FOOD SECURITY RESEARCH PROJECT – ZAMBIA
Annual Report, FY 2005
(October 2004 to September 2005)

A Collaborative Research, Capacity Building, and Policy Outreach Project

between

The Ministry of Agriculture and Cooperatives (MACO)
The Agricultural Consultative Forum (ACF)
The Central Statistical Office (CSO) / Ministry of Finance
Michigan State University’s Department of Agricultural Economics (MSU)
United States Agency for International Development/Zambia (USAID)

Research and Outreach Supported By:

Ministry of Agriculture & Cooperatives

The Agricultural Consultative Forum

Michigan State University
Agricultural Economics

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1. **Brief Overview and Facts**

**Cooperating Institutions**

Ministry of Agriculture and Cooperatives (MACO), Economics and Market Development Department: Policy and Planning Branch and Marketing Development Branch

Agricultural Consultative Forum (ACF)

Central Statistical Office (CSO), Agriculture and Environment Division

Golden Valley Agricultural Research Trust (GART)

University of Zambia (UNZA), Institute for Social and Economic Research (INESOR)

Food Reserve Agency (FRA)

Agency for International Development, Zambia Mission (USAID/Zambia)

Agency for International Development, Bureau for Economic Growth, Agriculture and Trade, Office of Agriculture and Food Security (EGAT/AFS)

Department of Agricultural Economics, Michigan State University (MSU)

- Project Brochure: Summarizes project approach and output (to be posted)
- Project Annual Output Report: 04/05
- **Contact Information:** in-country personnel, U.S. based backstop and collaborative institutions.
- Prior **Project Fact Sheet:** summarizes project approach and output, August 1999-September 2003

2. **Objectives**

FSRP’s mandate is to contribute to effective policy dialogue, capacity building, and ultimately an improved agricultural policy environment in Zambia, through collaboration with government and the private sector. The FSRP aims to achieve these objectives through in-service capacity building, applied analysis, and policy outreach. A hallmark of the MSU/FSRP approach is the “joint products” approach, whereby training, applied research, and outreach are undertaken collaboratively with in-country stakeholders and government counterparts. The “joint products” approach is designed to achieve these broad results:

**Capacity building** for local Zambian counterparts, including training in the design, implementation, and analysis of household-level and market-level data collection for policy analysis and priority-setting purposes. This is accomplished mainly through in-service training of public and private sector collaborators, but also through training courses and seminars targeted to specific government organizations where improved analytical capacity is most needed;

**Applied research** to provide baseline information on smallholder production patterns and crop mix, input use, marketing behavior, measures of farm productivity, farm and non-farm incomes, food purchases and consumption, and other basic household-level information necessary to monitor the impacts of changes in the agricultural policy environment on selected socio-economic and regional groups in Zambia; and

**Outreach activities** to liaise with ACF, MACO, and other public and private policy making groups in Zambia on strategies for promoting smallholder agricultural productivity and income growth, and household food security in support of improved agricultural policy making in Zambia.

To carry out its research mandate, the FSRP in Zambia aims to: (a) strengthen the capacity of MACO, ACF, and other institutions or government agencies responsible for food security in Zambia to carry out applied research and policy analysis on food security; (b) strengthen the capacity of MACO to help coordinate research on national food security issues; (c) strengthen the Central Statistical Office
(CSO) to carry out surveys, manage and process data, and perform basic analyses useful to policy makers; and (d) strengthen MACO’s management and implementation of agricultural marketing information services.

3. Implementation Approach of the Food Security Research Project

The FSRP’s main base is its field office in Lusaka. Field office research fellows and research specialists collaborate intensively with MSU campus-based staff on analysis and outreach efforts. This is complemented by frequent TDY visits of campus faculty to Zambia to work with the Lusaka-based team and officials from local collaborating organizations.

The FSRP’s substantive research and outreach activities are guided by the FSRP’s semi-annual Advisory Board consultations. From these Board meetings, an agenda for research, technical support, and outreach activities is identified and approved. Members of the Advisory Board include MACO, ACF, INESOR/UNZA, CSO, USAID, and FSRP.


4.1 Improved maize marketing policy: FSRP/MSU continued to work closely with MACO and other stakeholders to implement improvements in the marketing/trade policy environment.

- FSRP, in collaboration with MACO and ZNFU, documented the adverse impact of District Council levies on farmers and consumers. As a result, DC levies have now been substantially lowered and harmonized across the country.

- In collaboration with the regional organization FANRPAN, FSRP hosted government officials and private traders from the region to discuss the effects of continuing to apply import tariffs on maize price levels later this year. These discussions were then the focus of a FSRP-MACO internal retreat in Chisamba in June 2005. Within a month after these two workshops, MACO announced its intent to have the import tariff waived. The Zambian government abolished the import duty on maize from non-COMESA countries in September 2005. The elimination of the maize import duty is likely to improve the ability of maize trade to moderate food price levels later this season.

- Following the conceptualization of an Agricultural Market Development Plan, FSRP provided substantive input and facilitated the production of a detailed AMDP document. AMDP focuses on market and private sector development, and a reorientation of the role of government and government agencies such as the Food Reserve Agency. During the second and third quarters of 2005, AMDP implementation commenced. FSRP facilitated a review of agricultural legislation, starting a process of legislative harmonization as a basis for the reforms proposed in AMDP.

- FSRP assisted MACO and CSO in planning and designing the 2005 Crop Forecasting Survey. It also assisted in producing the 2005/06 National Food Balance, provided analytical input to the Government of Zambia (GRZ) to determine its import policy and related donor coordination issues.

- FSRP has been sensitizing MACO to the need to make sure that maize imports reach local public markets in order to allow consumers to benefit from the opportunity to mill grain into meal by small-scale mills.

4.2 Fertilizer marketing policy: Following the initial agricultural inputs marketing policy dialogue, lead by MACO, FSRP/MSU, and IFDC, the project provided important input into MACO’s Agricultural Inputs Market Development Plan. Private and public stakeholders participated in the process and a draft Agricultural Inputs Marketing (AIM) document was produced for ratification by GRZ. FSRP/MSU will remain involved in implementation of AIM Development Plan.
4.3 **Cotton policy:** In collaboration with Imperial College at Wye, FSRP/MSU hosted a major regional cotton conference in Lusaka during February 2005. The conference brought together stakeholders from Mozambique, Zimbabwe, Tanzania, and Uganda, along with a strong showing from Zambia including one Permanent Secretary. Zambia’s performance relative to other countries was reviewed, as were the institutional challenges that each country faces. FSRP also consulted with Zambian stakeholders while providing technical input in the re-drafting of the Cotton Act, resulting in key changes to ensure that the focus of the Act will be on facilitation of effective coordination in the sector, rather than on heavy-handed policing.

4.4 **Market information:** FSRP/MSU continued to provide technical assistance to the Agricultural Market Information Centre (AMIC) at MACO. In spite of continued staffing problems, AMIC is developing a consistent database of commodity prices for the provincial center markets, disseminated by radio with a weekly price sheet and a bimonthly bulletin available electronically through email and an enhanced website, as well as with hard copy. In late 2004, MACO staff participated in the CIPE Workshop on Developing Guidelines for Building Sustainable Market Information Systems in Africa with Strong Public-Private Partnerships, held in Maputo, Mozambique, November 15-16, 2004. One result of this conference and dialogue with MACO staff was a shift in proposed strategy that focuses FSRP efforts on the analytical agenda at MACO headquarters with policy analysis, while promoting the establishment of local market information systems, such as the one operating in Central Province and being established in Eastern Province, with private sector partners, including ZNFU and Chambers of Commerce and Industry.

4.5 **Conservation farming:** In collaboration with the Golden Valley Agricultural Research Trust (GART), there are two main activities on Conservation Farming (CF), following up on earlier work on the profitability of potholing. Analysis continues of the Post Harvest Surveys and recent Supplemental Survey regarding farmer use of CF technologies. The earlier research indicated high potential for increasing profitability and lowering risk for farmers, but recent research indicates very low sustained adoption. Analysis continues to understand this dynamic. For the 2004/2005 cropping season, a survey of farmers who obtained Magoye rippers in Eastern and Southern Province was conducted, with data entry and cleaning currently in process. Analytical results will be available at the end of the first quarter of 2006.

4.6 **High-level policy dialogue:** FSRP/MSU continued to engage in and facilitate high-level policy outreach and dialogue.

- **ZIBAC:** At the request of State House, FSRP/MSU participated in policy dialogue with the President and other key policy makers during two Zambia International Business Advisory Council (ZIBAC) meetings (April and August 2005).
- **Ongoing agricultural policy dialogue:** In December 2004 and June 2005, FSRP/MSU supported and facilitated MACO-led agricultural policy retreats, also attended by the Ministries of Finance and Economic Development, Commerce Trade and Industry, State House, and the Food Reserve Agency. All of the above mentioned topics were discussed at these retreats, in some cases leading to accelerated actions.

4.7 **Capacity building:** By collaborating with individuals from MACO and CSO on specific research and other activities, FSRP/MSU provided in-service training to some 40 professional staff. In addition, analytical skills training was provided to 15 professional staff.

5. **Description of FSRP’s Main Activities in FY 2005**

5.1 **Support to MACO policy plans for crop and input marketing:** FSRP was requested by MACO to provide intensive support to several MACO initiatives in 2005, namely the Agricultural Market Development Plan (AMDP) and the Agricultural Inputs Marketing Plan (AIM). The AMDP was
initially spearheaded by the now-ended ZAMTIE project, but while MACO endorsed many of the ideas contained in the initial document, most of them required substantial elaboration and analysis before they could be implemented effectively. FSRP has worked with MACO intensively in 2005 to support its efforts to finalize the AMDP and begin initial implementation.

Likewise, MACO has sought intensive support from FSRP to initiate its Agricultural Inputs Marketing Plan. This plan is the input marketing counterpart to the AMDP. Numerous FSRP activities in 2005 were dedicated to supporting MACO’s development of the AIM Plan.

5.2 Collaboration with Mt. Makulu and IFPRI on HIV/AIDS research under RENEWAL: FSRP in FY05 collaborated with IFPRI on HIV/AIDS research under the RENEWAL Programme. FSRP’s contribution to the RENEWAL work in Zambia has also enabled FSRP to work more closely with a multi-disciplinary team at Mt. Makulu research station to understand how to make rural communities more resistant and resilient in the face of the AIDS pandemic. FSRP has also continued to disseminate AIDS awareness information through the various field surveys that bring FSRP into contact with rural households in Zambia.

5.3 Initiation of new collaboration with DAI under the MATEP Programme: In July 2005, FSRP has begun a collaboration with DAI under the new Market Access, Trade and Enabling Policies (MATEP) Programme. FSRP’s activities under MATEP entail improving rural productivity, foreign exchange earnings, and food security through focused policy analysis on the maize, fertilizer, cotton, and horticulture sectors. FSRP has been able to immediately contribute to meeting MATEP objectives building on its broader work on these sectors over the past five years. For example, as described in section 4.1, FSRP, in collaboration with MACO and ZNFU, documented the adverse impact of District Council levies on farmers and consumers. As a result, DC levies have now been substantially lowered and harmonized across the country. This important policy change has enabled FSRP to contribute almost immediately to MATEP Programme objectives.

5.4 Capacity building and analytical support to FANRPAN’s regional food policy programme: FSRP has in FY05 contributed to the development and capacity of the Food, Agriculture, and Natural Resources Policy Analysis Network (FANRPAN), a regional policy network. This collaboration and capacity building was facilitated by the Rockefeller Foundation’s funding to MSU and FANRPAN of a Regional Maize Marketing and Trade Project. FSRP was well placed to contribute substantively to this project, and coordinated closely with FANRPAN and MACO in research, training, and policy outreach. FSRP contributed to several FANRPAN outreach meetings in 2005, and these contributions are described more fully at the following sites:

MSU/FANRPAN Regional Trade Collaboration:
http://www.aec.msu.edu/agecon/maizemarket/index.htm

FANRPAN Multi-stakeholder Public Policy Dialogue 2005:
http://www.fanrpan.org/PROGRAMME.pdf

5.5 Value chain analysis: FSRP has continued to work closely with MACO and other partners on informing policy makers on alternative strategies for improving the welfare of smallholder farmers, consumers, and the private sector. Ongoing activities relating to the maize, fertilizer, cotton, cassava, and horticulture value chains have formed the basis for intensive discussions between FSRP, MACO, ACF, private stakeholders, and donors. These activities have led to many of the accomplishments highlighted in section 4 above. Under the MATEP Programme, FSRP will intensify its work on identifying how horticultural value chains can be organized to improve small farmer welfare and productivity, and contribute to foreign exchange earnings. FSRP, in the latter half of FY2005, also participated in a cassava task force to guide investments and programmes to improve the contribution of cassava to national and household food security. Other FSRP work in
FY05 has focused on agricultural land policy (informing the design of the land bill), conservation farming (with particular support to GART). Lastly, FSRP has continued to support MACO’s development of an Agricultural Market Information Centre (AMIC) to collect, analyze, and disseminate timely information on food market prices and policy issues.

5.6 Government of Zambia budget allocation to the agricultural sector: FSRP has worked with MACO colleagues to show policy makers how the Government’s budget to the agricultural sector is allocated. These efforts have shown that roughly 75% of the government budget to agriculture go to fertilizer subsidies, fertilizer grants, and operating costs of the Food Reserve Agency. Another 20% is allocated to salaries and wages, while only 5% go to investments such as agronomic and crop breeding research, extension, irrigation, and the like. These findings have sparked intensive discussion at senior levels of MACO. Considering that Zambia is committed to the NEPAD goal of having governments devote 10% of their national budget to agriculture, it is increasingly clear that the payoffs to this 10% will depend on how the agricultural budget is allocated.

5.7 Contributions to SAKSS and IEHA: FSRP has been gearing up to understand how to best contribute to the new SAKSS/IEHA initiative, both in Zambia and in the southern Africa region. FSRP staff have participated in several SAKSS/IEHA meetings designed to coordinate activities among the various producers and consumers of agricultural knowledge systems in southern Africa.

5.8 Support for quality agricultural data systems to provide an empirical basis for policy discussions: FSRP has continued to support the Central Statistical Office (CSO) in improving the quality of its agricultural data. FSRP found a major flaw in the procedure used by CSO to report on trends over time in agricultural production in Zambia. The existing estimates of national agricultural production are reasonably accurate in the early 1990s but underestimate production starting in the mid-1990s and thereafter. Hence, FSRP’s activities may reveal that trends over the 1990s in agricultural production are somewhat more impressive than currently thought.

5.9 Capacity building for national agricultural data collection and analysis systems: FSRP has conducted several training programs targeted to CSO and MACO staff involved in designing, implementing, cleaning, and analyzing the Government’s annual Post Harvest Surveys (PHS). This annual survey is the main instrument by which Government policy makers understand the agricultural sector and make assessments about how current policy is affecting the agricultural sector. Therefore, FSRP’s activities in FY05 have been aimed at improving the Government’s capacity to provide a solid empirical foundation for discussions of agricultural policy in the future.

5.10 Development of updated work plan: FSRP has produced a new updated work plan for FY06 and FY07, finalized after receiving guidance and agreement from the FSRP Advisory Board in October 2005. The current work plan is presented in Annex A.5.

6. FSRP Members

Researchers Involved

Food Security Research Project (FSRP) In-Country Researchers: Anthony Mwanaumo, Jones Govereh, Steven Haggblade, Ballard Zulu, Misheck Nyembe, and Stephen Kabwe

MSU Campus Backstop: Thomas Jayne (Co-Director), Michael Weber (Co-Director), Cynthia Donovan, David Tscharley, James Shaffer, Margaret Beaver, and Antony Chapoto
7. Pending Issues

7.1 Funding: Late arrival of SO5 funding caused a three month (unplanned) gap and will likely result in a corresponding funding deficit towards the end of the agreement in 2007. The appreciation of the kwacha combined with continued inflation has increased the local expenditure rate beyond levels anticipated in the original budget and has also led to declines in real local salary levels, which are denominated in US$.

7.2 MACO staffing: Support to AMIC at MACO was made difficult due to staffing problems at MACO. New staff was needed at AMIC. However, pending approval of the new ministry structure by Cabinet, no new staff could be recruited.

7.3 Change in FSRP local management: The project incurred increased campus support costs and increased local costs after the resignation of in-country coordinator Jan Nijhoff. While the FSRP is fortunate to have recruited new in-country coordinator Anthony Mwanaumo and new research fellow Steve Haggblade, the steep learning curve associated with assuming the in-country management position slowed the project’s pace in some ways and forced the project to incur unanticipated costs.
A.1 FSRP Policy Extension and Outreach

  - Trends in Smallholder Agriculture. Jones Govereh
  - Smallholder Maize Market Structure and Behavior. Ballard Zulu and T.S. Jayne
  - Crop Forecast Survey Methodology and Results. Michael Isiimwa, Ministry of Agriculture and Cooperatives
  - Small-scale Maize Trading in Zambia. Billy Mwiinga and Hyde Haantuba
  - Priorities in Resource Allocation Within the Ministry of Agriculture and Cooperatives. Julius Shawa, Ministry of Agriculture and Cooperatives
  - Trade Agreements for Consideration in the Agricultural Marketing Act. Hyde Haantuba, Ministry of Agriculture and Cooperatives
- Meeting with PS Chizyuka to introduce FSRP to him and discuss the agenda for the June policy retreat, June 7, 2005.
- FSRP participated in a meeting at FAO where FAO and WFP presented their crop and food security assessment report. Technical input was provided by FSRP on crop supply and demand estimates using 2005 CFS data, Lusaka, May 19, 2005.
- FSRP participated in a MACO maize marketing policy meeting, discussing FRA pricing, export ban and maize market interventions, Mulungushi House, Ministry of Agriculture and Cooperatives, Lusaka, February 23, 2005.
• Competition and Coordination in Cotton Market Systems in Southern and Eastern Africa Project. David Tschirley and Ballard Zulu, Imperial College, UK.
• Jan Nijhoff attended DFID program planning, with focus on maize and fertilizer marketing, January 20, 2005.
  o Structure of Zambian Agriculture, Jones Govereh.  
  o Increasing Output, Productivity and Incomes of Smallholder Farmers, Ballard Zulu.  
  o Crop Marketing Policy Issues, Gelson Tembo, T.S. Jayne, and James Shaffer.  
  o Strategies to Improve Household Food Security During Grain Shortfalls, Billy Mwiinga and Jan Nijhoff.  
  o Factors Related to Success in Smallholder Agriculture, Ballard Zulu, T.S. Jayne, and J. Shaffer.  
  o Private Sector-led Input Market Development, Jones Govereh.  
  o Agriculture Market Development Plan, Hyde Haantuba.  
• FSRP was invited to a workshop on the Soil Fertility Consortium for Southern Africa. The workshop was aimed at discussing the synthesis of the CF work that has been done in Zambia so that it feeds in the regional work plan. The Soil Fertility Consortium for Southern Africa would be funded by the Rockefeller Foundation. Participants of the workshop came from Ministry of Agriculture and Cooperatives, NGO, and other private institutions, Nairobi, Kenya, December 9, 2004.  
• FSRP worked with Agricultural Consultative Forum (ACF) to come up with guidelines of synopsis on the advantages of adopting conservation farming. Participants in two meetings came from Conservation Farming Unit, University of Zambia and Agricultural Consultative Forum.  
• Donovan, Mwiinga, and Haantuba met with MACO District marketing and cooperative officers and the participants in EPAMIS from EPCCI and elsewhere, on the organization of EPAMIS, Chipata, Zambia, November 2004.

A.2 FSRP Working Papers and Reports


A.3 FSRP Policy Syntheses


A.4 Professional Publications

### Annex A.5. FSRP Outreach Programme (January 04): Sharing Evidence-based Research Results to Improve Agricultural Policy Making in Zambia

<table>
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<tr>
<th>Who</th>
<th>How</th>
<th>When</th>
<th>What</th>
<th>Status</th>
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| MACO                         | Lunch meetings with key MACO staff | November 25, 2005   | • Maize price policy options  
• Maize imports, waiver, SPS, and role of FRA  
• Policy dynamics, i.e., price options, maize marketing | Done/ongoing            |
|                              |                                  | Ongoing             |                                                                      |                         |
| USAID                        | Show and Tell, dry run           | January 12, 2006    | • FSRP activities (All)                                              | Advanced                |
| US Ambassador/USAID          | Show and Tell, half day          | January 19, 2006    | FSRP activities, relevance and contribution to Zambian agriculture (All) | Advanced               |
| Private Sector Development Group and in collaboration with USAID | Workshop, half day | January 30, 2006 | Using FSRP research results in PSDP Integrating AIM, AMDP, NAP into PSDP and strengthening backward and forward linkages | Jump started           |
| Parliamentarians             | Workshop, half day               | February 1, 2006    | • FSRP key research results (final and preliminary), on assets, AIDS, input and technology (fertilizer and CF), production (trends, cotton) and marketing (maize, cassava, and horticulture)  
• Data collection, cleaning, and management (for MPS to appreciate and lobby for resources for timely surveys) | Firmed up               |
| • All agricultural sector stakeholders and in collaboration with ACF | Workshop, full day | February 2, 2006 | • MACO budget analysis (J. Shawa et. al.)  
• Returns to Agricultural Research and Extension (S. Haggblade)  
• Toward improved productivity of Zambian agriculture (J. Govereh - fertilizer; D. Tschirley and B. Zulu - cotton; C. Donovan and S. Kabwe - conservation farming)  
• Strategies to improve Zambia's ability to stabilize food supplies and prices (S. Haggblade - cassava)  
• Strategies to improve maize productivity through marketing and trade improvements (B. Zulu and T. Jayne)  
• Understanding horticulture value chains (D. Tschirley and M. Hichaambwa)  
• Dynamics of the Livestock Sector: The case of the beef industry in Zambia (A. Mwanaumo, J. Shaffer, and S. Haggblade) | Firmed up               |
| • MACO                       | Retreat                          | June 2006           | • What is new and interesting from FSRP  
• Key deliverables from workplan and impact on policy  
• Preparing MACO for 2007 budget under the 2006-2007 MTEF | No progress             |

Annex 6: FSRP Website (See Next 2 pages) Available at: [http://www.aec.msu.edu/agecon/fs2/zambia/index.htm](http://www.aec.msu.edu/agecon/fs2/zambia/index.htm)
Zambia Food Security Research Project (FSRP)

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Project Overview

- Project Fact Sheet: summarizes project approach and output.
- Contact Information: in-country personnel, U.S. based backstop and collaborative institutions.

Research Reports


See Complete List of Research Reports

Reprints

The project has published reprints of theses by MSU graduate students supported by the project.


Policy Syntheses


See Complete List of Policy Syntheses

Professional Publications

Zambia Food Security Research Project

Zambia Agricultural Market Information Documents and Directory

● Zambia Agricultural Market Information Centre (AMIC)

Policy Presentations

● PowerPoints
  ○ Resource Allocation for Agriculture. FSRP presentation and discussions on GRZ 2006 budget allocation to the Agricultural Sector with Parliamentary Sub-Committees for Agriculture and Lands, and for Finance, Gemister Conference Centre, February 1, 2006, Lusaka.
  ○ See Complete List of PowerPoints

● Papers
  ○ See Complete List of Papers

CSO Documents

● Rural Incomes and Livelihoods Survey 2004. (Second supplemental survey to the 1999/2000 post harvest survey for small and medium scale holdings.
  ● Post- Harvest Survey (2001/2002) for Small and Medium-Sized Holdings (Synthetic Questionnaire)
  ● See Complete List of CSO Documents

Administrative Reports

● For MSU and USAID Management Purposes -Requires ID to enter

Links to Related Sites

● Quick Links - Zambia on the Food Security and Food Policy Information Portal for Africa-FSIP
● Quick Links - Building Professional Skills-FSI

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