11P. AUSTRALIA/WATER MANAGEMENT S616/.T76/I57/1974a

1467 KAMPEN, J. (1974) ET AL. SOIL AND WATER CONSERVATION AND MANAGEMENT IN FARMING SYSTEMS RESEARCH FOR THE SEMI-ARID TROPICS. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 40P. SEMIARID TROPICS/INDIA/FSR/SOIL TYPES/IRRIGATION/ICRISAT/AGROCLIMATOLOGY/LAND-USE SYSTEMS/SOIL AND WATER CONSERVATION/PLANNING

OF RESEARCH/RAINFED FARMING/WATERSHEDS/PRECIPITATION S616/.T76/I57/1974a

1468 MYERS, L.E. (1974) WATER-HARVESTING AND MANAGEMENT FOR FOOD AND FIBER PRODUCTION IN THE SEMI-ARID TROPICS. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. HYDERABAD : ICRISAT, 1974. 8P. WATER MANAGEMENT/SEMIARID TROPICS S616/.T76/I57/1974a

1469 RUSSELL, M.P. (1974) KATTE, R.P. SEASONAL WATER USE BY RAIN-FED AND IRRIGATED WHEAT GROWN ON A DEEP VERTISOL. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. HYDERABAD : ICRISAT, 1974. 18P. INDIA/WHEAT/WATER USE/RAINFED FARMING/IRRIGATED FARMING/VERTISOLS/SOIL MOISTURE/EVAPORATION S616/.T76/I57/1974a

2.B

1470 MORENO, L.A. (1980) REPORT OF A VISIT TO CARDI PROGRAMME ON SMALL FARMERS CROPPING SYSTEMS, DECEMBER 3-9, 1979. TRINIDAD, CARDI. (CONSULTANT REPORT, 3) 7P. ST. LUCIA/BANANA/CROPPING SYSTEMS/RECOMMENDATIONS LC.2.B

1471 RAIN, A. 1983) NUTRITIONAL CRITERIA IN PLANT BREEDING : TECHNICAL PROBLEMS AND CONSTRAINTS IN RELATION TO SRI LANKA'S PLANT BREEDING PROGRAMME. NORWICH, UNIVERSITY OF EAST ANGLIA, SCHOOL OF DEVELOPMENT STUDIES. (DISCUSSION PAPER, 122) 16P. SRI LANKA/RICE/PLANT BREEDING/HIGH YIELDING VARIETIES/NUTRITIONAL VALUE/PROTEIN VALUE/NUTRITIONAL STATE/AGRICULTURAL RESEARCH LK.3.B

2.B.1

1472 BIGGS, S.D. (1983) MONITORING AND CONTROL IN AGRICULTURAL RESEARCH SYSTEMS : MAIZE IN NORTHERN INDIA. NORWICH, UNIVERSITY OF EAST ANGLIA, SCHOOL OF DEVELOPMENT STUDIES. (PREPRINT, 160) 22P. INDIA/MAIZE/ON-FARM TESTING/SURVEYS, SHORT-TERM/YIELD GAP IN.2.B.1

1473 COTTON PRODUCTION IN NEVIS (1981) TRINIDAD, CARDI. (CONSULTANT REPORT, 5) 6P. COTTON/LIMITING FACTORS/ST. KITTS-NEVIS KN.2.B.1

1474 CUMMINGS, R.W. (1976) FOOD CROPS IN THE LOW-INCOME COUNTRIES : THE STATE OF PRESENT AND EXPECTED AGRICULTURAL RESEARCH AND TECHNOLOGY. NEW YORK, ROCKEFELLER FOUNDATION. 103P. RICE/NATIONAL PROGRAMS AND PROJECTS/WHEAT/MAIZE/SORGHUM/MILLETS/BEANS/COWPEA/CHICKPEA/PIGEON PEA/GROUNDNUT/CASSAVA/POTATO/FARMING SYSTEMS/IRRI/CIMMYT/ICRISAT/IITA/STATISTICS SB185/C85

1475 DESAI, S.N. (1980) BPOI, P.G. ASSESSMENT OF PRODUCTION POTENTIAL OF FOOD AND FORAGE UNDER AGRO-FORESTRY SYSTEM. JOURNAL OF MAHARASHTRA AGRICULTURAL UNIVERSITY. 7(1):33-36. 1982. FORAGE CROPS/AGROFORESTRY/INTERCROPPING/INDIA IN.2.B.1

1476 RAJENDRAN, S. (1982) JHA, D.; RYAN, J.G. FERTILIZER RESPONSIVENESS OF CHICKPEAS IN INDIA : AN ANALYTICAL REVIEW. PATANCHERU, ICRISAT. (ECONOMICS PROGRAM PROGRESS REPORT, 34) 35P. INDIA/CHICKPEA/FERTILIZER RESPONSES/RETURNS/IRRIGATION/RAINFED FARMING IN.ICR.2.B.1

1477 SANCHEZ, P.A. (1981) A LEGUME-BASED, PASTURE PRODUCTION STRATEGY FOR ACID INFERTILE SOILS OF TROPICAL AMERICA. RALEIGH, NORTH CAROLINA STATE UNIVERSITY. 45P. COLOMBIA/BRAZIL/PERU/SOIL ACIDITY/LEGUMES, FORAGE/NITROGEN/PHOSPHATES/GRASSLAND MANAGEMENT/OXISOLS/ULTISOLS LATIN AMERICA.2.A.1

1478 SANDERS, J.H. (1982) JOHNSON, D.V. SELECTING AND EVALUATING NEW TECHNOLOGY FOR SMALL FARMERS IN THE COLOMBIAN ANDES. MOUNTAIN RESEARCH AND DEVELOPMENT. 2(3):307-316. 1982. COLOMBIA/ON-FARM TESTING/CAQUEZA PROJECT/TECHNOLOGY TRANSFERS/CIAT/BEANS/MAIZE/EXPERIMENTAL STATIONS/SMALL FARMS/PROGRAMS AND PROJECTS CO.2.B.1

1479 SYARIFUDDIN F., A (1978) SAMPSTER, H.G. EFFECT OF FERTILIZER RATES AND DEPTHS OF PLACEMENTS AND MULCHING ON RAINFED CORN AFTER PUDDLED FLOODED RICE. LOS BANOS, IRRI. 23P. PHILIPPINES/RAINFED FARMING/MAIZE/RICE/FERTILIZER APPLICATION/PUDDLING/CROPPING SYSTEMS PH.IRR.2.B.1

2.B.2.A

1480 POZO, M. (1979) MAYBELL, S. ENCUESTA AGROECONOMICA EN LAS AREAS DE COLONIZACION INFORME SOBRE CONTROL DE MALEZAS EN ARROZ. SANTA CRUZ, CIAT. (DOCUMENTO DE TRABAJO, 7) 27P. RICE/BOLIVIA/WEED CONTROL/FARMING SYSTEMS/SMALL

FARMS/SURVEYS, SHORT-TERM/TARGET SELECTION BO.2.B.2.A

2.B.2.B

1481 ANIMAL AGRICULTURE RESEARCH : AN INTERDISCIPLINARY APPROACH (1981) MORRILTON, WINROCK INTERNATIONAL. (WIP-13) 8P. ANIMAL RESEARCH/ANIMAL PRODUCTION 2.B.2.B

1482 CROPPING SYSTEMS WORKING GROUP (1981) REPORT OF A MEETING OF ASIAN RICE-BASED CROPPING SYSTEMS ENTOMOLOGISTS, 15-16 MAY 1981, BOGOR, INDONESIA. BOGOR, BOGOR RESEARCH INSTITUTE FOR FOOD CROPS, CROPPING SYSTEMS PROGRAMS. 151P. INSECT PESTS/INSECTICIDE APPLICATION/CROPPING SYSTEMS/PLANNING OF RESEARCH/THAILAND/RICE/MUNGBEAN/GROUNDNUT/COWPEA/MAIZE/NATIONAL PROGRAMS AND PROJECTS/BANGLADESH/PEST MANAGEMENT/INDONESIA/INTERCROPPING/SURVEYS, SHORT-TERM/PHILIPPINES/FSR/CASSAVA ++

1483 FITZHUGH, H.A. (1982) DUAL-PURPOSE GOAT PRODUCTION SYSTEMS FOR SMALLHOLDER AGRICULTURISTS. MORRILTON, WINROCK INTERNATIONAL. (SP-CRSP PAPERS, CR-9) 3P. FSR/GOAT/SMALL FARMS KE.2.B.2.B

1484 LITSINGER, J.A. (1980) ET AL. A METHODOLOGY FOR DETERMINING INSECT CONTROL RECOMMENDATIONS. MANILLA, IRRI. (IRRI RESEARCH PAPER SERIES, 46) 31P. CROPPING SYSTEMS/PHILIPPINES/RICE/INSECTICIDES/INSECT PESTS/ENVIRONMENTAL FACTORS/COWPEA/MUNGBEAN/PEST MANAGEMENT/INTERDISCIPLINARY RESEARCH SB191/.R5/L596B/NO.46

1485 MARCIANO, V.P. (1981) MAUDAC, A.M.; FLINN, J.C. INSECT MANAGEMENT PRACTICES OF RICE FARMERS IN LAGUNA, PHILIPPINES. LOS BANOS, IRRI. (IRRI AGRICULTURAL ECONOMICS DEPARTMENT PAPER, 81-03) 23P. PHILIPPINES/RICE/INSECTICIDE APPLICATION PH.IRR.2.B.2.B

1486 TILLMAN, A.D. (1981) ANIMAL AGRICULTURE IN INDONESIA. MORRILTON, WINROCK INTERNATIONAL LIVESTOCK RESEARCH AND TRAINING CENTER. 80P. INDONESIA/DUAL-PURPOSE BREEDS/BEEF CATTLE/DAIRY CATTLE/BUFFALO/GOAT/SHEEP/PIG/POULTRY/ANIMAL DISEASES/FEEDS/FORAGE/PROGRAMS AND PROJECTS/LIMITING FACTORS HD9426/.I5/T54/1981

3

1487 AGRICULTURAL PRODUCTION IN JINOTEGA, NICARAGUA : PHYSIO-BIOLOGICAL AND SOCIO-ECONOMIC CONDITIONS : PRELIMINARY STUDY / VAN TIENHOVEN, N. AND J. LAGEMANN, EDS. (1981) TURRIALBA, CATIE. 81P. NICARAGUA/FSR/CATIE/SURVEYS, SHORT-TERM/INFRASTRUCTURE/FARMING SYSTEMS/CROPPING SYSTEMS/SOCIOECONOMIC CONSTRAINTS/LIMITING FACTORS ++

1488 DIXON, R.B. (1980) ASSESSING THE IMPACT OF DEVELOPMENT PROJECTS ON WOMEN. WASHINGTON, D.C., USAID. (A.I.D. PROGRAM EVALUATION DISCUSSION PAPER, 8) 105P. WOMEN IN DEVELOPMENT/PROGRAMS AND PROJECTS/DECISION MAKING/WOMAN'S STATUS/PROJECT APPRAISAL DOC/S18.52/1/8

1489 MIDDLE EAST AND AFRICA AGRICULTURAL SEMINAR, TUNIS, TUNISIA, FEBRUARY 1-3, 1977/HARDIN, LOWELL S., ED. (1977) NEW YORK, FORD FOUNDATION. SMALL FARMS/SOCIOECONOMIC CONSTRAINTS/PROGRAMS AND PROJECTS/TECHNOLOGY TRANSFERS AFRICA.3

1490 REEVES, E.B. (1982) FRANKENBERGER, T. FARMING SYSTEMS RESEARCH IN NORTH KORDOFAN, SUDAN. SEE THEIR: SOCIOECONOMIC CONSTRAINTS TO THE PRODUCTION, DISTRIBUTION... ++

1491 RYAN, J.G. (1974) ET AL. SOCIO-ECONOMIC ASPECTS OF AGRICULTURAL DEVELOPMENT IN THE SEMI-ARID TROPICS. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 41P. SEMIARID TROPICS/INDIA/MILLETS/SORGHUM/GROUNDNUT/CHICKPEA/PIGEON PEA/MARKET PRICES/FARM SIZE/AFRICA/CENTRAL AMERICA/SOUTH AMERICA/ICRISAT S616/.T76/I57/1974a

1492 SCHERER, F. (1969) THE DEVELOPMENT OF SMALLHOLDER VEGETABLE PRODUCTION IN KIGEZI, UGANDA. MUNICH, IFO - INSTITUT FUR WIRTSCHAFTSFORSCHUNG, AFRIKA-STUDIENSTELLE. 217P. UGANDA/SMALL FARMS/LAND-USE SYSTEMS/CASH CROPS/FOOD CROPS/COOPERATIVE MARKETING/CROPPING SYSTEMS/FOOD CONSUMPTION/PRODUCT MARKETS/COLONIALISM/VEGETABLE CROPS/PROGRAMS AND PROJECTS/EXTENSION/COOPERATIVE FARM ENTERPRISES SB320.8/U3/S3

3.A

1493 DOHERTY, V.S. (1982) TANK IRRIGATION IN CROSSCULTURAL PERSPECTIVE. PATANCHERU, ICRISAT. (ECONOMICS PROGRAM PROGRESS

REPORT, 36) 25P. INDIA/IRRIGATION, TANK/SOCIETIES/LAND-USE SYSTEMS IN.ICB.3.A

1494 EPSTEIN S., T. (1974) ECONOMIC AND SOCIAL ASPECTS OF LABOR UTILIZATION IN THE SEMI-ARID TROPICS. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 13P. FAMILY LABOR/TECHNOLOGY TRANSFERS/TRADITIONS/FARMING SYSTEMS/HIRED LABOR/SOCIAL CHANGE/SEMIARID TROPICS/ASIA/AFRICA S616/.T76/I57/1974a

1495 MAXWELL, S. (1980) DIFFERENTIATION IN THE COLONIES OF SANTA CRUZ : CAUSES AND EFFECTS. SANTA CRUZ, CIAT. (WORKING PAPER, 13) 42P. BOLIVIA/INCOME DISTRIBUTION/SETTLEMENT/DIFFERENTIATION/FARMING SYSTEMS BO.3.A

3.D

1496 BIDINGER, P.D. (1981) NAG, B. THE ROLE OF PIGEONPEAS IN VILLAGE DIETS IN THE SEMI-ARID TROPICS OF SOUTH INDIA. PATANCHERU, ICRISAT. (ECONOMICS PROGRAM PROGRESS REPORT, 23) 14P. INDIA/PIGEON PEA/VILLAGE STUDIES/CONSUMPTION IN.ICP.3.D

1497 DEWALT, K.M. (1983) WRITESEL, A. INTSORMIL TRIP REPORT : SOUTHERN HONDURAS. LINCOLN, UNIVERSITY OF NEBRASKA, INSTITUTE OF AGRICULTURE AND NATURAL RESOURCES. 3P. HONDURAS/NUTRITIONAL SURVEYS HN.3.D

1498 PAIN, A. (1983) NUTRITIONAL CRITERIA IN PLANT BREEDING : TECHNICAL PROBLEMS AND CONSTRAINTS IN RELATION TO SRI LANKA'S PLANT BREEDING PROGRAMME. NORWICH, UNIVERSTIY OF EAST ANGLIA, SCHOOL OF DEVELOPMENT STUDIES. (DISCUSSION PAPER, 122) 16P. SRI LANKA/RICE/PLANT BREEDING/HIGH YIELDING VARIETIES/NUTRITIONAL VALUE/PROTEIN VALUE/NUTRITIONAL STATE/AGRICULTURAL RESEARCH LK.3.D

1499 WHELAN, W.P. (1982) THE NUTRITIONAL COMPONENT OF FARMING SYSTEMS RESEARCH. NEW BRUNSWICK, RUTGERS UNIVERSITY, INTERNATIONAL AGRICULTURAL AND FOOD PROGRAM, COOK COLLEGE. 18P. FSR/PROBLEM IDENTIFICATION/TARGET SELECTION/SOLUTION DESIGN/NUTRITIONAL STATE/NUTRITIONAL SURVEYS/FOOD CONSUMPTION/ADOPTION OF INNOVATIONS/EVALUATION 3.D

1500 WHELAN, W.P. (1983) INCORPORATING NUTRITIONAL CONSIDERATIONS INTO FARMING SYSTEMS RESEARCH. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESEARCH PAPER, 5) 10P. FSR/NUTRITIONAL STATE/FOOD CONSUMPTION S539.5/.F37/no.5

3.E

1501 FOOTE, R.J. (1977) IMPROVING AGRICULTURAL RESEARCH PLANNING AND MANAGEMENT IN TANZANIA. IN: MIDDLE EAST AND AFRICA AGRICULTURAL SEMINAR, TUNIS, TUNISIA, FEBRUARY 1-3, 1977. NEW YORK : THE FORD FOUNDATION. 21P. TANZANIA/PROGRAMS AND PROJECTS/AGRICULTURAL RESEARCH/EDUCATION AFRICA.3

1502 HARDIN, L.S. (1976) HAKIM, P. FUTURE AGRICULTURAL PROGRAM DIRECTIONS. IN: MIDDLE EAST AND AFRICA AGRICULTURAL SEMINAR, TUNIS, TUNISIA, FEBRUARY 1-3, 1977. NEW YORK : THE FORD FOUNDATION. 11P. AGRICULTURAL RESEARCH/NATIONAL PROGRAMS AND PROJECTS AFRICA.3

1503 MCLEAN, G.T. (1976) SURVEY OF AGRICULTURAL RESEARCH IN THE SUDAN : CAPABILITIES, SCOPE, POTENTIALS AND PRIORITIES. IN: MIDDLE EAST AND AFRICA AGRICULTURAL SEMINAR, TUNIS, TUNISIA, FEBRUARY 1-3, 1977. NEW YORK : THE FORD FOUNDATION. 49P. SUDAN/AGRICULTURAL RESEARCH/PROGRAMS AND PROJECTS/EXPERIMENTAL STATIONS/WATER MANAGEMENT/SOIL MANAGEMENT/INTEGRATED PLANT PROTECTION/AGRICULTURAL ECONOMICS/AGRICULTURAL ENGINEERING/SEED PRODUCTION/EXTENSION/INTERDISCIPLINARY RESEARCH/TRAINING AFRICA.3

1504 ROSLING, N.G. (1982) OPEN-ENDED APPROACHES TO SMALL FARMER DEVELOPMENT. AMES, IOWA STATE UNIVERSITY, WORLD FOOD INSTITUTE. 11P. FOOD PRODUCTION/SMALL FARMS/AGRICULTURAL POLICY 3.E

3.E.1

1505 BARGHOUTI, S. (1977) THE ROLE OF AGRICULTURAL COOPERATIVES IN INTRODUCING NEW TECHNOLOGY IN WHEAT PRODUCTION. IN: MIDDLE EAST AND AFRICA AGRICULTURAL SEMINAR, TUNIS, TUNISIA, FEBRUARY 1-3, 1977. NEW YORK : THE FORD FOUNDATION. 39P.

JORDAN/WHEAT/FARMERS' ATTITUDES/AGROCLIMATOLOGY/ADOPTION OF INNOVATIONS/FARMERS' ASSOCIATIONS/EXTENSION/PROGRAMS AND PROJECTS/DEMONSTRATION FARMS/RAINFED FARMING/SMALL FARMS/DECISION MAKING AFRICA.3

1506 STAUDT, K. (1978) AGRICULTURAL PRODUCTIVITY GAPS : A CASE STUDY OF MALE PREFERENCE IN GOVERNMENT POLICY IMPLEMENTATION. DEVELOPMENT AND CHANGE 9:439-457. 1978. WOMEN IN AGRICULTURE/BIAS/KENYA/EXTENSION/ADOPTION OF INNOVATIONS/HEADS OF FAMILIES/WOMEN IN DEVELOPMENT KE.3.E.1

3.E.1.A.BB

1507 ROELING, N.G. (1982) ALTERNATIVE APPROACHES IN EXTENSION. IN: PROGRESS IN RURAL EXTENSION AND COMMUNITY DEVELOPMENT / JONES, GWYN E. AND MAURICE J. ROLLS, EDS. NEW YORK : WILEY, 1982. V.1 PP87-115. EXTENSION/NATIONAL PROGRAMS AND PROJECTS/TARGET SELECTION/SMALL FARMS/METHODOLOGY 3.E.1.A.BB

3.E.1.B.AA

1508 DEBOER, A.J. (1980) SOCIO-ECONOMIC ASPECTS OF DAIRYING IN DEVELOPING COUNTRIES. MORRILTON, WINROCK INTERNATIONAL. (WIP-6) 21P. DAIRYING/INDIA/MILK PRODUCTION/MILK MARKETING 3.E.1.B.AA

1509 SABRANI, M. (1982) KNIPSCHEER, H.C. SHEEP AND GOAT MARKETS IN CENTRAL JAVA : A PROFILE. MORRILTON, WINROCK INTERNATIONAL. (SR-CRSP PAPERS, CR-3) 22P. INDONESIA/SHEEP/GOAT/FSR/SURVEYS, SHORT-TERM/PRODUCT MARKETS ID.3.E.1.B.AA

3.E.1.B.BB

1510 SPURGEON, D. (1976) HIDDEN HARVEST : A SYSTEMS APPROACH TO POSTHARVEST TECHNOLOGY. OTTAWA, IDRC. (IDRC-062EM) 36P. POST-HARVEST MANAGEMENT/APPROPRIATE TECHNOLOGY/HIGH YIELDING VARIETIES/NIGERIA/FLOURS, CEREAL/MILLING/MILLETS/SORGHUM/COWPEA 3.E.1.B.BB AND HC60/.I612/1976/NO.062E

3.E.2

1511 BARAH, B.C. (1982) BINSWANGER, H.P. REGIONAL EFFECTS OF NATIONAL STABILIZATION POLICIES : THE CASE OF INDIA. PATANCHERU, ICRISAT. (ECONOMICS PROGRAM PROGRESS REPORT, 37) 40P. INDIA/RISK/SEMIARID ZONES/YIELD/PRICE STABILIZATION/REGRESSION ANALYSIS/SUBSISTENCE FARMING IN.ICR.3.E.2

3.F

1512 FRANCIS, C.A. (1974) IMPACT OF NEW TECHNOLOGY ON SMALL-FARM AGRICULTURE. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 8P. CIAT/SMALL FARMS/SOCIOECONOMIC CONSTRAINTS/INTERDISCIPLINARY RESEARCH/LATIN AMERICA/PLANNING OF RESEARCH/OBJECTIVES/APPROPRIATE TECHNOLOGY/TECHNOLOGY TRANSFERS S616/.T76/I57/1974a

3.F.1

1513 GARMAN, C.F. (1982) NGAMBEKI, D.S.; NAVASERO, N.C. APPROPRIATE MECHANIZATION FOR NO-TILLAGE IN THE TROPICS. ST. JOSEPH, AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS. (PAPER NO. 82-5002) 18P. NO-TILLAGE/PLANTING EQUIPMENT/APPROPRIATE TECHNOLOGY/NIGERIA/IITA/SMALL FARMS/TRACTORS/TROPICS NG.3.F.1

1514 INTERNATIONAL CONFERENCE ON ECONOMIC ANALYSIS IN THE DESIGN OF NEW TECHNOLOGY FOR SMALL FARMERS, CENTRO INTERNACIONAL DE AGRICULTURA TROPICAL (1975) ECONOMICS AND THE DESIGN OF SMALL-FARMER TECHNOLOGY. AMES, IOWA STATE UNIVERSITY PRESS. 211P. SMALL FARMS/ECONOMIC ANALYSIS/LINEAR PROGRAMMING/RISK/DECISION MAKING/PUEBLA PROJECT/PHILIPPINES/TECHNOLOGY TRANSFERS/FERTILIZER APPLICATION/PLANNING OF RESEARCH/INTERDISCIPLINARY RESEARCH/COLOMBIA/CIAT/LIVESTOCK ENTERPRISES/BRAZIL/SHARE CROPPING/CAQUEZA PROJECT/ECONOMIC GROWTH/RURAL DEVELOPMENT HD1476/.A3/I57/1975

1515 KAUL, R.N. (1982) AN OVERVIEW OF MECHANIZATION PROBLEMS IN A DEVELOPING COUNTRY WITH SPECIAL REFERENCE TO NIGERIA. ST. JOSEPH, AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS. (PAPER NO. 825001) 35P. NIGERIA/AGRICULTURAL MECHANIZATION/WOMEN IN AGRICULTURE/TRACTORS NG.3.F.1

1516 MCLEAN, G.W. (1977) APPROPRIATE MECHANIZATION AND POWER AS THEY RELATE TO IMPROVED SYSTEMS OF FARMING. IN: MIDDLE EAST

AND AFRICA AGRICULTURAL SEMINAR, TUNIS, TUNISIA, FEBRUARY 1-3, 1977. NEW YORK : THE FORD FOUNDATION. 25P. EGYPT/AGRICULTURAL MECHANIZATION/TRACTORS/DRILLING/THRESHER/ANIMAL TRACTION AFRICA.3

1517 MECHANIZATION ON SMALL-SCALE FARM LEVEL IN THE HUMID TROPICS OF WEST AND CENTRAL AFRICA : SUMMARY REPORT OF THE INTERNATIONAL CONFERENCE HELD AT YAOUNDE / CAMEROON, 2 TO 9 JUNE 1980 (1981) FELDAFING, GERMAN FOUNDATION FOR INTERNATIONAL DEVELOPMENT AND CENTRE NATIONAL D'ETUDES ET D'EXPERIMENTATION DU MACHINISME AGRICOLE, GERMAN AGENCY FOR TECHNICAL COOPERATION. 68P. SMALL FARMS/AGRICULTURAL MECHANIZATION/LAND CLEARANCE/ANIMAL TRACTION/CROPPING SYSTEMS/HARVESTING/HUMID ZONES/POST-HARVEST MANAGEMENT/TRANSPORT/APPROPRIATE TECHNOLOGY/WEST AFRICA/CENTRAL AFRICA/CASSAVA/MAIZE/RICE/COWPEA S760/.A3/M42

1518 PERCY, M.J. (1980) REPORT ON MECHANISATION OF SMALL PEANUT FARMS IN THE EASTERN CARIBBEAN. TRINIDAD, CARDI. (CONSULTANT REPORT, 2) 30P. ST. VINCENT/GROUNDNUT/TRACTORS/ANTIGUA/BARBUDA/MECHANIZATION/ST. KITTS-NEVIS KN.3.F.1

1519 PERCY, M.J. (1981) INFORMATION GATHERING SYSTEM FOR PEANUT PRODUCTION IN THE EASTERN CARIBBEAN. TRINIDAD, CARDI. (CONSULTANT REPORT, 4) 25P. MECHANIZATION/GROUNDNUT/ST. KITTS-NEVIS KN.3.F.1

1520 QUISUMBING, E.C. (1982) ON-FARM EVALUATION OF THE ROLLING INJECTION PLANTER FOR ESTABLISHING UPLAND CROPS AFTER RAINFED BUNDED RICE. S.L., S.N. (ATTACHMENT A) 15P. PHILIPPINES/PLANTING EQUIPMENT/NO-TILLAGE/DOUBLE CROPPING/EXPERIMENTAL PLOTS PH.3.F.1

1521 REDDY, V.P. (1982) SMALL FARM EQUIPMENT TECHNOLOGY TRANSFER TO DEVELOPING COUNTRIES : EXPERIENCES GAINED IN INDONESIA. ST. JOSEPH, AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS. (PAPER NO. 825005) 8P. INDONESIA/IRRI/EXTENSION/PROGRAMS AND PROJECTS/AGRICULTURAL MECHANIZATION/SMALL FARMS SMALL FARM EQUIPMENT THAT INCREASES FARMER'S PRODUCTIVITY, WHILE DECREASING HIS DRUDGERY AND WHICH CAN BE BUILT LOCALLY BY SMALL WORKSHOPS SPREAD OVER IN SMALL TOWNS IS THE MOST APPROPPIATE CHOICE OF TECHNOLOGY FOR DEVELOPING COUNTRIES. ID.3.F.1

1522 SINAGA, R.S. (1982) BERNSTEN, R.H. MYTHS ABOUT LAND PREPARATION MECHANIZATION : RESEARCH RESULTS IN INDONESIA. MORRILTON, WINROCK INTERNATIONAL. (SPECIAL PAPERS AND PRESENTATIONS, SP-24) 12P. INDONESIA/MECHANIZATION/LABOR ALLOCATION ID.3.F.1

3.F.2

1523 MORSE, R. (1983) COMPLEMENTARY ASPECTS OF RURAL ENERGY AND FARMING SYSTEMS. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESEARCH PAPER, 5) 14P. FARMING SYSTEMS/ENERGY UTILIZATION/COOKING/INDIA/FSR S539.5/.F37/no.5

3.F.3

1524 BYERLEE, D. (1982) HARRINGTON, L. NEW WHEAT VARIETIES AND THE SMALL FARMER. MEXICO, CIMMYT, ECONOMICS PROGRAM. 7P. SMALL FARMS/HIGH YIELDING VARIETIES/WHEAT/MEXICO/INDIA/ADOPTION OF INNOVATIONS/BIAS MX.CIM.3.F.3

1525 HILDEBRAND, P.E. (1973) LUNA T., F.G. UNFORSEEN CONSEQUENCES OF INTRODUCING NEW TECHNOLOGIES IN TRADITIONAL AGRICULTURE. S.L., S.N., PRESENTED AT SESSION 5, "PUBLIC INVESTMENT IN RESEARCH EDUCATION AND TECHNOLOGY," FIFTEENTH CONFERENCE OF AGRICULTURAL ECONOMICS, SAO PAULO, BRAZIL. 17P. SMALL FARMS/TECHNOLOGY TRANSFERS/COLOMBIA/GUATEMALA CO.3.F.3

1526 NORMAN, D.W. (1979) PRYOR, D.H.; GIBBS, C.J.N. TECHNICAL CHANGE AND THE SMALL FARMER IN HAUSALAND, NORTHERN NIGERA. EAST LANSING, MICHIGAN STATE UNIVERSITY, DEPARTMENT OF AGRICULTURAL ECONOMICS. (AFRICAN RURAL ECONOMY PAPER, 21) 127P. NIGERIA/VILLAGE STUDIES/FARMING SYSTEMS/FSR/FAMILY LABOR/SMALL FARMS/CROPPING SYSTEMS/MIXED CROPPING/INPUT-OUTPUT ANALYSIS/MILLETS/SORGHUM/COWPEA/SELF SUFFICIENCY/CATTLE/PROBLEM IDENTIFICATION/SOCIOECONOMIC CONSTRAINTS/TECHNOLOGY TRANSFERS/LABOR REQUIREMENTS HD2145.5/.Z9/N677

3.F.4

1527 SLACK, D.C. (1983) GOODRICH, P.D.; BERKAS, T.H. APPROPRIATE TECHNOLOGY FOR INTERNATIONAL DEVELOPMENT. ST. JOSEPH, AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS. (PAPER NO. 835001) 15P. APPROPRIATE TECHNOLOGY/EDUCATION A COURSE

EMPHASIZING THE TECHNICAL ASPECTS OF APPROPRIATE TECHNOLOGY WAS DEVELOPED AND TAUGHT AT THE UNIVERSITY OF MINNESOTA. 3.F.4

4

1528 AGRICULTURAL PRODUCTION IN JINOTEGA, NICARAGUA : PHYSIO-BIOLOGICAL AND SOCIO-ECONOMIC CONDITIONS : PRELIMINARY STUDY / VAN TIENHOVEN, M. AND J. LAGEMANN, EDS. (1981) TURRIALBA, CATIE. 81P. NICARAGUA/FSR/CATIE/SURVEYS, SHORT-TERM/INFRASTRUCTURE/FARMING SYSTEMS/CROPPING SYSTEMS/SOCIOECONOMIC CONSTRAINTS/LIMITING FACTORS ++

1529 BROWN, B.B. (1980) WOMENS ROLE IN DEVELOPMENT IN BOTSWANA : A STUDY ON WOMEN'S ROLE IN THE DEVELOPMENT IN THE KGATLENG DISTRICT, SCHOOL ACHIEVEMENTS OF GIRLS, SOME ASPECTS OF WOMEN AND HEALTH. GABORONE, RURAL SOCIOLOGY UNIT, MINISTRY OF AGRICULTURE, PLANNING AND STATISTICS. 48P. BOTSWANA/WOMEN IN AGRICULTURE/WOMAN'S STATUS/MIGRATION/OFF-FARM EMPLOYMENT/AGRICULTURAL HOUSEHOLDS/BIAS/EDUCATION/FAMILY PLANNING BW.4

1530 DEBOER, A.J. (1982) JOB, M.; MATTHEWMAN, R.W. ECONOMIC MODELLING OF SMALL FARMS IN WESTERN KENYA. MORRILTON, WINROCK INTERNATIONAL. (SR-CRSP PAPERS, CR-9) 5P. KENYA/SMALL FARMS/ECONOMETRIC MODELS KE.4

1531 FRUZZETTI, L.M. (1982) FARM AND HEARTH : RURAL WOMEN IN A FARMING COMMUNITY. PROVIDENCE, BROWN UNIVERSITY, DEPARTMENT OF ANTHROPOLOGY. 55P. SUDAN/WOMEN IN AGRICULTURE/WOMAN'S STATUS/FAMILY LABOR/BIAS/DIVISION OF LABOR/AGRICULTURAL DEVELOPMENT SD.4

1532 GUTIERREZ A., N. (1982) DEBOER, A.J.; GOMES, V.V. CAPITAL STRUCTURE AND FARM INCOME FOR A SAMPLE OF SHEEP AND GOAT PRODUCERS IN CEARA STATE, NORTHEAST BRAZIL. MORRILTON, WINROCK INTERNATIONAL. (SR-CRSP PAPERS, CR-14) 13P. BRAZIL/FSR/SURVEYS, SHORT-TERM/FARM INCOME/CATTLE/SHEEP/GOAT/INVESTMENT/INPUT-OUTPUT ANALYSIS BR.4

1533 HART, R.D. (1982) AGROECOSYSTEM DETERMINANTS. MORRILTON, WINROCK INTERNATIONAL. (SPECIAL PAPERS AND PRESENTATIONS, SP-19) 25P. AGROECOSYSTEM/DECISION MAKING/HONDURAS/PLANNING OF RESEARCH/ECOSYSTEMS 2

1534 HILDEBRAND, P.E. (1983) ECONOMIC CHARACTERISTICS OF SMALL-SCALE, LIMITED RESOURCE FAMILY FARMS : IMPLICATIONS FOR TECHNOLOGY. GAINESVILLE, UNIVERSITY OF FLORIDA. (FARMING SYSTEMS SUPPORT PROJECT WORKING PAPER) 3P. SMALL FARMS/CHARACTERIZATION/SOCIOECONOMIC CONSTRAINTS 4

1535 HILDEBRAND, P.E. (1983) ON THE NON-NEUTRALITY OF SCALE OF AGRICULTURAL RESEARCH. GAINESVILLE, UNIVERSITY OF FLORIDA. (FARMING SYSTEMS SUPPORT PROJECT WORKING PAPER) 10P. SMALL FARMS/TECHNOLOGY TRANSFERS/SOCIOECONOMIC CONSTRAINTS 4

1536 INTERNATIONAL CONFERENCE ON ECONOMIC ANALYSIS IN THE DESIGN OF NEW TECHNOLOGY FOR SMALL FARMERS, CENTRO INTERNACIONAL DE AGRICULTURA TROPICAL (1975) ECONOMICS AND THE DESIGN OF SMALL-FARMER TECHNOLOGY. AMES, IOWA STATE UNIVERSITY PRESS. 211P. SMALL FARMS/ECONOMIC ANALYSIS/LINEAR PROGRAMMING/RISK/DECISION MAKING/PUEBLA PROJECT/PHILIPPINES/TECHNOLOGY TRANSFERS/FERTILIZER APPLICATION/PLANNING OF RESEARCH/INTERDISCIPLINARY RESEARCH/COLOMBIA/CIAT/LIVESTOCK ENTERPRISES/BRAZIL/SHARE CROPPING/CAQUEZA PROJECT/ECONOMIC GROWTH/RURAL DEVELOPMENT HD1476/.A3/I57/1975

1537 KIRKBY, R. (1981) GALLEGOS, P. ; CORNICK, T. ON-FARM RESEARCH METHODS : A COMPARATIVE APPROACH : EXPERIENCES OF THE QUIMIAG-PENIPE PROJECT, ECUADOR. ITHACA, CORNELL UNIVERSITY, DEPARTMENT OF PLANT BREEDING AND BIOMETRICS. (CORNELL INTERNATIONAL AGRICULTURE MIMEOGRAPH, 91) 29P. ECUADOR/SMALL FARMS/PROGRAMS AND PROJECTS/INTERDISCIPLINARY RESEARCH/TARGET SELECTION/FARMERS' PARTICIPATION/FARMING SYSTEMS/CROPPING SYSTEMS/ON-FARM TESTING ++

1538 KIRWAY, T.N. (1982) THE BASIS FOR PLANNING AN ADAPTIVE RESEARCH PROGRAMME ON RICE FOR SMALL FARMERS IN KYELA. MBEYA, UYOLE AGRICULTURAL CENTRE. (RESEARCH REPORT, 36) 42P. TANZANIA/FSR/FARMING SYSTEMS/RICE/MAIZE/FARM MANAGEMENT/GROUNDNUT/FARMING CALENDAR/SMALL FARMS/SURVEYS, SHORT-TERM/SEASONAL LABOR/BEANS/LIMITING FACTORS/CASSAVA/SWEET POTATO/PUMPKIN TZ.4

1539 KIRWAY, T.N. (1982) THE BASIS FOR PLANNING AN ADAPTIVE RESEARCH PROGRAMME ON RICE FOR SMALL FARMERS IN USANGU. MBEYA, UYOLE AGRICULTURAL CENTER. (RESEARCH REPORT, 38) 36P. TANZANIA/FSR/FARMING SYSTEMS/SMALL FARMS/CROPPING SYSTEMS/FARMING CALENDAR/SOCIOECONOMIC CONSTRAINTS/LIMITING FACTORS/RICE TZ.4

1540 MATTHEWMAN, R.W. (1982) DEBOER, A.J. ECONOMIC CONSTRAINTS ON DUAL-PURPOSE GOAT PRODUCTION IN WESTERN KENYA. MORRILTON, WINROCK INTERNATIONAL. (SR-CRSP PAPERS, CR-4) 15P. KENYA/FSR/SOCIOECONOMIC CONSTRAINTS/ON-FARM TESTING/CROPPING

SYSTEMS/MIXED FARMING/YIELD GAP/GOAT KE.4

1541 NGEMAN, D.W. (1976) FARMING SYSTEMS AND PROBLEMS OF IMPROVING THEM. S.L., S.N. 35P. FARMING SYSTEMS/LAND TYPES/NIGERIA/FAMILY LABOR/OFF-FARM EMPLOYMENT/SOCIOECONOMIC CONSTRAINTS/CAPITAL/HIRED LABOR/INTERCROPPING/INCOME/TECHNOLOGY TRANSFERS/DUAL-PURPOSE CATTLE/APPROPRIATE TECHNOLOGY NG.4

1542 NTSEANE, P. (1982) A PROFILE OF FARMING HOUSEHOLDS IN KGORO VILLAGE : SOUTHERN DISTRICT. GABORONE, MINISTRY OF AGRICULTURE, RURAL SOCIOLOGY UNIT. 20P. BOTSWANA/AGRICULTURAL HOUSEHOLDS/DRAFT ANIMALS/SUBSISTENCE FARMING/ALBED/LABOR REQUIREMENTS/IMPLEMENTS BW.4

1543 PACHICO, D.H. (1980) SMALL FARMER DECISION MAKING : AN ECONOMIC ANALYSIS OF THREE FARMING SYSTEMS IN THE HILLS OF NEPAL. THESIS (PH.D), CORNELL UNIVERSITY. 336P. NEPAL/SMALL FARMS/APPROPRIATE TECHNOLOGY/CROPPING SYSTEMS/DECISION MAKING/FSR/ON-FARM TESTING/SURVEYS, SHORT-TERM/SOLUTION DESIGN/EVALUATION/TRADITIONAL FARMING/EFFICIENCY/RICE/WHEAT/FAMILY LABOR/HIRED LABOR/TILLAGE SYSTEMS/MAIZE/MILLET, COMMON/INTERCROPPING/BUFFALO/CROP ROTATION S562/.N45/P32/1980A

1544 RYAN, J.G. (1974) ET AL. SOCIO-ECONOMIC ASPECTS OF AGRICULTURAL DEVELOPMENT IN THE SEMI-ARID TROPICS. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 41P. SEMIARID TROPICS/INDIA/MILLETS/SORGHUM/GROUNDNUT/CHICKPEA/PIGEON PEA/MARKET PRICES/FARM SIZE/AFRICA/CENTRAL AMERICA/SOUTH AMERICA/ICRISAT S616/.T76/I57/1974a

1545 SAMUSI, F.A. (1982) RURAL HOUSEHOLD INCOME AND EXPENDITURES IN VILLAGE B, WEST JAVA, INDONESIA. ITHACA, CORNELL UNIVERSITY, DEPARTMENT OF AGRICULTURAL ECONOMICS. (CORNELL INTERNATIONAL AGRICULTURE MIMEOGRAPH, 92) 47P. INDONESIA/JAVA/LAND-USE SYSTEMS/INCOME/HOUSEHOLD CONSUMPTION/NUTRITIONAL STATE/SUBSISTENCE FARMING ++

1546 SPENCER, D.S.C. (1972) MICRO-LEVEL FARM MANAGEMENT AND PRODUCTION ECONOMICS RESEARCH AMONG TRADITIONAL AFRICAN FARMERS : LESSONS FROM SIERRA LEONE. EAST LANSING, MICHIGAN STATE UNIVERSITY, DEPARTMENT OF AGRICULTURAL ECONOMICS. (AFRICAN RURAL EMPLOYMENT PAPER, 3) 29P. SIERRA LEONE/SURVEYS, SHORT-TERM/INPUT-OUTPUT ANALYSIS/DATA COLLECTION S562/S53/S6

1547 TOBISSON, E. (1980) WOMEN, WORK, FOOD AND NUTRITION IN NYAMWIGURA VILLAGE, MARA REGION TANZANIA. DAR ES SALAAM, TANZANIA FOOD AND NUTRITION CENTRE. (TFNC REPORT, 548) 127P. TANZANIA/WOMEN IN AGRICULTURE/DIVISION OF LABOR/WOMEN IN DEVELOPMENT/BIAS/WOMAN'S STATUS/FARMING CALENDAR/FARMING SYSTEMS/FAMILY LABOR/FEMALE LABOR/PROGRAMS AND PROJECTS/MAIZE/EXTENSION/MALARIA/FOOD CONSUMPTION/MILLET, FINGER/SORGHUM/DIET STUDIES/HEALTH/TIME STUDY/CROPPING SYSTEMS ++

4.A

1548 BINSWANGER, H.P. (1982) ET AL. THE IMPACT OF ATTITUDES TOWARD RISK ON AGRICULTURAL DECISIONS IN RURAL INDIA. PATANCHERU, ICRISAT. (ECONOMICS PROGRAM PROGRESS REPORT, 42) 25P. INDIA/RISK/DECISION MAKING/VILLAGE STUDIES/IRRIGATION/FALLOW/FERTILIZER APPLICATION IN.ICR.4.A

1549 FLINN, J.C. (1980) SOME CONSIDERATIONS IN YIELD GAP RESEARCH. LOS BANOS, IRRI. (IRRI AGRICULTURAL ECONOMICS DEPARTMENT PAPER, 80-01) 33P. PHILIPPINES/YIELD GAP/DECISION MAKING PH.IRR.4.A

1550 GOTSCH, C.H. (1976) THE CONCEPT OF "FARMING SYSTEMS" IN THE ANALYSIS OF AGRICULTURAL RESEARCH AND DEVELOPMENT PROGRAMS. IN: MIDDLE EAST AND AFRICA AGRICULTURAL SEMINAR, TUNIS, TUNISIA, FEBRUARY 1-3, 1977. NEW YORK : THE FORD FOUNDATION. 15P. FARMING SYSTEMS/FSR/SOCIOECONOMIC CONSTRAINTS/FARMERS' ATTITUDES/SYSTEMS ANALYSIS/DECISION MAKING/OBJECTIVES AFRICA.3

1551 MAYER, J. (1974) SCIENTIFIC DATA PROCESSING IN THE DETERMINATION OF FARMING SYSTEMS. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 12P. DECISION MAKING/SIMULATION MODELS S616/.T76/I57/1974a

1552 RHOADES, R.E. (1982) UNDERSTANDING SMALL FARMERS : SOCIOCULTURAL PERSPECTIVES ON EXPERIMENTAL FARM TRIALS. LIMA, CIP. (SOCIAL SCIENCE DEPARTMENT TRAINING DOCUMENT, 1982-3) 9P. FARMERS' ATTITUDES/SMALL FARMS/ON-FARM TESTING/ADOPTION OF INNOVATIONS PE.CIP.4.A

1553 SARIN, R. (1982) WALKER, T.S. THE PERCEPTIONS OF FARMERS AND PARTICIPATION IN THE TADDANPALLE WATERSHED PROJECT IN

1982-83. PATANCHERU, ICRISAT. (ECONOMICS PROGRAM PROGRESS REPORT, 44) 20P. INDIA/FARMERS' PARTICIPATION/DECISION MAKING/WATERSHEDS/FARMERS' ATTITUDES/DRAINAGE IN.ICR.4.A

1554 SCHLUTER, M.G.G. (1974) MOUNT, T.D. MANAGEMENT OBJECTIVES OF THE PEASANT FARMER : AN ANALYSIS OF RISK AVERSION IN THE CHOICE OF CROPPING PATTERN, SURAT DISTRICT, INDIA. ITHACA, CORNELL UNIVERSITY, DEPARTMENT OF AGRICULTURAL ECONOMICS. (OCCASIONAL PAPER, 78) 25P. INDIA/DECISION MAKING/RISK/SMALL FARMS IN.4.A

1555 SINGH, R.P. (1982) WALKER, T.S. DETERMINANTS AND IMPLICATIONS OF CROP FAILURE IN THE SEMI-ARID TROPICS OF INDIA. PATANCHERU, ICRISAT. (ECONOMICS PROGRAM PROGRESS REPORT, 40) 28P. INDIA/CROP DAMAGE/VILLAGE STUDIES/INTERCROPPING/RESOURCE BASE/SHARE CROPPING/SMALL FARMS/LARGE FARMS IN.ICR.4.A

1556 SWAMINATHAN, M.S. (1982) WOMEN IN RICE FARMING. S.L., INTERNATIONAL FEDERATION OF AGRICULTURAL RESEARCH SYSTEMS FOR DEVELOPMENT AND INTERNATIONAL SERVICE FOR NATIONAL AGRICULTURAL RESEARCH. 12P. RICE/WOMEN IN AGRICULTURE/LABOR-INTENSIVE TECHNOLOGY/ASIA/TECHNOLOGY TRANSFERS/RURAL WOMEN/CULTURAL METHODS ASIA.4.A

1557 WALKER, T.S. (1982) JODHA, N.S. EFFICIENCY OF RISK MANAGEMENT BY SMALL FARMERS AND IMPLICATIONS FOR CROP INSURANCE. PATANCHERU, ICRISAT. (ECONOMICS PROGRAM PROGRESS REPORT, 45) 40P. RISK/SMALL FARMS/EL SALVADOR/TANZANIA/INDIA/INTERCROPPING/DECISION MAKING IN.ICR.4.A

1558 WALKER, T.S. (1983) SINGH, R.P.; JODHA, N.S. DIMENSIONS OF FARM-LEVEL DIVERSIFICATION IN THE SEMI-ARID TROPICS OF RURAL SOUTH INDIA. PATANCHERU, ICRISAT. (ECONOMICS PROGRAM PROGRESS REPORT, 51) 11P. INDIA/DIVERSIFICATION/RISK/VILLAGE STUDIES/DECISION MAKING/FARM INCOME/BULLOCKS IN.ICR.4.A

1559 ZUCKERMAN, P.S. (1978) SIMULATING THE DECISION MAKING PROCESS OF A NIGERIAN SMALLHOLDER. CANADIAN JOURNAL OF AGRICULTURAL ECONOMICS. 27(2):17-26. 1979. NIGERIA/SIMULATION MODELS/SMALL FARMS/DECISION MAKING NG.4.A

4.B

1560 FORTMANN, L. (1977) WOMEN AND TANZANIAN AGRICULTURAL DEVELOPMENT. DAR ES SALAAM, UNIVERSITY OF DAR ES SALAAM, ECONOMIC RESEARCH BUREAU. (PAPER 77.4) 24P. TANZANIA/WOMEN IN AGRICULTURE/MAIZE/ADOPTION OF INNOVATIONS/DECISION MAKING/DIVISION OF LABOR/BIAS/EXTENSION/FEMALE LABOR TZ.4.B

1561 SCHMID, R. (1981) FORTUNA, N.; KIKUCHI, M. RICE IN COCONUT ENVIRONMENT : AN INTERIM REPORT FROM A COCONUT VILLAGE IN LAGUNA. LOS BANOS, IRRI. 52P. PHILIPPINES/COCONUT/RICE/SURVEYS, SHORT-TERM/TENURE SYSTEMS/FAMILY LABOR/HIRED LABOR/CROPPING SYSTEMS/EMPLOYMENT/INCOME DISTRIBUTION PH.IRR.4.B

4.B.1

1562 ICAZA G., J. (1982) LAGEMANN, J. TESTING OF TECHNOLOGY WITH SMALL FARMERS IN JINOTEGA, NICARAGUA. TURRIALBA, CATIE, CROP PRODUCTION DEPARTMENT. 18P. NICARAGUA/SMALL FARMS/ON-FARM TESTING/MAIZE/BEANS/COST-BENEFIT ANALYSIS/ADOPTION OF INNOVATIONS NI.4.B.1

4.B.2

1563 BINSWANGER, H.P. (1982) ET AL. COMMON FEATURES AND CONTRASTS IN LABOR RELATIONS IN THE SEMI-ARID TROPICS OF INDIA. PATANCHERU, ICRISAT. (ECONOMICS PROGRAM PROGRESS REPORT, 13) 30P. INDIA/LABOR MARKET/HIRED LABOR/FEMALE LABOR/DIVISION OF LABOR IN.ICR.4.B.2

1564 HAYAMI, Y. (1976) FLORES, P.; MALIGALIG, L. LABOR UTILIZATION IN A RICE VILLAGE IN SOUTHERN LUZON. LOS BANOS, IRRI, AGRICULTURAL ECONOMICS DEPARTMENT. (ANATOMY OF A PEASANT ECONOMY REPORT, 3) (IRRI AGRICULTURAL ECONOMICS PAPER, 76-24) 31P. PHILIPPINES/FAMILY LABOR/HIRED LABOR/WAGE RATES/LABOR ALLOCATION/RICE PH.IRR.4.B.2

1565 JAYASURIYA, S.K. (1981) ET AL. IMPACT OF TECHNOLOGY ADOPTION IN LABOR UTILIZATION PATTERNS : A CASE STUDY OF ILOILO. LOS BANOS, IRRI. (IRRI AGRICULTURAL ECONOMICS DEPARTMENT PAPER, 81-14) 11P. PHILIPPINES/LABOR REQUIREMENTS/ADOPTION OF INNOVATIONS/WAGE RATES/DOUBLE CROPPING/RICE PH.IRR.4.B.2

1566 RYAN, J.G. (1982) WAGE FUNCTIONS FOR DAILY LABOR MARKET PARTICIPANTS IN RURAL SOUTH INDIA. PATANCHERU, ICRISAT.

(ECONOMICS PROGRAM PROGRESS REPORT, 38) 39P. INDIA/HIRED LABOR/VILLAGE STUDIES/WAGE RATES/NUTRITIONAL STATE/FEMALE LABOR/EDUCATION/AGE IN.ICR.4.B.2

1567 SMITH, J. (1981) CORDOVA, V.; HERDT, R.W. TRENDS IN LABOR ABSORPTION AND EARNINGS : THE CASES OF RICE PRODUCTION IN THE PHILIPPINES. LOS BANOS, IRRI. (IRRI AGRICULTURAL ECONOMICS PAPER, 81-13) 15P. PHILIPPINES/LABOR REQUIREMENTS/WAGE RATES PH.IRR.4.B.2

4.C.1

1568 HERDT, R.W. (1980) MEASURING INCOME DISTRIBUTION EFFECTS IN CHANGING VILLAGE ECONOMIES. LOS BANOS, IRRI. (IRRI AGRICULTURAL ECONOMICS DEPARTMENT PAPER, 80-13) 24P. FACTORS OF PRODUCTION/INCOME DISTRIBUTION/PHILIPPINES/LAND OWNERSHIP PH.IRR.4.C.1

1569 SCHMID, E. (1981) FORTUNA, N.; KIKUCHI, M. RICE IN COCONUT ENVIRONMENT : AN INTERIM REPORT FROM A COCONUT VILLAGE IN LAGUNA. LOS BANOS, IRRI. 52P. PHILIPPINES/COCONUT/RICE/SURVEYS, SHORT-TERM/TENURE SYSTEMS/FAMILY LABOR/HIRED LABOR/CROPPING SYSTEMS/EMPLOYMENT/INCOME DISTRIBUTION PH.IRR.4.B

4.C.2

1570 WERGE, R. (1981) THE AGRICULTURAL STRATEGY OF RURAL HOUSEHOLDS IN THREE ECOLOGICAL ZONES OF THE CENTRAL ANDES. LIMA, CIP, SOCIAL SCIENCE DEPARTMENT. (WORKING PAPER 1979-4) 27P. PERU/HOUSEHOLDS/HIGHLAND SITES/VARIETIES/POST-HARVEST MANAGEMENT/FOOD CONSUMPTION/SURVEYS, SHORT-TERM BASED ON DATA FROM A SURVEY OF 124 HOUSEHOLDS, THIS PAPER COMPARES SOCIOECONOMIC ORGANIZATION, CROP PRODUCTION AND POTATO UTILIZATION IN THREE CONTIGUOUS ECOLOGICAL ZONES. AGRICULTURAL PRACTICES IN MOUNTAINOUS REGIONS OF THE TROPICS ARE STRONGLY INFLUENCED BY CHANGES IN ALTITUDE WHICH DEFINE LIMITS OF DISTINCT ECOLOGICAL ZONES. PE.CIP.4.C.2

1571 WERGE, R.W. (1978) POTATO PROCESSING IN THE CENTRAL HIGHLANDS OF PERU. ECOLOGY OF FOOD AND NUTRITION. 7:229-234. 1979. PERU/POST-HARVEST MANAGEMENT/SURVEYS, SHORT-TERM/POTATO/FOOD PRODUCTS PE.4.C.2

5

1572 BEETS, W.C. (1979) RELEVANT CROPPING SYSTEMS RESEARCH FOR THE ASIAN FARMER. MALAYSIAN AGRICULTURAL JOURNAL. 52(1):58-64. 1979. SOCIOECONOMIC CONSTRAINTS/INTERDISCIPLINARY RESEARCH/ON-FARM TESTING/CROPPING SYSTEMS/SOLUTION DESIGN 5

1573 CASEY, F. (1982) BARKER, R. A COURSE IN FARMING SYSTEMS RESEARCH : THE CORNELL EXPERIENCE. ITHACA, CORNELL UNIVERSITY, DEPARTMENT OF AGRICULTURAL ECONOMICS. (CORNELL INTERNATIONAL AGRICULTURE MIMEOGRAPH, 93) 91P. FSR/PROBLEM IDENTIFICATION/SURVEYS, SHORT-TERM/OBJECTIVES/INTERDISCIPLINARY RESEARCH/HIGHER EDUCATION/PRACTICAL EDUCATION/METHODOLOGY/EVALUATION ++

1574 COLFER, C.J.P. (1983) INTEGRATING PARTICIPANTS : FARMING SYSTEMS LESSONS FROM HAWAII. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESEARCH PAPER, 5) 8P. FSR/SURVEYS, SHORT-TERM/INTERDISCIPLINARY RESEARCH/USA/IN-SERVICE TRAINING S539.5/.F37/no.5

1575 COLLINSON, M.P. (1972) FARM MANAGEMENT IN PEASANT AGRICULTURE : A HANDBOOK FOR RURAL DEVELOPMENT PLANNING IN AFRICA. NEW YORK, PRAEGER PUBLISHERS. 444P. AFRICA/CROPPING SYSTEMS/TRADITIONAL FARMING/NATIONAL PROGRAMS AND PROJECTS/FARM MANAGEMENT/DECISION MAKING/FARM MODELS/SOCIOECONOMIC CONSTRAINTS/LIMITING FACTORS/LABOR REQUIREMENTS/CAPITAL/LIVESTOCK/FARMING SYSTEMS/DATA COLLECTION/FARM LEVEL STUDIES/EXTENSION/ADOPTION OF INNOVATIONS S562/A34/C64

1576 COLLINSON, M.P. (1979) MICRO-LEVEL ACCOMPLISHMENT AND CHALLENGES FOR THE LESS DEVELOPED WORLD. NAIROBI, CIMMYT. 14P. FSR/SMALL FARMS/NATIONAL PROGRAMS AND PROJECTS/DEVELOPMENT POLICY/DECISION MAKING/TARGET SELECTION/SURVEYS, SHORT-TERM 5

1577 DILLON, J.L. (1980) HARDAKER, J.B. FARM MANAGEMENT RESEARCH FOR SMALL FARMER DEVELOPMENT. ROME, FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. (FAO AGRICULTURAL SERVICES BULLETIN, 41) 145P. SMALL FARMS/APPLIED

RESEARCH/MODELS/FARMING SYSTEMS/TARGET SELECTION/SURVEYS/FARM MANAGEMENT/DATA COLLECTION/INTERDISCIPLINARY RESEARCH/DATA ANALYSIS/ FARM PLANNING/INPUT-OUTPUT ANALYSIS/LIMITING FACTORS/PRODUCTION FUNCTIONS/DECISION MAKING/RISK S561/.D558/C.2

1578 FARMING SYSTEMS RESERACH SYMPOSIUM (2ND, 1982 : MANHATTAN) CONFERENCE PAPERS FOR FARMING SYSTEMS IN THE FIELD. SEE: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982) SMALL FARMS IN A CHANGING WORLD : PROSPECTS FOR THE EIGHTIES. S539.5/.F37/no.5

1579 FARMING SYSTEMS SEMINAR - WORKSHOP (1981 : LOS BANOS) PROCEEDINGS : FARMING SYSTEMS SEMINAR - WORKSHOP, MARCH 16-19, 1981. LOS BANOS, INTEGRATED AGRICULTURAL PRODUCTION AND MARKETING PROJECT. 68P. 5 AND S471/.P6/P76/1981

1580 LIGHTFOOT, C. (1982) ET AL. A COLLECTION OF PAPERS RELEVANT TO FARMING SYSTEMS RESEARCH. GABORONE, USAID/BOTSWANA, AGRICULTURAL TECHNOLOGY IMPROVEMENT PROJECT. 95P. BOTSWANA/SMALL FARMS/FSR/PROGRAMS AND PROJECTS/FARMING SYSTEMS/FARM INCOME/EXTENDED FAMILIES/HOUSEHOLDS/DUAL-PURPOSE CATTLE/OFF-FARM EMPLOYMENT/HIRED LABOR/FAMILY LABOR/SUBSISTENCE FARMING/DATA COLLECTION/ON-FARM TESTING/WOMEN IN AGRICULTURE/SELF SUFFICIENCY/ADOPTION OF INNOVATIONS/YIELD/SORGHUM/SOIL STRUCTURE/FARM MANAGEMENT/GRASSLAND MANAGEMENT/ZAMBIA/ZIMBABWE/MAIZE/MILLET, FINGER BW.1

1581 NORMAN, D.W. (1976) FARMING SYSTEMS RESEARCH IN THE CONTEXT OF MALI. IN: MIDDLE EAST AND AFRICA AGRICULTURAL SEMINAR, TUNIS, TUNISIA, FEBRUARY 1-3, 1977. NEW YORK : THE FORD FOUNDATION. 11P. MALI/FSR/BASELINE DATA/SOLUTION DESIGN/ON-FARM TESTING/EVALUATION/EXTENSION/SOCIOECONOMIC CONSTRAINTS/INTERDISCIPLINARY RESEARCH/METHODOLOGY/TARGET SELECTION/TECHNOLOGY TRANSFERS AFRICA.3

1582 NORMAN, D.W. (1981) FARMING SYSTEMS RESEARCH REVIEWED. IN: PROCEEDINGS : FARMING SYSTEMS SEMINAR - WORKSHOP, MARCH 16-18, 1981, PCARR, LOS BANOS, LAGUNA. 1981. P.25-34. FARMING SYSTEMS/FSR/OBJECTIVES/FARMERS' PARTICIPATION/METHODOLOGY/SOCIOECONOMIC CONSTRAINTS/COST-BENEFIT ANALYSIS/TARGET SELECTION/BASELINE DATA/ON-FARM TESTING/INTERDISCIPLINARY RESEARCH/SOLUTION DESIGN/FARMER TESTING/EXTENSION/SURVEYS, SHORT-TERM/NATIONAL PROGRAMS AND PROJECTS 5 AND S471/.P6/P76/1981

1583 NORMAN, D.W. (1982) SIMMONS, E.B.; HAYS, H.M. FARMING SYSTEMS IN THE NIGERIAN SAVANNA : RESEARCH AND STRATEGIES FOR DEVELOPMENT. BOULDER, WESTVIEW PRESS. 275P. NIGERIA/FSR/FARMING SYSTEMS/TARGET SELECTION/SOLUTION DESIGN/INTERDISCIPLINARY RESEARCH/SAVANNA/SOIL TYPES/MIXED CROPPING/YIELD GAP/HOUSEHOLDS/CULTURAL ENVIRONMENT/PROGRAMS AND PROJECTS/INPUT INDUSTRIES/PRODUCT MARKETS/MARKETING MARGINS/VILLAGES/FAMILY LABOR/HIRED LABOR/WOMEN IN AGRICULTURE/FOOD CONSUMPTION/SORGHUM/MILLETS/COWPEA/SWEET POTATO/GROUNDNUT/INPUT-OUTPUT ANALYSIS/POST-HARVEST MANAGEMENT/LIVESTOCK ENTERPRISES/CATTLE/FEMALE LABOR/OFF-FARM EMPLOYMENT/DECISION MAKING/TRADITIONS/SOCIAL CHANGE/SUBSISTENCE FARMING/INCOME DISTRIBUTION/APPROPRIATE TECHNOLOGY/MAIZE/ON-FARM TESTING S473/.N5/N67/1982

1584 NORMAN, D.W. (1983) HELPING RESOURCE POOR FARMERS : THE AGRICULTURAL TECHNOLOGY IMPROVEMENT PROJECT, BOTSWANA. MANHATTAN, KANSAS STATE UNIVERSITY, AND MIAC. 18P. BOTSWANA/FSR/PRECIPITATION/EXPERIMENTAL STATIONS/HETEROGENEITY/FARM MANAGEMENT/PROGRAMS AND PROJECTS/ON-FARM TESTING/LIMITING FACTORS/SURVEYS, SHORT-TERM/EXTENSION/TRAINING/SUBSISTENCE FARMING/AGRICULTURAL RESEARCH BW.5

1585 NORMAN, D.W. (1983) INSTITUTIONALIZING THE FARMING SYSTEMS APPROACH TO RESEARCH. S.L., S.N. 12P. FSR/FARMING SYSTEMS/PROBLEM IDENTIFICATION/SOLUTION DESIGN/ON-FARM TESTING/EXTENSION/METHODOLOGY/NATIONAL PROGRAMS AND PROJECTS/LIMITING FACTORS/INSTITUTION BUILDING 5

1586 OKIGBO, B.N. (1981) INTRODUCING NUTRITIONAL CONSIDERATIONS INTO RESEARCH AND TRAINING IN FARMING SYSTEMS. ROME, UNITED NATIONS, ADMINISTRATIVE COMMITTEE ON COORDINATION, SUBCOMMITTEE ON NUTRITION. 49P. AFRICA/EXPERIMENTAL STATIONS/FARMING SYSTEMS/OBJECTIVES/CROPPING SYSTEMS/WOMEN IN AGRICULTURE/NUTRITIONAL STATE/NIGERIA/FSR/INTERCROPS/SOLUTION DESIGN/LIMITING FACTORS/AGROFORESTRY/MIXED FARMING/HORTICULTURE/TRAINING AFRICA.5

1587 PENDLETON, J.W. (1981) EXPERIENCES OF THE INTER-ASIA CROPPING SYSTEMS NETWORK. IN: PROCEEDINGS : FARMING SYSTEMS SEMINAR - WORKSHOP, MARCH 16-18, 1981, PCARR, LOS BANOS, LAGUNA. 1981. P.35-38. CROPPING SYSTEMS/ON-FARM TESTING/INTERDISCIPLINARY RESEARCH/FSR/PROGRAMS AND PROJECTS/TECHNOLOGY TRANSFERS/EXTENSION/OBJECTIVES 5 AND S471/.P6/P76/1981

1588 READINGS IN FARMING SYSTEMS RESEARCH AND DEVELOPMENT / SHANER, W.W., P.F. PHILIP AND W.R. SCHMELL, EDS. (1981) WASHINGTON

D.C., CONSORTIUM FOR INTERNATIONAL DEVELOPMENT. 187P. FSR/SMALL FARMS/SURVEYS, SHORT-TERM/OBJECTIVES/INTERDISCIPLINARY RESEARCH/METHODOLOGY/APPROPRIATE TECHNOLOGY/CIMMYT/TARGET SELECTION/PLANNING OF RESEARCH/ON-FARM TESTING/ADOPTION OF INNOVATIONS/AGROECOSYSTEM/HONDURAS/INPUT-OUTPUT ANALYSIS/MAIZE/CROPPING SYSTEMS/PROBLEM IDENTIFICATION/DATA COLLECTION/IRRI/ICTA/NATIONAL PROGRAMS AND PROJECTS/INDONESIA/FARMING SYSTEMS/ICRISAT/LIMITING FACTORS/SOCIOECONOMIC CONSTRAINTS ++

1589 READINGS IN FARMING SYSTEMS RESEARCH AND DEVELOPMENT / SHANER, W.W., P.F. PHILIP AND W.R. SCHMEHL, EDS. (1982) BOULDER, WESTVIEW PRESS. SEE THEIR : READINGS IN FARMING SYSTEMS RESEARCH AND DEVELOPMENT... S540/.A2/R39/1982

1590 PHOADES, R.E. (1982) BOOTH, R.H. FARMER-BACK-TO-FARMER : A MODEL FOR GENERATING ACCEPTABLE AGRICULTURAL TECHNOLOGY. LIMA, CIP, SOCIAL SCIENCE DEPARTMENT. (WORKING PAPER SERIES, 1982-1) 15P. INTERDISCIPLINARY RESEARCH/PROBLEM IDENTIFICATION/ON-FARM TESTING/POST-HARVEST MANAGEMENT/EVALUATION/TECHNOLOGY TRANSFERS/SOLUTION DESIGN/FARMERS' PARTICIPATION PE.CIP.5

1591 SCHULMAN, M.D. (1983) TRANSLATION OF STATION EXPERIMENTATAL WORK TO FARMER'S FIELD. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESEARCH PAPER, 5) 2P. EXPERIMENTAL STATIONS/FARMERS' PARTICIPATION S539.5/.F37/no.5

1592 SHANER, W.W. (1982) PHILIPP, P.F.; SCHMEHL, W.R. FARMING SYSTEMS RESEARCH AND DEVELOPMENT : GUIDELINES FOR DEVELOPING COUNTRIES. BOULDER, WESTVIEW PRESS, 414P. FSR/TARGET SELECTION/PROBLEM IDENTIFICATION/ON-FARM TESTING/EXTENSION/SMALL FARMS/FARMING SYSTEMS/PLANNING OF RESEARCH/DATA COLLECTION/LIVESTOCK ENTERPRISES/MIXED FARMING/OBJECTIVES/METHODOLOGY/TECHNOLOGY ANALYSIS/DEVELOPING COUNTRIES/FARMER TESTING/INTERDISCIPLINARY RESEARCH/TRAINING/NATIONAL PROGRAMS AND PROJECTS DEV COUN S603.5/.S536

1593 SHANER, W.W. (1983) STRATIFICATION : AN APPROACH TO COST-EFFECTIVENESS FOR FARMING SYSTEMS RESEARCH AND DEVELOPMENT. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESEARCH PAPER, 5) 19P. FSR/TARGET SELECTION/FARMING SYSTEMS/NATIONAL PROGRAMS AND PROJECTS/EFFICIENCY/ORGANIZATION OF RESEARCH/STRATIFICATION S539.5/.F37/no.5

1594 SJO, J. (1982) NOTES FOR FARMING SYSTEMS RESEARCH SEMINAR. MANHATTAN, KANSAS STATE UNIVERSITY, INTERNATIONAL AGRICULTURE PROGRAMS. 7P. FSR/FARM MANAGEMENT/TARGET SELECTION/BOTSWANA/VILLAGES BW.5

1595 TOLLENS, E. (1977) OBSERVATIONS AND COMMENTS ON THE FARMING SYSTEMS RESEARCH SEMINAR, THE FORD FOUNDATION, TUNIS, FEBRUARY 1-3, 1977. S.L., S.N. 7P. FSR/DECISION MAKING/NATIONAL PROGRAMS AND PROJECTS/EXTENSION/ZAIRE/TARGET SELECTION/AFRICA AFRICA.5

1596 WHYTE, W.F. (1981) PARTICIPATORY APPROACHES TO AGRICULTURAL RESEARCH AND DEVELOPMENT : A STATE-OF-THE-ART PAPER. ITHACA, CORNELL UNIVERSITY, CENTER FOR INTERNATIONAL STUDIES, RURAL DEVELOPMENT COMMITTEE. (SPECIAL SERIES ON AGRICULTURE RESEARCH AND EXTENSION, 1) 111P. FSR/AGRICULTURAL RESEARCH/COMILLA PROJECT/CAQUEZA PROJECT/PUEBLA PROJECT/CADU PROJECT/ICTA/PNIA/EXTENSION/PROJECT APPRAISAL/NATIONAL PROGRAMS AND PROJECTS/LATIN AMERICA/AFRICA/ASIA S540/.A2/W46

5.A

1597 BERNSTEN, R. (1979) DESIGN AND MANAGEMENT OF SURVEY RESEARCH : A GUIDE FOR AGRICULTURAL RESEARCHERS. BOGOR, CRIA, IRRI COOPERATIVE PROGRAM. 80P. SURVEYS/SAMPLING TECHNIQUE/DATA COLLECTION/CENSUSES/TRAINING/PLANNING OF RESEARCH/DATA ANALYSIS/COMPUTER ANALYSIS 5.A

1598 BERNSTEN, R.H. (1982) ANALYTICAL APPROACHES TO FARMING SYSTEMS RESEARCH WITH AN EMPHASIS ON ANIMAL PRODUCTION. MORRILTON, WINROCK INTERNATIONAL. (SPECIAL PAPERS AND PRESENTATIONS, SP-27) 28P. FSR/PLANNING OF RESEARCH/SURVEYS, SHORT-TERM/PROBLEM IDENTIFICATION/SOLUTION DESIGN/LIVESTOCK ENTERPRISES 5.A

1599 BERNSTEN, R.H. (1982) BANTA, G. THE USE OF PROGRAMMABLE CALCULATORS IN FARMING SYSTEMS RESEARCH IN ASIA : SELECTED EXPERIENCES, PROBLEMS AND POTENTIAL. MORRILTON, WINROCK INTERNATIONAL. (SPECIAL PAPERS AND PRESENTATIONS, SP-26) 12P. FSR/ASIA/PROGRAMMABLE CALCULATORS/SURVEYS, SHORT-TERM ASIA.5.A

1600 COLLINSON, M.P. (1980) A LOW COST APPROACH TO UNDERSTANDING SMALL FARMERS. AGRICULTURAL ADMINISTRATION. 8(6):433-450.

1981. FSR/SMALL FARMS/CIMMYT/TARGET SELECTION/ZAMBIA/SURVEYS, SHORT-TERM/INTERDISCIPLINARY RESEARCH HD1401/.A36

1601 FIELD DATA COLLECTION IN THE SOCIAL SCIENCES : EXPERIENCES IN AFRICA AND THE MIDDLE EAST/KEARL, BRYANT, ED. (1976) NEW YORK, AGRICULTURAL DEVELOPMENT COUNCIL. 200P. DATA COLLECTION/BASELINE DATA/SAMPLING/INTERDISCIPLINARY RESEARCH/SURVEYING INSTRUMENTS/AFRICA/MIDDLE EAST/RESEARCH WORKERS/TRAINING/TECHNIQUE/COOPERATION/DATA ANALYSIS H61/F47

1602 HILDEBRAND, P.E. (1980) COMBINING DISCIPLINES IN RAPID APPRAISAL : THE SONDEO APPROACH. AGRICULTURAL ADMINISTRATION. 8(6):423-432. 1981. INTERDISCIPLINARY RESEARCH/ICTA/GUATEMALA/FSR/SURVEYS, SHORT-TERM/TARGET SELECTION/FARMING SYSTEMS/PROBLEM IDENTIFICATION HD1401/.A36

1603 KIENE, W. (1976) ORGANIZING FARM-LEVEL STUDIES ACROSS NATIONAL BOUNDARIES IN NORTH AFRICA. IN: MIDDLE EAST AND AFRICA AGRICULTURAL SEMINAR, TUNIS, TUNISIA, FEBRUARY 1-3, 1977. NEW YORK : THE FORD FOUNDATION. 14P. TUNISIA/SOCIOECONOMIC CONSTRAINTS/FARM LEVEL STUDIES/NATIONAL PROGRAMS AND PROJECTS/ALGERIA/MOROCCO AFRICA.3

1604 KSHIRSAGAR, K.G. (1982) A BRIEF INTRODUCTION TO ICRISAT'S VILLAGE LEVEL STUDIES IN INDIA. PATANCHERU, ICRISAT, ECONOMICS PROGRAM. 10P. INDIA/VILLAGE STUDIES/ON-FARM TESTING/SURVEYS, SHORT-TERM/SURVEYS, LONG-TERM IN.ICR.5.A

1605 REEVES, E.B. (1982) FRANKENBERGER, T. UNDERSTANDING THE PROCESS OF DESERTIFICATION THROUGH FARMING SYSTEMS RESEARCH : A CASE STUDY FROM THE SUDAN. TILLAGE SYSTEMS AND SOCIAL SCIENCE. 2(1):1-3. OCT 1982. SUDAN/DESERTIFICATION SD.5.A

1606 RHOADES, R.E. (1982) THE ART OF THE INFORMAL AGRICULTURAL SURVEY. LIMA, CIP. (SOCIAL SCIENCE DEPARTMENT TRAINING DOCUMENT, 1982-2) 40P. SURVEYS, SHORT-TERM/PERU/METHODOLOGY PE.CIP.5.A

5.B

1607 BYERLEE, D. (1982) HARRINGTON, L.; WINKELMANN, D.L. FARMING SYSTEMS RESEARCH : ISSUES IN RESEARCH STRATEGY AND TECHNOLOGY DESIGN. S.L., AMERICAN AGRICULTURAL ECONOMICS ASSOCIATION. 24P. FSR/SMALL FARMS/PLANNING OF RESEARCH/SURVEYS, SHORT-TERM/DATA COLLECTION/TECHNOLOGY ANALYSIS/METHODOLOGY 5.B

1608 HART, R.D. (1983) USING THE CONCEPT OF AGROECOSYSTEM DETERMINANTS TO LINK TECHNOLOGY TRANSFER AND TECHNOLOGY GENERATION TO FORM A FARMING SYSTEMS RESEARCH AND EXTENSION PROCESS. MORRILTON, WINROCK INTERNATIONAL. 14P. FSR/TECHNOLOGY TRANSFERS/EXTENSION/AGROECOSYSTEM/DECISION MAKING/SOCIOECONOMIC CONSTRAINTS/TARGET SELECTION 5.B

1609 MCDERMOTT, J.K. (1983) FSR PROJECT EVALUATION. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESEARCH PAPER, 5) 7P. FSR/EVALUATION/ADOPTION OF INNOVATIONS S539.5/.F37/no.5

1610 ON-FARM EXPERIMENTATION IN FARMING SYSTEMS RESEARCH : A REPORT PREPARED ON THE BASIS OF DISCUSSIONS HELD AT A WORKSHOP AT IITA, IBADAN, NIGERIA, 31 MAY - 4 JUNE, 1982 / NGAMBEKI, D.S. AND G.F. WILSON, EDS. (1983) IBADAN, IITA, FARMING SYSTEMS PROGRAM. 101P. FSR/ON-FARM TESTING/LIMITING FACTORS/SOCIOECONOMIC CONSTRAINTS/IRRI/IITA/OBJECTIVES/SOLUTION DESIGN/PROBLEM IDENTIFICATION/TECHNOLOGY ANALYSIS/EVALUATION/FARMERS' PARTICIPATION/FARMER TESTING/INTERDISCIPLINARY RESEARCH/BASELINE DATA/DATA COLLECTION/PERSONNEL/PLANNING OF RESEARCH/EXPERIMENTAL PLOTS/REPORT/ADOPTION OF INNOVATIONS/FARMER TESTING/INSTITUTION BUILDING/TROPICS NG.IIT.5.B AND S540/.A2/053/1983

1611 WAUGH, R.K. (1980) EL CASO DEL ICTA EN GUATEMALA COMO INSTITUCION DEDICADA A LA GENERACION Y VALIDICION DE TECNOLOGIA PARA PEQUENOS AGRICULTORES. GUATEMALA, ICTA. 47P. GUATEMALA/ICTA/SMALL FARMS/APPROPRIATE TECHNOLOGY/PROGRAMS AND PROJECTS/EVALUATION/ADOPTION OF INNOVATIONS GT.ICT.5.B

1612 WINKELMANN, D. (1979) MOSCARDI, E. AIMING AGRICULTURAL RESEARCH AT THE NEEDS OF FARMERS. MEXICO, CIMMYT, ECONOMICS PROGRAM. 10P. TECHNOLOGY TRANSFERS/TARGET SELECTION/SURVEYS, SHORT-TERM/ECUADOR/PROBLEM IDENTIFICATION/ON-FARM TESTING/FSR 5.B

5.C

1613 FLINN, J.C. (1980) SOME CONSIDERATIONS IN YIELD GAP RESEARCH. LOS BANOS, IRRI. (IRRI AGRICULTURAL ECONOMICS DEPARTMENT PAPER, 80-01) 33P. PHILIPPINES/YIELD GAP/DECISION MAKING PH.IRR.4.A

1614 GHODAKE, P.D. (1982) WALKER, T.S. YIELD GAP ANALYSIS IN DRYLAND AGRICULTURE : PERSPECTIVES AND IMPLICATIONS FOR THE EIGHTIES. PATANCHERU, ICRISAT. 16P. YIELD GAP/METHODOLOGY/DRY FARMING/INDIA IN.ICR.5.C

1615 HILDEBRAND, P.E. (1983) MODIFIED STABILITY ANALYSIS OF FARMER MANAGED, ON-FARM TRIALS. GAINESVILLE, UNIVERSITY OF FLORIDA, INSTITUTE OF FOOD AND AGRICULTURAL SCIENCES. (JOURNAL SERIES, 4577) 23P. FSR/FARMER TESTING/MAIZE/SMALL FARMS/MALAWI/TARGET SELECTION/VARIANCE COMPONENTS/STATISTICAL ANALYSIS MW.1.A.1

1616 ICRISAT (1982) ECONOMICS. PATANCHERU, ICRISAT. (OFFPRINT FROM THE ICRISAT 1981 ANNUAL REPORT) 23P. INDIA/TECHNOLOGY ANALYSIS/VILLAGE SYSTEMS/ECONOMIC EVALUATION/THRESHING/YIELD GAP IN.ICR.5.C

1617 MARTINEZ, J.C. (1983) ARAUZ, J.P. INSTITUTIONAL INNOVATIONS IN NATIONAL AGRICULTURAL RESEARCH : ON-FARM RESEARCH WITH IDIAP, PANAMA. MEXICO, CIMMYT, ECONOMICS PROGRAM. (CIMMYT ECONOMICS PROGRAM WORKING PAPER, 02/83) 39P. PANAMA/SURVEYS, SHORT-TERM/TARGET SELECTION/ON-FARM TESTING/PROBLEM IDENTIFICATION/WEED CONTROL/ADOPTION OF INNOVATIONS/PROGRAMS AND PROJECTS PA.5.C

1618 ON-FARM EXPERIMENTATION IN FARMING SYSTEMS RESEARCH : A REPORT PREPARED ON THE BASIS OF DISCUSSIONS HELD AT A WORKSHOP AT IITA, IBADAN, NIGERIA, 31 MAY - 4 JUNE, 1982 / NGAMBEKI, D.S. AND G.F. WILSON, EDS. (1983) IBADAN, IITA, FARMING SYSTEMS PROGRAM. 101P. FSR/ON-FARM TESTING/LIMITING FACTORS/SOCIOECONOMIC CONSTRAINTS/IRRI/IITA/OBJECTIVES/SOLUTION DESIGN/PROBLEM IDENTIFICATION/TECHNOLOGY ANALYSIS/EVALUATION/FARMERS' PARTICIPATION/FARMER TESTING/INTERDISCIPLINARY RESEARCH/BASELINE DATA/DATA COLLECTION/PERSONNEL/PLANNING OF RESEARCH/EXPERIMENTAL PLOTS/REPORT/ADOPTION OF INNOVATIONS/FARMER TESTING/INSTITUTION BUILDING/TROPICS NG.IIT.5.B AND S540/.A2/053/1983

1619 PRICE, E.C. (1982) DISEASES OF CROPPING SYSTEMS RESEARCH. LOS BANOS, IRRI. (AGRICULTURAL ECONOMICS DEPARTMENT PAPER, 82-33) 13P. DIAGNOSIS/CROPPING SYSTEMS/FARMERS' PARTICIPATION/BIAS/FSR/PHILIPPINES/EXTENSION/PLANNING OF RESEARCH/ADVERSE EFFECTS/EVALUATION OF RESEARCH PH.IRR.5.C

1620 TRIPP, R. (1982) DATA COLLECTION, SITE SELECTION AND FARMER PARTICIPATION IN ON-FARM EXPERIMENTATION. MEXICO, CIMMYT, ECONOMICS PROGRAM. (WORKING PAPER, 82/1) 29P. ON-FARM TESTING/TARGET SELECTION/FARMERS' PARTICIPATION/DATA COLLECTION/ADOPTION OF INNOVATIONS 5.C

1621 ZANDSTRA, H.G. (1981) ET AL. A METHODOLOGY FOR ON-FARM CROPPING SYSTEMS RESEARCH. LOS BANOS, IRRI. 88P. CROPPING SYSTEMS/FSR/TARGET SELECTION/RESOURCE BASE/BASELINE DATA/SOLUTION DESIGN/ON-FARM TESTING/DATA COLLECTION 5.C

5.D

1622 BIGGS, S.D. (1983) A FARMING SYSTEMS APPROACH : SOME UNANSWERED QUESTIONS. NORWICH, UNIVERSITY OF EAST ANGLIA, SCHOOL OF DEVELOPMENT STUDIES. 15P. FSR/EXTENSION/ON-FARM TESTING/EXPERIMENTAL STATIONS/INTERDISCIPLINARY RESEARCH/EVALUATION 5.D

1623 COLLINSON, M.P. (1982) FARMING SYSTEMS RESEARCH IN EASTERN AFRICA : THE EXPERIENCE OF CIMMYT AND SOME NATIONAL AGRICULTURAL RESEARCH SERVICES, 1976-81. EAST LANSING, MICHIGAN STATE UNIVERSITY, DEPARTMENT OF AGRICULTURAL ECONOMICS. (MSU INTERNATIONAL DEVELOPMENT PAPERS, 3) 61P. CIMMYT/SMALL FARMS/FSR/ADOPTION OF INNOVATIONS/ON-FARM TESTING/PROBLEM IDENTIFICATION/SURVEYS, SHORT-TERM/TARGET SELECTION/SOCIOECONOMIC CONSTRAINTS/KENYA/NATIONAL PROGRAMS AND PROJECTS/ZAMBIA/TANZANIA/ZIMBABWE/SOLUTION DESIGN 5.D AND S542/.A37/C64/1982

1624 COMPTON, J.L. (1983) LINKING SCIENTIST AND FARMER : RE-THINKING EXTENSION'S ROLE. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESEARCH PAPER, 5) 15P. SMALL FARMS/EXTENSION/FSR/ADVISORY OFFICERS S539.5/.F37/no.5

1625 CONKLIN, F.S. (1983) FSR/E AS A FIELD METHODOLOGY IN THIRD WORLD COUNTRIES : ITS HISTORICAL ORIGINS, CURRENT FUNCTIONS, AND SUGGESTIONS FOR IMPROVEMENT. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESEARCH PAPER, 5) 15P. FSR/METHODOLOGY/FARMERS' PARTICIPATION S539.5/.F37/no.5

1626 EFFENDI, S. (1983) MCINTOSH, J.L. CROPPING AND FARMING SYSTEMS RESEARCH IN INDONESIA. IN: FARMING SYSTEMS RESEARCH

SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESEARCH PAPER, 5) 26P. INDONESIA/INTERDISCIPLINARY RESEARCH/LAND CLASSIFICATION/LAND USE/FSR/TARGET SELECTION/RAINFED FARMING/CROPPING SYSTEMS/PROGRAMS AND PROJECTS/TECHNOLOGY TRANSFERS/SMALL FARMS S539.5/.F37/no.5

1627 FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD : PROCEEDINGS OF KANSAS STATE UNIVERSITY'S 1982 FARMING SYSTEMS RESEARCH SYMPOSIUM / CORNELIA BUTLER FLORA, ED. MANHATTAN, KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESEARCH PAPER, 5) FSR/METHODOLOGY/PROGRAMS AND PROJECTS/FARMING SYSTEMS S539.5/.F37/no.5

1628 GALT, D. (1982) ET AL. FARMING SYSTEMS RESEARCH (FSR) IN HONDURAS, 1977-81 : A CASE STUDY. EAST LANSING, MICHIGAN STATE UNIVERSITY, DEPARTMENT OF AGRICULTURAL ECONOMICS. (MSU INTERNATIONAL DEVELOPMENT WORKING PAPER, 1) 49P. HONDURAS/FSR/INTERDISCIPLINARY RESEARCH/TARGET SELECTION/SURVEYS, SHORT-TERM/ON-FARM TESTING/EXPERIMENTAL STATIONS/TRAINING/PROBLEM IDENTIFICATION ++

1629 GARRETT, P. (1983) IDENTIFYING APPROPRIATE TARGET POPULATIONS. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESERACH PAPER, 5) 10P. FSR/ECUADOR/SMALL FARMS/TARGET SELECTION/INTERDISCIPLINARY RESEARCH S539.5/.F37/no.5

1630 HART, R.D. (1982) SYNTHESIS AND EVALUATION OF DUAL-PURPOSE GOAT PRODUCTION FOR SMALL MIXED FARMS IN WESTERN KENYA. MORRILTON, WINROCK INTERNATIONAL. (SR-CRSP PAPERS, CR-8) 4P. KENYA/FSR/GOAT/EVALUATION KE.5.D

1631 HILDEBRAND, P.E. (1983) THE CONCEPT OF "HOMOGENEOUS SYSTEMS" AND ITS USEFULNESS. GAINESVILLE, UNIVERSITY OF FLORIDA, INSTITUTE OF FOOD AND AGRICULTURAL SCIENCES, FARMING SYSTEMS SUPPORT PROJECT. (WORKING PAPER) 2P. TARGET SELECTION/FSR 5.D

1632 HILDEBRAND, P.E. (1983) THE ROLE OF ON-FARM RESEARCH IN TECHNOLOGY GENERATION. IN : DESIGN AND ANLYSIS OF ON-FARM AGRONOMIC TRIALS. S.L. : S.N., 1983. 11P. FSR/ON-FARM TESTING/EXTENSION 5.D

1633 HOBGOOD, H.H. (1980) ET AL. CENTRAL AMERICA : SMALL FARMER CROPPING SYSTEMS. WASHINGTON, D.C., USAID. (A.I.D. PROJECT IMPACT EVALUATION, 14) 89P. SMALL FARMS/CATIE/FSR/NICARAGUA/INSTITUTION BUILDING/NATIONAL PROGRAMS AND PROJECTS/PROJECT APPRAISAL/COSTA RICA/HONDURAS/INTERDISCIPLINARY RESEARCH/FARMERS' PARTICIPATION/EL SALVADOR/GUATEMALA/CROPPING SYSTEMS/TRAINING DOC. S/18.52/14

1634 JUDY, W.H. (1983) RELATION OF FARMING SYSTEMS RESEARCH TO COMPONENT RESEARCH PROGRAMS. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESEARCH PAPER, 5) 5P. FSR/METHODOLOGY S539.5/.F37/no.5

1635 KEAN, S.A. (1982) CHIBASA, W.M INSTITUTIONALISING FARMING SYSTEMS RESEARCH IN ZAMBIA. CHILANGA, REPUBLIC OF ZAMBIA, ADAPTIVE RESEARCH PLANNING TEAM, DEPARTMENT OF AGRICULTURE. 12P. ZAMBIA/FSR/PROGRAMS AND PROJECTS/INSTITUTION BUILDING/CIMMYT/INTERDISCIPLINARY RESEARCH/PROBLEM IDENTIFICATION/SOLUTION DESIGN/EXPERIMENTAL STATIONS/ON-FARM TESTING/EXTENSION ZM.5.D

1636 KRANTZ, B.A. (1981) REPORT OF ADVISOR TO CARDI/USAID PROJECT 538-0015. TRINIDAD, CARDI. (CONSULTANT REPORT, 6) 32P. ANTIGUA/MONTSERRAT/TRINIDAD AND TOBAGO/BARBADOS/SMALL FARMS/FSR/RECOMMENDATIONS/ST. KITTS-NEVIS KN.5.D

1637 NAVARRO, L.A. (1983) DEVELOPING TECHNOLOGY FOR SMALL FARMS : A CASE STUDY IN CENTRAL AMERICA. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESEARCH PAPER, 5) 19P. SMALL FARMS/CATIE/NATIONAL PROGRAMS AND PROJECTS/COSTA RICA/HONDURAS/NICARAGUA/EL SALVADOR/METHODOLOGY/TARGET SELECTION/INTERDISCIPLINARY RESEARCH/FSR S539.5/.F37/no.5

1638 NORMAN, D.W. (1983) THE FARMING SYSTEMS APPROACH TO RESEARCH. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESEARCH PAPER, 5) 12P. FSR/BASELINE DATA/SOLUTION DESIGN/ON-FARM TESTING/EXTENSION/METHODOLOGY/SOCIOECONOMIC CONSTRAINTS/TARGET SELECTION/NATIONAL PROGRAMS AND PROJECTS S539.5/.F37/no.5

1639 NORMAN, D.W. (1983) SOME PROBLEMS IN THE IMPLEMENTATION OF AGRICULTURAL RESEARCH PROJECTS WITH A FARMING SYSTEMS PERSPECTIVE. GABORONE, AGRICULTURAL TECHNOLOGY IMPROVEMENT PROJECT (ATIP). 12P. FSR/IMPLEMENTATION OF RESEARCH/NATIONAL PROGRAMS AND PROJECTS/PROJECT APPRAISAL/ADMINISTRATIVE AREAS/BOTSWANA/INTERDISCIPLINARY RESEARCH/TRAINING BW.5.D

1640 QUISUMBING, E.C. (1983) LINKING FARMING SYSTEMS RESEARCH AND EXTENSION TO THE FARMER : THE PHILIPPINE EXPERIENCE. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESEARCH PAPER, 5) 9P. PHILIPPINES/FSR/PROGRAMS AND PROJECTS/FARMERS' PARTICIPATION S539.5/.F37/no.5

1641 RHOADES, R.E. (1980) RHOADES, V.N. AGRICULTURAL ANTHROPOLOGY : A CALL FOR THE ESTABLISHMENT OF A NEW PROFESSIONAL SPECIALITY. PRACTICING ANTHROPOLOGY. 2(4):10-11,28. APR-MAY 1980. ANTHROPOLOGY/AGRICULTURAL EDUCATION 5.D

1642 WAUGH, R.K. (1983) A THEORETICAL LOOK AT A COUNTRY'S RESEARCH AND EXTENSION SYSTEM. GAINESVILLE, UNIVERSITY OF FLORIDA, IFAS. (CLASS NOTES) 4P. FSR/EXTENSION/PLANNING OF RESEARCH 5.D

1643 ZANDSTRA, H.G. (1983) KEYNOTE ADDRESS : AN OVERVIEW OF FARMING SYSTEMS RESEARCH. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESERACH PAPER, 5) 15P. FSR/ON-FARM TESTING/INTERDISCIPLINARY RESEARCH/SURVEYS, SHORT-TERM/SOLUTION DESIGN S539.5/.F37/no.5

5.E

1644 BERNSTEN, R.H. (1983) EVALUATING THE IMPACT OF FARMING SYSTEMS RESEARCH AND DEVELOPMENT PROJECTS - A NEGLECTED ISSUE. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESERACH PAPER, 5) 18P. FSR/NATIONAL PROGRAMS AND PROJECTS/EVALUATION OF RESEARCH/CGIAR/OBJECTIVES/CARDI/INTERDISCIPLINARY RESEARCH/COST-BENEFIT ANALYSIS/FARMERS' PARTICIPATION/SOCIOECONOMIC CONSTRAINTS S539.5/.F37/no.5

1645 CHAPMAN, J. (1981) PINEIRO, M.; TRIGO, E. TECHNOLOGICAL CHANGE AND SMALL FARMS : A REVISED ANALYTICAL FRAMEWORK. SAN JOSE, INTER-AMERICAN INSTITUTE FOR COOPERATION ON AGRICULTURE, OFFICE OF THE ASSOCIATE DEPUTY DIRECTOR GENERAL FOR RURAL DEVELOPMENT. 11P. SYSTEMS ANALYSIS/AGRICULTURAL HOUSEHOLDS/AGRICULTURAL POLICY/TECHNOLOGY TRANSFERS 5.E

1646 DILLON, J.L. (1976) THE ECONOMICS OF SYSTEMS RESEARCH. AGRICULTURAL SYSTEMS. 1(1):5-22. 1976. SYSTEMS ANALYSIS/TRAINING/INTERDISCIPLINARY RESEARCH/PROBLEM IDENTIFICATION/OBJECTIVES/AGRICULTURAL RESEARCH S3/.A45

1647 HART, R.D. (1981) LAS BASES CONCEPTUALES DEL SISTEMA AGRO-SILVO-PASTORIL. MORRILTON, WINROCK INTERNATIONAL. (SPECIAL PAPERS AND PRESENTATIONS, SP-10) 10P. MODELS/SILVICULTURAL SYSTEMS/PASTORAL SYSTEMS/MIXED FARMING 5.E

6

1648 ANALYSIS OF COOPERATION AND COORDINATION BETWEEN THE INTERNATIONAL RESEARCH CENTERS (CIMMYT, CIAT, CIP) AND THE NATIONAL RESEARCH CENTERS OF LATIN AMERICA (1981) AMES, IOWA STATE UNIVERSITY, INTERNATIONAL PROGRAMS OFFICE. 420P. LATIN AMERICA/NATIONAL PROGRAMS AND PROJECTS/AGRICULTURAL RESEARCH/CIAT/CIMMYT/CIP/MAIZE/RICE/CASSAVA/POTATO/WHEAT/TRITICALE/BARLEY/BEANS/TECHNOLOGY TRANSFERS/PASTURES/RECOMMENDATIONS/TRAINING/ON-FARM TESTING ++

1649 AXINN, N.W. (1983) GOAL CONFLICT AND INCENTIVES AMONG INSTITUTIONAL PARTICIPANTS. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESEARCH PAPER, 5) 2P. RESEARCH WORKERS/RECRUITMENT S539.5/.F37/no.5

1650 BAKER, E.F.I. (1976) ET AL. REPORT TO THE BOARD OF GOVERNORS ON THE INSTITUTE'S WORK IN 1975-76. SAMARU, INSTITUTE FOR AGRICULTURAL RESEARCH, AHMADU BELLO UNIVERSITY, FARM SYSTEMS AND INTERCROPPING PROGRAMME. 65P. NIGERIA/CROPPING SYSTEMS/INTERCROPPING/SORGHUM/MILLETS/MAIZE/YIELD/ GROUNDNUT/COTTON/AGRICULTURAL RESEARCH/HERBICIDES/HOEING/COWPEA/WEED CONTROL/TILLAGE SYSTEMS NG.6

1651 BAKER, E.F.I. (1978) REPORT TO THE BOARD OF GOVERNORS ON THE INSTITUTE'S WORK IN 1977-78. SAMARU, INSTITUTE FOR AGRICULTURAL RESEARCH, AHMADU BELLO UNIVERSITY, FARM SYSTEMS AND INTERCROPPING PROGRAMME. 57P. NIGERIA/INTERCROPPING/SORGHUM/MILLETS/MAIZE/YIELD/SOYABEAN/ GROUNDNUT/HERBICIDES/HOEING/COWPEA/WEED CONTROL/TILLAGE SYSTEMS NG.6

1652 BROUGH, O.L. (1977) THE ROLE WE SEE FOR ICARDA IN FARMING SYSTEMS RESEARCH TEACHING AND TRAINING. TUNIS, THE FORD FOUNDATION. 12P. SYRIA/FSR/OBJECTIVES/INTERDISCIPLINARY RESEARCH SY.ICA.6

1653 CIMMYT (1981) CIMMYT ECONOMICS. MEXICO, CIMMYT. 15P. ADOPTION OF INNOVATIONS/TARGET SELECTION/SURVEYS, SHORT-TERM/NATIONAL PROGRAMS AND PROJECTS/AGRICULTURAL ECONOMICS MX.CIM.6

1654 CUMMINGS, R.W. (1974) KANWAR, J.S. TRANSFER OF TECHNOLOGY - OUTREACH PROGRAM OF ICRISAT. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 11P. TECHNOLOGY TRANSFERS/ICRISAT/NATIONAL PROGRAMS AND PROJECTS/AFRICA/LATIN AMERICA/SOUTHEAST ASIA/TRAINING S616/.T76/I57/1974a

1655 DEVELOPMENT ALTERNATIVES, INC. (1982) CRAWFORD, P.R.; BARCLAY, A.H. AID EXPERIENCE IN AGRICULTURAL RESEARCH : A REVIEW OF PROJECT EVALUATIONS. WASHINGTON, D.C., USAID. (A.I.D. PROGRAM EVALUATION DISCUSSION PAPER, 13) 257P. AGRICULTURAL RESEARCH/NATIONAL PROGRAMS AND PROJECTS/PROJECT APPRAISAL/ON-FARM TESTING/INTERDISCIPLINARY RESEARCH/DEVELOPMENT AID/SMALL FARMS DOC. S/18.51/1

1656 EVERSON, E. (1982) ET AL. AN EVALUATION OF THE CARDI/USAID SMALL FARM MULTIPLE CROPPING SYSTEMS RESEARCH PROJECT NO. 538-0015. WASHINGTON, D.C., USAID. 64P. SMALL FARMS/DATA COLLECTION/FSR/TRAINING/ST. LUCIA/ST. KITTS-NEVIS/ANTIGUA/ST. VINCENT/GRENADA/MONTSERRAT/DOMINICA/CARDI/AGRICULTURAL RESEARCH/EVALUATION/PROJECT APPRAISAL/TARGET SELECTION/ON-FARM TESTING/SURVEYS, SHORT-TERM/CROPPING SYSTEMS/LIMITING FACTORS/SOCIOECONOMIC CONSTRAINTS/EXPERIMENTAL STATIONS/LIVESTOCK ENTERPRISES TT.CAR.6

1657 FRANCIS, C.A. (1974) TRANSFER OF TECHNOLOGY FROM INTERNATIONAL RESEARCH CENTERS IN DEVELOPING COUNTRIES : THE CIAT EXPERIENCE. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 3P. TECHNOLOGY TRANSFERS/CIAT/TRAINING/NATIONAL PROGRAMS AND PROJECTS S616/.T76/I57/1974a

1658 GAMBLE, W.K. (1981) BOURKE, R.M.; BROOKSON, C.W. SOUTH PACIFIC AGRICULTURAL RESEARCH STUDY : CONSULTANTS REPORT TO THE ASIAN DEVELOPMENT BANK. S.L., ASIAN DEVELOPMENT BANK. 433P. SOUTH PACIFIC/AGRICULTURAL RESEARCH/SOLOMON ISLANDS/FIJI/NATIONAL PROGRAMS AND PROJECTS/PAPUA NEW GUINEA/TONGA/EXTENSION/LIMITING FACTORS/RECOMMENDATIONS/KIRIBATI/COOK ISLANDS/WESTERN SAMOA/COCONUT/PASTURES/COCOA/YAM/BREADFRUIT/TARO/CASSAVA/CITRUS FRUITS ++

1659 GOSTYLA, L. (1980) WHYTE, W.F. ICTA IN GUATEMALA : THE EVOLUTION OF A NEW MODEL FOR AGRICULTURAL RESEARCH AND DEVELOPMENT. ITHACA, CORNELL UNIVERISTY, CENTER FOR INTERNATIONAL STUDIES, RURAL DEVELOPMENT COMMITTEE. (SPECIAL SERIES ON AGRICULTURE RESEARCH AND EXTENSION, 3) 48P. GUATEMALA/ICTA/PROGRAMS AND PROJECTS/INTERDISCIPLINARY RESEARCH/SUBSISTENCE FARMING/LIMITING FACTORS/SOLUTION DESIGN/INSTITUTION BUILDING/PROJECT APPRAISAL/FARMERS' PARTICIPATION/PLANNING OF RESEARCH/EXTENSION/FSR/INTEGRATED RURAL DEVELOPMENT ++

1660 HARWOOD, R.R. (1974) TRANSFER OF CROP PRODUCTION TECHNOLOGY FROM INTERNATIONAL RESEARCH CENTERS IN DEVELOPING COUNTRIES - THE IRRI EXPERIENCE. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 4P. IRRI/TECHNOLOGY TRANSFERS/AGRICULTURAL RESEARCH S616/.T76/I57/1974a

1661 HAVENER, R.D. (1974) TRANSFER OF CROP PRODUCTION TECHNOLOGY FROM INTERNATIONAL RESEARCH CENTERS IN DEVELOPING COUNTRIES. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 5P. TECHNOLOGY TRANSFERS/AGRICULTURAL RESEARCH ++

1662 HILDEBRAND, P.E. (1979) INCORPORATING THE SOCIAL SCIENCES INTO AGRICULTURAL RESEARCH : THE FORMATION OF A NATIONAL FARM SYSTEMS RESEARCH INSTITUTE : REPORT OF A FIVE YEAR TOUR OF DUTY. GUATEMALA, ICTA, AND THE ROCKEFELLER FOUNDATION. 53P. SMALL FARMS/GUATEMALA/INTERDISCIPLINARY RESEARCH/ICTA/PROGRAMS AND PROJECTS/FSR/SURVEYS, SHORT-TERM/PLANNING OF RESEARCH/SOCIOECONOMIC CONSTRAINTS/BEANS/METHODOLOGY/PIG/MAIZE/SORGHUM/LIMITING FACTORS/ON-FARM TESTING/INSTITUTION BUILDING/DATA COLLECTION/BASELINE DATA/EVALUATION/TECHNOLOGY TRANSFERS/PROGRAMMABLE CALCULATORS GT.ICT.6

1663 HONDURAS. SECRETARIA DE RECURSOS NATURALES. (1978) AGRICULTURAL RESEARCH IN HONDURAS. TEGUCIGALPA, SECRETARIA DE

RECURSOS NATURALES. 100P. HONDURAS/FARMING SYSTEMS/EXPERIMENTAL STATIONS/PROGRAMS AND PROJECTS/FSR/INTERDISCIPLINARY RESEARCH/TARGET SELECTION/TRAINING/SMALL FARMS/AGRICULTURAL RESEARCH/EVALUATION ++

1664 HONDURAS, SECRETARIA DE RECURSOS NATURALES. (1980) PROGRAMA NACIONAL DE INVESTIGACION AGROPECUARIA UNIDAD CENTRAL. MANUAL DE ACTIVIDADES DE CAPACITACION EN SERVICIO. COMAYAGUA, SECRETARIA DE RECURSOS NATURALES, PROGRAMA NACIONAL DE INVESTIGACION AGROPECUARIA UNIDAD CENTRAL. 12P. HONDURAS/TRAINING/EVALUATION/ORGANIZATION/PROGRAMS AND PROJECTS HN.6

1665 HORTON, D.E. (1984) SOCIAL SCIENTISTS AS AGRICULTURAL RESEARCHERS : LESSONS FROM THE MANTARO VALLEY PROJECT. OTTAWA, IDRC. 77P. PERU/SMALL FARMS/POTATO/INTERDISCIPLINARY RESEARCH/PLANNING OF RESEARCH/ON-FARM TESTING/TRAINING/POST-HARVEST MANAGEMENT/HIGHLAND SITES/SURVEYS, SHORT-TERM/NATIVE VARIETIES/HYBRID VARIETIES/FARM INPUTS/TECHNOLOGY TRANSFERS/PROJECT APPRAISAL/FARMERS' PARTICIPATION PE.CIP.6 AND S540/.S63/H67/1984

1666 ILCA (1980) ILCA PROPOSED PROGRAMME AND BUDGET, 1981. ADDIS ABABA, ILCA. 59P. ETHIOPIA/INTERDISCIPLINARY RESEARCH/PROGRAMS AND PROJECTS/REPORT/PASTORAL SYSTEMS/LIVESTOCK SECTOR/MALI/NIGERIA ++

1667 MARTINEZ, J.C. (1983) SAIN, G. THE ECONOMIC RETURNS TO INSTITUTIONAL INNOVATIONS IN NATIONAL AGRICULTURAL RESEARCH : ON-FARM RESEARCH IN IDIAP, PANAMA. MEXICO, CIMMYT, ECONOMICS PROGRAM. (CIMMYT ECONOMICS PROGRAM WORKING PAPER, 04/83) 53P. PANAMA/PROGRAMS AND PROJECTS/COST-BENEFIT ANALYSIS/AGRICULTURAL RESEARCH/ADOPTION OF INNOVATIONS/MAIZE/ON-FARM TESTING/CAISAN PROGRAM/PROJECT APPRAISAL ++

1668 MCDERMOTT, J.K. (1982) LATHRICK, D. GUATEMALA : DEVELOPMENT OF THE INSTITUTE OF AGRICULTURAL SCIENCE AND TECHNOLOGY (ICTA) AND ITS IMPACT ON AGRICULTURAL RESEARCH AND FARM PRODUCTIVITY. WASHINGTON, D.C. USAID. (A.I.D. PROJECT IMPACT EVALUATION REPORT, 30) 45P. GUATEMALA/ICTA/FSR/PROGRAMS AND PROJECTS/MAIZE/BEANS/PROJECT APPRAISAL/PLANNING OF RESEARCH DOC. S/18.52/30

1669 MICHIE, B.R. (1980) WORKING WITHIN THE AGRICULTURAL ESTABLISHMENT : ANTHROPOLOGY, TITLE XII, AND THE LAND GRANT UNIVERSITY. MANHATTAN, KANSAS STATE UNIVERSITY, DEPARTMENT OF SOCIOLOGY, ANTHROPOLOGY, AND SOCIAL WORK. 16P. FSR/SMALL FARMS/INTERDISCIPLINARY RESEARCH 6

1670 MOSCARDI, M. (1983) ET AL. CREATING AN ON-FARM RESEARCH PROGRAM IN ECUADOR : THE CASE OF INIAP'S PRODUCTION RESEARCH PROGRAM. MEXICO, CIMMYT, ECONOMICS PROGRAM. (CIMMYT ECONOMICS PROGRAM WORKING PAPER, 01/83) 28P. ECUADOR/INIAP/MAIZE/SURVEYS, SHORT-TERM/TARGET SELECTION/ON-FARM TESTING/VARIETY TRIALS/TECHNOLOGY TRANSFERS/PROJECT APPRAISAL/PROGRAMS AND PROJECTS/FARMERS' PARTICIPATION/ADOPTION OF INNOVATIONS/DATA COLLECTION EC.6

1671 NAVARRO, L.A. (1980) CATIE'S SMALL FARMERS ORIENTED AGRICULTURAL RESEARCH EFFORT IN THE CENTRAL AMERICAN ISTHMUS. TURRIALBA, CATIE. 21P. CATIE/SMALL FARMS/FSR/CROPPING SYSTEMS/TARGET SELECTION/CENTRAL AMERICA/ON-FARM TESTING/FARMERS' PARTICIPATION/INTERDISCIPLINARY RESEARCH/NATIONAL PROGRAMS AND PROJECTS/TRAINING/AGRICULTURAL RESEARCH LATIN AMERICA.6

1672 OKIGBO, B.N. (1974) THE IITA FARMING SYSTEMS PROGRAM. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. HYDERABAD : ICRISAT, 1974. 15P. IITA/HUMID ZONES/SHIFTING CULTIVATION/AFRICA/PROGRAMS AND PROJECTS/FSR/PLANNING OF RESEARCH/FOOD CROPS/INTERDISCIPLINARY RESEARCH/CROPPING SYSTEMS S616/.T76/I57/1974a

1673 PLUCKNETT, D.L. (1974) AID'S CONCERN FOR AGRICULTURAL DEVELOPMENT IN REGIONS OF LIMITED RAINFALL. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. HYDERABAD : ICRISAT, 1974. 8P. DEVELOPMENT AID/PLANNING OF RESEARCH/SEMIARID TROPICS/DRY FARMING/AGRICULTURAL RESEARCH S616/.T76/I57/1974a

1674 QUISUMBING, E.C. (1982) STATUS OF THE CROPPING SYSTEMS PROGRAM IN THE PHILIPPINES, 1981-82. BANGKOK-CHIANG MAI, ASIAN CROPPING SYSTEMS WORKING GROUP. 19P. PHILIPPINES/PROGRAMS AND PROJECTS/FSR/CROPPING SYSTEMS/RAINFED FARMING/SMALL FARMS PH.6

1675 REPORT TO THE BOARD OF GOVERNORS ON THE INSTITUTE'S WORK IN 1976-77 (1977) SAMARU, INSTITUTE FOR AGRICULTURAL RESEARCH, AHMADU BELLO UNIVERSITY, FARM SYSTEMS AND INTERCROPPING PROGRAMME. 110P. NIGERIA/INTERCROPPING/MILLETS/SORGHUM/AGRICULTURAL RESEARCH/YIELD/MAIZE/ COTTON/COWPEA/SOYABEAN/YAM/GROUNDNUT/WEED CONTROL/HERBICIDES/TILLAGE SYSTEMS/ROTATION NG.6

1676 REPORT TO THE BOARD OF GOVERNORS ON THE INSTITUTE'S WORK IN 1978-79. SAMARU, INSTITUTE FOR AGRICULTURAL RESEARCH,

AHMADU BELLO UNIVERSITY, FARM SYSTEMS AND INTERCROPPING PROGRAMME. 47P. NIGERIA/INTERCROPPING/SORGHUM/MILLETS/MAIZE/YIELD/ GROUNDNUT/HERBICIDES/HOEING/COWPEA/WEED CONTROL/TILLAGE SYSTEMS/ ROTATION/COTTON NG.6

1677 SMITH, M. (1983) LONG TERM VS. SHORT TERM CONSULTANCIES : ADVANTAGES AND DISADVANTAGES FROM AN AID MISSION VIEWPOINT. IN: FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS STATE UNIVERSITY) FARMING SYSTEMS IN THE FIELD. MANHATTAN : KANSAS STATE UNIVERSITY, OFFICE OF INTERNATIONAL AGRICULTURAL PROGRAMS. (FARMING SYSTEMS RESERACH PAPER, 5) 6P. ADVISORY OFFICERS/RESEARCH WORKERS S539.5/.F37/no.5

1678 SOCIAL SCIENCE PLANNING CONFERENCE (1981) SOCIAL SCIENCE RESEARCH AT THE INTERNATIONAL POTATO CENTER : REPORT OF THE SECOND SOCIAL SCIENCE PLANNING CONFERENCE. LIMA, CIP. 196P. PERU/POTATO/SMALL FARMS/FARMING SYSTEMS/ON-FARM TESTING/SURVEYS, SHORT-TERM/CIP/TRAINING/TECHNOLOGY TRANSFERS/INTERDISCIPLINARY RESEARCH/NATIONAL PROGRAMS AND PROJECTS ++

1679 TACHER, G. (1974) ILCA AND THE SYSTEMS OF ANIMAL PRODUCTION IN SEMI-ARID ZONES OF AFRICA. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 6P. ILCA/AGRICULTURAL RESEARCH/NATIONAL PROGRAMS AND PROJECTS S616/.T76/I57/1974a

1680 TOURTE, R. (1974) IRAT APPROACH TO DEVELOPMENT OF INTENSIVE SYSTEMS IN PEASANT AGRICULTURE. IN: INTERNATIONAL WORKSHOP ON FARMING SYSTEMS. PROCEEDINGS. BEGUMPET : ICRISAT, 1974. 10P. IRAT/AGRICULTURAL RESEARCH/TECHNOLOGY TRANSFERS/SENEGAL/TRADITIONAL FARMING S616/.T76/I57/1974a

1681 UPLAND AGRICULTURE AND CONSERVATION PROJECT : PHASE ONE (1983) JAKARTA, USAID. 34P. JAVA/WATERSHEDS/NATIONAL PROGRAMS AND PROJECTS/FSR/CROPPING SYSTEMS/SILVICULTURE/LIVESTOCK/SOCIOECONOMIC CONSTRAINTS ID.6

1682 WAUGH, R.K. (1975) FOUR YEARS OF HISTORY. GUATEMALA, ICTA. 51P. ICTA/GUATEMALA/RESEARCH ORGANIZATION/NATIONAL PROGRAMS AND PROJECTS/SMALL FARMS/TECHNOLOGY ANALYSIS/FARMER TESTING/COOPERATIVE ACTIVITIES/CIAT/CIMMYT GT.6

1683 ZANDSTRA, H. (1979) ET AL. CAQUEZA : LIVING RURAL DEVELOPMENT. OTTAWA, INTERNATIONAL DEVELOPMENT RESEARCH CENTRE. (IDRC, 107E) 321P. COLOMBIA/SMALL FARMS/PROGRAMS AND PROJECTS/FARMING SYSTEMS/EXTENSION/MAIZE/POTATO/CAQUEZA PROJECT/PLANNING OF RESEARCH/SURVEYS, SHORT-TERM/DATA COLLECTION/PROJECT APPRAISAL/BEANS/ORGANIZATION/CROPPING SYSTEMS/TECHNOLOGY TRANSFERS/YIELD/HIGH YIELDING VARIETIES/FERTILIZER RESPONSES/RISK/LIVESTOCK/CREDIT/MARKETING/TRAINING/ONION HN310/.C36/C37

ADMINISTRATIVE AREAS
.... 1639
ADOPTION OF INNOVATIONS
.... 1371, 1388, 1420, 1430, 1452, 1498, 1505-1506, 1524, 1552, 1560, 1562, 1565, 1575, 1580, 1588, 1609-1611, 1617-1618, 1620, 1623, 1652, 1667, 1670
ADVERSE EFFECTS
.... 1619
ADVISORY OFFICERS
.... 1624, 1677
AFAR
.... 1423
AFRICA
.... 1375, 1377-1378, 1395, 1425, 1460-1461, 1491, 1494, 1544, 1575, 1586, 1595-1596, 1601, 1654, 1672
AGE
.... 1566
AGRICULTURAL CREDIT
.... 1430, 1437
AGRICULTURAL DEVELOPMENT
.... 1531
AGRICULTURAL ECONOMICS
.... 1503,1653
AGRICULTURAL EDUCATION
.... 1641
AGRICULTURAL ENGINEERING
.... 1503
AGRICULTURAL HOUSEHOLDS
.... 1529, 1542, 1645
AGRICULTURAL MANPOWER
.... 1372-1373
AGRICULTURAL MECHANIZATION
.... 1375, 1515-1517, 1521
AGRICULTURAL POLICY
.... 1387, 1504, 1645
AGRICULTURAL RESEARCH
.... 1401, 1471, 1497, 1501-1503, 1584, 1596, 1646, 1649, 1650, 1655-1656, 1658, 1660-1661, 1663, 1667, 1671, 1673, 1675, 1679-1680
AGROCLIMATOLOGY
.... 1388, 1396, 1459-1461, 1467, 1505
AGROECOSYSTEM
.... 1387-1388, 1453, 1456, 1533, 1588, 1608
AGROFORESTRY
.... 1421, 1475, 1586
AGROMETEOROLOGY
.... 1462
ALDEP
.... 1542
ALGERIA
.... 1395, 1603
ANIMAL DISEASES
.... 1435-1436, 1486
ANIMAL HUSBANDRY
.... 1378, 1437
ANIMAL PRODUCTION
.... 1437, 1481
ANIMAL RESEARCH
.... 1481
ANIMAL TRACTION
.... 1406, 1442, 1516-1517
ANTHROPOLOGY
.... 1641
ANTIGUA
.... 1437, 1445, 1518, 1636, 1656
APPLIED RESEARCH
.... 1577
APPROPRIATE TECHNOLOGY
.... 1510, 1512-1513, 1517, 1527, 1541, 1543, 1583, 1588, 1611
AQUACULTURE
.... 1427, 1450-1451
AQUATIC MACROPHYTES
.... 1450
ARID REGIONS
.... 1400
ARROWROOT
.... 1403, 1455
ASIA
.... 1375, 1377, 1494, 1556, 1596, 1599
AUSTRALIA
.... 1466
BANANA
.... 1372-1373, 1395, 1445, 1470
BANGLADESH
.... 1388, 1482
BARBADOS
.... 1636
BARBUDA
.... 1437, 1518
BARLEY
.... 1443-1444, 1449, 1648
BASELINE DATA
.... 1437, 1445, 1581-1582, 1601, 1610, 1618, 1621, 1633, 1662
BEANS
.... 1397, 1406-1407, 1474, 1478, 1538, 1562, 1648, 1662, 1668, 1682
BEEF CATTLE
.... 1435, 1486
BIAS
.... 1506, 1524, 1529, 1531, 1547, 1560, 1619
BIBLIOGRAPHY
.... 1364
BIOGEOCHEMICAL ASPECTS
.... 1375
BOLIVIA
.... 1372-1373, 1419-1420, 1480, 1495
BORANA
.... 1423
BOTSWANA
.... 1366, 1371, 1393, 1438, 1452, 1529, 1542, 1580, 1534, 1594, 1639
BRAZIL
.... 1388-1389, 1407, 1440, 1457, 1477, 1514, 1532, 1536
BREADFRUIT
.... 1658
BROWSE
.... 1434
BUFFALO
.... 1435, 1486, 1543
BULLOCKS
.... 1558
CABBAGE
.... 1455
CADU PROJECT
.... 1596
CAISAN PROGRAM
.... 1667
CAMEL
.... 1434
CANADA
.... 1386
CAPITAL
.... 1372-1373, 1541, 1575
CAQUEZA PROJECT
.... 1478, 1514, 1536, 1596, 1682
CARDI
.... 1644, 1656
CASH CROPS
.... 1369, 1372-1374, 1399, 1492
CASH FLOW
.... 1419
CASSAVA
.... 1363, 1369, 1395, 1403, 1407, 1430, 1455, 1474, 1482, 1517, 1538, 1648, 1658
CATIE
.... 1487, 1528, 1633, 1637, 1671
CATTLE
.... 1372-1373, 1427, 1430, 1434, 1437, 1451, 1526, 1532, 1583

CATTLE BREEDS
.... 1423
CENSUSES
.... 1597
CENTRAL AFRICA
.... 1395, 1517
CENTRAL AMERICA
.... 1491, 1544, 1671
CEREALS
.... 1445
CGIAR
.... 1644
CHAD
.... 1429, 1441
CHARACTERIZATION
.... 1534
CHICKEN
.... 1430, 1450
CHICKPEA
.... 1407, 1474, 1476, 1491, 1544
CHINA
.... 1401, 1409
CHINESE CABBAGE
.... 1387
CIAT
.... 1419, 1478, 1512, 1514, 1536, 1648, 1657, 1682
CIMMYT
.... 1406, 1447, 1474, 1588, 1600, 1623, 1635, 1648, 1682
CIP
.... 1648, 1678
CITRUS FRUITS
.... 1658
CLIMATE
.... 1380-1382
COCOA
.... 1658
COCONUT
.... 1561, 1569, 1658
COLOCASIA
.... 1455
COLOMBIA
.... 1457, 1477-1478, 1514, 1536, 1683
COLONIALISM
.... 1399, 1492
COLUMBIA
.... 1525
COMILLA PROJECT
.... 1596
COMMERCIAL FARMING
.... 1383
COMPUTER ANALYSIS
.... 1597
CONSUMPTION
.... 1496
CONTROLLED GRAZING
.... 1443, 1449
COOK ISLANDS
.... 1658
COOKING
.... 1523
COOPERATION
.... 1601
COOPERATIVE ACTIVITIES
.... 1682
COOPERATIVE FARM ENTERPRISES
.... 1399, 1492
COOPERATIVE MARKETING
.... 1399, 1492
COST-BENEFIT ANALYSIS
.... 1420, 1427, 1451, 1562, 1582, 1644, 1667
COSTA RICA
.... 1633, 1637
COTTON
.... 1420, 1427, 1451, 1562, 1582, 1644, 676
COWPEA
.... 1405, 1407, 1424, 1434, 1452, 1455, 1474, 1482, 1484, 1510, 1517, 1526, 1583, 1650-1651, 1675-1676
CREDIT
.... 1683
CROP DAMAGE
.... 1424, 1555
CROP MANAGEMENT
.... 1408
CROP ROTATION
.... 1395, 1416, 1543
CROPPING SYSTEMS
.... 1363, 1365, 1367-1370, 1374-1379, 1381-1382, 1384, 1386-1393, 1395-1396, 1398-1399, 1401-1402, 1407, 1409-1410, 1413, 1416-1417, 1427, 1430, 1434, 1445, 1450-1451, 1463, 1470, 1479, 1482, 1484, 1487, 1492, 1517, 1526, 1528, 1537, 1539-1540, 1543, 1547, 1561, 1569, 1572, 1575, 1586-1588, 1619, 1621, 1626, 1633, 1650, 1656, 1671-1672, 1674, 1681, 1683
CULTURAL ENVIRONMENT
.... 1583
CULTURAL HERITAGE
.... 1423
CULTURAL METHODS
.... 1403, 1556
DAIRY CATTLE
.... 1435, 1486
DAIRYING
.... 1508
DATA ANALYSIS
.... 1577, 1597, 1601
DATA COLLECTION
.... 1371, 1379, 1388, 1394, 1445, 1546, 1575, 1577, 1580, 1588, 1592, 1597, 1601, 1607, 1610, 1618, 1620-1621, 1656, 1662, 1670, 1683
DECISION MAKING
.... 1387-1388, 1391, 1453, 1488, 1505, 1514, 1533, 1536, 1543, 1548-1551, 1553-1554, 1557-1560, 1575-1577, 1583, 1595, 1608, 1613
DEMONSTRATION FARMS
.... 1505
DESERTIFICATION
.... 1605
DESTUMPING
.... 1419-1420
DEVELOPING COUNTRIES
.... 1592
DEVELOPMENT AID
.... 1655, 1673
DEVELOPMENT POLICY
.... 1576
DIAGNOSIS
.... 1619
DIET STUDIES
.... 1547
DIFFERENTIATION
.... 1495
DISEASES
.... 1450
DIVERSIFICATION
.... 1558
DIVISION OF LABOR
.... 1424, 1531, 1547, 1560, 1563
DOMESTIC GARDENS
.... 1395-1396
DOMINICA
.... 1437, 1656
DONKEY
.... 1434, 1437, 1442
DOUBLE CROPPING
.... 1520, 1565
DRAFT ANIMALS
.... 1375, 1387, 1429, 1434, 1441, 1447, 1452, 1542
DRAINAGE
.... 1553

DRILLING
.... 1516
DROUGHT
.... 1423
DROUGHT TOLERANCE
.... 1464
DRY FARMING
.... 1391, 1400, 1614, 1673
DUAL-PURPOSE BREEDS
.... 1435, 1486
DUAL-PURPOSE CATTLE
.... 1371, 1437, 1541, 1580
DUCK
.... 1450
ECONOMETRIC MODELS
.... 1530
ECONOMIC ANALYSIS
.... 1443, 1514, 1536
ECONOMIC EVALUATION
.... 1616
ECONOMIC GROWTH
.... 1514, 1536
ECOSYSTEMS
.... 1453, 1533
ECUADOR
.... 1422, 1537, 1612, 1629, 1670
EDUCATION
.... 1501, 1527, 1529, 1566
EFFICIENCY
.... 1543, 1593
EGG PRODUCTION
.... 1437
EGYPT
.... 1395, 1516
EL SALVADOR
.... 1557, 1633, 1637
EMPLOYMENT
.... 1561, 1569
ENERGY UTILIZATION
.... 1375, 1523
ENERGY, METABOLIZABLE
.... 1443
ENUMERATION
.... 1379
ENVIRONMENTAL FACTORS
.... 1484
ETHIOPIA
.... 1381, 1395, 1423, 1426, 1429, 1441, 1666
ETHNIC GROUPS
.... 1381, 1436
EVALUATION
.... 1388, 1414, 1444, 1498, 1543, 1573, 1581, 1590, 1609-1611, 1618, 1622, 1630, 1656, 1662-1664
EVALUATION OF RESEARCH
.... 1619, 1644
EVAPORATION
.... 1463, 1469
EVAPOTRANSPIRATION
.... 1459
EXPERIMENTAL PLOTS
.... 1387, 1520, 1610, 1618
EXPERIMENTAL STATIONS
.... 1445, 1478, 1503, 1584, 1586, 1591, 1622, 1628, 1635, 1656, 1663
EXTENDED FAMILIES
.... 1371, 1580
EXTENSION
.... 1388, 1399, 1401, 1414, 1492, 1503, 1505-1507, 1521, 1547, 1560, 1575, 1581-1582, 1584-1585, 1587, 1592, 1595-1596, 1608, 1619, 1622, 1624, 1632, 1635, 1638, 1642, 1658-1659, 1683
FACTORS OF PRODUCTION
.... 1568
FALLOW
.... 1385, 1414, 1465, 1548
FALLOWING
.... 1395, 1418, 1422
FAMILY LABOR
.... 1369, 1371, 1419, 1434, 1437, 1494, 1526, 1531, 1541, 1543, 1547, 1561, 1564, 1569, 1580, 1593
FAMILY PLANNING
.... 1529
FARM INCOME
.... 1369, 1371-1372, 1532, 1558, 1580
FARM INPUTS
.... 1437, 1665
FARM LEVEL STUDIES
.... 1575, 1602
FARM MANAGEMENT
.... 1371, 1538, 1575, 1577, 1580, 1584, 1594
FARM MODELS
.... 1575
FARM PLANNING
.... 1577
FARM SIZE
.... 1491, 1544
FARMER TESTING
.... 1404, 1582, 1592, 1610, 1610, 1615, 1618, 1618, 1682
FARMERS' ASSOCIATIONS
.... 1505
FARMERS' ATTITUDES
.... 1409, 1505, 1550, 1552-1553
FARMERS' INNOVATIONS
.... 1382
FARMERS' PARTICIPATION
.... 1537, 1553, 1582, 1590-1591, 1610, 1618-1620, 1625, 1633, 1640, 1644, 1659, 1665, 1670-1671
FARMING CALENDAR
.... 1368, 1372-1373, 1396-1397, 1409, 1413, 1424, 1538-1539, 1547
FARMING SYSTEMS
.... 1362, 1366-1381, 1387, 1389, 1392, 1395, 1400, 1402, 1406, 1419-1420, 1424, 1427, 1445, 1447, 1449-1452, 1474, 1480, 1487, 1494-1495, 1523, 1526, 1528, 1537-1539, 1541, 1547, 1550, 1575, 1577, 1580, 1582-1583, 1585-1586, 1588, 1592-1593, 1602, 1627, 1663, 1678, 1683
FEED SUPPLEMENTS
.... 1443, 1449
FEEDS
.... 1398, 1435, 1437, 1450, 1496
FEMALE LABOR
.... 1436, 1547, 1560, 1563, 1566, 1582
FERTILIZER APPLICATION
.... 1384, 1479, 1514, 1526, 1548
FERTILIZER RESPONSES
.... 1444, 1450, 1454, 1476, 1693
FIBER PLANTS
.... 1400
FIELD CROPS
.... 1413
FIELD SIZE
.... 1372-1373
FIJI
.... 1658
FISH CULTURE
.... 1427, 1450-1451
FISH FARMING
.... 1427, 1450-1451
FISHERIES
.... 1427, 1451
FLOOD PLAINS
.... 1434
FLOURS, CEREAL
.... 1510
FOOD CONSUMPTION
.... 1399, 1492, 1498-1499, 1547, 1570, 1583
FOOD CROPS
.... 1369, 1372-1374, 1381, 1384, 1396, 1399, 1445, 1492, 1672
FOOD PRODUCTION
.... 1594

FOOD PRODUCTS
.... 1571
FORAGE
.... 1435, 1486
FORAGE CROPS
.... 1380, 1400, 1421-1422, 1445-1446, 1449, 1475
FSR
.... 1364-1365, 1367-1368, 1371-1373, 1376, 1379, 1388, 1390, 1393-1395, 1398, 1404, 1406, 1410, 1419-1420, 1431, 1439, 1444-1446, 1458, 1463, 1467, 1482-1483, 1487, 1498-1499, 1509, 1523, 1526, 1528, 1532, 1538-1540, 1543, 1550, 1573-1574, 1576, 1580-1588, 1592-1596, 1598-1600, 1602, 1607-1610, 1612, 1615, 1618-1619, 1621-1640, 1642-1644, 1652, 1656, 1659, 1662-1663, 1668-1669, 1671-1672, 1674, 1681
FULANI
.... 1424
GARLIC
.... 1387
GENOTYPE-SYSTEM INTERACTION
.... 1407
GEOGRAPHY
.... 1381
GHANA
.... 1363, 1395
GOAT
.... 1430, 1434-1435, 1437, 1440, 1449, 1483, 1486, 1509, 1532, 1540, 1630
GOOSE
.... 1450
GRASSLAND MANAGEMENT
.... 1371, 1380, 1425, 1428, 1434, 1457, 1477, 1580
GRAZING
.... 1414
GRAZING BEHAVIOR
.... 1434
GREEN MANURES
.... 1409
GRENADA
.... 1437, 1445, 1656
GROSS MARGINS
.... 1372-1373
GROSS RETURNS
.... 1385, 1465
GROUNDNUT
.... 1363, 1369, 1372-1373, 1376, 1387, 1407, 1416, 1445, 1447, 1455, 1474, 1482, 1491, 1518-1519, 1538, 1544, 1583, 1650-1651, 1675-1676
GROWTH, SEASONAL
.... 1461
GUATEMALA
.... 1525, 1602, 1611, 1633, 1659, 1662, 1668, 1682
HAND TOOLS
.... 1442
HARVESTING
.... 1517
HEADS OF FAMILIES
.... 1506
HEALTH
.... 1547
HERBICIDES
.... 1650-1651, 1675-1676
HERDERS
.... 1436
HETEROGENEITY
.... 1584
HIGH YIELDING VARIETIES
.... 1388, 1412, 1417, 1471, 1497, 1510, 1524, 1683
HIGHER EDUCATION
.... 1573
HIGHLAND SITES
.... 1423, 1570, 1665
HIRED LABOR
.... 1369, 1371, 1406, 1420, 1447, 1494, 1541, 1543, 1561, 1563-1564, 1566, 1569, 1580, 1582
HOEING
.... 1650-1651, 1676
HONDURAS
.... 1397, 1413, 1453, 1456, 1500, 1533, 1588, 1628, 1633, 1637, 1663-1664
HORTICULTURE
.... 1586
HOUSEHOLD CONSUMPTION
.... 1545
HOUSEHOLDS
.... 1371, 1424, 1570, 1580, 1583
HUMID ZONES
.... 1517, 1672
HUSBANDRY
.... 1434, 1449
HYBRID VARIETIES
.... 1665
HYDROLOGICAL ASPECTS
.... 1375
HYDROLOGICAL FACTORS
.... 1387
ICARDA
.... 1444
ICRISAT
.... 1442, 1467, 1474, 1491, 1544, 1588, 1654
ICTA
.... 1588, 1596, 1602, 1611, 1659, 1662, 1668, 1682
IITA
.... 1395, 1407, 1474, 1513, 1610, 1618, 1672
ILCA
.... 1423, 1434, 1679
IMPLEMENTATION OF RESEARCH
.... 1639
IMPLEMENTS
.... 1542
IMPORTS
.... 1445
IN-SERVICE TRAINING
.... 1574
INCOME
.... 1541, 1545
INCOME DISTRIBUTION
.... 1495, 1561, 1568-1569, 1583
INDIA
.... 1375, 1378, 1384, 1388-1389, 1391, 1394, 1407, 1412, 1421, 1427, 1450-1451, 1458, 1461, 1463, 1467, 1469, 1472, 1475-1476, 1491, 1493, 1496, 1508, 1511, 1523-1524, 1544, 1548, 1553-1555, 1557-1558, 1563, 1566, 1604, 1614, 1616
INDONESIA
.... 1365, 1388, 1417, 1427, 1430-1431, 1435, 1448, 1450-1451, 1482, 1486, 1509, 1521-1522, 1545, 1588, 1626
INFRASTRUCTURE
.... 1487, 1528
INIAP
.... 1670
INORGANIC FERTILIZER
.... 1401
INPUT INDUSTRIES
.... 1583
INPUT-OUTPUT ANALYSIS
.... 1369, 1375, 1409, 1424, 1442, 1526, 1532, 1546, 1577, 1583, 1588
INSECT PESTS
.... 1413, 1482, 1484
INSECTICIDE APPLICATION
.... 1482, 1485
INSECTICIDES
.... 1484
INSTITUTION BUILDING
.... 1585, 1610, 1618, 1633, 1635, 1659, 1662

INTEGRATED METHODS
.... 1450
INTEGRATED PLANT PROTECTION
.... 1503
INTEGRATED RURAL DEVELOPMENT
.... 1659
INTENSIVE CROPPING
.... 1388, 1416
INTERCROPPING
.... 1367, 1369, 1372-1373, 1376, 1379, 1388-1389, 1395, 1403, 1407-1408, 1412, 1421, 1445, 1456, 1475, 1482, 1541, 1543, 1555, 1557, 1650-1651, 1675-1676
INTERCROPS
.... 1389, 1407, 1586
INTERDISCIPLINARY RESEARCH
.... 1365, 1394, 1426, 1444, 1484, 1503, 1512, 1514, 1536-1537, 1572-1574, 1577, 1581-1583, 1587-1588, 1590, 1592, 1600-1602, 1610, 1618, 1622, 1626, 1628-1629, 1633, 1635, 1637, 1639, 1643-1644, 1646, 1652, 1655, 1659, 1662-1663, 1665-1666, 1669, 1671-1672, 1678
INVESTMENT
.... 1532
IRAN
.... 1459
IRAQ
.... 1680
IRRI
.... 1367, 1474, 1521, 1588, 1610, 1618, 1660
IRRIGATED FARMING
.... 1375, 1377, 1387-1388, 1409, 1417, 1469
IRRIGATION
.... 1467, 1476, 1548
IRRIGATION SYSTEMS
.... 1450
IRRIGATION, TANK
.... 1493
ISRAEL
.... 1464
JAPAN
.... 1427, 1450-1451
JAVA
.... 1545, 1681
JORDAN
.... 1459, 1505
KENYA
.... 1398, 1407, 1432-1433, 1438, 1446, 1506, 1530, 1540, 1623, 1630
KIRIBATI
.... 1658
KOREA
.... 1427, 1451
LABOR ALLOCATION
.... 1424, 1428, 1442, 1522, 1564
LABOR MARKET
.... 1563
LABOR REQUIREMENTS
.... 1363, 1378, 1430, 1526, 1542, 1565, 1567, 1575
LABOR-INTENSIVE TECHNOLOGY
.... 1556
LAND CLASSIFICATION
.... 1365, 1626
LAND CLEARANCE
.... 1517
LAND EQUIVALENT RATIO
.... 1407
LAND OWNERSHIP
.... 1568
LAND SCARCITY
.... 1447
LAND TYPES
.... 1541
LAND USE
.... 1365, 1440, 1626
LAND-USE SYSTEMS
.... 1372-1373, 1378-1379, 1399, 1414, 1423-1424, 1429, 1434, 1441, 1443, 1467, 1492-1493, 1545
LARGE FARMS
.... 1555
LATIN AMERICA
.... 1512, 1596, 1648, 1654
LEAF AREA INDEX
.... 1407
LEAF CANOPY
.... 1407
LEGUMES
.... 1456
LEGUMES, FORAGE
.... 1418, 1439, 1457, 1477
LEGUMES, GRAIN
.... 1400
LEY FARMING
.... 1377
LIBERIA
.... 1395
LIBYA
.... 1395
LIMITING FACTORS
.... 1363, 1366, 1368, 1376, 1378, 1382, 1384, 1387-1388, 1417, 1419-1420, 1423, 1429, 1435, 1437, 1441, 1445, 1447, 1452, 1473, 1486-1487, 1528, 1538-1539, 1575, 1577, 1584-1586, 1588, 1610, 1618, 1656, 1658-1659, 1662
LINEAR PROGRAMMING
.... 1392, 1514, 1536
LIVESTOCK
.... 1369, 1374, 1380, 1445, 1575, 1681, 1683
LIVESTOCK CENSUSES
.... 1379, 1424, 1434
LIVESTOCK ENTERPRISES
.... 1424, 1434, 1514, 1536, 1583, 1592, 1598, 1656
LIVESTOCK FARMING
.... 1428, 1432
LIVESTOCK FEEDING
.... 1433
LIVESTOCK HUSBANDRY
.... 1380
LIVESTOCK MANAGEMENT
.... 1376, 1436
LIVESTOCK PRODUCTS
.... 1424, 1429, 1434, 1437, 1441
LIVESTOCK SECTOR
.... 1425-1426, 1438, 1666
MAIZE
.... 1363, 1369, 1371-1373, 1388, 1395, 1397, 1404-1407, 1413, 1416, 1424, 1427, 1430, 1447, 1451-1452, 1455, 1472, 1474, 1478-1479, 1482, 1517, 1538, 1543, 1547, 1560, 1562, 1580, 1583, 1588, 1615, 1648, 1650-1651, 1662, 1667-1668, 1670, 1675-1676, 1683
MALARIA
.... 1547
MALAWI
.... 1404, 1615
MALAYSIA
.... 1427, 1450-1451
MALI
.... 1426, 1429, 1434, 1441, 1581, 1666
MANURES, ANIMAL
.... 1424, 1450
MARGINAL COSTS
.... 1443
MARGINAL POPULATIONS
.... 1423
MARKET PRICES
.... 1491, 1544
MARKETING
.... 1376, 1401, 1683
MARKETING BOARDS
.... 1452

MARKETING MARGINS
.... 1503
MARKETS
.... 1381, 1430
MECHANIZATION
.... 1420, 1518-1519, 1522
MEDICAGO
.... 1414
MEDITERRANEAN SOILS
.... 1370
METHODOLOGY
.... 1372-1373, 1444, 1507, 1573, 1581-1582, 1585, 1588, 1592, 1606-1607, 1614, 1625, 1627, 1634, 1637-1638, 1662
MEXICO
.... 1524
MIDDLE EAST
.... 1601
MIGRATION
.... 1529
MILK MARKETING
.... 1508
MILK PRODUCTION
.... 1437, 1508
MILLET, COMMON
.... 1452, 1543
MILLET, FINGER
.... 1371, 1395, 1406-1407, 1547, 1580
MILLET, PEARL
.... 1375, 1382, 1394, 1407-1408, 1416
MILLETS
.... 1376, 1405, 1424, 1434, 1447, 1474, 1491, 1510, 1526, 1544, 1583, 1650-1651, 1675-1676
MILLING
.... 1510
MIXED CROPPING
.... 1379, 1388, 1395-1396, 1405, 1410, 1442, 1526, 1583
MIXED FARMING
.... 1375, 1424, 1439-1440, 1446, 1448, 1450, 1540, 1586, 1592, 1647
MODELS
.... 1577, 1647
MONSOON
.... 1400
MONTSERRAT
.... 1437, 1445, 1636, 1656
MOROCCO
.... 1395, 1603
MORTALITY
.... 1436
MULTICROPPING
.... 1379, 1387-1388, 1402, 1409, 1411, 1416, 1445
MUNGBEAN
.... 1387-1388, 1482, 1484
NATIONAL PROGRAMS AND PROJECTS
.... 1388, 1407, 1425, 1427, 1437-1439, 1450-1451, 1474, 1482, 1502, 1507, 1575-1576, 1582, 1585, 1588, 1592-1593, 1595-1596, 1603, 1623, 1633, 1637-1639, 1644, 1648, 1653-1655, 1657-1658, 1671, 1678-1679, 1681-1682
NATIVE VARIETIES
.... 1383, 1665
NEPAL
.... 1409, 1427, 1450-1451, 1454, 1543
NEW MEXICO
.... 1385, 1465
NICARAGUA
.... 1487, 1528, 1562, 1633, 1637
NIGER
.... 1429, 1441
NIGERIA
.... 1369, 1395-1396, 1405, 1407, 1426, 1429, 1439, 1441, 1510, 1513, 1515, 1526, 1541, 1559, 1583, 1586, 1650-1651, 1666, 1675-1676
NITROGEN
.... 1457, 1477
NITROGEN RESPONSE
.... 1407
NO-TILLAGE
.... 1513, 1520
NON-FARM INCOME
.... 1369
NUTRITION
.... 1434
NUTRITIONAL STATE
.... 1381, 1471, 1497-1499, 1545, 1566, 1586
NUTRITIONAL SURVEYS
.... 1498, 1500
NUTRITIONAL VALUE
.... 1471, 1497
OBJECTIVES
.... 1447, 1512, 1550, 1573, 1582, 1586-1588, 1592, 1610, 1618, 1644, 1646, 1652
OFF-FARM EMPLOYMENT
.... 1371-1373, 1430, 1529, 1541, 1580, 1583
OIL CROPS
.... 1400
OKRA
.... 1395
ON-FARM TESTING
.... 1371, 1388, 1393, 1397, 1439, 1444-1445, 1452, 1472, 1478, 1537, 1540, 1543, 1552, 1562, 1572, 1580-1585, 1587-1588, 1590, 1592, 1604, 1610, 1612, 1617-1618, 1620-1623, 1628, 1632, 1635, 1638, 1643, 1648, 1655-1656, 1662, 1665, 1667, 1670-1671, 1678
ONION
.... 1683
ORGANIC FERTILIZER
.... 1401
ORGANIZATION
.... 1664, 1683
ORGANIZATION OF RESEARCH
.... 1593
OX-DRAWN IMPLEMENTS
.... 1452
OXISOLS
.... 1457, 1477
PANAMA
.... 1617, 1667
PAPUA NEW GUINEA
.... 1658
PASTORAL SYSTEMS
.... 1377, 1380, 1423-1426, 1429, 1434, 1438, 1441, 1647, 1666
PASTURE
.... 1372-1373
PASTURE MANAGEMENT
.... 1437
PASTURES
.... 1400, 1648, 1658
PEPPERS
.... 1395
PERENNIAL CROPPING
.... 1375
PERENNIAL CROPS
.... 1377
PERMANENT CULTIVATION
.... 1369, 1377-1378, 1429, 1434, 1441
PERSONNEL
.... 1610, 1618
PERU
.... 1383, 1428, 1457, 1477, 1570-1571, 1606, 1665, 1678
PEST MANAGEMENT
.... 1388, 1407, 1482, 1484
PESTICIDES
.... 1450
PESTS
.... 1387
PHILIPPINES
.... 1388, 1392, 1409-1411, 1427, 1450-1451 1479, 1482, 1484-1485, 1514, 1520, 1536, 1549, 1561, 1564-1565, 1567-1569, 1613, 1619, 1640, 1674
PHOSPHATES
.... 1457, 1477

PHOSPHORUS
.... 1456
PIG
.... 1372, 1427, 1435, 1437, 1450-1451, 1486, 1662
PIGEON PEA
.... 1395, 1407, 1455, 1474, 1491, 1496, 1544
PIT
.... 1373
PLANNING OF RESEARCH
.... 1366, 1387-1389, 1396, 1407, 1453, 1467, 1482, 1512, 1514, 1533, 1536, 1588, 1592, 1597-1598, 1607, 1610, 1618-1619, 1642, 1659, 1662, 1665, 1668, 1672-1673, 1683
PLANT BREEDING
.... 1471, 1497
PLANT PROTECTION
.... 1401
PLANTAIN
.... 1455
PLANTING EQUIPMENT
.... 1407, 1513, 1520
PNIA
.... 1596
POST-HARVEST MANAGEMENT
.... 1401, 1406, 1408, 1413, 1510, 1517, 1570-1571, 1583, 1590, 1665
POTATO
.... 1383, 1474, 1571, 1648, 1665, 1678, 1683
POULTRY
.... 1372-1373, 1427, 1435, 1437, 1451, 1486
PRACTICAL EDUCATION
.... 1573
PRECIPITATION
.... 1434, 1460, 1463, 1467, 1584
PREDICTION
.... 1460
PRICE STABILIZATION
.... 1511
PROBLEM IDENTIFICATION
.... 1393, 1439, 1447, 1498, 1526, 1573, 1585, 1588, 1590, 1592, 1598, 1602, 1610, 1612, 1617-1618, 1623, 1628, 1635, 1646
PRODUCT MARKETS
.... 1399, 1436, 1492, 1509, 1583
PRODUCTION
.... 1401
PRODUCTION FUNCTIONS
.... 1577
PRODUCTIVITY
.... 1410, 1434
PROGRAMMABLE CALCULATORS
.... 1599, 1662
PROGRAMS AND PROJECTS
.... 1363, 1365, 1371, 1382, 1387, 1399, 1405, 1409, 1411, 1417, 1423, 1426, 1430, 1435, 1452, 1478, 1486, 1488-1489, 1492, 1501, 1503, 1505, 1521, 1537, 1547, 1580, 1583-1584, 1587, 1611, 1617, 1626-1627, 1635, 1640, 1659, 1662-1664, 1666-1668, 1670, 1672, 1674, 1683
PROJECT APPRAISAL
.... 1488, 1596, 1633, 1639, 1655-1656, 1659, 1665, 1667-1668, 1670, 1683
PROTEIN VALUE
.... 1471, 1497
PUDDLING
.... 1479
PUEBLA PROJECT
.... 1514, 1536, 1596
PUMPKIN
.... 1538
RABBIT
.... 1437
RAINFED FARMING
.... 1365, 1375, 1377, 1385, 1388, 1409-1410, 1417, 1444, 1452, 1465, 1467, 1469, 1476, 1479, 1505, 1626, 1674
RANGE MANAGEMENT
.... 1400
RECOMMENDATIONS
.... 1390, 1403, 1437, 1470, 1636, 1648, 1658
RECRUITMENT
.... 1649
REGRESSION ANALYSIS
.... 1511
RELAY CROPPING
.... 1407
REPORT
.... 1426, 1610, 1619, 1666
RESEARCH ORGANIZATION
.... 1682
RESEARCH WORKERS
.... 1601, 1649, 1677
RESOURCE BASE
.... 1555, 1621
RETURNS
.... 1412, 1476
RICE
.... 1363, 1368-1369, 1372-1373, 1375, 1387-1388, 1392, 1395, 1397, 1410-1411, 1417, 1420, 1427, 1430, 1434, 1450-1451, 1471, 1474, 1479-1480, 1482, 1484-1485, 1497, 1517, 1538-1539, 1543, 1556, 1561, 1564-1565, 1569, 1648
RISK
.... 1388, 1412, 1511, 1514, 1536, 1548, 1554, 1557-1558, 1577, 1683
ROOT CROPS
.... 1403, 1455
ROOTING PATTERN
.... 1407
ROTATION
.... 1414, 1675-1676
ROW INTERCROPPING
.... 1385, 1465
ROW SPACING
.... 1407
RUMINANTS
.... 1431
RUNOFF CONTROL
.... 1385, 1465
RURAL DEVELOPMENT
.... 1514, 1536
RURAL WOMEN
.... 1556
RWANDA
.... 1379
SAMPLING
.... 1601
SAMPLING TECHNIQUE
.... 1597
SAVANNA
.... 1378, 1583
SEASONAL LABOR
.... 1538
SEASONAL MIGRATION
.... 1452
SEED
.... 1413
SEED PRODUCTION
.... 1503
SELECTION SYSTEM
.... 1383
SELF SUFFICIENCY
.... 1371, 1437, 1526, 1580
SEMIARID TROPICS
.... 1384, 1389, 1458, 1460-1462, 1464, 1467-1468, 1491, 1494, 1544, 1673
SEMIARID ZONES
.... 1386, 1400, 1429, 1441, 1459, 1511
SENEGAL
.... 1416, 1429, 1438, 1441, 1680
SESAME
.... 1376
SETTLEMENT
.... 1372-1373, 1495

SHARE CROPPING
.... 1514, 1536, 1555
SHEEP
.... 1418, 1422, 1428, 1434-1435, 1437, 1440, 1443-1444, 1449, 1486, 1509, 1532
SHEEP FARMING
.... 1448
SHEEP MANAGEMENT
.... 1428
SHIFTING CULTIVATION
.... 1369, 1374-1375, 1377-1378, 1380, 1418-1420, 1434, 1672
SIERRA LEONE
.... 1395, 1546
SILVICULTURAL SYSTEMS
.... 1394, 1396, 1647
SILVICULTURE
.... 1681
SIMULATION MODELS
.... 1424, 1551, 1559
SLASH AND BURN
.... 1372-1373, 1413, 1419-1420
SMALL FARMS
.... 1365, 1368, 1371, 1374, 1377, 1388, 1399, 1404, 1409, 1418, 1427, 1430-1431, 1433, 1437, 1439, 1445, 1451, 1478, 1480, 1483, 1489, 1492, 1504-1505, 1507, 1512-1514, 1517, 1521, 1524-1526, 1530, 1534-1539, 1543, 1552, 1554-1555, 1557, 1559, 1562, 1576-1577, 1580, 1588, 1592, 1600, 1607, 1611, 1615, 1623-1624, 1626, 1629, 1633, 1636-1637, 1655-1656, 1662-1663, 1665, 1669, 1671, 1674, 1678, 1682-1683
SOCIAL CHANGE
.... 1423, 1494, 1583
SOCIAL SANCTIONS
.... 1424
SOCIAL STRATIFICATION
.... 1423
SOCIETIES
.... 1493
SOCIOECONOMIC ANALYSIS
.... 1444
SOCIOECONOMIC CONSTRAINTS
.... 1363, 1368, 1374, 1376, 1378, 1387-1388, 1400, 1406, 1409, 1419-1420, 1429, 1438, 1441, 1445, 1447, 1452, 1487, 1489, 1512, 1526, 1528, 1534-1535, 1539-1541, 1550, 1572, 1575, 1581-1582, 1588, 1603, 1608, 1610, 1618, 1623, 1638, 1644, 1656, 1662, 1681
SOCIOECONOMIC ORGANIZATION
.... 1375
SOIL ACIDITY
.... 1457, 1477
SOIL AND WATER CONSERVATION
.... 1458, 1464, 1467
SOIL CLASSIFICATION
.... 1380, 1455
SOIL CONSERVATION
.... 1380
SOIL EROSION
.... 1458
SOIL FERTILITY
.... 1369, 1380, 1455-1456
SOIL MANAGEMENT
.... 1455, 1503
SOIL MAPS
.... 1455
SOIL MOISTURE
.... 1459, 1464, 1469
SOIL PROPERTIES
.... 1455
SOIL STRUCTURE
.... 1371, 1580
SOIL TYPES
.... 1381, 1388-1389, 1467, 1583
SOLAR ENERGY
.... 1375
SOLAR RADIATION
.... 1460
SOLOMON ISLANDS
.... 1658
SOLUTION DESIGN
.... 1376, 1393, 1447, 1498, 1543, 1572, 1581-1583, 1585-1586, 1590, 1598, 1610, 1618, 1621, 1623, 1635, 1638, 1643, 1659
SORGHUM
.... 1363, 1371, 1375-1376, 1382, 1385, 1388, 1395, 1397, 1405, 1407-1408, 1412-1413, 1416, 1424, 1452, 1465, 1474, 1491, 1510, 1526, 1544, 1547, 1474, 1491, 1510, 1526, 1544, 1547, 76
SOUTH AFRICA
.... 1395
SOUTH AMERICA
.... 1491, 1544
SOUTH PACIFIC
.... 1658
SOUTHEAST ASIA
.... 1367, 1375, 1450, 1654
SOWING DATE
.... 1407
SOYABEAN
.... 1387, 1651, 1675
SRI LANKA
.... 1388, 1471, 1497
ST. KITTS-NEVIS
.... 1437, 1445, 1473, 1518-1519, 1636, 1656
ST. LUCIA
.... 1374, 1390, 1403, 1437, 1445, 1470, 1656
ST. VINCENT
.... 1390, 1403, 1437, 1445, 1455, 1518, 1656
STAND ESTABLISHMENT
.... 1393
STATISTICAL ANALYSIS
.... 1404, 1615
STATISTICS
.... 1474
STEPPE
.... 1449
STRATIFICATION
.... 1593
STRAW
.... 1444
STRESS CONDITIONS
.... 1391
SUBSISTENCE FARMING
.... 1371, 1375, 1379, 1407, 1429, 1441, 1511, 1542, 1545, 1580, 1583-1584, 1659
SUBTROPICS
.... 1400
SUDAN
.... 1376, 1382, 1429, 1441, 1503, 1531, 1605
SURVEYING INSTRUMENTS
.... 1601
SURVEYS
.... 1577, 1597
SURVEYS, LONG-TERM
.... 1394, 1419-1420, 1442, 1444, 1449, 1604
SURVEYS, SHORT-TERM
.... 1363, 1372-1373, 1379, 1393, 1413, 1428, 1431, 1433, 1436-1437, 1440, 1445, 1447-1448, 1472, 1480, 1482, 1487, 1509, 1528, 1532, 1538, 1543, 1546, 1561, 1569-1571, 1573-1574, 1576, 1582, 1584, 1588, 1598-1600, 1602, 1604, 1606-1607, 1612, 1617, 1623, 1628, 1643, 1653, 1656, 1662, 1665, 1670, 1678, 1683

SURVIVAL
.... 1423
SWAZILAND
.... 1407
SWEET POTATO
.... 1388, 1403, 1445, 1455, 1538, 1583
SYRIA
.... 1443-1444, 1449, 1459, 1652
SYSTEMS ANALYSIS
.... 1550, 1645-1646
TAIWAN
.... 1427, 1450-1451
TANZANIA
.... 1364, 1368, 1406-1407, 1501, 1538-1539, 1547, 1557, 1560, 1623
TARGET SELECTION
.... 1365, 1372-1373, 1398, 1404, 1417, 1419, 1447, 1480, 1498, 1507, 1537, 1576-1577, 1581-1583, 1588, 1592-1595, 1600, 1602, 1608, 1612, 1615, 1617, 1620-1621, 1623, 1626, 1628-1629, 1631, 1637-1638, 1653, 1656, 1663, 1670-1671
TARO
.... 1455, 1658
TAXONOMY
.... 1383
TECHNIQUE
.... 1601
TECHNOLOGY ANALYSIS
.... 1592, 1607, 1610, 1616, 1618, 1682
TECHNOLOGY TRANSFERS
.... 1365, 1387, 1392, 1414, 1445, 1478, 1489, 1494, 1512, 1514, 1525-1526, 1535-1536, 1541, 1556, 1581, 1587, 1590, 1608, 1612, 1626, 1645, 1648, 1654, 1657, 1660-1662, 1665, 1670, 1678, 1680, 1683
TENURE SYSTEMS
.... 1374, 1437, 1561, 1569
THAILAND
.... 1387-1388, 1427, 1450-1451, 1482
THRESHER
.... 1516
THRESHING
.... 1616
TILLAGE SYSTEMS
1654, 1657, 1660-1662, 1665, 1670, 1676
TIME STUDY
.... 1547
TOBACCO
.... 1387
TOMATO
.... 1387, 1455
TONGA
.... 1658
TOXICITY
.... 1450
TRACTORS
.... 1449, 1513, 1515-1516, 1518
TRADITIONAL FARMING
.... 1383, 1391, 1416, 1543, 1575, 1680
TRADITIONS
.... 1424, 1494, 1583
TRAINING
.... 1503, 1584, 1586, 1592, 1597, 1601, 1628, 1633, 1639, 1646, 1648, 1654, 1656-1657, 1663-1665, 1671, 1678, 1683
TRANSHUMANCE
.... 1436
TRANSPORT
.... 1517
TREE CROPPING
.... 1395
TREE CROPS
.... 1369, 1380, 1437
TRINIDAD AND TOBAGO
.... 1636
TRITICALE
.... 1648
TROPICS
.... 1377, 1380, 1400, 1402, 1418, 1513, 1610, 1618
TUNISIA
.... 1395, 1414, 1459, 1603
UGANDA
.... 1399, 1492
ULTISOLS
.... 1457, 1477
UPPER VOLTA
.... 1407, 1424, 1429, 1436, 1441-1442
USA
.... 1385, 1465, 1574
VARIANCE COMPONENTS
.... 1404, 1615
VARIETIES
.... 1570
VARIETY TRIALS
.... 1670
VEGETABLE CROPS
.... 1399-1401, 1492
VEGETATION
.... 1380-1381
VERTISOLS
.... 1469
VIGNA ACONITIFOLIA
.... 1394
VILLAGE STUDIES
.... 1496, 1526, 1548, 1555, 1558, 1566, 1604
VILLAGES
.... 1583, 1594
WAGE RATES
.... 1564-1567
WASTE UTILIZATION
.... 1427, 1451
WATER BALANCE
.... 1459-1460, 1462-1463
WATER CONSERVATION
.... 1380
WATER MANAGEMENT
.... 1464, 1466, 1468, 1503
WATER USE
.... 1469
WATERSHEDS
.... 1467, 1553, 1681
WEED COMPETITION
.... 1393
WEED CONTROL
.... 1388, 1401, 1407, 1480, 1617, 1650-1651, 1675-1676
WELLS
.... 1423
WEST AFRICA
.... 1389, 1396, 1517
WESTERN SAMOA
.... 1658
WHEAT
.... 1375, 1385-1386, 1388, 1414, 1454, 1465, 1469, 1474, 1505, 1524, 1543, 1648
WOMAN'S STATUS
.... 1436, 1488, 1529, 1531, 1547
WOMEN IN AGRICULTURE
.... 1363, 1369, 1371, 1406, 1436, 1452, 1506, 1515, 1529, 1531, 1547, 1556, 1560, 1580, 1583, 1586
WOMEN IN DEVELOPMENT
.... 1488, 1506, 1547
YAM
.... 1363, 1369, 1395, 1403, 1658, 1675
YIELD
.... 1369, 1371-1373, 1375, 1393, 1405, 1407-1409, 1450, 1511, 1580, 1650-1651, 1675-1676, 1683
YIELD GAP
.... 1454, 1472, 1540, 1549, 1583, 1613-1614, 1616

YUCCA
.... 1372-1373
ZAIRE
.... 1595
ZAMBIA
.... 1371, 1580, 1600, 1623, 1635
ZIMBABWE
.... 1371, 1447, 1580, 1623

ACHIEVEMENTS IN WATER HARVESTING TECHNOLOGY IN.. 1466
AGRICULTURAL ANTHROPOLOGY : A CALL FOR THE... 1641
AGRICULTURAL PRODUCTION IN JINOTEGA, NICARAGUA.. 1487,1528
AGRICULTURAL PRODUCTIVITY GAPS : A CASE STUDY OF 1506
AGRICULTURAL RESEARCH IN HONDURAS. 1663
AGRICULTURAL STRATEGY OF RURAL HOUSEHOLDS IN... 1570
AGRICULTURAL SYSTEMS IN ETHIOPIA. 1381
AGRICULTURE IN THE TROPICS. 1380
AGRO-CLIMATOLOGICAL CONSTRAINTS TO IMPROVING... 1459
AGROECOSYSTEM DETERMINANTS. 1453,1533
AID EXPERIENCE IN AGRICULTURAL RESEARCH : A... 1655
AID'S CONCERN FOR AGRICULTURAL DEVELOPMENT IN... 1673
AIMING AGRICULTURAL RESEARCH AT THE NEEDS OF... 1612
ALTERNATIVE APPROACHES IN EXTENSION. 1507
ANALYSIS OF COOPERATION AND COORDINATION BETWEEN 1648
ANALYTICAL APPROACHES TO FARMING SYSTEMS... 1598
ANIMAL AGRICULTURE IN INDONESIA. 1435,1486
ANIMAL AGRICULTURE RESEARCH : AN... 1481
ANIMAL PRODUCTION SYSTEMS IN THE EASTERN... 1437
ANNUAL CROPPING SYSTEMS IN THE TROPICS : AN... 1375
APPLICATION OF AGROMETEOROLOGY TO THE FARMING... 1462
APPLICATION TO THE SEMI-ARID TROPICS OF THE... 1386
APPRAISAL OF THE PRESENT FARMING SYSTEMS OF THE. 1263
APPROPRIATE MECHANIZATION AND POWER AS THEY... 1516
APPROPRIATE MECHANIZATION FOR NO-TILLAGE IN THE. 1513
APPROPRIATE TECHNOLOGY FOR INTERNATIONAL... 1527
ART OF THE INFORMAL AGRICULTURAL SURVEY. 1606
ASPECTS OF SHEEP HUSBANDRY SYSTEMS IN ALEPPO... 1449
ASSESSING THE IMPACT OF DEVELOPMENT PROJECTS ON. 1488
ASSESSMENT OF CLIMATIC RESOURCES IN RELATION TO. 1460
ASSESSMENT OF PRODUCTION POTENTIAL OF FOOD AND.. 1421,1475
BASES CONCEPTUALES DEL SISTEMA... 1647
BASIS FOR PLANNING AN ADAPTIVE RESEARCH... 1368,1538,
1539
BIBLIOGRAPHY OF RECENT FARM SYSTEM STUDIES IN... 1364
BRIEF INTRODUCTION TO ICRISAT'S VILLAGE LEVEL... 1604
BROADCAST PLANTING IN PERSPECTIVE. 1415
CAPITAL STRUCTURE AND FARM INCOME FOR A SAMPLE.. 1532
CAQUEZA : LIVING RURAL DEVELOPMENT. 1683
CASE STUDIES ON FARMING SYSTEMS IN THE SEMI-ARID 1458
CASO DEL ICTA EN GUATEMALA COMO INSTITUCION... 1611
CATIE'S SMALL FARMERS ORIENTED AGRICULTURAL... 1671
CENTRAL AMERICA : SMALL FARMER CROPPING SYSTEMS. 1633
CIMMYT ECONOMICS. 1653
COLLECTION OF PAPERS RELEVANT TO FARMING SYSTEMS 1371,1580
COMBINING DISCIPLINES IN RAPID APPRAISAL : THE.. 1602
COMMON FEATURES AND CONTRASTS IN LABOR RELATIONS 1563
COMPLEMENTARY ASPECTS OF RURAL ENERGY AND... 1523
CONCEPT OF "FARMING SYSTEMS" IN THE ANALYSIS OF. 1550
CONCEPT OF "HOMOGENEOUS SYSTEMS" AND ITS... 1631
CONFERENCE PAPERS FOR FARMING SYSTEMS IN THE... 1578
COTTON PRODUCTION IN NEVIS 1473
COURSE IN FARMING SYSTEMS RESEARCH : THE CORNELL 1573
CREATING AN ON-FARM RESEARCH PROGRAM IN ECUADOR. 1670
CROPPING AND FARMING SYSTEMS RESEARCH IN... 1365,1626
CROPPING PATTERNS FOR INCREASING AND STABILIZING 1399
CROPPING SYSTEMS AND RELATED RESEARCH IN AFRICA. 1395
CROPPING SYSTEMS FOR SMALL FARMS IN THE HUMID... 1396
CROPPING SYSTEMS IN PESPIRE, SOUTHERN HONDURAS. 1413
CROPPING SYSTEMS IN THE SEMI-ARID TROPICS OF... 1384
CROPPING SYSTEMS RESEARCH ACTIVITIES IN... 1417
DATA COLLECTION, SITE SELECTION AND FARMER... 1620
DEMONSTRATIONS OF AN INTERDISCIPLINARY APPROACH. 1447
DESIGN AND MANAGEMENT OF SURVEY RESEARCH : A... 1597
DETERMINANTS AND IMPLICATIONS OF CROP FAILURE IN 1555
DEVELOPING MORE PRODUCTIVE FARMING SYSTEMS. 1410
DEVELOPING TECHNOLOGY FOR SMALL FARMS : A CASE.. 1637
DEVELOPMENT OF CROP ROTATION TECHNOLOGY FOR... 1414
DEVELOPMENT OF SMALLHOLDER VEGETABLE PRODUCTION. 1399,1492
DIFFERENTIATION IN THE COLONIES OF SANTA CRUZ... 1495
DIMENSIONS OF FARM-LEVEL DIVERSIFICATION IN THE. 1558
DISEASES OF CROPPING SYSTEMS RESEARCH. 1619
DRYLAND CROP PRODUCTION SYSTEMS IN SEMI-ARID... 1366
DRYLAND CROPPING SYSTEMS IN EASTERN NEW MEXICO. 1385,1465
DRYLAND FARMING IN BOTSWANA. 1452
DUAL-PURPOSE GOAT PRODUCTION SYSTEMS FOR... 1483
DYNAMICS OF ANDEAN POTATO AGRICULTURE. 1383
DYNAMICS OF SHIFTING CULTIVATION, RURAL POOR,... 1418
ECONOMIC AND SOCIAL ASPECTS OF LABOR UTILIZATION 1494
ECONOMIC CHARACTERISTICS OF SMALL-SCALE, LIMITED 1534
ECONOMIC CONSTRAINTS ON DUAL-PURPOSE GOAT... 1540
ECONOMIC MODELLING OF SMALL FARMS IN WESTERN... 1530
ECONOMIC RETURNS TO INSTITUTIONAL INNOVATIONS IN 1667
ECONOMICS AND THE DESIGN OF SMALL-FARMER... 1514,1536
ECONOMICS OF SYSTEMS RESEARCH. 1646
ECONOMICS. 1616
EFFECT OF FERTILIZER RATES AND DEPTHS OF... 1479
EFFECTS OF DENSITIES AND ROW ARRANGEMENT ON... 1408
EFFICIENCY OF RISK MANAGEMENT BY SMALL FARMERS.. 1557
ENCUESTA AGROECONOMICA EN LAS AREAS DE... 1480
EVALUATING THE IMPACT OF FARMING SYSTEMS... 1644
EVALUATION OF THE CARDI/USAID SMALL FARM... 1656
EXPERIENCES OF THE INTER-ASIA CROPPING SYSTEMS.. 1587
FARM AND HEARTH : RURAL WOMEN IN A FARMING... 1531
FARM MANAGEMENT IN PEASANT AGRICULTURE : A... 1575
FARM MANAGEMENT RESEARCH FOR SMALL FARMER... 1577
FARM RESOURCE PRODUCTIVITY AND CONSTRAINTS IN A. 1409
FARM SYSTEMS IN THE COLONIZATION CRESCENT OF... 1372
FARMER-BACK-TO-FARMER : A MODEL FOR GENERATING.. 1590
FARMING SYSTEMS AND PROBLEMS OF IMPROVING THEM. 1541
FARMING SYSTEMS APPROACH : SOME UNANSWERED... 1622
FARMING SYSTEMS APPROACH TO RESEARCH. 1638
FARMING SYSTEMS APPROACH TO SEMI-ARID... 1394
FARMING SYSTEMS IN ST. LUCIA : AN... 1374
FARMING SYSTEMS IN THE FIELD : PROCEEDINGS OF... 1627
FARMING SYSTEMS IN THE MEDITERRANEAN REGION. 1370
FARMING SYSTEMS IN THE NIGERIAN SAVANNA... 1583
FARMING SYSTEMS IN THE TROPICS. 1377
FARMING SYSTEMS RESEARCH (FSR) IN HONDURAS,... 1628
FARMING SYSTEMS RESEARCH : ISSUES IN RESEARCH... 1607

FARMING SYSTEMS RESEARCH AND DEVELOPMENT... 1592
FARMING SYSTEMS RESEARCH IN EASTERN AFRICA : THE 1623
FARMING SYSTEMS RESEARCH IN NORTH KORDOFAN,... 1490
FARMING SYSTEMS RESEARCH IN THE CONTEXT OF MALI. 1581
FARMING SYSTEMS RESEARCH REVIEWED. 1582
FEED PRODUCTION SYSTEMS FOR DUAL PURPOSE GOATS.. 1446
FEED PRODUCTION SYSTEMS IN WESTERN KENYA. 1398
FERTILIZER RESPONSIVENESS OF CHICKPEAS IN INDIA. 1476
FIELD DATA COLLECTION IN THE SOCIAL SCIENCES... 1601
FOOD CROPS IN THE LOW-INCOME COUNTRIES : THE... 1474
FOUR YEARS OF HISTORY. 1682
FROM SHIFTING CULTIVATION TO SEMI-PERMANENT AND. 1378
FSR PROJECT EVALUATION. 1609
FSR/E AS A FIELD METHODOLOGY IN THIRD WORLD... 1625
FUTURE AGRICULTURAL PROGRAM DIRECTIONS. 1502
GEO-CLIMATOLOGICAL APPROACH FOR FARMING SYSTEMS. 1463
GOAL CONFLICT AND INCENTIVES AMONG INSTITUTIONAL 1649
GUATEMALA : DEVELOPMENT OF THE INSTITUTE OF... 1668
GUIA METODOLOGICA PARA CONDUCCION DE ENSAYOS DE. 1397
HELPING RESOURCE POOR FARMERS : THE AGRICULTURAL 1584
HIDDEN HARVEST : A SYSTEMS APPROACH TO... 1510
ICTA IN GUATEMALA : THE EVOLUTION OF A NEW MODEL 1659
IDENTIFYING APPROPRIATE TARGET POPULATIONS. 1629
IITA FARMING SYSTEMS PROGRAM. 1672
ILCA AND THE SYSTEMS OF ANIMAL PRODUCTION IN... 1679
ILCA PROPOSED PROGRAMME AND BUDGET, 1981. 1426,1666
IMPACT OF ATTITUDES TOWARD RISK ON AGRICULTURAL. 1548
IMPACT OF NEW TECHNOLOGY ON SMALL-FARM... 1512
IMPACT OF TECHNOLOGY ADOPTION IN LABOR... 1565
IMPROVING AGRICULTURAL RESEARCH PLANNING AND... 1501
INCORPORATING NUTRITIONAL CONSIDERATIONS INTO... 1499
INCORPORATING THE SOCIAL SCIENCES INTO... 1662
INFORMATION GATHERING SYSTEM FOR PEANUT... 1519
INSECT MANAGEMENT PRACTICES OF RICE FARMERS IN.. 1485
INSTITUTIONAL INNOVATIONS IN NATIONAL... 1617
INSTITUTIONALISING FARMING SYSTEMS RESEARCH IN.. 1635
INSTITUTIONALIZING THE FARMING SYSTEMS APPROACH. 1585
INTEGRATED AGRICULTURE-AQUACULTURE FARMING... 1450
INTEGRATED CROP-LIVESTOCK-FISH FARMING... 1427,1451
INTEGRATING PARTICIPANTS : FARMING SYSTEMS... 1574
INTERACTION BETWEEN CULTIVATION AND LIVESTOCK... 1429,1441
INTERDISCIPLINARY PERSPECTIVE OF CROPPING... 1387
INTRODUCING NUTRITIONAL CONSIDERATIONS INTO... 1586
INTSORMIL AGRONOMIC ACTIVITIES IN NORTH... 1382
INTSORMIL TRIP REPORT : SOUTHERN HONDURAS. 1500
INVESTIGATION OF SOIL CONDITIONS OF FARMERS... 1455
IRAT APPROACH TO DEVELOPMENT OF INTENSIVE... 1680
KEYNOTE ADDRESS : AN OVERVIEW OF FARMING SYSTEMS 1643
LABOR UTILIZATION IN A RICE VILLAGE IN SOUTHERN. 1564
LEGUME-BASED, PASTURE PRODUCTION STRATEGY FOR... 1457,1477
LINKING FARMING SYSTEMS RESEARCH AND EXTENSION.. 1640
LINKING SCIENTIST AND FARMER : RE-THINKING... 1624
LIVESTOCK PRODUCTION ON SMALL FARMS OF WESTERN.. 1432
LIVESTOCK-CROP INTERACTIONS : THE CASE OF GREEN. 1443
LONG TERM VS. SHORT TERM CONSULTANCIES... 1677
LOW COST APPROACH TO UNDERSTANDING SMALL... 1600
MANAGEMENT OBJECTIVES OF THE PEASANT FARMER : AN 1554
MANUAL DE ACTIVIDADES DE CAPACITACION EN... 1664
MEASURING INCOME DISTRIBUTION EFFECTS IN... 1568
MECHANIZATION ON SMALL-SCALE FARM LEVEL IN THE.. 1517
METHODOLOGY FOR DETERMINING INSECT CONTROL... 1484
METHODOLOGY FOR ON-FARM CROPPING SYSTEMS... 1621
MICRO-LEVEL ACCOMPLISHMENT AND CHALLENGES FOR... 1576
MICRO-LEVEL FARM MANAGEMENT AND PRODUCTION... 1546
MIDDLE EAST AND AFRICA AGRICULTURAL SEMINAR.... 1489
MIXED CROP/LIVESTOCK FARMING SYSTEMS. 1439
MODIFIED STABILITY ANALYSIS OF FARMER MANAGED... 1404,1615
MONITORING AND CONTROL IN AGRICULTURAL RESEARCH. 1472
MULTIPLE CROPPING AND TROPICAL FARMING SYSTEMS.. 1402
MYTHS ABOUT LAND PREPARATION MECHANIZATION... 1522
NEW WAYS FOR OLD WORLDS : DEVELOPMENT AND... 1423
NEW WHEAT VARIETIES AND THE SMALL FARMER. 1524
NOTES FOR FARMING SYSTEMS RESEARCH SEMINAR. 1594
NUTRITIONAL COMPONENT OF FARMING SYSTEMS... 1498
NUTRITIONAL CRITERIA IN PLANT BREEDING... 1471,1497
OBSERVATIONS AND COMMENTS ON THE FARMING SYSTEMS 1595
ON FARM RESEARCH PROGRAMME FOR THE FIRST SEASON. 1393
ON THE NON-NEUTRALITY OF SCALE OF AGRICULTURAL.. 1535
ON-FARM EVALUATION OF THE ROLLING INJECTION... 1520
ON-FARM EXPERIMENTATION IN FARMING SYSTEMS... 1610,1618
ON-FARM RESEARCH METHODS : A COMPARATIVE... 1537
OPEN-ENDED APPROACHES TO SMALL FARMER... 1504
ORGANIZING FARM-LEVEL STUDIES ACROSS NATIONAL... 1603
OVERVIEW OF MECHANIZATION PROBLEMS IN A... 1515
PARTICIPATORY APPROACHES TO AGRICULTURAL... 1596
PERCEPTIONS OF FARMERS AND PARTICIPATION IN THE. 1553
PILOT PRODUCTION IN THE PHILIPPINES : PROGRESS.. 1411
PLANNING AN ADAPTIVE EXPERIMENTAL PROGRAMME ON.. 1406
POTATO PROCESSING IN THE CENTRAL HIGHLANDS OF... 1571
PRESENT CROPPING SYSTEMS : TRENDS OF CHANGE AND. 1391
PROCEEDINGS : FARMING SYSTEMS SEMINAR -... 1579
PROCEEDINGS OF THE INTERNATIONAL WORKSHOP ON... 1407
PROCEEDINGS, SYMPOSIUM ON CROPPING SYSTEMS... 1388
PRODUCTION SYSTEMS IN THE NORTHERN COLONIZATION. 1373
PRODUCTIVITY OF SHEEP UNDER UPLAND FARMING... 1448
PROFILE OF FARMING HOUSEHOLDS IN KGORO VILLAGE.. 1542
PROSPECTS FOR SMALL FARM GOAT PRODUCTION IN A... 1430
READINGS IN FARMING SYSTEMS RESEARCH AND... 1588,1599
REGIONAL EFFECTS OF NATIONAL STABILIZATION... 1511
RELATION OF FARMING SYSTEMS RESEARCH TO... 1634
RELEVANT CROPPING SYSTEMS RESEARCH FOR THE ASIAN 1572
REPORT OF A MEETING OF ASIAN RICE-BASED CROPPING 1482
REPORT OF A VISIT TO CARDI PROGRAMME ON SMALL... 1470
REPORT OF ADVISOR TO CARDI/USAID PROJECT... 1390,1636
REPORT OF AN "IN HOUSE" OF THE CARDI/USAID... 1445
REPORT ON A CASE STUDY PROGRAMME IN SAN PEDRO. 1419
REPORT ON MECHANISATION OF SMALL PEANUT FARMS IN 1518
REPORT TO THE BOARD OF GOVERNORS ON THE... 1650,1651,
1675,1676
RESEARCH ON MIXED CROPPING WITH CEREALS IN... 1405
RESEARCH TRIALS AND FARMER RECOMMENDATIONS. 1454
RESOURCE UTILIZATION APPROACH TO CROPPING... 1367
RICE IN COCONUT ENVIRONMENT : AN INTERIM REPORT. 1561,1569

RISK AND THE CHOICE OF CROPPING SYSTEMS : HYBRID 1412
ROLE OF AGRICULTURAL COOPERATIVES IN INTRODUCING 1505
ROLE OF ON-FARM RESEARCH IN TECHNOLOGY... 1632
ROLE OF PIGEONPEAS IN VILLAGE DIETS IN THE... 1496
ROLE WE SEE FOR ICARDA IN FARMING SYSTEMS... 1652
ROOT CROP PRODUCTION ON PROJECT FARMS IN ST.... 1403
RURAL HOUSEHOLD INCOME AND EXPENDITURES IN... 1545
SCIENTIFIC DATA PROCESSING IN THE DETERMINATION. 1551
SCREENING CROP INNOVATIONS IN A WHOLE-FARM... 1392
SEASONAL VARIATION IN FEED RESOURCES ON SMALL... 1433
SEASONAL WATER USE BY RAIN-FED AND IRRIGATED... 1469
SELECTING AND EVALUATING NEW TECHNOLOGY FOR... 1478
SHEEP AND GOAT MARKETS IN CENTRAL JAVA : A... 1509
SHEEP PRODUCTION UNITS IN THE CENTRAL PUNA OF... 1428
SIMULATING THE DECISION MAKING PROCESS OF A... 1559
SMALL FARM EQUIPMENT TECHNOLOGY TRANSFER TO... 1521
SMALL FARMER DECISION MAKING : AN ECONOMIC... 1543
SMALL RUMINANT PRODUCTION ON SMALL FARMS IN WEST 1431
SOCIAL SCIENCE RESEARCH AT THE INTERNATIONAL... 1678
SOCIAL SCIENTISTS AS AGRICULTURAL RESEARCHERS... 1665
SOCIO-ECONOMIC ASPECTS OF AGRICULTURAL... 1491,1544
SOCIO-ECONOMIC ASPECTS OF DAIRYING IN DEVELOPING 1508
SOCIOECONOMIC CONSTRAINTS TO THE PRODUCTION.... 1376
SOCIOLOGY OF PASTORALISM AND AFRICAN LIVESTOCK.. 1425
SOIL AND WATER CONSERVATION AND MANAGEMENT IN... 1467
SOME CLIMATOLOGICAL FEATURES OF THE SEMI-ARID... 1461
SOME CONSIDERATIONS IN YIELD GAP RESEARCH. 1549,1613
SOME ECOLOGICAL ASPECTS OF FARMING SYSTEMS IN... 1456
SOME PROBLEMS IN THE IMPLEMENTATION OF... 1639
SOME RESOURCE INTERACTIONS AND ECONOMIC... 1440
SOUTH PACIFIC AGRICULTURAL RESEARCH STUDY... 1658
SOUTHERN FULANI FARMING SYSTEM IN UPPER VOLTA... 1424
STATE-OF-THE-ARTS PAPER (SOAP) ON TECHNIQUES OF. 1379
STATUS AND CHALLENGE OF DRYLAND AGRICULTURE IN.. 1400
STATUS OF THE CROPPING SYSTEMS PROGRAM IN THE... 1674
STRATIFICATION : AN APPROACH TO... 1593
STUDY OF THE PROBLEMS OF DESTUMPING IN THE... 1420
SURVEY OF AGRICULTURAL RESEARCH IN THE SUDAN... 1503
SYNTHESIS AND EVALUATION OF DUAL-PURPOSE GOAT... 1630
SYSTEMS OF CROPPING IN THE DRY TROPICAL ZONE OF. 1416
SYSTEMS RESEARCH IN THE ARID ZONES OF MALI... 1434
TANK IRRIGATION IN CROSSCULTURAL PERSPECTIVE. 1493
TECHNICAL CHANGE AND THE SMALL FARMER IN... 1526
TECHNOLOGICAL CHANGE AND SMALL FARMS : A REVISED 1645
TESTING OF TECHNOLOGY WITH SMALL FARMERS IN... 1562
TESTS ON FARMERS' FIELDS : THE ICARDA... 1444
THEORETICAL LOOK AT A COUNTRY'S RESEARCH AND... 1642
TRADITIONAL AFRICAN FARMING SYSTEMS IN EASTERN.. 1369
TRANSFER OF CROP PRODUCTION TECHNOLOGY FROM... 1660,1661
TRANSFER OF TECHNOLOGY - OUTREACH PROGRAM OF... 1654
TRANSFER OF TECHNOLOGY FROM INTERNATIONAL... 1657
TRANSLATION OF STATION EXPERIMENTATAL WORK TO... 1591
TRENDS IN LABOR ABSORPTION AND EARNINGS : THE... 1567
TROPICAL FOREST SHEEP ON LEGUME FORAGE/FUELWOOD. 1422
TWO ASPECTS OF FARMING IN SAT UPPER VOLTA... 1442
UNDERSTANDING SMALL FARMERS : SOCIOCULTURAL... 1552
UNDERSTANDING THE PROCESS OF DESERTIFICATION... 1605
UNFORSEEN CONSEQUENCES OF INTRODUCING NEW... 1525
UPLAND AGRICULTURE AND CONSERVATION PROJECT... 1681
UPPER VOLTA : ENVIRONMENTAL UNCERTAINTY AND... 1436
USE OF PROGRAMMABLE CALCULATORS IN FARMING... 1599
USING THE CONCEPT OF AGROECOSYSTEM DETERMINANTS. 1608
VEGETABLE FARMING SYSTEMS IN CHINA : REPORT OF.. 1401
WAGE FUNCTIONS FOR DAILY LABOR MARKET... 1566
WATER-HARVESTING AND MANAGEMENT FOR FOOD AND... 1468
WATER-USE EFFICIENCY IN CROP PRODUCTION IN THE.. 1464
WOMEN AND TANZANIAN AGRICULTURAL DEVELOPMENT. 1560
WOMEN IN RICE FARMING. 1556
WOMEN, WORK, FOOD AND NUTRITION IN NYAMWIGURA... 1547
WOMENS ROLE IN DEVELOPMENT IN BOTSWANA : A STUDY 1529
WORKING WITHIN THE AGRICULTURAL ESTABLISHMENT... 1669
WORKSHOP ON PASTORALISM AND AFRICAN LIVESTOCK... 1438
YIELD GAP ANALYSIS IN DRYLAND AGRICULTURE... 1614

AHMAD, N..... 1455
ARNON, I..... 1464
AXINN, N.W..... 1649
BAKER, E.F.I..... 1405,1650,1651
BALASUBRAMANIAN, V..... 1363
BARAH, B.C..... 1511
BARGHOUTI, S..... 1505
BEETS, W.C..... 1402,1572
BERHE, T..... 1382
BERNSTEN, R..... 1597
BERNSTEN, R.H..... 1598,1599,1644
BIDINGER, P.D..... 1496
BIGGS, S.D..... 1472,1622
BINSWANGER, H.P..... 1548,1563
BISHOP, J..... 1439
BISHOP, J.P..... 1418,1422
BRONZI, P..... 1459
BROUGH, O.L..... 1652
BROWN, B.B..... 1529
BRUSH, S.B..... 1383
BYERLEE, D..... 1524,1607
CARROLL, C.R..... 1456
CASEY, F..... 1573
CHAPMAN, J..... 1645
CHARREAU, C..... 1416
CHOWDHURY, S.L..... 1384
CIMMYT..... 1653
COLFER, C.J.P..... 1574
COLLINSON, M.P..... 1406,1575,1576,1600
1623
COMPTON, J.L..... 1624
CONKLIN, F.S..... 1625
COSSINS, N.J..... 1423
CROPPING SYSTEMS WORKING GROUP 1482
CUMMINGS, R.W..... 1474,1654
DEBOER, A.J..... 1508,1520
DELGADO, C.L..... 1424
DESAI, S.N..... 1421,1475
DEVELOPMENT ALTERNATIVES, INC. 1655
DEWALT, B.R..... 1413
DEWALT, K.M..... 1500
DILLON, J.L..... 1577,1646
DIXON, P.B..... 1488
DOHERTY, V.S..... 1493
DOOLETTE, J.B..... 1414
EFFENDI, S..... 1365,1626
ELSTON, J..... 1460
EPSTEIN S., T..... 1494
EVERSON, E..... 1656
FARMING SYSTEMS RESEARCH SYMPOSIUM (1982 : KANSAS
STATE UNIVERSITY) 1627
FARMING SYSTEMS RESERACH SYMPOSIUM (2ND, 1982 :
MANHATTAN) 1578
FARMING SYSTEMS SEMINAR - WORKSHOP (1981 : LOS BANOS)
1579
FERGUSON, T.U..... 1403
FITZHUGH, H.A..... 1483
FLINN, J.C..... 1549,1613
FOOTE, R.J..... 1501
FORTMANN, L..... 1560
FRANCIS, C.A..... 1512,1657
FRUZZETTI, L.M..... 1531
FUEHRING, H.D..... 1385,1465
GALT, D..... 1628
GAMBLE, W.K..... 1658
GARMAN, C.F..... 1513
GARRETT, P..... 1629
GEDDES, H.J..... 1466
GERHART, J.D..... 1452
GHODAKE, R.D..... 1614
GIBBON, D..... 1366
GUSTYLA, L..... 1659
GOTSCH, C.H..... 1550
GUITARD, A.A..... 1386
GUTIERREZ A., N..... 1440,1532
GYPMANTASIRI, P..... 1387
HARDIN, L.S..... 1502
HART, R.D..... 1453,1533,1608,1630
1647
HARWOOD, R.R..... 1367,1660
HAVENER, R.D..... 1661
HAYAMI, Y..... 1564
HEROT, R.W..... 1568
HILDEBRAND, P.E..... 1404,1525,1534,1535,
1602,1615,1621,1632,
1662
HOBGOOD, H.H..... 1633
HONDURAS. SECRETARIA DE RECURSOS NATURALES.
1663,1664
HOROWITZ, M.M..... 1425
HORTON, D.E..... 1665
ICAZA G., J..... 1562
ICRISAT..... 1407,1616
ILCA..... 1426,1666
INTERNATIONAL CONFERENCE ON ECONOMIC ANALYSIS IN THE
DESIGN OF NEW TECHNOLOGY FOR SMALL FARMERS, CENTRO
INTERNACIONAL DE AGRICULTURA TROPICAL
1514,1536
INTERNATIONAL RICE RESEARCH INSTITUTE
1388
JAYASURIYA, S.K..... 1565
JUDY, W.H..... 1634
KAMPEN, J..... 1467
KAUL, R.N..... 1515
KEAN, S.A..... 1635
KIENE, W..... 1603
KIRKBY, R..... 1537
KIRWAY, T.N..... 1368,1538,1539
KRANTZ, B.A..... 1389,1390,1636

KRISHAN, A..... 1461
KRISHNAMCORTHY, C..... 1391
KSHIRSAGAR, K.G..... 1604
LABADAN, E..... 1392
LAGEMANN, J..... 1369
LEEUWRIK, P.M..... 1370
LIGHTFOOT, C..... 1371,1393,1580
LIGHTFOOT, C.W.F..... 1415
LITSINGER, J.A..... 1484
MARCIANO, V.P..... 1485
MARTINEZ, J.C..... 1617,1667
MARTINEZ-CASTILLA, D..... 1428
MATTHEWMAN, R.W..... 1540
MAXWELL, S..... 1372,1373,1419,1495
MAYER, J..... 1551
MCCOWN, R.L..... 1429,1441
MCDERMOTT, J.K..... 1609,1668
MCINTIRE, J..... 1442
MCINTOSH, J.L..... 1417
MCLEAN, G.W..... 1503,1516
MICHIE, B.H..... 1394,1669
MINK, S..... 1430
MITAWA, G.M..... 1408
MORENO, R.A..... 1470
MORSE, R..... 1523
MOSCARDI, E..... 1670
MYERS, L.E..... 1468
NARENDRAN, V..... 1374
NAVARRO, L.A..... 1637,1671
NORDBLOM, T.L..... 1443
NORMAN, D.W..... 1526,1541,1581-1585,
1638,1639
NORMAN, M.J.T..... 1375
NTSEANE, P..... 1542
NYGAARD, D..... 1444
OKIGBO, B.N..... 1395,1396,1586,1672
PACHICO, D.H..... 1543
PAIN, A. 19831..... 1471,1497
PENDLETON, J.W..... 1587
PERCY, M.J..... 1518,1519
PLUCKNETT, D.L..... 1673
POZO, M..... 1480
PRICE, E.C..... 1409,1410,1619
QUISUMBING, E.C..... 1411,1520,1640,1674
RAJENDRAN, S..... 1476
REDDY, V.R..... 1521
REEVES, E.B..... 1376,1490,1605
RHOADES, R.E..... 1590,1552,1606,1641
RIJKS, D..... 1462
ROELING, N.G..... 1504,1507
ROSALES, F.E..... 1397
RUSSELL, M.B..... 1469
RUSSO, S..... 1398
RUSSO, S.F..... 1446
RUTHENBERG, H..... 1377,1378
RYAN, J.G..... 1491,1544,1566
SABRANI, M..... 1431,1509
SAH, R.N..... 1454
SANCHEZ, P.A..... 1457,1477
SANDERS, J.H..... 1478
SANDS, M.W..... 1432,1433
SANUSI, N.A..... 1545
SAPIN, R..... 1553
SCHERER, F..... 1399,1492
SCHLUTER, M.G.G..... 1554
SCHMID, R..... 1561,1569
SCHULMAN, M.D..... 1591
SHANER, W.W..... 1592,1593
SHUMBA, E..... 1447
SINAGA, P.S..... 1522
SINGH, R.P..... 1555
SJO, J..... 1594
SLACK, D.C..... 1527
SMITH, J..... 1567
SMITH, M..... 1677
SOCIAL SCIENCE PLANNING CONFERENCE
1678
SOEDJANA, T.D..... 1448
SPENCER, D.S.C..... 1546
SPRAGUE, H.B..... 1400
SPURGEON, D..... 1510
STALLINGS, J.L..... 1379
STAUDT, K..... 1506
STUTLEY, C..... 1420
SWAMINATHAN, M.S..... 1556
SYAPIFUDDIN K., A..... 1479
TACHER, G..... 1679
TEJWANI, K.G..... 1458
THOMSON, E.F..... 1449
TILLMAN, A.D..... 1435,1486
TOPISSON, E..... 1547
TOLLENS, R..... 1595
TOURTE, R..... 1680
TRIPP, R..... 1620
VENGROFF, R..... 1436
VIRMANI, S.M..... 1463
WALKER, T.S..... 1412,1557,1558
WAUGH, R.K..... 1611,1642,1682
WEBSTER, C.C..... 1380
WERGE, R..... 1570
WERGE, R.W..... 1571
WESTPHAL, E..... 1381
WHELAN, W.P..... 1498,1499
WHYTE, W.F..... 1596
WINKELMANN, D..... 1612
WINROCK INTERNATIONAL..... 1437
ZANDSTRA, H..... 1683
ZANDSTRA, H.G..... 1621,1643
ZUCKERMAN, P.S..... 1559