



Strengthening Mozambican Capacity for Agricultural Productivity Growth, Policy Analysis, and Poverty Reduction

**Annual Project Narrative Report – FY10
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1 Introduction

FY10 was a challenging year for policymakers and other agents in the agricultural sector in Mozambique and Michigan State University has been active in supporting the government, non-governmental organizations, and private sector to understand the dynamic environment and respond. Before discussing the challenges and achievements of the project, it is necessary to review a few events in Mozambique.

The beginning of fiscal year 2010 (FY2010) coincided with the Mozambican general elections as President Guebuza's first mandate of five years was ending. For this reason, during the first quarter of FY2010 no major policy decisions took place. The new cabinet was sworn in January 2010 without major changes in ministers. The Ministry of Agriculture (MINAG) had the highest turnover of Ministers during the first five year term (3 ministers during the period) and with the new presidential term, a new Vice-Minister was appointed, António Limbau, the former provincial Director of Agriculture for Sofala Province. Having a more technically oriented person to support the Minister is expected to contribute positively to the performance of MINAG.

The preliminary results on the [National Poverty Assessment](#) based on the household budget survey of 2008 (IOF8) indicate that consumption poverty either did not change or increased slightly compared to the 2003 results. The riots that took place in Maputo on 1-2 September 2010, at least partially a result of rising prices for food, utilities (water and electricity) and fuel, increased pressure on the government to look for long-term solutions to reduce the cost of living. In evaluating reasons for lack of income growth, the focus of the poverty assessment was on the agricultural sector, the most important source of income for the majority of Mozambican households. Key questions were raised on sector performance in terms of land and labor productivity and overall production. The local newspapers have increasingly questioned the government's seriousness in implementation of its Green Revolution Strategy and other agricultural growth initiatives. It is likely that these doubts coupled with food riots led to the dismissal of the Minister of Agriculture in early October 2010.

Notwithstanding the negative outcomes above, we believe that there have been important successes during FY2010: 1) support from the Prime Minister's office for Mozambique to embark on the CAADP process; 2) internal reflection about agriculture expenditure as a result of the Agriculture Expenditure Review implemented by MINAG, World Bank, Michigan State University (MSU) and ReSAKSS; 3) growing demand for analysis related to agricultural policy, as demonstrated by DE requests for presentations to the technical Council (*Conselho Técnico*) of MINAG, and 4) increasing requests for market information and appreciation of the role played by MINAG's Agricultural Market Information System (SIMA). For example, high government officials are now requesting SIMA's weekly bulletin *Quente Quente*, looking at weekly price movements of

agricultural products, putting more pressure on SIMA, in terms of analysis, and improved services with more products and markets covered.

MSU project priority was given to the preparation of various policy instruments: 1) government's five year plan (Plano Quinquenal do Governo); 2) continued implementation of the Action Plan for Food Production (known as PAPA); 3) stakeholder consultations and revision of the Strategic Plan for Development of the Agricultural Sector (PEDSA), 4) stakeholder consultation and revision of the strategic plan for the National Institute of Agricultural Research (IIAM), and 5) preparatory work for Mozambique to officially launch the CAADP process. The achievements and the role of MSU will be indicated in more detail in subsequent sections of this report.

The MSU project efforts have included MINAG Directorate of Economics (DE) institution building, especially related to Mozambique's CAADP and the Strategic Plan for the Agricultural Sector (PEDSA). MSU has improved and expanded its collaboration with IFPRI/MozSAKSS and the Faculty of Agronomy and Forestry Engineering (FAEF) of UEM. Coordination and joint activities with IFPRI/MozSAKSS to support the CAADP process and to enhance capacity building in DE have been well received by MINAG. MSU through a sub-agreement with FAEF has enabled the implementation of joint analytical work, and policy outreach is strengthening collaboration with the Directorate of Economics. With IIAM, MSU project collaboration was also enhanced with the Consultative Group of International Agricultural Research Centers (CGIAR) and EMBRAPA as the USAID-supported Platform for Agricultural Research and Technology Innovation (PIAIT) became operational. MSU has participated in activities organized through PIAIT, and analysts from the Center for Socio-Economic Studies (CESE), trained by MSU, are expected to contribute to PIAIT-linked activities across the CG Centers.

As PAPA entered its third year of implementation, there has been a growing demand for evidence of the impacts of the plan on the performance of the sector. MSU worked with colleagues of the Directorate of Economics to prepare terms of reference for the evaluation of PAPA, and highlighted weaknesses in the monitoring activities that hinder such assessments.

The following activities were planned and implemented during the year:

- Support to DE to move the CAADP process forward in Mozambique, including assistance to support CAADP Pillar 3 development
- Contribution to finalizing the PEDSA
- Contribution to IIAM Strategic Plan
- Development of SIMA data system and services, including the SMS system with the National Statistics Institute
- Assistance to MINAG and INE in the ongoing Agricultural and Livestock Census and with the MINAG's Statistical Yearbook (Anuário Estatístico)
- Implementation of collaborative research with UEM
- Research on Conservation Farming in Tete Province

- Subsector and value chain analysis for selected commodities (cassava, maize, horticultural crops)
- Profitability of agricultural technology for selected commodities –Fact Sheets development for a range of crops with IIAM/CESE, DE and UEM including maize, cotton, and cassava

The rest of this report for FY2010 is organized by project objective. The activities were conducted during the period October 1, 2009 through September 30, 2010.

2 Objective 1: To assist MINAG in building institutional capacity to raise smallholder productivity and income through improved technology, markets and policies

2.1 Plano Estratégico para o Desenvolvimento do Sector Agrário (PEDSA)

MSU participated in consultations, technical meetings, and formal comments on revisions to the PEDSA. After final editing by the local FAO team to ensure that PEDSA related well to the CAADP pillars, the final draft version is ready for submission to the Economic Council and then to the Council of Ministers. The document can be found on the new Mozambique [CAADP website](#), established by MSU to assist the CAADP process in Mozambique.

PEDSA has five strategic objectives:

1. Increased agricultural and livestock production, productivity, and competitiveness
2. Improved infrastructure and services for markets and trade
3. Sustainable use of land, water, flora, and fauna resources
4. Policy and regulatory environment conducive to agricultural and livestock investments
5. Reinforced agrarian institutions.

2.2 Mozambique CAADP process

The Directorate of Economics was designated as the CAADP focal unit for Mozambique and Director Victorino Xavier has appointed a team from DE to consolidate efforts on CAADP. A “Friends of CAADP” group was established informally involving various donors, World Bank, FAO, WFP, IFAD, and others, with technical assistance from IFPRI/MozSAKSS and MSU. We worked with colleagues from World Bank and IFPRI to develop terms of reference for a consultant to assist MINAG on the CAADP process. As a result, IFPRI contracted Dr. Augustine Wambo, who made two missions to Maputo in late FY2010.

Dr. Mlay worked closely with DE to organize a NEPAD mission to Mozambique in late August/early September, but due to the civil disturbances in Maputo and other issues, the mission was postponed and did not occur until very early in FY2011. The visit was intended to evaluate the country’s readiness for the CAADP launch and to provide input in a workshop involving the focal unit and the country implementation team. Instead, Dr.

Wambo's consultancy was able to help identify the steps needed to have a Mozambican Compact before the end of December 2010.¹

A draft roadmap was presented in a meeting attended by Friends of CAADP and chaired by the Permanent Secretary (PS). The PS expressed optimism that the official launch can be realized within the dates proposed and supported the proposal of having the Prime Minister officiate the launch. Development partners supporting the effort to move the CAADP process forward include USAID, World Bank, SIDA, CIDA, FAO, and WFP. MSU and IFPRI/Moz-SAKSS participate in the discussions and work closely with DE to implement a number of activities involved in the process.

Below is a summary of the main achievements in getting the CAADP process moving forward:

- a. A country implementation team was established. SETSAN and Ministry of Health have been added to the team, especially to respond to Pillar 3 needs.
- b. Draft terms of reference for the focal unit prepared
- c. Draft terms of reference for the country implementation team prepared
- d. Draft communication strategy prepared
- e. Concept note for national CAADP day prepared
- f. Country implementation team met twice in FY2010 and additional training sessions are planned for early in 2010/2011
- g. At the request of DE, MSU is assisting the team in making documents, especially government strategies, available to the public on a website, and so the Mozambique [CAADP website](#) was established under the overall MSU FSG website.

DE is focused on having the launch before the end of December 2010.

2.3 Agriculture and nutrition linkages

With Feed the Future and CAADP Pillar 3, MSU has started bringing together the expertise to assist the government and USAID in understanding and developing strategic planning concerning agriculture and nutritional linkages. Jaqueline Massingue has been hired part time while completing his thesis work from the University of Greenwich in the UK. His thesis topic concerns market development for orange-fleshed sweet potatoes, based on field work in Zambezia Province. Tschirley worked with Dr. Kim Chung from MSU in East Lansing, an associate professor with a background in nutrition (MS degree) and agricultural economics (PhD) and extensive field experience. She will assist the team in this area. SETSAN, the Technical Secretariat for Food Security and Nutrition, will most likely be a key inter-ministerial collaborator on this work, and Donovan has discussed CAADP Pillar 3 and other issues with the Executive Director Marcela Libombo. Donovan and Massingue also distributed materials relating to CAADP Pillar 3 to members of the task force working on the Multisectoral Action Plan to Reduce Chronic Malnutrition.

¹ The CAADP process was successfully launched in December 2010 and the current roadmap calls for Compact signing at the end of March 2011.

2.4 Strategic Plan for IIAM

The Strategic Plan for IIAM was substantially revised with the collaboration of IIAM/EMBRAPA and input from MSU. The Plan has improved significantly in terms of format and content and will be presented for approval by the Council of Ministers in late 2010. The process of developing the Zonal Centers' Strategic Plans has also been initiated with technical support from EMBRAPA. The draft plan is available on the [Mozambique CAADP website](#).

2.5 Agricultural policy advocacy: the three-year Action Plan for Food Production (PAPA)

MSU supported two key analytical activities under the PAPA (evaluation of interventions and technical fact sheets) and contributed to the debate on investments in grain storage proposed within PAPA.

By request of DE Director Xavier, MSU worked with DE staff to develop protocols for evaluating the impacts of PAPA interventions in the 2008/9 and 2009/10 crop years. Because PAPA was prepared by an inter-ministerial committee and its implementation involves actors in addition to MINAG, these protocols were discussed with the Director of Studies and Policy in the Ministry of Planning and Development. The Director was supportive of the evaluation being carried out. DE contacted the faculty of Agronomy of UEM for potential consultants but to date no progress has been made in implementing the work. The PAPA implementation plan lacked the information systems that are critical for empirical evaluation of the impacts, and so this activity may have to be incorporated into future work plans.

MSU assisted CESE, DE and FAEF staff to develop technical fact sheets for the key crops. The facts sheets were prepared for maize, sorghum, rice, wheat, peanuts, sesame, sunflower, Irish potatoes, sweet potatoes, onions, cabbage, tomatoes and cotton under sole cropping and are intended to support the implementation of PAPA. The facts sheets provide information on crop calendar, technical coefficients and the agronomic practices and take into account the agroecological zone (10 zones), level of input use (low, medium and high), dry or irrigation farming, and level of mechanization. The final document is now in the process of layout and printing and will be submitted to the Minister of Agriculture in late 2010. Apart from providing technical information to be used by extension officers in advising farmers, they will be invaluable in analyzing cost of production and profitability. Mlay contributed in the preparation of the facts sheets in various ways. He proposed the methodology to be followed including field validation of the technical coefficients; he trained UEM, CESE and FAEF staff who participated in fieldwork to validate the technical coefficients and finally he worked with colleagues from UEM to review Part One of the document, while the actual facts sheets were reviewed by agronomists from UEM and IIAM.

Tschirley and UEM colleague Dr. Emilio Tostao presented a policy brief on the role of the public sector in food staples markets to the Technical Council (*Conselho Técnico*) of MINAG. This was part of collaborative activities between FAEF of UEM and MSU. One of the key recommendations stressed in the presentation and discussion is that the government will need to develop implementation guidance for the silos being constructed under PAPA so that the silos contribute to improved market performance rather than hindering this performance, as has sometimes been the case in neighboring countries. The brief, [Flash #54](#) can be found at the MSU website in English and Portuguese, and has been distributed across a range of policymakers.

Related to PAPA and the 2010/2011 crop and marketing years, the government held an internal consultation to review the 2009/10 agricultural activities and to plan for the 2010/11 activities. Gilead Mlay was invited to participate for MSU. The consultation was chaired by the Prime Minister, highlighting the importance that the government is placing on agricultural sector performance after the riots that took place in early September. The meeting brought together various actors in the sector including farmer organizations, financial institutions, agro-processors, input dealers, researchers and academicians, senior policy makers (ministers, provincial, FAO and PROAGRI representatives). In his opening speech the Prime Minister was clear that all was not well in agriculture and he was looking for practical solutions, as can be found in the PAPA. Results from the previous season were reported, including specifics on PAPA interventions.

Following the presentations, three groups were created for in-depth discussion and presentation of recommendations on three topics: a) agricultural marketing and management options for grain storage silos, b) agricultural production and c) financing of agriculture. Mlay participated in the agricultural marketing group. There was a consensus on the need for key public sector investments: 1) public goods such as market information, rural roads, rural electrification; 2) promotion of grain quality through grades and standards, and 3) continuous support for a more active role of a competitive private sector in grain marketing. With regard to the management of silos recently constructed (and under construction) by the government, the two preferred options were private sector management of the silos, or a management partnership between private and public sector. The project's Flash #54, put out in [English](#) and [Portuguese](#), should be an important reference piece for these deliberations.

2.6 Agricultural and Livestock Census (CAP)

The Censo Agropecuario (known as CAP 2010) is being implemented by the National Statistics Institute (INE) in collaboration with MINAG Directorate of Economics (DE) and, within DE, the Department of Statistics. Originally designed to run from December 2009-August 2010, it has been extended into late 2010. Many of the DEST analysts have been seconded to INE to work on the CAP. Ellen Payongayong has provided limited technical assistance to those DEST staff, particularly regarding processing systems, and she has contributed to the technical committee of CAP.

One of the controversial issues with CAP regards production estimates. A key MINAG objective is to have reliable production estimates out of the CAP to serve as a baseline for

future work. There were modifications in the original data collection methods needed to ensure this. Problems were identified by Payongayong early in the process, but INE leadership failed to adopt the recommendations, so it is possible that MINAG objectives with the CAP may be compromised.

2.7 Implementation and Dissemination of TIA, and contribution to methodology for implementing TIA and Early Warning Crop Forecasts

The official 2007 Population and Housing Census results were released on November 18, 2009. The delay in having these numbers delayed the release of TIA 2008 results, as the census numbers were needed to accurately generate the number of agricultural households, and thus appropriate TIA sample weights for 2008. Before the availability of the population census results, MINAG had used preliminary numbers that resulted in a very high estimate of households represented by TIA, but these were later adjusted based on the revised Census numbers.

Related to this and the Agricultural Statistics Master Plan development, MSU has held discussions with various actors involved in generating and using agricultural statistics. Donovan attended a major FAO/Gates Workshop for the Development of Agricultural Master Plans in Africa. Discussions with DE Director Xavier and others have highlighted the need to address the issues of the crop forecasting system and TIA. The problems have been indicated in both the report by [Kiregyera et al](#) and by [Donovan](#), but there has been no resolution. DE will be seeking technical expertise to assist in resolving this issue concerning crop forecasting.

Ellen Payongayong assisted the Department of Statistics in several areas:

- Preparation of the Statistical Yearbook, which provides statistics from 2000 to 2008 based on CAP and TIA, as well as data from other selected sources within MINAG. The final version of the Statistical Yearbook has been slightly delayed, but is expected in late 2010.
- Facilitating access to and use of historical TIA data. Payongayong has worked to combine TIA data from 2002 to 2008 to form a time series data base. A synthetic questionnaire is being developed to help users understand the structure of the database. Payongayong has provided support to develop systems for data documentation and access that should substantially increase usability of the data for a range of users. MSU has assisted many students and analysts in accessing TIA data through DE over the past year.

TIA has gained importance as a reliable source of information on the agricultural sector. In early 2010, Payongayong and Donovan met with a team from USAID Washington looking at gender aspects related to USAID/Mozambique programs. They helped the team understand how gender analysis can be conducted with TIA and what has already been done. At the same time, Payongayong explained the INCPROX methods and gender disaggregation in the analysis of impact of Title II programs.

Payongayong has also worked throughout the year with student interns from the undergraduate course in statistics at UEM. That program includes a type of internship program, known as their “field attachment program”. During their field attachments with MINAG, the students identify a thesis topic and Payongayong assists them with programming, based upon the TIA data.

2.8 Modernization of SIMA data system

In spite of staffing constraints, SIMA staff has maintained its weekly publication schedule of [Quente Quente](#), completing more than 790 consecutive bulletins through September 2010. SIMA conducted its annual windshield survey in mid-late June, with Donovan joining the team in the center of the country. On July 12, SIMA staff with collaborating partners held the [Annual Production and Markets Perspectives Conference](#), in the MINAG Amphitheatre. Presentations are available on the web. Participating agencies included MIC, MINAG/DNSA, FEWSNET and WFP. To encourage private sector participation, MSU facilitated the presence of Moises Raposo from Ikuru, as well as contributing to meeting arrangements overall. Fazila Gomes presented the results of the [Windshield Survey of 2010](#) and the SIMA team later prepared [Flash](#) 55, with technical support from Donovan.²

SIMA continues to pursue options for data collection and dissemination using modern ICT, including cell phones for dissemination of information. DE Director Xavier, under direction of the Minister, has engaged SIMA in discussions with the web manager of the National Statistics Institute (INE) and SISLOG. SISLOG has developed SMS dissemination tools for INE and the system is in test phase for SIMA prices. Initial work on addressing needs for an efficient way to automate data collection has been completed, and some discussions have been held with Agrifuturo to promote developments.

USAID Cooperating Sponsors World Vision and ADRA are both interested in supporting the move to improving MIS in their zones of action. Donovan participated in Zambezia training of new enumerators with ADRA, and held discussions with World Vision in Quelimane about a shift to new systems in the province for collection and dissemination using cell phones. Additional discussions have been held with Agrifuturo, Promer, and Esoko.

With the food riots of September, food prices have become a very important topic and SIMA is often invited to different fora to present their information and analysis. For example, in mid-September, SIMA was asked to make a brief presentation to the Working Group on Food Security and Nutrition, led by SETSAN, with United Nations partners, held at WFP. SIMA regularly provides technical input to this working group.

Donovan joined DE Director Xavier in a meeting with WFP In-country Director Lola Castro and her colleagues to discuss collaboration between DE (SIMA, in particular) and WFP into the future. There has been a history of such collaboration, based on SIMA

² The Flash on the Windshield Survey officially came out on October 1 and can be seen at <http://www.aec.msu.edu/fs2/mozambique/flash/Flash55p.pdf>.

work, and DE will be developing a set of joint activities with WFP. Donovan also participated with FEWSNET, INGC, and other partners in a WFP/SETSAN workshop to plan future priorities in market activities, as well as in food security initiatives in Mozambique. Training of SIMA staff will be high priority in FY 2010/2011.

2.9 Outreach and Promotion of Policy Debates

David Tschirley made a presentation entitled [*Algumas Observações Sobre a Recente Subida de Preços Internacionais*](#) (“Observations on recent rises in international prices”) on November 13, 2009 at IIAM, to approximately 30 people from IIAM, Ministry of Agriculture, and elsewhere. The presentation reviewed cereal price behaviour in world markets over the past two years and highlighted the lack of any strong relationship between those price movements and internal movements in Zambia, Malawi, and Mozambique. It also explored the reasons for periodic price spikes in these countries, including (in Malawi and Zambia) erratic trade policy and, in all countries, the small-scale of most retail food trade, which may exacerbate the upward movement of prices when volumes are low. The presentation closed by putting these challenges in the context of rapidly growing urban populations and per capita incomes in Mozambique, and the need for increased productivity throughout basic food supply chains.

Steven Haggblade made a presentation entitled [“Lessons from Zambian Experience with Conservation Farming”](#) on November 18 at IIAM, with 16 people present, including IIAM research staff. The presentation described the conservation technology package used for the low rainfall regions (with less than 1000 mm of rainfall and clay and loamy soils), the factors favoring adoption, and its farm level impacts. The presentation ended with conclusions concerning technology transfer that Mozambican researchers and extension agents would find useful. It emphasized the importance of extension support for success, that changes in cropping calendar and management timetable will be necessary and finally that full benefits from conservation agriculture (CA) are achieved only over time. The discussion afterwards highlighted a key point concerning soils: IIAM efforts on CA focus on areas in the south with sandy soils, yet the CA technology currently available is designed for other soil types with greater water retention. Participants acknowledged that CA is a potential response to climate risk, especially erratic and limited rainfall.

David Mather with Boughton and Donovan completed Flash 53 [“Measuring the Impact of Public and Private Assets on Household Crop Income in Rural Mozambique, 2002-2005”](#) available in both English and Portuguese. This is based on Working Paper 67. The Flash has been widely distributed in Mozambique and a presentation will be developed for further outreach in the coming quarters. Crop income is the most important component of household income for rural households and the analysis identifies the potential leverage of public investments and their interaction with household resource endowments.

In early 2010, MSU and IFPRI collaborated with MINAG Directorate of Economics, COMESA, and ACTESA under the African Agricultural Markets Programme (AAMP) to

conduct the Comesa policy seminar on [“Variation in staple food prices: Causes, consequence, and policy options”](#), held in Maputo in January 2010. As part of our work with the Directorate of Economics, Cynthia Donovan and Emilio Tostao from UEM prepared the Mozambican country paper that served as a basis for the presentation made Victorino Xavier at the Conference. The [paper](#) and [presentation](#) highlight the seasonality of prices, but also the relationships with Malawi and international markets. The report detailed price policy and the differences in policies across neighboring countries, with an open border policy generally maintained for food commodities. During this workshop, regional leaders discussed key aspects of food policy including trade policy, input subsidies and food reserves. One particularly valuable discussion was based on a presentation for Bangladesh and its experience with food reserves, indicating that the cost and unexpected consequences can often outweigh the benefits.

Mlay was the keynote speaker at the closing ceremony for the National Agricultural Research Symposium, held at the University of Eduardo Mondlane, September 15-16, 2010. He discussed rethinking agricultural research in Mozambique, [Repensar a Investigação Agrária em Moçambique](#), stressing the need to take greater advantage of the existing body of research and challenging researchers to ensure that more of their research results are productive for Mozambican farmers.

Donovan and Pitoro met with Alliance for Green Revolution President Dr. Namanga Ngongi and his team while they were in Maputo for a scoping mission in late 2009. We shared various MSU studies, including the IIAM Priority Setting report (RR#3) and the report on the impact of investments (DE RP#67) as well as other documents, both MSU and others. We spoke of the wealth of information in the TIA and its usefulness as they evaluate priorities for investments. In August 2010, Mlay participated in a two-day workshop organized by AGRA to validate their business plan for its policy program in Mozambique. The program has four components, namely seeds, soil health, markets, and land and environment. Apart from participating in group work on markets, discussion were held with AGRA staff on collaboration especially regarding implementation analytical work to fill knowledge gaps identified during program implementation.

Objective 2: To strengthen market research and production technology development and transfer by MINAG and IIAM

3.1 Sub-sector and value chain analysis for selected commodities

MSU staff is involved in sub sector and value chain studies for maize, horticultural crops and cassava in collaboration with staff from DE and CESE.

- **Maize Value Chain**

Maize Value Chain work with DE and CESE staff under GISAMA with limited project support in the period focused on smallholder interviews on marketing in the northern region of Mozambique. Collaboration with WFP Purchase for Progress enabled the work to engage in more areas of the north than originally planned. A report is being drafted for this work. The CESE analyst continues to work on the value chain report.

MSU continues to work with UEM on a technical analysis of the performance of maize markets in the country since the early 2000s. This analysis will form the basis for a working paper on maize market performance and the role of the state, building on Flash #54 and contributing to this important policy debate.

- **Horticultural Value Chain**

SIMA continues to collect market data at wholesale and retail in Maputo with GISAMA support. Analysis was initiated in this quarter and will continue into Q4. Currently, a cross-country paper is being produced drawing on this data and similar data from Zambia, Kenya, and Malawi. With assistance from MSU, the SIMA team will produce an additional working paper focused on Mozambique. SIMA is also now in discussions with CEPAGRI about a collaborative approach to continuing and institutionalizing the horticultural data collection into normal SIMA/MINAG activities.

- **Cassava Value Chain**

Donovan and Haggblade worked with CESE analysts Mudema, Tomo, Sitole, and Salegua to diagnose key aspects of the cassava value chain in the north and the south. In the south, both the fresh cassava and rale markets are being evaluated. In the South, Maputo is the key market, but recent research also examines ties among the markets along EN1 north of Maputo. While this work is mostly funded by GISAMA, it incorporates capacity building components and will generate USAID/MSU/MINAG output as well. The reports are still in progress.

- **Irish potatoes value chain**

Irish potatoes are one of the crops that have been promoted under PAPA. Given the suitable agroecological conditions for production in some areas of Mozambique, a better understanding of factors constraining the competitiveness of the Irish potatoes value

chain and practical recommendations on how to overcome them is necessary. Mlay is supervising a CESE analyst to carry out a study in Southern Mozambique. The research proposal and data collection instruments have been concluded. Data collection, analysis and write-up will be done in Q1 of 2010/11.

- Charcoal value chain

Charcoal is an important source of fuel for low income households in urban areas and an important source of non-farm income for some rural households. Deforestation is becoming a serious problem, particularly in zones close to urban centers. Various measures have been pursued either to increase the efficiency of charcoal production (charcoal kilns) or utilization (research on efficient charcoal stoves) or to control charcoal production and trade (licensing fees, regulations, etc). This study's focus is on the sustainability of the charcoal value chain. Two proposals have been prepared by CESE staff under supervision from Mlay and Donovan for studies to be carried out in Niassa, Maputo, and Gaza Provinces. Data collection instruments have also been finalized for the study in the south and field work will be carried out in Q1 of FY2011. The study in Niassa has been postponed because the CESE staff is engaged in another study on forest conservation in Niassa.

3.2 Profitability of agricultural technology for selected commodities

Project staff (Gilead Mlay and Raul Pitoro) continued to work with IIAM staff on profitability studies for broilers, cotton, cashew, cassava and maize.

- Wheat

Wheat is one of the government's priority crops in PAPA, though many have questioned its potential profitability. Earlier work is now being complemented with additional analysis to include competing crops in Sussundenga and Tsangano, using data from the technical facts sheets referred to earlier. In both areas, Irish potato is the main crop competing for land and labor during the cool season.

- Cassava

Mlay and Pitoro backstopped IIAM staff in implementing the FAO-supported cassava production, marketing and processing study in Zambezia. The Participatory Rapid Appraisal (PRA) and field testing of the formal questionnaire were carried out in December 2009. The PRA was carried out by two groups led by IIAM's Paula Pimentel and Isabel Zacharias. A draft report has been produced by the group led by Paula Pimentel and MSU staff will assist in the review.

- Broilers

Mlay assisted Custodio Amaral to complete profitability analysis of commercial broiler production based on a case study done by the Faculty of Veterinary Medicine of UEM.

The study shows that levels of technical efficiency are comparable to international standards; with a mortality rate of 3%, slaughter weight at 35 days of 1.8 kg per bird and a feed conversion rate of 1.94. Despite high costs for feed and day old chicks, which account for 67% and 20% of total production costs, respectively, commercial broiler production is profitable in Mozambique. However, the breakeven broiler price is only about 9% below the current price. Increasing productivity and production of the principal feed ingredients (maize and sorghum) and removal of IVA on imported maize grain will improve the competitiveness of local broiler production. The study report has been concluded and will be published as IIAM-CESE working paper in Q1 2010/11.

- Cashew

Raul Pitoro worked with Venancio Salegua of IIAM/CESE on the analysis of cashew profitability in Nampula Province. Data for the study were collected from 12 districts using a PRA methodology. Formal cashew budget surveys were conducted taking into account the INCAJU's statistics to triangulate data gathered during the PRA work. The PRA methodology generated a classification of cashew producers based on their self-identified productivity: Group 1 (low productivity group) achieves yields of up to 5 kg/tree, with average productivity of 2kg, Group 2 has yields of 5-10 kg/tree, with an average of 6kg, and Group 3 has yields above 10kg/tree, with an average of 12 kg.

Only groups 2 and 3, with production above 5 kg/tree, were found to be profitable. Cashew by-products such as juice and liquor (*aguardente*) made important contributions to profitability for these farmers. The research demonstrates that spraying the trees can be profitable only for trees with average yield of 7 kg/tree and above. The draft report has been reviewed by Mlay and will require additional analysis and re-writing before it can be submitted for peer review and publication as an IIAM research report. The additional analysis and edits are already in progress and it is expected that the work will be concluded in Q1 of 2010/11.

- Cotton

Pitoro worked with Adelino Afonso, one of the CESE analysts stationed at the Northeast Zonal Center for IIAM in Nampula, to carry out analysis on cotton profitability in twelve villages in Nampula. In each village, they interviewed farmers with at least five years of experience with cotton. Based on their stated yields for the 2007/2008 crop year, the farmers in each village were split into three groups of equal size. Category 1 farmers are those farmers with the highest yields relative to the other farmers in their village. Category 2 farmers in a village had yields in the middle tercile and finally Category 3 comprises farmers with relatively lower yields compared to other farmers in the village.

During focus group discussions, Category 1 farmers indicated hiring more labor compared to the other two groups. The final report will highlight other key differences in technology use between the categories.

The draft report has been reviewed by Mlay and will require additional analysis and re-writing before submitting for peer review and publication as IIAM research report. The additional analysis and edits are already in progress and it is expected that the work will be concluded in Q1 of 2010/11.

3.3 Conservation Farming

In June 2010, MSU Graduate Student Phil Grabowski with MINAG extension specialist Inácio Nhancale presented a seminar concerning conservation farming in Mozambique. Nhancale provided an overview of the experience to date with CF in Mozambique: [Agricultura de Conservação em Moçambique: Antecedentes, resultados & desafios](#). Grabowski presented his research proposal, [Explorando o processo da adopção de Agricultura de Conservação no planalto de Angónia, Moçambique](#) for Tete Province, based on NGO and MINAG extension efforts in the zone near Vila Ulongue. The discussions enabled Grabowski to get input from local researchers on research to be conducted June through August 2010. He has also been in contact with CGIAR researchers on the issues. Grabowski is now back on MSU campus, working through the detailed information from his study, and will be producing a report on the nature of adoption of conservation farming practices and the factors influencing how and how much is adopted. We expect that elements of this work will be ready for presentation at regional meetings in South Africa and in Mozambique in early 2011. We anticipate having a joint mini-seminar with IIAM and CG center researchers in early 2011.

3.4 Platform for Agricultural Research and Innovation in Mozambique (known as PIAIT)

MSU has joined the CGIAR Centers as well as IIAM and EMBRAPA in PIAIT, although MSU has no specific budget line through the platform. At the launch of the Platform on April 19, 2010, MSU presented a summary of their work: [MSU in Mozambique: Support to Policy Analysis and Agricultural Research](#), available on the web. The main purpose of the Platform is to coordinate agricultural research and technology transfer activities between IIAM and its partners. More information can be found on the IIAM website at www.iiam.gov.mz.

4 Objective 3: To Strengthen Human Resource Capacity in MINAG and IIAM

4.1 Graduate training

CESE analyst Ana Lidia Gungulo continues to do well in her MS program at the University of Pretoria under funding from the Dry Bean Pulse Collaborative Research Support Program (Pulse CRSP). Donovan met with her in September 2010 in Pretoria when Donovan attended the Pulse CRSP Technical Management Meetings.

Helder Zavale continues with coursework for his PhD training at MSU. His academic advisory committee includes David Tschirley and Duncan Boughton. We anticipate that

Mr. Zavale will finish all coursework and exams and return to Mozambique in June 2011 to start his field research.

4.2 Short term training

- Backstopping of IIAM staff on PRA methods to implement the FAO-funded cassava study

After developing the instruments for data collection, Pitoro and Mlay conducted a two-day training in data collection for quantitative survey using the recently developed questionnaire for this project. Five women and three men participated in the training. After the training, the IIAM staff responsible for the PRA was asked to pre-test the questionnaire while in field. The PRA and pre-test were concluded and we have received the PRA draft report from one of the two groups for comments. We are still waiting for comments on the questionnaire for the quantitative survey, which will complement the PRA.

- Backstopping of IIAM, DE, and FAEF staff on field validation methods for the technical fact sheets

The project, through the in-country coordinator, assisted IIAM to prepare the data collection instruments for the validation of the technical fact sheets and conducted two seminar sessions in the first week of December 2009 for technical staff from DE (4), IIAM (4) and the Faculty of Agronomy and Forestry Engineering of UEM (2). These staff will be responsible for supervision of the field work in 23 districts. In total, the in-service training involved six men and four women.

- Training of SIMA staff on data collection methods for horticulture

David Tschirley worked with key SIMA staff (one woman and three men) in September and November, 2009, making market visits and training them in methods for routine price collection and for detailed survey work to identify the structure and costs of fresh produce trade in Maputo, under the GISAMA Horticulture component with additional in-country support. A total of one woman and three men were trained. In the long-run, it is anticipated that the horticultural data collection will be integrated into SIMA activities.

- Training courses on GIS

MSU collaborated with IIAM to present a ten-day training course on GIS during Q3 of FY2010 to CESE staff, with the objective of providing knowledge and skills to enable them to use geo-referenced data to carry out special analysis. Seven people participated, three of whom were women. A follow-up GIS course was organized by IFPRI in Q4 in collaboration with MSU. The two day training workshop for DE staff was attended by 20 participants, eight of whom were women. Ellen Payongayong provided technical support to this training.

- STATA and CSPro training

Ellen Payongayong presented a basic STATA course in Q3 to DE technicians to enable them to manipulate STATA data files and carry out simple statistical analyses. The course was attended by eight technicians, out of whom three were women. One technician from DE was trained mid-2010 in CSPro and in design of questionnaire layout using the windshield survey questionnaire (*Inquérito de Janela*)

- Technical staff and English training

Four CESE technical staff continued with English training with support by the project. Progress has been good, and the four will be encouraged to take the British Council exam to evaluate their level of English proficiency after the training.

4.3 In-service training

Ellen Payongayong assisted Ricardo Oficio of DEST/MSU (an intern) in the preparation of data entry application for the windshield survey and they have worked on data quality issues with that survey.

For the Symposium for Agricultural Research on September 15-16, 2010, CESE analysts Alda Tomo and Isabel Cachomba presented research out of their MS theses. Tomo's presentation "[Impacto Económico do Controlo da Doença Newcastle na Galinha Cafreal](#)" was based on her MS research at MSU on controlling Newcastle disease with village chickens. Cachomba's presentation looked at wheat and the impact of reducing wheat imports ("[Impacto Económico da Redução da Importação do Trigo em Moçambique](#)"). Donovan worked with both analysts on the design of their presentations, which are available on the MSU and IIAM websites. In particular, Cachomba's presentation generated substantial debate concerning the advantages for the country of promoting domestic wheat production, which may be very inefficient, versus continuing to rely on imports.

Earlier, Mlay reviewed Cachomba's MS thesis and advised her on changes necessary to make it relevant for presentation in the Symposium. The preliminary results on the MSU study on profitability of wheat production were made available to help her to make the necessary changes.

Donovan and Mlay continue to work with DE and CESE analysts to encourage more quantitative analysis and higher quality of writing in their research.

INCPROX: Income Proxy measurement for monitoring and evaluation

In Q3 of FY2010, the USAID Mission requested that MSU implement another round of Income Proxy Survey with the Title II partners. In an effort to create local capacity for implementation of this survey, MSU identified the *Associação de Nutrição e Segurança Alimentar (ANSA)* ([ANSA](#)) as a local partner in implementing the surveys. ANSA signed a sub-agreement with MSU to execute the INCPROX survey during October – November 2010. According to the sub-agreement signed with MSU, ANSA will conclude their work by 15th of December 2010, although the dates will need to be flexible to relate to planning of the Title II cooperating sponsors. Periodic updates via email are used to keep the USAID Mission informed of progress. ANSA has the capacity to conduct the surveys, but will need MSU technical assistance for the economic analyses at this time.

5 Other USAID funded activities in Mozambique

5.1 Pulse CRSP

In collaboration with IIAM's CESE and DE/SIMA, MSU faculty members have supported bean research to understand the value chain for common beans and cowpeas in Mozambique. As mentioned above, Ana Lidia Gungulo is undertaking MS studies at the University of Pretoria under this program. The Pulse CRSP project with MSU and IIAM was granted a two year extension (Oct 2010- Sept 2012) with additional funding, and one focus will be on forming a Task Force or Innovation Platform for beans to bring together producers, traders, potential processors, and exporters. A capacity building project was approved which will include training on price and market analysis and will include Angolan researchers. A descriptive report on bean value chains is anticipated in late 2010. More information on this research can be found at <http://pulsecrsp.anr.msu.edu>.

5.2 Monetization report for World Vision

Under a contract with World Vision, funded by USAID, MSU analyzed the Title II Monetization Program from 1998 to 2007. The draft report was submitted, comments received in Q1 and the final report released in late 2009. Overall, the report found that the monetization of wheat and edible oil during the given period was relatively efficient and did not destabilize local markets. The monetization program may have helped to generate competition and participation of new agents in processing, although it was likely to have reduced international imports of those commodities. In agreement with World Vision and USAID, this work has been published as MSU [International Development Working Paper # 103](#).

6 Activities of MSU staff in Mozambique under Food Security Group, with additional external funding

MSU's Food Security Group (FSG) includes faculty, students, and staff involved in agricultural and food security policy research and outreach throughout Africa, including

Mozambique. FSG has developed various research and training efforts in Mozambique to leverage funding as well as to complement the activities under the local USAID program. These efforts includes the previously mentioned regional work with GISAMA (funded by the Bill and Melinda Gates Foundation), impact evaluation work under MCC, ReSAKSS, and baseline assistance to Cruzeiro do Sul for the CLUSA Cotton Value Chain Project.

6.1 GISAMA

Various MSU researchers have been involved in a set of activities with the GISAMA project. Research on the maize, cassava and horticulture value chain ties in well with the SIMA activities under FSG/Moz research and training. We have discussed some of the combined efforts in the text above.

One additional component of GISAMA relevant to Mozambique is the doctoral research by Andrew Kizito which includes econometric analysis of the impacts of price information on farmers' incomes and prices received, based on TIA data from Mozambique. Results show that access to market price information, controlling for other factors, can assist farmers in obtaining higher prices for their commodities. A GISAMA report on the results will be available in December 2010. Donovan is a member of Kizito's advisory committee.

For more information on GISAMA, see <http://www.aec.msu.edu/fs2/gisama/index.htm> .

6.2 MCC/MCA

MCC/MCA contract MSU FSG to conduct a baseline survey for the Farmer Income Support Program in association with the TIA and our colleagues at DE, and to conduct impact evaluation for the land activities. The FISP Coconut Sector Survey report was submitted December 2009, after incorporation of the adjusted TIA 2008 weights. Pitoro assisted with initial data cleaning and analysis; additional analysis and report writing were completed by Byron Reyes, Donovan and Payongayong. Donovan, Pitoro and Payongayong presented the Farmer Income Support Project (FISP) baseline report to MCA staff in Maputo and another presentation was made to stakeholders involved in the FISP under MCC and MCA funding in Quelimane. Raul Pitoro participated in the MCA's M&E planning meeting in 2010 where he presented the FISP baseline study results. MINAG/DE has requested that we continue to support dissemination of results of the survey as technical assistance to them.

Mywish Maredia, Songqing Jin, Ellen Payongayong, and Raul Pitoro are working in collaboration with MCA and their partners to implement the baseline survey for evaluating mapping and land inventory activities in Monapo and Nampula. For further information on the Mozambique Compact, see <http://www.mcc.gov/mcc/countries/mozambique/index.shtml> .

6.3 ReSAKSS

The MSU final report on “Trends and structure of agricultural expenditures” was submitted to ReSAKSS. This work was funded by ReSAKSS, but is seen to contribute to overall project activities with MINAG in priorities for agricultural spending. The report will be translated to Portuguese to be more accessible by staff of MINAG, MPD and Ministry of Finance, and will be available through ReSAKSS as soon as the World Bank releases the main document.

6.4 *Technical assistance to Cruzeiro do Sul for baseline survey for CLUSA Cotton Value Chain Project*

The draft baseline report was submitted to CLUSA by Cruzeiro do Sul in the previous fiscal year. In late 2009, we recommended edits and examination of the data. We have provided input into the data sampling methods and the crop income estimates for this baseline work. The impact assessment work is part of MSU’s initial effort to improve local capacity for such work.

6.5 AAMP/COMESA

In January 2010, as was indicated earlier, a major policy conference on price policy for agricultural commodities was held in Maputo, with substantial participation of DE staff and others from the Ministry of Agriculture. DE requested our assistance with various aspects for this conference, and Donovan helped Director Victorino Xavier to present the Mozambique country paper, which was drafted by Donovan and Tostao. For more information see <http://www.aec.msu.edu/fs2/aamp/index.htm>.

Annex 1 Webpage



Strengthening Mozambique's Capacity for Agricultural Policy Analysis, Productivity, Growth and Poverty Reduction

Projecto de Apoio ao Fortalecimento da Capacidade em Análise de Políticas, Produtividade Agrícola, Crescimento Económico e Redução da Pobreza em Moçambique



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Project Overview

MSU has worked with the Ministry of Agriculture (MINAG) in Mozambique since 1991 to increase MINAG's capacity to formulate and implement facilitative agricultural sector policies, strategies, and institutional reforms. Since 2004, assistance has also been provided to the National Agricultural Research Institute (IIAM). The twin goals of the current project are to expand the availability of appropriate crop, livestock and natural-resource management technologies for smallholder farmers, and to accelerate the uptake of those technologies by strengthening policy institutions and market information services. The project seeks to achieve this goal through formal and on-the-job training in the identification of priority policy issues, collection and timely analysis of relevant information, and prompt dissemination of actionable results to managers and policy makers.

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- Cumulative Project Output Reports: ([2008/09](#), [2007/08](#), [2006/07](#), [2005/06](#), [2004/05](#))
- [Prior Project Fact Sheet](#): summarizes project approach and output up to Sept 2004.
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- [On the Role of Government in Food Staples Markets: Perspectives from Recent Research and Implications for Mozambique](#). Emílio Tostão and David Tschirley. March 19, 2010. Volume 54e.
- [Medição do Impacto dos Bens Públicos e Privados sobre os Rendimentos Familiares Provenientes de Culturas em Moçambique Rural, 2002-2005](#). David Mather, Cynthia Donovan, and Duncan Boughton. November 5, 2009. Volume 53p.
- [Measuring the Impact of Public and Private Assets on Household Crop Income in Rural Mozambique, 2002-2005](#). David Mather, Cynthia Donovan, and Duncan Boughton. November 5, 2009. Volume 53e.

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IIAM

- [Prospects for BT Cotton In Mozambique](#). Raul Pitoro, Tom Walker, David Tschirley, Scott Swinton, Duncan Boughton, and Higino de Marrule. IIAM-DFDTT Research Report No. 5E. June 2009.
- [Analysis of Adoption of Orange-Fleshed Sweet Potatoes: The Case Study of Gaza Province in Mozambique](#). Feliciano M. Mazuze. IIAM-DFDTT Research Report No. 4E. December 2007.
- [Estabelecimento de Prioridades para a Investigação Agrária no Sector Público em Moçambique Baseado nos Dados do Trabalho de Inquérito Agrícola \(TIA\)](#). T. Walker, R. Pitoro, A. Tomo, I. Siteo, C. Salência, R. Mahanzule, C. Donovan, and F. Mazuze. IIAM-DFDTT Relatório de Pesquisa 3P. August 2006.

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MINAG

- [The Evaluation of the Impacts of Title II Monetization Programs for Wheat and Crude Edible Oils in Mozambique, 1997-2007](#). Cynthia Donovan, Helder Zavale, and David Tschirley. IDWP 103. January 2010.
- RP 67: [Measuring the Impact of Public and Private Assets on Household Crop Income in Rural Mozambique, 2002-2005](#). D. Mather. July 2009.
- [Are Staple Foods Becoming More Expensive for Urban Consumers in Eastern and Southern Africa? Trends in Food Prices, Marketing Margins, and Wage Rates in Kenya, Malawi, Mozambique, and Zambia](#). Nicole Mason, T.S. Jayne, Cynthia Donovan, and Antony Chapoto. IDWP 98. June 2009.

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Policy Presentations: in collaboration with its partners in MINAG, IIAM and USAID/Mocambique, MSU maintains an active policy outreach program. In addition to presentations by project personnel, MSU has assisted MINAG and IIAM leadership in preparing presentations for both local and international policy fora. [Top](#)

IIAM

- [Metodologias de Análise Económica de algodão ao nível de campo](#). Raúl Pitoro. Preparado para o Treinamento em "Integrated Crop Management" do IAM. Beira. 24 de Setembro 2010.
- [Impacto Económico do Controlo da Doença de Newcastle na Galinha Cafrea](#). Alda Tomo. Apresentação no 2o Simpósio de Investigação Agrária em Moçambique. UEM, Campus Universitário Principal, 16 de Setembro de 2010.
- [Impacto Económico da Redução da Importação do Trigo em Moçambique](#). Isabel Cachomba. Apresentação no 2o Simpósio de Investigação Agrária em Moçambique. UEM, Campus Universitário Principal, 16 de Setembro de 2010.

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MINAG

- Conferencia: [Seminário sobre Perspectivas de Produção e Comercialização Agrícola na Campanha 2009/2010](#), organizado pela Direcção de Economia do Ministério da Agricultura, 12 de Julho 2010, Maputo.
- [Sobre o Papel do Governo no Mercado de Alimentos Básicos: Panorama Baseado em Pesquisa Recente e Implicações para Moçambique](#). Emilio Tostão and David Tschirley. Apresentado no Conselho Técnico do MINAG, Maputo, 24 de Junho, 2010.
- [Monitoring Production and Adoption of OFSP: Lessons from TIA. Directorate of Economics, MINAG](#). Presented by Anina Manganhele with support from Ellen Payongayong. Presentation at the Launching Conference for Sweet Potato Action for Security and Health in Africa (SASHA), held at IIAM, Maputo, 4 June 2010

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- Workshop on Ex-Ante 'Best Bet' Technologies Assessment in Research/Extension Context. Namaacha, Mozambique. June 20-24, 2007.
- Workshop on the Transfer of Agricultural Technology, held 6-7 March 2007, Nampula, Mozambique.

Theses Reprints: [Top](#)

- Tomo, Alda Armindo. [Economic Impact of Newcastle Disease Control in Village Chickens: A Case Study in](#)

[Mozambique](#). M. Sc. Thesis. 2009.*

- Cunguara, Benedito Armando. [Pathways Out of Poverty in Rural Mozambique](#). M.Sc. Thesis. 2008. (2 MB)*
- Benfica, Rui M.S. [An Analysis of Income Poverty Effects in Cash Cropping Economies in Rural Mozambique: Blending Econometric and Economy-Wide Models](#). PhD Dissertation. 2006. (1 MB)*

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Professional Publications [Top](#)

- Tschirley, David L., Colin Poulton, Nicholas Gergely, Patrick Labaste, John Baffes, Duncan Boughton and Gérald Estur (2010). "[Institutional Diversity and Performance in African Cotton Sectors](#)". *Development Policy Review*, 2010, 28 (3): 295-323
- Pitoro, Raul, Walker, T., Tschirley, D., Swinton, S., Boughton, D. and de Marrule, H. [Can Bt Technology Reduce Poverty Among African Cotton Growers? An Ex Ante Analysis of the Private and Social Profitability of Bt Cotton Seed in Mozambique](#). Contributed Paper prepared for presentation at the International Association of Agricultural Economists' Conference, Beijing, China, August 16-22, 2009.
- [Market Participation by Rural Households in a Low-Income Country: An Asset-Based Approach Applied to Mozambique](#). Duncan Boughton, David Mather, Christopher B. Barrett, Rui Benfica, Danilo Abdula, David Tschirley and Benedito Cunguara. *Faith and Economics* Vol 50, Fall 2007: 64-101.

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SIMA (Agricultural Marketing System of Mozambique) [Top](#)

MSU has assisted MINAG since 1991 in implementing an Agricultural Market Information System (SIMA). SIMA produces weekly (Quente-Quente) and monthly bulletins (Boletim Mensal). You'll find domestic prices of 25 products in 27 producer, wholesale, and retail markets throughout the country, plus regional and international prices of selected commodities, and market commentary.

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Since 1991, FSP has carried out or assisted in a large number of household surveys in Mozambique. 2005 National Agricultural Household Survey (TIA05)

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- [Repensar a Investigação Agrária em Moçambique](#). Gilead Mlay. Apresentação no 2o Simpósio de Investigação Agrária em Moçambique. UEM, Campus Universitário Principal, 16 de Setembro de 2010.
- [Agricultura de Conservação em Moçambique: Antecedentes, resultados & desafios](#). Inácio Nhancale. Apresentado no IIAM, 2 de Junho, 2010. (2MB)
- [Explorando o processo da adopção de Agricultura de Conservação no planalto de Angónia, Moçambique](#). Philip Grabowski. Proposta de Pesquisa. 1 June 2010. (High image quality: 2MB)
- [MSU in Mozambique: Support to Policy Analysis and Agricultural Research](#). Gilead Mlay, Cynthia Donovan, and Raul Pitoro. Presented at the *Launch of the Platform for Agricultural Research and Innovation in Mozambique*, held at the Mozambican Institute for Agricultural Research (IIAM), Maputo, Mozambique on April 19, 2010.
- [MSU em Moçambique: Apoio a Análise de Políticas e Investigação Agrícola](#). Gilead Mlay, Cynthia Donovan, e Raul Pitoro. Apresentação ao *Lançamento do Plataforma para Investigação Agrária e Inovação de Moçambique*, apresentado no Instituto de Investigação Agrária de Moçambique Maputo. 19 de Abril de 2010.
- [Can Bt Technology Reduce Poverty Among African Cotton Growers? An Ex Ante Analysis of the Private and Social Profitability of Bt Cotton Seed in Mozambique](#). Raul Pitoro, Tom Walker, David Tschirley, Scott Swinton, Duncan Boughton, and Higino de Marrule. Presentation prepared for the ABNE/GIBS Training. Maputo. March 22-24, 2010.
- [Lessons Learned from Zambian Experience with Conservation Farming](#). Steven Haggblade. Presented at the Mozambican Institute for Agricultural Research (IIAM), Maputo, Mozambique on November 18, 2009. [Portuguese version](#).

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- Conferencia: [Seminário sobre Perspectivas de Produção e Comercialização Agrícola na Campanha 2009/2010](#), organizado pela Direcção de Economia do Ministério da Agricultura, 12 de Julho 2010, Maputo.
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- [Monitoring Production and Adoption of OFSP: Lessons from TIA. Directorate of Economics, MINAG](#). Presented by Anina Manganhele with support from Ellen Payongayong. Presentation at the Launching Conference for Sweet Potato Action for Security and Health in Africa (SASHA), held at IIAM, Maputo, 4 June 2010
- [Dados do TIA: Vozes das Famílias Rurais. Cynthia Donovan](#). Apresentação na Reunião Nacional de Planificação, em Chimoio, 10-13 de Maio de 2010.
- [Sobre o Papel do Governo no Mercado de Alimentos Básicos. Panorama Baseado em Pesquisa Recente e Implicações para Moçambique](#). Emilio Tostão e David Tschirley. Apresentado no Instituto de Investigação Agrária de Moçambique Maputo. 24 de Março de 2010.
- [Food Prices Swings: the Case of Mozambique](#). Helder Zavale, Anabela Mabote, Antonio Paulo, Cynthia Donovan and Gilead Mlay. Presented at the FAO Workshop on: *Policies for the Effective Management of Food Prices Swings in African Countries*, held in Maputo, June 23-24, 2009.

Regional/International

- Conference: *Food Prices Variability: Causes, Consequences, and Policy Options* Maputo, Mozambique, January 25-30, 2010.
 - [Preços de Produtos Alimentares Básicos em Moçambique](#). Victorino Xavier, Cynthia Donovan, e Emilio Tostão.
- [Market Participation by Rural Households in a Low- Income Country: An Asset-Based Approach Applied to Mozambique](#). Duncan Boughton, David Mather, Christopher B. Barrett, Rui Benfica, Danilo Abdula, David Tschirley and Benedito Cunguara. Association of Christian Economists Panel Session on Making Markets

Work for the Rural Poor. Chicago USA. Jan 5, 2007.

- [Cotton Sector Reform in Sub-Saharan Africa: Mozambique Initial Country Report](#). Duncan Boughton and David Tschirley. Workshop on Multi-Country Review of Cotton Sector Reform Experience in Sub-Saharan Africa World Bank, Washington, D.C. 31 October – 2 November, 2006. [Workshop program](#).
- [Strategic Options for Achieving CAADP's Agricultural Growth Targets](#). T.S. Jayne, Duncan Boughton and colleagues at MSU. Presentation at the SAKSS-SA *Regional Workshop*. Johannesburg, October 4th, 2006.
- [Strengthening Mozambican Capacity for Agricultural Productivity Growth, Policy Analysis, and Poverty Reduction](#). Gilead Mlay. A Presentation to the SAKSS-SA *Regional Workshop* in Johannesburg, October 4th 2006.

Food Security III Cooperative Agreement between US Agency for International Development, EGAT/AG Bureau cooperating closely with Africa/SD Bureau, and MSU Department of Agricultural Economics.

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The following are a series of selected policy presentations made by or with the assistance of MSU personnel since October 2001.



IIAM

- [Metodologias de Análise Económica de algodão ao nível de campo](#). Raúl Pitoro. Preparado para o Treinamento em "Integrated Crop Management" do IAM. Beira. 24 de Setembro 2010.
- [Impacto Económico do Controlo da Doença de Newcastle na Galinha Cafrea](#). Alda Tomo. Apresentação no 2o Simpósio de Investigação Agrária em Moçambique. UEM, Campus Universitário Principal, 16 de Setembro de 2010.
- [Impacto Económico da Redução da Importação do Trigo em Moçambique](#). Isabel Cachomba. Apresentação no 2o Simpósio de Investigação Agrária em Moçambique. UEM, Campus Universitário Principal, 16 de Setembro de 2010.
- [Repensar a Investigação Agrária em Moçambique](#). Gilead Mlay. Apresentação no 2o Simpósio de Investigação Agrária em Moçambique. UEM, Campus Universitário Principal, 16 de Setembro de 2010.
- [Agricultura de Conservação em Moçambique: Antecedentes, resultados & desafios](#). Inácio Nhancale. Apresentado no IIAM, 2 de Junho, 2010. (2MB)
- [Explorando o processo da adopção de Agricultura de Conservação no planalto de Angónia, Moçambique](#). Philip Grabowski. Proposta de Pesquisa. 1 June 2010. (High image quality: 2MB)
- [MSU in Mozambique: Support to Policy Analysis and Agricultural Research](#). Gilead Mlay, Cynthia Donovan, and Raul Pitoro. Presented at the Launch of the Platform for Agricultural Research and Innovation in Mozambique, held at the Mozambican Institute for Agricultural Research (IIAM), Maputo, Mozambique on April 19, 2010.
- [MSU em Moçambique: Apoio a Análise de Políticas e Investigação Agrícola](#). Gilead Mlay, Cynthia Donovan, e Raul Pitoro. Apresentação ao Lançamento do Plataforma para Investigação Agrária e Inovação de Moçambique, apresentado no Instituto de Investigação Agrária de Moçambique Maputo. 19 de Abril de 2010.
- [Can Bt Technology Reduce Poverty Among African Cotton Growers? An Ex Ante Analysis of the Private and Social Profitability of Bt Cotton Seed in Mozambique](#). Raul Pitoro, Tom Walker, David Tschirley, Scott Swinton, Duncan Boughton, and Higino de Marrule. Presentation prepared for the ABNE/GIBS Training. Maputo. March 22-24, 2010.
- [Lessons Learned from Zambian Experience with Conservation Farming](#). Steven Haggblade. Presented at the Mozambican Institute for Agricultural Research (IIAM), Maputo, Mozambique on November 18, 2009. [Portuguese version](#).
- [Análise Comparativa Competitivadedo Subsector Algodoeiro em África. Pontos fortes e fracos da Cadeia de Valores do Subsector Algodoeiro Moçambicano](#). Raúl Pitoro, com apoio de Duncan Boughton, David Tschirley, e Gilead Mlay. Apresentação na Reunião Annual de Algodão. Nampula, Outubro de 2008.
- [Comentários dos TORs de Estudos Sócio-económicos do IAM. Estudo de fugas no Subsector Algodoeiro Moçambicano](#). Raúl Pitoro, Duncan Boughton e Gilead Mlay. Reunião Anual. Nampula, 28 de Outubro de 2008.
- [Mortalidade de Adultos na zona rural, definição de prioridades e programas de investigação](#). Raúl Pitoro com apoio de C. Donovan; F. Mazuze e G. Mlay. Apresentação no Primeiro Workshop Anual do Compete, Faculdade de Agronomia-UEM, Maputo, 12 de Agosto de 2008.
- [Tornar a investigação agrária relevante e produtiva](#). Gilead Mlay. Apresentação feita aos investigadores do IIAM, Centro Zonal Noroeste, Lichinga, 10 de Julho de 2008.
- [Fortalecimento da Capacidade Moçambicana para Aumento da Produtividade, Segurança Alimentar e Redução da Pobreza](#). G. Mlay, C. Donovan, R. Pitoro, F. Mazuze, D. Boughton. Uma apresentação no workshop sobre "Reforçando Parcerias e Receptividade da Investigação para Segurança Alimentar e Crescimento Agrário em Moçambique". Hotel VIP, Maputo, 4 de Junho de 2008.
- [Análise de Rendimento e Dinâmica da Pobreza nas Zonas Rurais de Moçambique 2002-2005](#). Raul Pitoro and Gilead Mlay (Centro do Estudos Sócio-Económicos/IIAM/MSU). Presented to the Working Group on the Revision of the Strategic Plan for the Agricultural Sector, January 31, 2008, Maputo.
- [Food Security in Mozambique](#). A Presentation on food security issues and future directions by the IIAM/Minag/MSU team at USAID for the US Government Accountability Office (GAO). Review Team. November 14, 2007. USAID offices, Maputo, Mozambique.

- [Avaliação dos Benefícios Económicos do Algodão Bt em Moçambique: Implicações para os Camponeses e Companhias Algodoeiras. Proposta de Pesquisa.](#) Raul Pitoro. Presentation at the National Cotton Sector Meetings held by the National Cotton Institute (IAM) with private sector stakeholders, Nampula, 8 November 2007.
- [Inventário de Tecnologias Agrárias em Moçambique.](#) Raul Pitoro. Presentation at the Workshop on the Transfer of Agricultural Technology in Mozambique, held 6-7 March 2007, Nampula.
- [Strengthening Mozambican Capacity for Agricultural Productivity Growth, Policy Analysis, and Poverty Reduction.](#) Gilead Mlay. A Presentation to the SAKSS-SA Regional Workshop in Johannesburg, October 4th 2006.
- [Resultados do Exercício de “Priority Setting” de Namaacha, 29 Maio – 01 Junho, 2006.](#) Raul Pitoro. Apresentado num encontro de PROAGRIL, IIAM, Maputo, Mozambique, 20 de Junho, 2006.
- [Debriefing on IIAM/MSU Collaboration with AGORA/HINARI Portuguese Training,](#) Maputo, Jan 24-26, 2006 (Note file size = 1.6 mb)
- [List of Participants in AGORA/HINARI Trainer of Trainer Workshop,](#) Maputo, Jan 24-26, 2006.
- [Insights from the Analysis of Rural Household Income in Mozambique.](#) A Presentation on work by the IIAM/Minag/MSU team at the EC Delegation. December 5, 2005. EC Delegation, 2820 Julius Neyere, Maputo, Mozambique.

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- Conferencia: [Seminário sobre Perspectivas de Produção e Comercialização Agrícola na Campanha 2009/2010](#), organizado pela Direcção de Economia do Ministério da Agricultura, 12 de Julho 2010, Maputo.
- [Sobre o Papel do Governo no Mercado de Alimentos Básicos: Panorama Baseado em Pesquisa Recente e Implicações para Moçambique.](#) Emilio Tostão and David Tschirley. Apresentado no Conselho Técnico do MINAG, Maputo, 24 de Junho, 2010.
- [Monitoring Production and Adoption of OFSP: Lessons from TIA. Directorate of Economics, MINAG.](#) Presented by Anina Manganhele with support from Ellen Payongayong. Presentation at the Launching Conference for Sweet Potato Action for Security and Health in Africa (SASHA), held at IIAM, Maputo, 4 June 2010
- [Dados do TIA: Vozes das Famílias Rurais.](#) Cynthia Donovan. Apresentação na Reunião Nacional de Planificação, em Chimoio, 10-13 de Maio de 2010.
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- [Algumas Observações Sobre a Recente Subida de Preços Internacionais.](#) David Tschirley. Presented at Instituto de Investigação Agropecuária de Moçambique Maputo, 13 de Novembro de 2009.
- [Food Prices Swings: the Case of Mozambique.](#) Helder Zavale, Anabela Mabote, Antonio Paulo, Cynthia Donovan and Gilead Mlay. Presented at the FAO Workshop on: Policies for the Effective Management of Food Prices Swings in African Countries, held in Maputo, June 23-24, 2009.
- [Are staple foods becoming more expensive for urban consumers in eastern and southern Africa?](#) N. Mason, T. Jayne, C. Donovan and A. Chapoto. Presentation at the Symposium on Food and Financial Crises and Their Impacts on the MDGs in Africa. Institute for African Development. Cornell University May 2, 2009
- [Exploring the Logic Behind Southern Africa's Food Crises.](#) T.S. Jayne and David Tschirley. Presented at the Symposium on The Food and Financial Crisis and their Impacts on Achievement of the Millennium Development Goals in Africa. Institute for African Development. Cornell University. 2 May 2009
- [Aplicação dos Dados do TIA.](#) G. Mlay. Apresentação na Reunião Nacional de Planificação Namaacha, 28-30 de Abril de 2009.
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- [Trabalho de Inquérito Agrícola 2007 \(TIA\).](#) Ministério da Agricultura. Presentation made at USAID Maputo. 04 Dec 2008.
- [Inquérito da Janela 2008: Resultados do Inquérito.](#) Equipe do SIMA. Apresentação numa Sessão do Governo Provincial de Nampula. Cidade de Nampula, Agosto de 2008.
- A evolução do desempenho das pequenas e médias explorações e o bem-estar dos agregados familiares rurais, 2002-2005. Disseminação dos resultados do TIA. G. Mlay com apoio de D. Mather, B. Cunguara, D. Abdula, C. Donovan, E. Payongayong, D. Boughton. Apresentações nas Províncias aos autoridades provinciais e as Direcções Provinciais de Agricultura nas províncias de [Cabo Delgado](#), [Gaza](#), [Maputo](#), [Nampula](#), e [Niassa](#), Julho 2008.
- [Análise da Renda e Dinâmica de Pobreza nas Zonas Rurais de Moçambique 2002-2005.](#) G. Mlay, D. Mather, B. Cunguara, D. Abdula, C. Donovan, E. Payongayong, D. Boughton. Apresentação no Seminário Nacional de Harmonização da Planificação para 2009. Namaacha, 2-3/Junho/2008.

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- [The Level and Structure of Rural Household Income in Mozambique](#). Presented by Raul Pitoro at the ReSAKSS Workshop “Evaluating Options for Agricultural Growth and Poverty Reduction in Mozambique, Focusing on Specific Interventions” held April 2, 2008, at the Hotel VIP, Maputo. Collaborators in the preparation of the presentation include G. Mlay, D. Mather, B. Cunguara, D. Abdula, C. Donovan, E. Payongayong, D. Boughton, F. Mazuze, and E. Macome.
- [O nível e a estrutura das rendas dos agregados familiares rurais em Moçambique](#). Apresentado por Raul Pitoro no “Workshop” do ReSAKSS “Avaliando Opções para o Crescimento Agrário e Redução da Pobreza em Moçambique com Vista a Intervenções Concretas,” dia 2 de Abril de 2008, Hotel VIP, Maputo. A apresentação foi elaborado com a colaboração de G. Mlay, D. Mather, B. Cunguara, D. Abdula, C. Donovan, E. Payongayong, D. Boughton, F. Mazuze, e E. Macome.
- [The Impacts of Prime-age Mortality on Rural Household Income, Assets, and Poverty in Mozambique](#). Cynthia Donovan. Invited presentation to the World Bank Workshop on Gender, Poverty and Demographics, held March 25, 2008, World Bank, Washington D.C.
- [Food Staples and African Farmers: An Investment Opportunity in a World of Rising Prices](#). Cynthia Donovan. USAID/EGAT/Agriculture seminar, presented March 2008, Washington DC.
- [Food Security in Mozambique](#). Duncan Boughton and Cynthia Donovan. A Presentation on food security issues and future directions for the public sector in Mozambique, including the Ministry of Agriculture and development agencies, at the Department of Agricultural, Food, and Resource Economics, for the Graduate Students Brown Bag. January 17, 2008. Michigan State University, East Lansing, Michigan.
- [Using the Market During Food Crises: What has been Learned in Southern Africa over the Past Decade?](#) David Tschirley and Thom Jayne. Presented at Vulnerability to and Early Warning for Food Emergencies: Conceptual Issues and Practical Implementation. FAO Global Information and Early Warning System (GIEWS) on Food and Agriculture. FAO, Rome. December 6-7, 2007.
- [The Ones Left Behind: Rural households and poverty in Mozambique after the death of an adult](#). Cynthia Donovan and David Mather. Presentation at the CASID/WID Friday Forum, International Center, Michigan State University. 30 November 2007.
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- [Strengthening Mozambican Capacity for Agricultural Productivity Growth, Food Security and Poverty Reduction. MSU- FOOD SECURITY III/MZ PROJECT](#). Gilead Mlay. A Presentation to the PROAGRI GROUP. Swedish Embassy, Maputo. October 11, 2007.
- [Impacts of Prime-age Adult Mortality in Mozambique: Gender Matters](#). C. Donovan and D. Mather. Poster presented at USAID for the Rural Incomes Exhibit, Maputo, Mozambique, October 15, 2007.
- [Estratégias para Desenvolver o Sector Agrário em Moçambique Componente de Pesquisa: Comercialização Agrícola](#). Danilo Carimo Abdula. Apresentado no Workshop para a definição dos ToR para a Revisão do PAEI e formulação do Plano Estratégico do MINAG. Julho, 2007.
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- [Mortalidade, HIV e Impactos sobre Famílias Rurais](#). Cynthia Donovan, Angela Faria, and Maria Selemane. Presentation to the HIV/AIDS working group (SANHA) of the Secretariat for Food Security and Nutrition (SETSAN), Maputo, 20 June 2007.
- [Efeitos da Mortalidade de Adultos Activos nos Bens, Rendimentos, e a Pobreza dos Agregados Familiares Rurais em Moçambique](#). Maria Selemane. Presented at the MINAG/FAO workshop “Aspectos de integração do genero no TIA e CAP”, Maputo, May 17, 2007.
- [Power Point Presentation on TIA, Sampling Design and Relevant Information on Cereal Production in 2005](#). Ellen Payongayong. Maputo. April 2007.
- [Markets, Livelihoods and Vulnerability Assessment](#). Cynthia Donovan. Presentation to the Analytical Workshop on the GAV/SETSAN Baseline Study 2006. Held November 14, 2006, Hotel Cardoso, Maputo.
- [Analysis of Income and Poverty Dynamics in Rural Mozambique 2002-2005: Preliminary results based on TIA 02 and TIA 05 panel](#). Gilead Mlay with assistance of Ellen Payongayong, David Mather, Benedito Cunguara, and Cynthia Donovan. Presentation for the USAID Food Security Strategy Workshop, Nov 2-3, 2006, Maputo.
- [Perspectivas de Mercado Nacional e Regional do Grão de Milho](#). Apresentação de Pedro Arlindo e Danilo Abdula no Fórum de Comercialização Agrícola, iniciativa PAMA e AMODER, em Cuamba e Chiúre, Maio 2006.
- [Avaliação da Campanha de Comercialização Anterior](#). Apresentação de Danilo Abdula e Pedro Arlindo no Fórum de Comercialização Agrícola, iniciativa PAMA e AMODER, em Cuamba e

Chiúre, Maio 2006.

- [Tools for Market Evaluation in Emergency Needs Assessment](#). Cynthia Donovan. Presentation to SETSAN/FEWSNET based on work for World Food Programme. Maputo, April, 2006.
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- [Análise do Crescimento do Rendimento dos Agregados Familiares Rurais em Moçambique 1996-2002: Implicações para o Desenvolvimento Agrário no contexto do ProAgri 2e PARPA II](#). Preparado por técnicos da Direcção de Economia, MINAG, e da Universidade Estadual de Michigan. Maputo, Julio, 2005
- [Using Empirical Information in the Era of HIV/AIDS to Inform Mitigation and Rural Development Strategies: Selected Results from African Country Studies](#). Presentation by D. Mather at American Agricultural Economics Association Annual Meeting, Principal Paper Session 1: What Role for Agricultural Economists in Addressing the HIV/AIDS Pandemic? Providence, Rhode Island, July 25th, 2005.
- [Learning from the 2002/03 Crisis in Southern Africa: Lessons for the Current Year](#). Pedro Arlindo, David Tschirley, Jan Nijhoff, Billy Mwiinga, Michael T. Weber, and T.S. Jayne. Presentation at workshop on Maize Marketing and Trade Policies in Southern Africa: Toward Defining Appropriate and Mutually Supportive Roles for the Public and Private Sectors, Centurion Lake Hotel, Centurion, South Africa, June 21/22, 2005
- [A Economia dos Agregados Familiares em Áreas de Fomento de Algodão e Tabaco do Vale do Zambeze, Moçambique](#). Presentation of research results from RP59E made by Rui Benfica (MSU) at the Ministry of Agriculture of Mozambique. Maputo, May 2005.
- [Competition and Coordination in Cotton Market Systems in Southern and Eastern Africa](#). Cross-Country Workshop. Lusaka, Zambia. February 2005
- [What do we know about smallholder input use in Mozambique? Background information from MADER's national agricultural surveys](#). Tom Walker, Raul Pitoro, and Duncan Boughton MADER/IIAM/MSU. Presentation to AID Partners Planning Meeting, December, 2004.
- [Determinantes do Rendimento, Pobreza, e Percepção do Progresso Económico dos Agregados Familiares nas Zonas Rurais de Moçambique em 2001-2002](#). Apresentado na Reunião Nacional da Direcção de Economia do MADER. Pemba, Junho de 2004
- [Household Responses to Prime Age Adult Mortality in Rural Mozambique: Implications for HIV/AIDS Mitigation Efforts and Rural Economic Development Policies](#). David Mather, Cynthia Donovan, Michael Weber, Higinio Marrule, and Albertina Alage. Presentation at the Center for the Study of African Economies Conference, St. Catherine's College, Oxford, March 2004.
- [Mozambican Experience with Agricultural Market Information Systems](#). Danilo Abdula on behalf of DE/SIMA /MADER Team. Presentation made to the USDA, Washington DC, February 2004.
- [Mortalidade de Adultos na Idade Activa e Sobrevivência dos Agregados Rurais em Moçambique: Resultados Preliminares e Implicações dos Esforços de Mitigação do HIV/SIDA](#). (Portuguese)
- [Prime Age Adult Mortality and Household Livelihood in Rural Mozambique: Preliminary Results and Implications for HIV/AIDS Mitigation Efforts](#). (English)
- [Morbidez e Mortalidade dos Adultos no Moçambique: Prevalência e Estratégias para os Agregados Familiares Rurais que Enfretam Adversidade](#). (Portuguese). Presentation made by Higinio Marrule to the VETAID Workshop on Mitigating the Effect of HIV/AIDS on Food Security and Agriculture in Eastern and Southern Africa, Maputo, November 6, 2003. Albertina Alage (MADER/DNER), David Mather (MSU), and Cynthia Donovan (MSU) assisted in the preparation.
- [Mortalidade de Adultos na Idade Activa e Sobrevivência dos Agregados Rurais em Moçambique: Resultados Preliminares e Implicações dos Esforços de Mitigação do HIV/SIDA - Anexo Tabelas](#). (Portuguese). Presentation made by Higinio Marule (MADER) and Michael Weber (MSU) in Maputo. November 20 and 22, 2003. David Mather (MSU), Cynthia Donovan (MSU), and Albertina Alage (MADER/DNER) assisted in the preparation.
- [Prime Age Adult Mortality and Household Livelihood in Rural Mozambique: Preliminary Results and Implications for HIV/AIDS Mitigation Efforts-Annex Tables](#). (English)
- [Adult Illness and Death in Mozambique: Prevalence and Strategies for Rural Households Dealing with Adversity](#). (English)
- [Opening Address at the International Workshop "Food Aid - Contributions and Risks to Sustainable Food Security"](#) Presentation by Minister of Agriculture and Rural Development Helder Muteia, at the workshop in Berlin, Germany, September 2-3, 2003. Duncan Boughton and others assisted in the preparation of this talk.
- [Dinâmica do Sector Agrário em Moçambique](#). O Papel da Agricultura Comercial Familiar na Redução da Pobreza. (English translation-Agricultural Sector Trends: The Role of Commercial Smallholders in Poverty Reduction.) MADER seminar. Maputo. March 19, 2003 .

- [Qual o Papel da Agricultura Familiar Comercial no Desenvolvimento Rural e Reducao da Pobreza em Mocambique?](#) Presentation by Vice Minister of Agriculture and Rural Development Joao Carrilho to the Mozambican Association of Science and Technology. Maputo, October 2002. Rui Benfica and David Tschirley of MSU assisted in preparation.
- [Property Rights for Poverty Reduction: Mozambique's Land Law](#). Presentation by Minister of Agriculture and Rural Development Helder Muteia at the World Summit on Sustainable Development. Johannesburg, September 2002. Duncan Boughton, MSU In-Country Representative in Mozambique, assisted in preparation.
- [Desenvolvimento do Sector Agrario em Mocambique: Constrangimentos, Estrategias e Prioridades](#). Presentation by Minister of Agriculture and Rural Development Helder Muteia at the USAID/Mozambique seminar on its five year country strategy development. Maputo, October 2001. Jan Low and Duncan Boughton assisted in preparation.



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- [Prospects for BT Cotton In Mozambique](#). Raul Pitoro, Tom Walker, David Tschirley, Scott Swinton, Duncan Boughton, and Higinio de Marrule. IIAM-DFDTT Research Report No. 5E. June 2009. (CDIE Reference number PN-ADP-478)
- [Analysis of Adoption of Orange-Fleshed Sweet Potatoes: The Case Study of Gaza Province in Mozambique](#). Feliciano M. Mazuze. IIAM-DFDTT Research Report No. 4E. December 2007. (CDIE Reference number PN-ADL-590)
- [Estabelecimento de Prioridades para a Investigação Agrária no Sector Público em Moçambique Baseado nos Dados do Trabalho de Inquérito Agrícola \(TIA\)](#). T. Walker, R. Pitoro, A. Tomo, I. Siteo, C. Salência, R. Mahanzule, C. Donovan, and F. Mazuze. IIAM-DFDTT Relatório de Pesquisa 3P. August 2006. (CDIE Reference number PN-ADI-408)
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- [Are Staple Foods Becoming More Expensive for Urban Consumers in Eastern and Southern Africa? Trends in Food Prices, Marketing Margins, and Wage Rates in Kenya, Malawi, Mozambique, and Zambia](#). Nicole Mason, T.S. Jayne, Cynthia Donovan, and Antony Chapoto. IDWP 98. June 2009.
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- RP62E: [Toward Improved Marketing and Trade Policies to Promote Household Food Security in Central and Southern Mozambique: 2007 Update](#). David Tschirley and Danilo Abdula. September 2007. (CDIE Reference number PN-ADL-027)
- [Comparative Analysis of Organization and Performance of African Cotton Sectors: Learning From Experience of Cotton Sector Reform in Africa](#). Draft Final Report. David Tschirley, Colin Poulton, Nicolas Gergely, Patrick Labaste, John Baffes, Duncan Boughton, and Gérald Estur. September 6, 2007. (This

- paper was commissioned by the World Bank. This draft version appears here by the permission of the World Bank; the final version will be published as an official World Bank publication)
- RP61P. [Mudanças nos Padrões dos Rendimentos de Agregados Familiares Rurais em Moçambique de 1996 a 2002 e suas Implicações para a Contribuição da Agricultura para a Redução da Pobreza](#). Duncan Boughton, David Mather, David Tschirley, Tom Walker, Benedito Cunguara, and Ellen Payongayong. Dezembro de 2006. (CDIE Reference number PN-ADK-108)
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Sistema De Informação De Mercados Agrícolas De Moçambique (SIMA)



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Introdução

O Sistema de Informação de Mercados Agrícolas (SIMA) de Moçambique foi estabelecido pelo Ministério da Agricultura e do Desenvolvimento Rural (MADER) em 1991 e carregado com a coleta e a disseminação da informação dos mercados agrícolas. Esta informação inclui dados dos preços, oportunidades específicas do mercado, e informação de perspectiva de mercado. O boletim semanal, Quente-Quente forma a base das actividades, complementado pelos relatórios especiais e os Flash, boletins pontuais. Os técnicos do SIMA asseguram a transmissão da informação via la rádio, o jornal, a televisão, o internet, e em papel. Um total de 25 produtos são cubertos em 27 mercados dos niveis produtor, grossista e retalho.

Tras os anos, O SIMA desenvolveu-se constantemente dado os desafios novos, com inovações para responder as necessaidades dos utentes. Uma das inovações principais é a de-centralização do SIMA nacional através do estabelecimento de SIMA Provincias (SIMAPs). Ao nível provincial, o objectivo principal do SIMA é o desenvolvimento e fortalecimento da capacidade técnica local, para responder as necessidades locais, em parceria com as organizações locais e o setor privado.

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