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FOOD SECURITY IN AFRICA COOPERATIVE AGREEMENT

Between

Africa Bureau, Office of Technical Resources, AID

Bureau of Science and Technology, Office of Rural and Institutional Development, AID

Department of Agricultural Economics, Michigan State University

Project Fact Sheets

October 1988

FACT SHEET - FOOD SECURITY IN AFRICA COOPERATIVE AGREEMENT

Cooperating Institutions and Funding Sources:

AID/Bureau of Science and Technology: Contact Person, Michael Yates, ST/RD/ASI

AID/Africa Bureau: Contact Person, Thomas Hobgood, AFR/TR/ARD

USAID Field Missions, Host Country Institutions, Department of Agricultural Economics--MSU

MSU Faculty and Research Assistants Involvement: Mike Weber (Director), Rick Bernsten, Eric Crawford, John Holtzman, Harold Riley, Jim Shaffer, John Staatz, Josue Dione, Stephan Goetz, Bruno Henry de Frahan, Thomas Jayne, David Rohrbach, Scott Loveridge, Phil Steffen, Yassin Wehelie, and others as topics and opportunities arise.

Purpose of the Agreement:

The central purpose of the project is to assist African countries in formulating alternative institutions and management processes that deal with critical short- and medium-term food security problems and that are consistent with longer-term strategies for achieving more reliable, productive and dynamic food systems that benefit both producers and consumers. Specifically, the project will:

1. develop new knowledge, operational approaches and analytical methods that enhance the ability of governments to identify problems, analyze program alternatives, and formulate strategies that achieve food security goals; and
2. develop new understanding of how to upgrade institutional and professional capabilities for improving national food systems.

Applied Research Themes:

A. Primary Focus:

1. The interaction of technological change, institutional reforms and macro-level policy in overcoming food production and marketing constraints.

B. Secondary Focus:

1. Managing foreign exchange, food imports and food aid to achieve food security goals.
2. Planning and prioritizing policy research and analytical requirements to achieve food security goals.
3. Data and analysis needs for food security planning.

Operationalizing the Applied Research: Country Studies.

1. **Southern Africa**--Analysis of maize, wheat and groundnut subsectors in Zimbabwe in order to provide policy makers with an understanding of micro and macro food security policy issues, tradeoffs and alternatives. Develop methodological modules for undertaking food grain subsector studies in other SADCC states. Analysis of managing food production, national grain reserves and trade in the SADCC region. Developing indigenous capacity for food security policy analysis.
2. **Senegal**--Analysis of the response of cereals producers and market participants to privatization of input and output marketing: a micro-macro level analysis.
3. **Mali**--Analysis of the effects of reforms in the markets for millet, maize, and sorghum on the willingness and capacity of participants to invest in improving the food system.
4. **Rwanda**--Analysis of the effects of existing and alternative price formation processes on market performance and food security.
5. **Somalia**--Analysis of the effects of selected market, institutional, and technological variables on the investment and production decisions of maize and sesame producers in the Shebelli region, and the implications of these decisions for food security in Somalia.

Examples of Research Results:

- A. Senegal and Mali--Impact of liberalization on farmgate prices and on farmers' access to inputs and to market outlets.
- B. Mali--Effects of cash cropping and animal traction on household food security; factors affecting adoption of improved cowpea varieties.
- C. Rwanda--Impact of nonfarm activities on farm families household food security; effects of bean imports on price policy.
- D. Zimbabwe--Factors responsible for significant increases in smallholders' production and marketings of maize.
- E. Somalia--Yield-gap analysis for irrigated maize, effects of inputs and output market options
- F. Southern Africa--Analysis to support SADCC's new food and agricultural policy.

FACT SHEET - MALI STUDY

FOOD SECURITY IN AFRICA COOPERATIVE AGREEMENT

Department of Agricultural Economics

Michigan State University

March 1988

1. Cooperating Institutions:

USAID/Bamako

Technical Secretariat of the Food Sector Strategy Commission (ST/CESA)

Institute of Rural Economics/Farming Systems Division (IER/DRSPR)

Department of Agricultural Economics, MSU

2. Researchers Involved:

ST/CESA: Moussa Kalifa Traoré, Niama Nango Dembélé, Daouda Keita, Oumou Mariko, and Kadian Doumbia

IER/DRSPR: Moussa Diarra, Josué Sagoba, Joussef Cissé

MSU In-Country Researcher: Niama Nango Dembélé, Phil Steffen, Bruno Henry de Frahan

MSU Campus Backstop: John Staatz and Josué Dioné

3. Objective of the Research:

ST/CESA - Analyze the effects of reforms in the markets for millet, maize and sorghum on the willingness and capacity of participants to invest in improving the food system.

IER/DRSPR - Analyze factors affecting the payoff to agricultural research in Mali, especially to analyze the costs and benefits of expanding farming systems research into the Fifth Region of Mali.

4. Research Approach:

- The data generated by the MSU-CESA Food Security Project cover a large set of market conduct and performance indicators, including: (a) monthly coarse grain transactions (sales, purchases, barter and gifts) for a sample of 190 farmers distributed among 16 villages in 4 rainfall subzones in the south of the country (CMDT and OHV zones); (b) weekly transaction data for the main rural market of each of the 4 subzones; and, (c) monthly transaction data for a sample of 101 grain wholesalers in 4 major cities (Bamako, Mopti, Sikasso and Koutiala).
- Several single visit surveys have been carried out to gather information on farmers' strategies for coping with their own food security (available resources, activities and means to meet food needs, major constraints that jeopardize their food situation, major policy and technological factors that enhance their food security, etc.); traders' resources, constraints, and strategic behavior, especially in response to the risk and uncertainty that traders face from unexpected policy changes and supply variability; and the interactive effects of different macro-level policies (fiscal, credit, pricing, extension, etc.), on both traders' and farmers' strategies with respect to their production and marketing activities.
- Interviews with policy makers and management staff in parastatal agencies.

- The surveys conducted with IER/DRSPR will begin with a rapid farm-level reconnaissance in the Fifth Region to develop an inventory of priority production problems (research areas) for major production systems; constraints to production (marketing, availability of inputs, etc.) and possible solutions.
- Develop farm-level data and budgets from a combination of secondary sources and detailed interviews with a sample of farmers drawn from rapid reconnaissance villages. These will include information on farm-level investments needed to adopt technologies that would be likely to be available, and the net returns resulting from the adopted technologies.

5. Outputs to Date

A. Working Papers (see attached list)

B. Seminars

In Mali the food security team has presented seminars to:

- i. The Food Sector Strategy Commission (in July, 1985; August, 1986; and December, 1986);
- ii. The technical committee of the Cereals Market Restructuring Project (PRMC) (in February and March, 1986; December, 1986; and May, 1987); and
- iii. USAID/Bamako (in May, 1986; December, 1986; and May 1987).
- iv. Ongoing presentations to Malian government agencies, USAID/Bamako, and other donor groups working on food policy in Mali.
- v. Briefings of Malian participants in the "Debat National sur le PRMC." (June, 1987)

In the U.S., seminars on the research have been presented to:

- i. All-University Faculty Seminar, MSU (February, 1986);
- ii. Economic Development Workshop, Dept. of Economics, MSU (May, 1986)
- iii. Dept. of Agricultural Economics, Cornell University (May, 1986);
- iv. USAID/W, Bureau of Science and Technology and Bureau for Africa (May, 1986), Niles Brady, Director of Bureau of Science and Technology (February, 1987)
- v. University of Michigan, Institute of Public Policy Studies, Annual Policy Conference (March, 1987).

c. Other

- i. Participation in a special program on Malian television on the Cereals Market Restructuring Project (September, 1986).
- ii. Consultant to the Malian producer of radio and television programs on the PRMC.
- iii. Provision of monthly rural market data to CILSS food security monitoring project in Ouagadougou.
- iv. Briefings of numerous USAID and other donor-sponsored consultants, including Bremer and Elsworth (USAID/Mali consultants evaluating the PRMC) and DAI/Robert Nathan Associates team sent to Mali by the Africa Bureau to assess cereals marketing liberalization.
- v. Data and analysis provided to IFAD for the design of seasonal credit program for farmers.

FACT SHEET - RWANDA STUDY

FOOD SECURITY IN AFRICA COOPERATIVE AGREEMENT

Department of Agricultural Economics

Michigan State University

March 1988

1. Cooperating Institutions:

OAR/Rwanda

Ministry of Agriculture, Agricultural Survey and Statistical Service "SESA"

Department of Agricultural Economics, MSU

2. Researchers Involved:

SESA: Serge Rwamasirabo, Jean Chrysostome Mukezangango, Jean Leonard Ngirumwami, Theobald Kampayana, and Yvan Dejaegher

MSU In-Country Researcher: Scott Loveridge

MSU Campus Backstop: Mike Weber and Jim Shaffer

3. **Objectives of the Research:** The two major objectives of this research are: 1) to develop information and analytical procedures which will contribute to understanding of important policy questions related to the interaction of production, marketing, pricing and food security issues for selected storable commodities in Rwanda; 2) to contribute to the development of a framework and analytical capacity for future food security analysis in Rwanda, and the specification of anticipated data requirements.

4. Research Approach:

- Study components include national markets, farmers, merchants, and selected public programs and policies. For each component a series of systematic surveys will obtain either existing secondary information or new primary data from a sample of participants.
- A majority of the surveys are focused on relatively limited samples and maximize the involvement of analysts in understanding how the selected food system components operate and relate to each other. Four focused surveys will be added to SESA's on-going national sample survey.

5. Outputs to Date:

A. Working Papers: (see attached list)

B. Seminars/Conferences:

1. In Rwanda, the food security team has made presentations at:
 - Briefing sessions for EEC Marketing Study researchers.
 - Briefing sessions for USAID/Kigali officials on various occasions.
 - Presentations and Collaboration with Ministry of Plan and Finance Project on Enterprise and Employment Policy in Rwanda.
 - The FAO/USAID/ADAAPSO Conference on Food Policy in Francophone Africa, Dakar, March 30 - April 3, 1987.

- Workshop on Bean Price and Research Policy for Selected Rwandan Researchers, March, 1987.
 - Conference on Improving the Understanding of Production and Marketing of Selected Food Products in Rwanda, organized by Ministry of Agriculture for representatives of various Rwandan agencies and donor officials, May 27, 1987.
 - Conference on Production and Marketing of Sorghum, organized by Ministry of Agriculture for representatives of various Rwandan agencies and donor officials, April 1988.
2. In the U.S., presentations on the research have been made to:
- USAID officials in Africa Bureau, S & T, and PPC staff on 3 different occasions.
 - University of Minnesota - Rwanda Bean Storage Project Researchers.
 - M.S.U. students and faculty on 3 separate occasions in workshops and lectures.

FOOD SECURITY PROJECT IN MALI

MSU - CESA

List of Working Papers

Copies of these reports can be obtained from:

Acquisitions Department
Agency for International Development
PPC/CDIE/DI
209 SA-18
Department of State
Washington, DC 20523

Number

- 86-01 DIONE, Josué; Niama Nango DEMBELE et Mme. Oumou MARIKO.
Evolution et Situation Actuelle du Projet d'Etude sur
la Sécurité Alimentaire au Mali. Document de Travail
No. 86-01. Projet Sécurité Alimentaire CESA- MSU -
Ministère de l'Agriculture, Bamako. Février 1986.
- 86-02 DEMBELE, Niama Nango et Josué DIONE.

Description des Circuits Céréaliers au Mali et
Analyse des Données Secondaires de Prix des Céréales
(Mil-Sorgho-Maïs). Document de Travail No. 86-02.
Projet Sécurité Alimentaire CESA-MSU - Ministère de
l'Agriculture, Bamako. Mars 1986.
- 86-03 DIONE, Josué et Niama Nango DEMBELE.

Analyse Provisoire de la Campagne de
Commercialisation 1985-1986 des Céréales (Mil-Sorgho-
Maïs). Document de Travail No. 86-03. Projet
Sécurité Alimentaire CESA-MSU - Ministère de
l'Agriculture, Bamako. Août 1986.
- 86-04 DEMBELE, Niama Nango; Josué DIONE et John M. STAATZ.

Description et Analyse de la Structure du Marché des
Céréales (Mil-Sorgho-Maïs) au Mali. Document de
Travail No. 86-04. Projet Sécurité Alimentaire
CESA-MSU - Ministère de l'Agriculture, Bamako.
Septembre 1986.

1

- 86-05 DEMBELE, Niama Nango; Josué DIONE et John M. STAATZ.
- Description et Analyse du Comportement et de la Performance du Marché des Céréales (Mil-Sorgho-Mais) au Mali. Document de Travail No. 86-05. Projet Sécurité Alimentaire CESA-MSU - Ministère de l'Agriculture, Bamako. Septembre 1986.
- 86-06 DIONE, Josué.
- Stratégies de Vente, d'Achat et d'Endettement Céréalières des Producteurs Agricoles : Note d'Information sur Quelques Eléments du Document de Travail No. 86-06. Projet Sécurité Alimentaire CESA-MSU - Ministère de l'Agriculture, Bamako. Décembre 1986.
- 87-01 DIONE, Josué et Niama Nango DEMBELE.
- Le Programme de Restructuration du Marché Céréalière au Mali (PRMC): Une Analyse de ses Objectifs, son Fonctionnement et ses Réalisations. Document de Travail No. 87-01. Projet Sécurité Alimentaire CESA-MSU - Ministère de l'Agriculture, Bamako. Février 1987.
- 87-02 DIONE, Josué.
- Production et Transactions Céréalières des Producteurs Agricoles - Campagne 1985/86. Document de Travail No. 87-02. Projet Sécurité Alimentaire CESA-MSU - Ministère de l'Agriculture, Bamako. Avril 1987.
- 87-03 DIONE, Josué and John STAATZ.
- Market Liberalization and Food Security in Mali. Paper presented at the Third Annual Conference on Food Security in Southern Africa, University of Zimbabwe, Harare, November 1-5, 1987. CESA-MSU Food Security Project Working Paper No. 87-03.

- 87-04 DEMBELE, Niama Nango et Philip STEFFEN.
- Evaluation Conjointe des Programmes de Crédit PRMC aux Associations Villageoises et aux Commerçants Privés: Campagne Agricole 1986/87. **Document de Travail No. 87-04**, Projet Sécurité Alimentaire CESA-MSU - Ministère de l'Agriculture, Bamako. Novembre 1987.
- 88-01 DEMBELE, Niama Nango et Philip STEFFEN.
- Approche Méthodologique pour la Mise en Place d'un Système d'Information au Mali. **Document de Travail No. 88-01**, Projet Sécurité Alimentaire CESA-MSU - Ministère de l'Agriculture, Bamako. Mars 1988.
- 88-02 STEFFEN, Philip et Niama Nango DEMBELE.
- Une Critique des Rôles Alternatifs pour l'OPAM sur le Marché Céréaliier à travers un Paradigme des Biens Publics. **Document de Travail No. 88-02**, Projet Sécurité Alimentaire CESA-MSU, Ministère de l'Agriculture, Bamako. Août 1988.
- 88-03 DEMBELE, Niama Nango.
- Quelques Eléments de Performance de la Commercialisation Privée des Céréales (Mil-Maïs-Sorgho) au Mali. **Document de Travail No. 88-03**, Projet Sécurité Alimentaire CESA-MSU, Ministère de l'Agriculture, Bamako. Juillet 1988.
- 88-04 STEFFEN, Philip et Kassim KONE.
- Les Capacités du Secteur Privé et les Responsabilités du Secteur Public dans le Ravitaillement en Céréales des Zones Déficitaires du Nord et de l'Est du Mali; Analyse pour une Sécurité Alimentaire. **Document de Travail No. 88-04**, Projet Sécurité Alimentaire CESA-MSU, Ministère de l'Agriculture, Bamako. Octobre 1988.

FOOD SECURITY IN AFRICA COOPERATIVE AGREEMENT
Department of Agricultural Economics
Michigan State University

RWANDA STUDY - PUBLICATIONS

- Bylenga, Sharon, and Scott Loveridge. "Intégration Régionale des Prix Alimentaires au Rwanda, 1970-1986."
- Bylenga, Sharon, and Scott Loveridge, "Regional Integration of Food Prices in Rwanda, 1970-1986", May 1987.
- Dejaehger, Yvan, and Ngarambe Octavien, "La Production de Certaines Cultures Vivriers: La Sécheresse 1984 Comparée à une Année Normale (1986). la Répartition Mensuelle de la Production Agricole et son Impact Possible sur la Stratégie Alimentaire", 27 May, 1987.
- Loveridge, Scott, Yvan Dejaehger, and Serge Rwamasirabo. "Problématique du Niveau des Transactions du Haricot au Rwanda: Résultats de Six Mois d'Observations."
- Loveridge, Scott, and Michael T. Weber, "Relationships Between Food Production, Marketing, and Farmer Perceptions in Five Prefectures of Rwanda."
- Loveridge, Scott, and J. Leonard Ngirumwami, "Caractéristiques Descriptives des Commerçants des Produits Vivriers Operant sur des Places Fixes dans Cinq Préfectures du Rwanda."
- Loveridge, Scott, et. al., "Results of a Survey on Farm Level Sorghum Marketings". English draft version of a working paper in French, presented in Kigali. April 5, 1988.
- Loveridge, Scott, et. al., "Résultats d'une Enquête sur le Niveau de Commercialisation du Sorgho a l'Echelon du Producteur". Kigali. April 5, 1988.
- Loveridge, Scott, with Krista C. Dessert, "Relationships Between Bean Marketings and Bean Production Techniques: A Study of Fifteen Farms in the Prefecture of Kigali."
- Mukezangango, J. Chrysostome, "Enquêtes sur les Prix: Description des Séries des Prix Déjà Existants."
- Rwamasirabo, Serge, Kampayana Théobald, and Scott Loveridge, "Résultats d'une Enquête sur le Niveau de Commercialisation du Haricot a l'Echelon du Producteur", May 1987.
- SESA/MSU Research Team, "Observations on Price Support and Research Programs for Beans in Rwanda". March 1987.
- SESA/MSU Research Team, "Quelques Observations sur les Programmes de Fixation du Prix Plancher et Recherche sur le Haricot au Rwanda". March 1987.

SESA/MSU Research Team, "Production, Markets, Prices and Food Security Relationships Among Selected Commodities in Rwanda: A Research Program Overview."

SESA/MSU Research Team, "Relations Entre la Production, la Commercialisation, les Prix et la Sécurité Alimentaire de Certains Produits Vivriers Stockables au Rwanda."

Kampayana, Théobald, "Attitudes, Experiences, Conditions, et Stratégies des Exploitants: Distributions de Fréquence Résultant d'une Enquête Ponctuelle auprès des Ménages Ruraux", 1987.

Ministère du Plan, République Rwandaise.

Enquête Nationale sur le Budget et la Consommation des Ménages - Milieu Rural (Nov. 1982 - Déc. 1983)

Volume 1, Nov. 1986:

"Présentation Méthodologique de l'Echantillon et de la Collecte en Milieu Rural".

Volume 2, Nov. 1986:

"Structure du Budget des Ménages".

Volume 3, Mai 1988:

"La Consommation Finale et les Sources de Revenu des Ménages Ruraux".

Ministère des Finances et de l'Economie
Direction Générale de la Politique Economique
B.P. 476
Kigali, Rwanda

WORKING PAPERS OF THE PRIME PROJECT
INVESTMENT INCENTIVES STUDIES

1. The Textile Garment Subsector in Rwanda, by Steve Haggblade, September, 1986 (F, E).
2. The Wood Subsector in Rwanda, by Donald Mead and Augustin Ngirabatware, March, 1987 (F).
3. The Structure of Interest Rates in Rwanda, by Donald Mead and Augustin Ngirabatware, April, 1987 (F).
4. The Financial Sector in Rwanda, by Susan Goldmark, November, 1986 (F, E).
5. Opportunities for Enhancing Performance in Rwanda's Alcoholic Beverage Subsector, by Steve Haggblade with assistance of Nicholas Minot, August, 1987 (F, E)
6. Employment in Rwanda: A Review and Synthesis of Existing Information, by Nguyen-Huu Khiem, December, 1987 (F).
7. A Study of the Construction Materials Subsector in Rwanda, by Nguyen-Huu Khiem, June, 1988 (F).
8. A Study of the Construction Subsector in Rwanda, by Nguyen-Huu Khiem, June, 1988 (F).
9. Medium and Large Private Manufacturing Firms in Rwanda: Diagnostic Study of Current Situation and Policy Impact, by Augustin Ngirabatware, Leonidas Murembya and Donald Mead, August 1988 (F, E).

F = Available in French

E = Available in English

FACT SHEET -- SENEGAL STUDY

FOOD SECURITY IN AFRICA COOPERATIVE AGREEMENT

Department of Agricultural Economics
Michigan State University

March 1988

1. Cooperating Institutions:

USAID/Dakar

Institut Sénégalais de Recherches Agricoles (ISRA), Bureau d'Analyses Macro-Economiques (BAME), Dakar

Department of Agricultural Economics, MSU

2. Researchers Involved:

- Senegalese Research Coordinator: Léopold Sarr (ISRA)
- MSU In-Country Researcher: Stephan Goetz
- Senegalese Researchers: Bocar Diagana, Abdoulaye Fall
- MSU Campus Backstop: Eric Crawford, John Holtzman, Jim Shaffer, John Staatz, Margaret Beaver
- USAID/Dakar Backstop: Moribajan Keita.

3. Objective of the Research:

Analyze the response of cereals producers and market participants (private traders, parastatal development agencies, farmer organizations) to privatization of input and output marketing.

4. Research Approach:

- Surveys of markets, private traders, farmers, and farmer organizations. Area covered = south-east Senegal.
- Interviews of policy makers, traders, and management staff in farmer organizations and parastatal agencies.

5. Outputs to Date:

a. Working Papers: (see Executive Summary)

b. Seminars/Conferences.

1. In Senegal, the food security team has made presentations at:

- the FAO/USAID/ADAAPSO Conference on Food Policy in Francophone Africa, Dakar, March 30-April 3, 1987.

Paper presented was: B. Diagana, A. Fall, and S. Goetz, "Observations Préliminaires sur le Système Agro-Alimentaire dans les Régions Orientales du Sénégal."

- USAID/Dakar, November 1986, February 1987, July 1987, and December 1987

2. In the U.S., presentations on the research have been made to:

- AID/Washington Workshop on Cereals Policy in the Sahel, Africa Bureau, Office of Sahel and West African Affairs, Thursday, Oct. 8, 1987.
- Department of Agricultural Economics, MSU.
- Rockefeller Foundation

FACT SHEET - SOMALIA STUDY

FOOD SECURITY IN AFRICA COOPERATIVE AGREEMENT

Department of Agricultural Economics

Michigan State University

March 1987

1. Cooperating Institutions:

USAID/Mogadishu

Ministry of Agriculture, Planning Division, Mogadishu

Department of Agricultural Economics, MSU

2. Researchers Involved:

Ministry of Agriculture, Planning Division: Abukar Osman Abikar (Director),

National Extension Service: Hussein Iman.

Somali National University, Faculty of Agriculture: Mohamud Ibrahim Asser, Mohammed Osman Farah.

MSU In-Country Researcher: Yassin Wehelie

MSU Campus Backstop: John S. Holtzman, Michael T. Weber

3. Objectives of the Research: Analysis of the effects of selected market, institutional, and technological variables on the investment and production decisions of maize and sesame producers in the lower and middle Shebelli regions and the implications of those decisions for food security in Somalia.

4. Research Approach:

- Study components include regional markets (in Southern Somalia), farmers, traders, and selected public programs and policies. Formal surveys are being implemented to gather data on agricultural product and input prices, and producer and trader resources, behavior and constraints. Informal surveys are conducted with selected policy makers, donor agencies and development project managers.
- Assemble, analyze, and examine the consistency of available secondary data on national/regional/district production of maize, agricultural commodity prices, imports, food aid, ADC (Agricultural Development Corporation) operations, and technology adoption and impacts.

5. Outputs to Date:

A. Working Papers

Abikar, Abukar Osman. "An Assessment of the Impact of Agricultural Marketing Liberalization on Performance of Cereal Subsector in Somalia," Working Paper No. 4, April 1987.

Asser, Mohamud Ibrahim. "Maize and Sesame Marketing and Trader Characteristics," Working Paper No. 7, December 1987.

Asser, Mohamud Ibrahim, Ahmed Mohamud Ga'al, and Yassin J. Wehelie. "Retail and Wholesale Maize Price Trends Between September 1986 to April 15, 1987," Price Report No. 1, May 1987, Market Report Series.

Holtzman, John S. "Maize Supply and Price Situation in Somalia: An Historical Overview and Analysis of Recent Changes," Working Paper No. 5, May 1987.

Iman, Hussein M. "Maize and Sesame Technology Adoption and Constraints, Working Paper No. 7, December 1987.

- MOA/Directorate of Planning/MSU Research Team. "Proceedings of Workshop on Food Security Planning and Policy," Held at the Ministry of Agriculture in Mogadishu on May 31, 1987.
- Wehelie, Yassin J. "Maize Price Seasonality: An Analysis of Monthly Retail Maize Prices in Mogadishu from January 1979 to December 1986 (with 1987 Maize Forecast Prices)," Working Paper No. 1, January 1987.
- Wehelie, Yassin J. and Mohamed Osman Farah. "The Situation of Farm Inputs in Somalia," Working Paper No. 8, December 1987.
- Wehelie, Yassin J. and John Holtzman. "Primary Agricultural Characteristics of Maize and Sesame Producing Villages in the Middle and Lower Shebelle Regions," Working Paper No. 3, March 1987.
- Wehelie, Yassin J. and Furhana Wehelie. "Changes in Urban Maize Consumption Patterns," Working Paper No. 2, February 1987.
- Wehelie, Yassin, Mohamud Ibrahim Asser, Katie Baird, John S. Holtzman, Mohamed Osman Farah, and Michael T. Weber. "Selected Food Security Research Findings: A Seminar Discussion Paper." November 1987.

B. Seminars/Conferences

1. In Somalia, the Food Security Team has made presentations at:
 - Briefing of Ministry of Agriculture senior officials on several occasions.
 - Briefing sessions for USAID officials on various occasions.
 - "Food Security Planning and Policy Workshop," Ministry of Agriculture, May 31, 1987. Workshop participants included representatives of Ministries of Agriculture, National Planning and Finance, the National Extension Service, the Center for Agricultural Research in Somalia (CARS), FAO, World Food Programme, Finnish Aid, UNCDF (Capital Development Fund), World Bank, and USAID.
 - "Second Food Security Planning and Policy Workshop," Ministry of Agriculture, November 1987.
 - Briefing of USAID/DAI/Robert Nathan team that examined the impact of structural adjustment programs and agricultural policy reform on the performance of the agricultural sector in Somalia, December 1986/January 1987.
 - Briefings of other researchers in Somalia, including University of Wisconsin, Land Tenure Center, SARSA Cooperative Agreement, and Bay Region Agricultural Development Project.
2. In the U.S., presentations on the research have been made to:
 - USAID officials in the Africa Bureau, S & T, and PPC on three different occasions.
 - Rockefeller Foundation.
 - MSU students and faculty on two separate occasions in workshops and lectures.

FACT SHEET - SOUTHERN AFRICA STUDY

FOOD SECURITY IN AFRICA COOPERATIVE AGREEMENT

Department of Agricultural Economics

Michigan State University

March 1988

1. Cooperating Institutions:

Faculty of Agriculture, University of Zimbabwe; SADCC Food Security Administrative Unit, Ministry of Lands, Agriculture and Rural Resettlement, Harare and USAID/Southern Africa Regional Program, Harare.

2. Researchers Involved:

Co-Directors: Mandivamba Rukuni, University of Zimbabwe and Richard H. Bernsten, Michigan State University.

Research Staff: University of Zimbabwe: Mandivamba Rukuni, Godfrey Mudimu, Jayne Stanning, Charles Mbwanda, Koops Mlambo, Charles Chopak and David Kingsbury.

Research Associates: Solomon Chigume, Jones Goverch, and Joseph Ruskie, Department of Agricultural Economics and Extension, University of Zimbabwe.

MSU in-Country Researchers: Richard H. Bernsten and Charles Chopak

MSU Campus Backstop: Mike Weber and James Shaffer.

3. Objectives of Research:

Analysis of maize, wheat, oilseed and small grain subsectors in order to provide policy makers with an understanding of micro and macro food security policy issues, tradeoffs and alternatives. Analyze and develop methodological modules for undertaking food grain and oilseed subsector and market change studies in SADCC states. Analysis of managing food production, marketing, stocks, and trade in the SADCC region. Developing indigenous capacity for food security policy analysis.

4. Research Approach:

The Southern Africa research program involves several research thrusts, including:

A. Household Food Security

Analysis of national markets, farm households, merchants and selected public programs. For each component, secondary and primary data will be collected. The household research focuses on the maize, wheat, oilseed and small grain subsectors, particularly in low rainfall natural regions. Initial research on these topics is being conducted in Zimbabwe.

B. Food Access

Analysis of institutional innovation to provide an adequate food supply to at risk households; including food for work and supplemental feeding for children under five years, indigents, and pregnant and nursing mothers. Initial research on this topic is being conducted in Botswana.

C. Market Changes

Analysis of the effects of recent changes in market policies and institutions, especially on population groups of greatest nutritional risk. Initial research on this topic is being conducted in Malawi and Tanzania.

D. Expanded Grain Marketing and Trade in Southern Africa

Study of the Potential For and Barriers To Expanded Grain Marketing and Trade in the SADCC region.

5. **Expected Outputs - Tentative Topics to be Included in Working Papers, Reports, Papers; Monographs and Books.**

Research results will be presented as preliminary outputs during the initial project life, and revised for subsequent presentation and publication. The following list includes publications by researchers directly associated with the project and papers presented at the Food Security Conferences.

A. Working Papers/Articles

1. Rick Bernsten and David Rohrbach, "Inventory of Household Level Agricultural and Socio-Economic Data Sets, in Zimbabwe," August 15, 1985.
2. Jayne Stanning, "Factors of Change and Uncertainty in the Contribution of Small Scale Producers to Marketed Agricultural Output in Zimbabwe," paper presented at the XIXth Conference of the International Association of Agricultural Economists, Malaga, Spain, August 25-September 5, 1985.
3. Carl K. Eicher and John M. Staatz, "Food Security Policy in Sub-Saharan Africa," paper presented at the XIXth Conference of the International Association of Agricultural Economists, Malaga, Spain, August 25-September 5, 1985.
4. Carl K. Eicher, "An Assessment of the CGIAR System in Africa," paper presented at the Annual Meeting of the Consultative Group on International Agricultural Research," Washington, D.C., October 28-29, 1985.
5. Carl K. Eicher, "Famine Prevention in Africa: The Long View," in: Food for the Future: Proceedings of the Bicentennial Forum Held at Philadelphia, November 6, 1985, pp. 82-101.
6. Brian Child, Kay Muir and Malcolm Blackie, "An Improved Maize Marketing System for African Countries: The Case of Zimbabwe," Food Policy, pp. 365-373.
7. G. Homewood and M.J. Blackie, "Grain Marketing in Southern Africa: Illustrations from the Zimbabwe Grain Marketing Board," December 1985.
8. M. Rukuni and M.J. Blackie, "Irrigation and Food Security in Southern Africa," December 1985.
9. S.T. Buccola, "Modelling Policy Options for the Zimbabwe Food Grain Subsector," December 1985.

10. D. Rohrbach, "The Economics of Communal Sector Maize Production in Zimbabwe: 1980-1985," December 1985.
11. S.C. Muchena, "SADCC's Food Security Programme: Implications for Food Security Researchers," December 1985.
12. Peter T.W. Murphy, "The Zimbabwe National Grain Reserve, and Grain Trade Policy Issues with Particular Reference to Barter Trading," December 1985.
13. F.H. Drane, "Feasibility Study of a Regional Grain Reserve and Food AID in the SADCC Region," December 1985.
14. C. Muntanga, "National Grain Reserve and Trade Policy Issues in Zambia," December 1985.
15. Howard Sigwele, "Botswana National Food Security Policy," December 1985.
16. Jayne Stanning, "Household Grain Marketing and Storage Decisions in Southern Africa," December 1985.
17. Carl K. Eicher, Transforming African Agriculture. The Hunger Project Papers, No. 4, San Francisco, The Hunger Project, January 1986.
18. Carl K. Eicher, "Western Science and African Hunger," Francqui Foreign Lecture, Catholic University of Leuven, Leuven, Belgium, February 5, 1986.
19. Carl K. Eicher, "Strategic Issues in Combatting Hunger and Poverty in Africa," IN: Strategies for African Development, edited by Robert Berg and Jennifer Whitaker, Berkeley, University of California Press, pp. 242-275, May.
20. Carl K. Eicher, "Food Security Research Priorities in Sub-Saharan Africa," Keynote Address, OAU/STRC/SAFGRAD International Drought Symposium, Kenyatta International Conference Center, Nairobi, 19-23 May 1986.
21. Carl K. Eicher and Fidelis Mangwiro. "A Critical Assessment of the FAO Report on SADCC Agriculture and Agricultural Sector Studies," a paper presented at a SADCC Meeting of Permanent Secretaries, Chief Economists, Ministers of Agriculture and SADCC Food and Agriculture Sector Coordinators," Harare, July 24-26, 1986.
22. Carl K. Eicher and Mandivamba Rukuni, "Developing a SADCC Food and Agriculture Strategy: Objectives, Components and Process," background paper prepared for the SADCC Meeting, Harare, July 24-26, 1986.
23. Carl K. Eicher and Fidelis Mangwiro, "A Critical Assessment of the FAO Report on SADCC Agriculture," invited paper prepared for the SACCAR Newsletter, November 1986.
24. Highlights of the Second Annual University of Zimbabwe Conference on Food Security in Southern Africa, November 9-13, 1987. This working paper summarizes fifteen papers presented at the Conference and published in Rukuni and Eicher (1987), Food Security in Southern Africa.

25. S.T. Buccola and C. Sukumi, "Food Price and Storage Policies: Private versus Social Optima Under Risk," submitted to the American Journal of Agricultural Economics.
26. S.T. Buccola and C. Sukumi, "Optimal Grain Pricing and Storage Policies in Controlled Agricultural Economics: Applications to Zimbabwe," submitted to World Development.
27. S.T. Buccola and C. Sukumi, "Pricing and Storage Decisions in Government Grain Marketing Boards, selected paper presented at the A.A.E.A. meetings, August, 1987.
28. M.J. Blackie, "Restructuring Agricultural Delivery Systems in Sub-Saharan Africa: A Case Study of Zimbabwe," in J. Mellor, C. Delgado and M.J. Blackie, eds., Accelerating Food Production Growth in Sub-Saharan Africa. Baltimore, The Johns Hopkins University Press.

B. Seminars and Conferences

- 1) In Zimbabwe, the Food Security team has made presentations at:
 - The First Annual University of Zimbabwe Conference on Food Security in Southern Africa, December 1985.
 - The Second Annual University of Zimbabwe Conference on Food Security in Southern Africa, November 1986.
 - The Third Annual University of Zimbabwe Conference on Food Security in Southern Africa, November 1987.
 - Workshop on Food Security Research Methodology and Software, March, 1987.
 - Review of Policy Implications of the Maize Study Research (Rohrbach) presented to policy analysts and decision makers in the Ministry of Agriculture, Lands and Resettlement, Grain Marketing Board and Agricultural Finance Corporation.
 - Seminars at the Faculty of Agriculture, University of Zimbabwe.
2. In the U.S., presentations on the research have been made to:
 - USAID officials in Africa Bureau and S & T.
 - MSU students and faculty on six different occasions.