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U.S. AID TITLE XII
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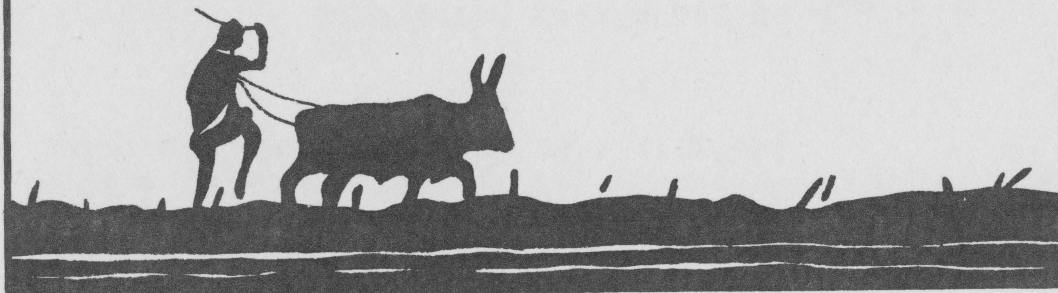
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Noel D. Young and Tod L. Meyn
Compilers and Editors

Paper No. 18
Spring 1989

FARMING SYSTEMS RESEARCH

PAPER SERIES



KANSAS STATE UNIVERSITY
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Resources for Developing Countries 1

**BOTSWANA AND BECHUANALAND ITEMS HELD
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**Noel D. Young and Tod L. Meyn
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**Paper No. 18
Spring 1989**

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

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

It goes on to describe FSR as:

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

"The major activities involved in FSR are:

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

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

FARMING SYSTEMS RESEARCH PAPER SERIES

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

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Vernon C. Larson
Director
International Agricultural Programs

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Noel D. Young

Librarian

Resources for Developing Countries

ABBREVIATIONS, ACRONYMS, AND INITIALISMS

ACD	?
ACIAR	Australian Centre for International Agricultural Research
AD	Agricultural Demonstrator, or Agricultural Development
ADN	Agricultural Development Ngamiland
ALDEP	Arable Lands Development Programme
ARAP	Accelerated Rainfed Arable Programme
ASA	American Society of Agronomy
ATIP	Agricultural Technology Improvement Project
BOSAD	Botswana Society for Agricultural Development
CFDA	Communal First Development Area
CIMMYT	Centro Internacional de Mejoramiento de Maiz y Trigo
DLFRS	Dryland Farming Research Scheme
DR	Drought Relief
EFSAIP	Evaluation of Farming Systems and Agricultural Implements Project
FS	Farming Systems
FSR	Farming Systems Research
FSR/E	Farming Systems Research [and] Extension
FSSR	?
IDRC	International Development Research Centre
IFPP	Integrated Farming Pilot Project
IGADD	Integrated Authority of Drought and Development
ILCA	International Livestock Center for Africa
INTSORMIL	International Sorghum/Millet
MIAC	Mid-America International Agricultural Consortium
MVRU	?
NDCC	?
NIR	National Institute of Development and Cultural Research
no.	number
OFR	On Farm Research ?
PID	Project Identification Number
RTC	Rural Training Center
SACCAR	Southern African Centre for Cooperation in Agricultural Research
SADCC	Southern African Development Coordination Committee
SR-CRSP	Small Ruminant-Collaborative Research Support Program
TGLP	Tribal Grazing Lands Policy
USAID	United States Agency for International Development
vol.	volume
WID	Women in Development

PARTS OF THE CITATION

- title
- 353 PREDICTION OF SORGHUM AND MILLET PROCESSING TIME FOR USE IN
THE ECONOMIC ANALYSIS OF ON-FARM TRIALS.
(ATIP Progress Report M87-3)
BW. 3.E.1.B.CC
- other title information
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- 232 DISTRICT COUNCILS IN BOTSWANA - A REMNANT OF LOCAL AUTONOMY.
IN: Journal of Modern African Studies. (Vol.17 no.2
p.285-308, 1979)
DT 1 .J68
- Library of Congress
Classification
- citation to larger work

FARMING SYSTEMS SUBJECT HEADINGS AND CLASSIFICATION

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

FARMING SYSTEMS SUBJECT HEADINGS AND CLASSIFICATION

- IV. HUMAN ELEMENT: ENDOGENOUS FACTORS (Household)
 - A. Goals and Risks
 - B. Economic Inputs
 - 1. Land
 - 2. Labor management
 - 3. Capital, finance
 - C. Economic Output
 - 1. Income
 - 2. Food
- V. FARMING SYSTEMS RESEARCH METHODOLOGY
 - A. Survey Techniques (descriptive and diagnostic methods)
 - B. Design of Improved Technology
 - C. Testing
 - D. FSR Methodology Extension and Transfer
 - E. Systems Analysis
- VI. INSTITUTIONAL FACTORS IN IMPLEMENTATION OF FARMING SYSTEMS RESEARCH

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BW. 1
- 2 1980 BOTSWANA AGRICULTURAL STATISTICS.
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- 3 1980 BOTSWANA AGRICULTURAL STATISTICS: CENTRAL REGION.
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- 4 1980 BOTSWANA AGRICULTURAL STATISTICS: FRANCISTOWN REGION.
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- 5 1980 BOTSWANA AGRICULTURAL STATISTICS: MAUN REGION.
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- 6 1982 BOTSWANA AGRICULTURAL CENSUS.
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- 9 AGRICULTURAL RESEARCH IN BOTSWANA.
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- 10 BOTSWANA'S AGRICULTURE IN THE LIGHT OF ASIAN EXPERIENCE: IDM
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- 11 CROP HUSBANDRY IN SOUTHERN BOTSWANA.
(Report of a Knowledge, Attitudes and Practices Study)
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- 12 CROP MANAGEMENT SURVEY TABLES.
BW. 1
- 13 DEVELOPMENT OF LIVESTOCK, AGRICULTURE AND WATER SUPPLIES IN BOTSWANA BEFORE INDEPENDENCE: A SHORT HISTORY AND POLICY ANALYSIS.
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1.A CROPPING PATTERNS

- 18 1984 COWPEA BASELINE SURVEY: TABLES AND SUMMARY FINDINGS FROM ATIP MAHALAPYE FARMERS.
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- 25 **TECHNICAL EVALUATION OF CULTIVATION PRACTICES: ATIP MAHALAPYE.**
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1.A.1 POLYCULTURE

- 26 **ANALYSIS OF ALTERNATIVE CROPPING SYSTEMS IN BOTSWANA AND OTHER FACTORS IMPACTING ON ARABLE PRODUCTION.**
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- 50 **FARMING SYSTEMS RESEARCH ON ANIMAL HUSBANDRY PROBLEMS IN TUTUME AGRICULTURAL DISTRICT OF BOTSWANA.**
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- 51 **GOAT PRODUCTION BY ATIP FARMERS DURING 1987 IN TUTUME AGRICULTURAL DISTRICT, BOTSWANA.**
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- 58 **LIVESTOCK INVENTORY CHANGES ON ATIP FARMS, TUTUME DISTRICT, BOTSWANA, 1984-86.**
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- 59 **LIVESTOCK MANAGEMENT IN SHOSHONG AND MAKAWATE.**
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- 60 LIVESTOCK MANAGEMENT SURVEY RESULTS, 1982.
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- 63 MATSITAMA/MOKUBILO COMMUNAL GRAZING PILOT PROJECT BASELINE
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- 68 SECOND LIVESTOCK DEVELOPMENT PROJECT: PROGRESS REPORT,
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- 71 TRANSHUMANCE: THE CASE OF BOTSWANA.
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- 72 **VETERINARY DIAGNOSTIC LABORATORY [AND] NATIONAL VETERINARY LABORATORY: ANNUAL REPORT, 1985.**
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- 73 **1986 DRAUGHT MANAGEMENT AND EARLY PLOUGHING TRIAL (RESEARCHER MANAGED/FARMER IMPLEMENTED).**
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- 75 **BEEF PRODUCTION AND RANGE MANAGEMENT IN BOTSWANA.**
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- 76 **CATTLE POST-LANDS INTERACTION STUDY.**
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- 77 **COMMUNAL AREA LIVESTOCK AND RANGE RESEARCH PRIORITIES: WORKSHOP PROCEEDINGS AND FINAL RECOMMENDATIONS.**
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- 78 **DRAUGHT ANIMAL MANAGEMENT AND EARLY PLOUGHING.**
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- 79 **DRAUGHT ARRANGEMENTS IN SHOSHONG AND MAKWATE.**
(ATIP Working Paper 16)
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- 80 **DRAUGHT MANAGEMENT FOR EARLY PLOUGHING.**
(ATIP Progress Report F84-3)
BW. 1.C
- 81 **DRAUGHT POWER IN BOTSWANA: I. THE DRAUGHT POWER PROBLEM IN PERSPECTIVE.**
(Paper presented at a workshop on Draught Power and Livestock Feeding in Eastern and Southern Africa; Mbababne, Swaziland, Oct. 4-6, 1983)
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BW. 1.C
- 83 DRY-SEASON SUPPLEMENTAL FEED FOR DRAUGHT ANIMALS IN CENTRAL AND TUTUME DISTRICT OF BOTSWANA.
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- 87 FARMING AND HERDING IN BOTSWANA.
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- 88 FARMING SYSTEMS RESEARCH ON ANIMAL HUSBANDRY PROBLEMS IN TUTUME AGRICULTURAL DISTRICT OF BOTSWANA.
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- 89 GROWING FODDER CROPS.
IN: Agrifacts, (Crop Husbandry, B/21/2)
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- 90 HANDBOOK OF BASIC ECOLOGY FOR RANGE MANAGEMENT IN BOTSWANA.
(Second Ed.)
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- 91 I.F.P.P. [INTEGRATED FARMING PILOT PROJECT] GRAZING GROUP STUDY.
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- 92 INTEGRATED PROGRAMME OF BEEF CATTLE AND RANGE RESEARCH IN BOTSWANA.
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- 93 LIVESTOCK AND GRAZING CONDITION, SEPT. 1988.
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- 94 LIVESTOCK AND RANGE RESEARCH IN BOTSWANA, 1983-1984.
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- 95 LIVESTOCK AND RANGE RESEARCH IN BOTSWANA, 1986.
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- 96 MAN AND CATTLE IN AFRICA: A STUDY OF SOCIAL CHANGE IN
PASTORAL SOCIETIES IN BOTSWANA.
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- 97 NATIONAL LAND MANAGEMENT AND LIVESTOCK PROJECT MONITORING
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- 98 PRELIMINARY RANGE UTILIZATION STUDIES WITH SPECIAL REFERENCE
TO WESTERN NGWAKETSE.
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- 99 RECOMMENDATION DOMAINS FOR DISTRICTS IN CENTRAL AND
FRANCISTOWN REGIONS OF BOTSWANA: FINAL REPORT.
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- 100 SYSTEM OF MAFISA AND THE HIGHLY DEPENDENT AGRICULTURAL
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BW. 1.C
- 101 TRACTION USE IN SHOSHONG AND MAKAWATE.
BW. 1.C
- 102 USING DONKEYS FOR DRAUGHT POWER.
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- 103 USING FODDER CROPS AND CROP RESIDUES FOR LIVESTOCK FEEDING.
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2 PHYSICAL AND BIOLOGICAL FACTORS

- 104 AGRICULTURAL RESEARCH IN BOTSWANA, 1960-68.
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- 105 ANNUAL REPORT FOR THE DIVISION OF ARABLE CROPS RESEARCH,
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- 106 **ANNUAL REPORT FOR THE DIVISION OF ARABLE CROPS RESEARCH, 1983-84.**
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- 117 EVALUATION OF FACTORS AFFECTING SORGHUM YIELD ON FARM DURING DROUGHT IN BOTSWANA AND POTENTIAL YIELD IMPROVEMENT USING CONVENTIONAL TILLAGE-PLANTING OPTIONS.

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- 120 GLOSSARY OF TERMS USED IN RANGE ECOLOGY, SOIL CONSERVATION, SOIL SCIENCE, AND LAND USE PLANNING.

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- 135 **IMPROVEMENT OF THE WATER SUPPLY FOR FLOOD RECESSION FARMING IN THE MOLAPO BELT BETWEEN MAUN AND SHOROBÉ AND IN THE THAOGE AREA.**
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- 362 **BOTSWANA AGRICULTURAL TECHNOLOGY IMPROVEMENT: PROJECT IDENTIFICATION DOCUMENT (PID).**
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- 414 PETROLEUM PROSPECTS OF BOTSWANA.
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- 430 **INTEGRATED FARMING PILOT PROJECT: FARM MANAGEMENT AND STATISTICS REPORT, 1979/80.**
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