

# FOOD SECURITY RESEARCH PROJECT – ZAMBIA

## Fourth Quarter Report, 2009

(October 2009 to December 2009)

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)

Swedish International Development Agency (SIDA)

*In Pictures: "Insights on natural resource management and rural development in Zambia: Moving from research evidence to action."*

## Three Research Questions

1. What is the effect of GMAs on household income?
2. What are the *sources* of income that generate the GMA effect?
3. What are the effects of GMAs on crop losses from wildlife damage?



Food Security Research Project Web Site

<http://www.aec.msu.edu/fs2/zambia/index.htm>

## Acronyms

---

|         |   |
|---------|---|
| ACF     | Agricultural Consultative Forum                                       |
| ACU     | Acceleration of Cassava Utilization                                   |
| AFS     | Agriculture and Food Security   |
| AIDS    | Acquired Immunity Deficiency Syndrome                                 |
| AIM     | Agricultural Input Marketing  |
| AMIC    | Agriculture Marketing Information Centre                              |
| CAADP   | Comprehensive African Agriculture Development Programme               |
| CFU     | Conservation Farming Unit   |
| CFS     | Crop Forecasting Survey   |
| COMESA  | Common Market Eastern and Southern Africa                             |
| CSO     | Central Statistics Office   |
| ECAPAPA | Eastern and Central Africa Programme for Agricultural Policy Analysis |
| FANRPAN | Food Agriculture and Natural Resources Policy Analysis Network        |
| FAO     | Food and Agriculture Organization of the United Nations               |
| FISP    | Farmer Inputs Support Programme                                       |
| FoDiS   | Food Crop Diversification Support Project                             |
| FRA     | Food Reserve Agency   |
| FSRP    | Food Security Research Project  |
| GART    | Golden Valley Agricultural Research Trust                             |
| GMA     | Game Management Areas   |
| GTAZ    | Grain Traders Association of Zambia                                   |
| HIV     | Human Immunity Virus  |
| INESOR  | Institute for Social and Economic Research                            |
| ITC     | International Trade Centre  |
| M&E     | Monitoring and Evaluation   |
| MACO    | Ministry of Agricultural and Cooperatives                             |
| MATEP   | Market Access, Trade and Enabling Policies                            |
| MCTI    | Ministry of Commerce, Trade, and Industry                             |
| MoFND   | Ministry of Finance and National Development                          |
| MSU     | Michigan State University   |
| NAIS    | National Agriculture Information Service                              |
| NGO     | Non Governmental Organization   |
| PAM     | Programme Against malnutrition  |

|       |   |
|-------|---|
| PFP   | Purchase for Progress                           |
| PIU   | Programme Implementation Unit                   |
| PS    | Permanent Secretary                             |
| PSD   | Private Sector Development Group                |
| SAKSS | Strategic Analysis and Knowledge Support System |
| SIDA  | Swedish International Development Agency        |
| TDY   | Temporary Duty assignment                       |
| UNDP  | United Nation Development Programme             |
| UNZA  | University of Zambia                            |
| VAT   | Value Added Tax                                 |
| WFP   | World Food Programme                            |
| ZARI  | Zambia Agricultural Research Institute          |
| ZBF   | Zambia Business Forum                           |
| ZNFU  | Zambia National Farmers Union                   |

## 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

Ministry of Finance and National Development (MFND)

Ministry of Commerce, Trade, and Industry (MCTI)

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)

## 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 local institutions and 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, Ministry of Finance and National Development, and Ministry of Commerce, Trade, and Industry 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. Status of FSRP Activities in the Fourth Quarter 2009**

#### **I. Public Investment Allocation for Promoting Agricultural Growth**

- ACF/FSRP hosted a national agriculture budget analysis workshop during this quarter following Government change in the budget cycle. FSRP staff conducted an analysis of the proposed budget allocations for 2010 and compared them to sector funding patterns in prior years. Director Kabaghe presented this assessment at the breakfast workshop, and the presentation has been posted to the FSRP website.
- FSRP was asked by FOSUP (Farmers Organization Support Programme) to present on the topic of the budget and investments for assisting their stakeholders. FSRP staff worked to extract findings from Supplemental Surveys on small and medium-scale production, marketing and other characteristics. These findings were integrated with materials from the annual budget review, and presented to FOSUP on Nov 5, 2009. See presentation below.
  - [Reporting from Agricultural Surveys: A Voice for Smallholders](#). Munguzwe Hichaambwa and Chance Kabaghe, at the Annual Small Scale Farmers' Forum, 05 Nov 2009, Barn Hotel, Lusaka.
- ACF/FSRP continued interacting with stakeholders in MACO, COMESA, Donors and State House to keep the momentum in the development of the CAADP process, the FISP, the Public Private Partnership marketing institution going.
- Continued work with ZARI and FoDiS to evaluate the rate of return on past cassava and sweet potato research and extension and a draft report will be circulated in the second quarter 2010. Outreach activities will include presentations to ZARI, ACU Task Force and other stakeholders.
- Continued data collection exercise for work on measuring the impact of rural roads investment on smallholder livelihoods in Zambia and a draft report is expected the first quarter of 2010.

#### **II. Productive Assets: Options for Sustainably Increasing Productivity and Incomes**

##### *1. Land access, agricultural growth and poverty dynamics in Zambia*

- As part of continuing to inform issues of smallholder access to land, FSRP staff, with assistance from MSU campus-based collaborators, completed from multiple sources an extensive collection of GIS shape files on land use in Zambia to help in a visual (graphical) review of land use patterns in Zambia. This is work in progress and additional information to ground test, and collect more information on the various land uses identified in the GIS shape files is being

sought from MACO GIS specialists, and from FAO, among other organizations. Preliminary GIS overlay maps are being constructed and circulated for further feedback.

- FSRP is responding to a Parliamentary Lands Sub-Committee request to discuss the pros and cons of proceeding with transferring land from customary to statutory land for the purpose of developing farm blocks and other large-scale farming operations. FSRP has been working to prepare a Memo for the Lands Sub-Committee and will later present their findings to the Parliamentary sub-committee during the first quarter of 2010.

## 2. Alternative strategies for maintaining soil productivity

- Work continued on a linear programming model of CF in order to measure the prospective gains to smallholder income by adopting CF and shifting peak season land preparation labor to the dry season. In Aug and Sept 2009, the FSRP team received detailed feedback from the CFU. In response to their suggestions, the team will be conducting additional analysis of herbicide use alternatives. The team expects to finalize this report during Q1 2010
- FSRP staff worked closely with CFU researchers to obtain their collaboration in the Dec 3 outreach workshop on natural resources issues and food security. CFU participation and presentation on conservation farming at this event were implemented, with valuable contributions from their on-going work.
- FSRP staff (Kabaghe and Weber) attended in December the CFU field demonstration of the working e-voucher that has been developed for use by CFU. The development of the e-voucher is a collaborative undertaking among CFU, Profit and CARE, among others that has come from the FSP Study Tour deliberations in 2009.

## 3. Labor supply, HIV/AIDS and agriculture

- FSRP/ACF is preparing to hold a 1-day workshop on Strategies for Mitigating the Impacts of HIV/AIDS on Rural Livelihoods and Agriculture in Zambia. FSRP/ACF is coordinating this workshop with PEG-NET. The workshop will involve international and local researchers and field practitioners; the date is set for February 4 in Lusaka.
- Continued to work study examining the longer-run impacts of HIV/AIDS on smallholder agriculture and rural livelihoods. A Zambian student studying at Makerere University in Uganda will assist complete study whilst on attachment starting February 2010.
- Finalizing the work on impacts of food aid on AIDS afflicted households in collaboration with UNZA Department of Agricultural Economics. Results from this study will be featured during the proposed FSRP/PEGnet HIV/AIDS workshop in on 4<sup>th</sup> February
- A report on Cross country work on **“Characteristics Associated with Prime-Age Mortality in Eastern and Southern Africa: evidence from Zambia and Kenya”** was finalized and has been published as a MSU International Development Paper and a variant of this study has been submitted to World Development for publication, and is awaiting reviewers’ comments.

## 4. Natural Resource Management

- Richardson and Weber convened on Oct 27, 2009 an outreach advisory group for planning and organizing of a public forum on natural resources management and rural development. The group was comprised of representatives from collaborating partner organizations and the University of Zambia. With the support of a consultant, the advisory group worked with ACF/FSRP to organize a larger outreach even on Dec 3. Materials and presentations from this planning meeting were posted to the FSRP website.
- During the planning meeting it was also agreed that the participating stakeholders would work together to identify and obtain background resource materials for contribution to a web based

resource directory to be posted to the FSRP website. Work on this progressed well and it was set up in Q4. Considerable materials were identified, posted and are downloadable with Zambia and international focus. A list of all the contribution is posted at the end of this Q4 report.

- The December 3 outreach event was conducted, which was entitled, “Insights on natural resource management and rural development in Zambia: Moving from research evidence to action.” The event was held 3 December 2009 at the Taj Pamodzi Hotel in Lusaka, and was attended by approximately 120 participants, including permanent secretaries, members of Parliament, village chiefs, and representatives from government ministries, the private sector, and cooperating partner organizations. The programme included research presentations from panelists organized around the themes of community-based natural resource management and rural land use. Research panels were followed by plenary discussions of the impacts and effectiveness of policies governing natural resources management and rural development. A summary set of policy recommendations were prepared and circulated to GRZ policy leaders in a number of ministries. This brief and all other materials presented at the outreach event were posted to the FSRP website. A full report of the proceedings of this event will be prepared in 1Q 2010.
- Richardson continued an examination of the determinants of household income from fuel wood and non-timber forest products and an analysis of urban household energy use.

### III. Marketing and Trade: Policies Affecting Input and Output Markets

#### 1. Maize Value Chain

- ACF/FSRP continued working out modalities of establishing a Private Public Partnership (PPP) Marketing Institution. The overall objective of PPP marketing institutions is to enhance market coordination and policy direction for improved agricultural market efficiency. Stakeholders are of the view that improved marketing under this PP arrangement will help stimulate production, but it should regulate marketing rather than be involved in physical purchases of agricultural commodities. It should be export oriented as the ones in South Africa and the United States of America. In addition, clear Government policies on FRA participation in the market are needed, and the Agricultural Marketing Council need to be revived. Thus ACF/FSRP coordinated the development of Implementation Manual on institution at a stakeholders’ retreat held at Fringilla Lodge from 15-20<sup>th</sup> November 2009. Stakeholders identified several challenges facing agricultural marketing throughout the value chain and assessed underlying causes and determined solutions. A report of the details of this analysis as well as the implementation manual is being developed. Essentially, however, it was agreed the PPP marketing institution have representation from farmers, the Zambia Institute of Marketers, farmer organizations, traders, processors, non governmental organizations, Government and bankers. This will be run by a council with 13 members (6 institutions, 3 individuals (two professional persons in agriculture commodities and livestock with 10 years experience and an eminent and experienced business person), and 4 high ranking Government officials). Resource mobilization for the institution will be through GRZ grants and Cooperating Partners/Donors
- As part of the maize value chain study, Dingi Banda from MACO continued working on “**Distributional effects of maize price levels on smallholder welfare**” for his M.S thesis, though a working paper will be produced as well.
- FSRP continued work on impacts of FRA operations on smallholder livelihoods with data collection from FRA and other sources.
- Chapoto and Jayne have prepared an analysis that compares the level of price instability in Zambia and five other countries in the region: Malawi, Mozambique, Kenya, Tanzania, Uganda, and Ethiopia. Their study concludes that the magnitude of maize price instability is highest in the countries that restrict regional trade through export and import bans and use

marketing boards to attempt to stabilize prices. Price instability tends to be lowest in the countries implementing an open borders approach to regional trade and whose interventions in the market are relatively limited and predictable. Outreach on this and other work related to food marketing and trade policies will be presented at a forthcoming regional workshop planned for May 2010 in Lusaka, in conjunction with COMESA and EAGC.

## 2. Cassava Value Chain

- While more cassava data cleaning took place in Q4 2009, work was slowed on revising the draft document which Lungu, Chinyama and Weber prepared “**Changes in Small and Medium-Scale Household Cassava Production and Marketing Patterns Between CSO/MACO/FSRP National-Level Supplemental Survey Periods 2004 and 2008**”. Problems with the data entry errors for cassava production data were resolved and up to date estimates of production for all three years of the Supplemental Surveys are now available. Further refinements of this document will be finalized in Q1 and 2, 2010.
- FSRP continued efforts of market monitoring prices, volumes, and sources of cassava in Lusaka and the Copperbelt, which are the biggest markets of cassava in Zambia. This has provided vital information on the trends in prices and volumes.
- Completed work on economic analysis of cassava production and processing. Findings were presented to the ACU Task Force though the report is yet to be posted on the website.
- Stephen Kabwe participated in the cassava stakeholders meeting to finalize the Cassava Sector Strategy Development at Cresta View Hotel.
- FSRP being the deputy chair of the Cassava Steering Committee, the Project was invited to a lunch of the Cassava Sector Strategic Plan by the Minister of Agriculture and Cooperatives at Mulungushi Centre. The Project was represented by Stephen Kabwe.
- FSRP continued in this quarter efforts of market monitoring prices, volumes, and sources of cassava continued at Soweto Market Lusaka. The market monitoring has provided vital information on the trends in prices and volumes in major markets.

## 3. Horticulture Value Chains

- *Wholesale market monitoring*: Continued the collection and processing of vegetable volume flows and pricing data as well finalization of a brochure on quality standards. Modified instrument for collecting information on volume flows to capture transportation costs for use in marketing margin analysis.
- *Horticultural price dynamics and trade flows*: Work on finalizing the working paper entitled “**The Structure and Behavior of Vegetable Markets Serving Lusaka**” continued and this should be posted on the website soon.
- Mukwiti Mwiinga and David Tschirley completed the working paper on “**Socio-Economic Research in Vegetable Production and Marketing in Africa**”, following their based on the paper they presented at a conference organized by ICIPE in Nairobi, Kenya.
- Tschirley, Hichaambwa and Mukwiti draft a chapter for a CABI book on **Comparative assessment of the marketing structure and price behavior of three staple vegetables in Lusaka, Zambia**. This was based on analysis from vegetable trade volume flows and pricing data and the Urban Consumption Survey data. This report has also been published as an FSRP working paper which can be cited at:  
Tschirley, David, Hichaambwa, M. and Mwiinga, M. 2009. [Comparative Assessment of the Marketing Structure and Price Behavior of Three Staple Vegetables in Lusaka, Zambia](#). FSRP Working Paper 44, December 2009.
- Based on analysis of horticultural price dynamics and trade flows data, that of the Urban Survey Consumption and Expenditure patterns general report, the Horticultural Rapid Appraisal and

additional analysis from the third Supplemental Survey FSRP presented a paper on fruits and vegetable production, marketing and consumption at the Fruits and Vegetables Commodity of the ZNFU Annual General Meeting. The presentation has been posted on the FSRP website as: [Fruit and Vegetable Production, Marketing and Consumption in Zambia: Overview of Empirical Analysis by FSRP](#). Chance Kabaghe, Munguzwe Hichaambwa, and David Tschirley. Presented at the ZNFU Fruits and Vegetables Annual General Meeting, Mulungushi International Conference Centre, Lusaka. 13 October 2009

#### 4. Cotton Value Chain

FSRP/MATEP has remained engaged on a practical policy level and has continued to utilize its research results to contribute to forward momentum towards eventual enactment of the revised Cotton Act and the Cotton Board that was formed afterwards. It has continued to interact with the Cotton Board advising on activities and issues in the cotton sector as well as other matters pertaining to the board's activities. The project has also participated in a multi-country comparative study on regulatory frameworks of the cotton sector. This work came out of the earlier multi-country comparable study on cotton reforms and will draw stakeholders to broader experiences of the impacts these have on the cotton sector in the Sub Sahara Africa region. Detailed activities carried out during the quarter are:

- Kabwe has written the first draft report on the key challenges of the Zambian Cotton Sector. The report will help the industry to develop the strategic plan of the cotton sector.
- Tschirley made a presentation on the regulatory research results at the World Bank workshop in Washington DC. The regulatory report is near final and will be published in this first quarter of 2010.
- Kabaghe and Kabwe attended a ceremony where the Ministry of Agriculture and Cooperatives handed over a weir and irrigation facility to the Cotton Development Trust. This project was sponsored by the World Bank to boost production of the cotton seed crop at the research station for the industry.
- Tschirley and Kabwe discussed with the Cotton Board of Zambia the development of a strategic plan for the cotton sector and the development of the Cotton Board Database. FSRP will develop a briefing paper upon which a hired consultant will develop a sector strategic plan. In addition, FSRP will assist with hosting of the database since the Cotton Board is still in its infancy.
- The Cotton Board continued interacting with various ginning companies on how well a farmer database could be developed. Presentation of some ginning companies' cotton farmers databases were made to the Board. Kabwe and the team involved in the designing of Cotton Board farmer database have been involved in these meetings/interactions.
- Kabwe continued getting some data from key ginning companies for the two upcoming studies: One is on ***“evaluating the boom-and-bust cycles in Zambia’s cotton sector and examining the impact of GOZ support to maize – in the form of FRA purchases and FSP fertilizer distributions – on decisions by smallholder farmers whether to plant cotton and how much”*** by Joey Goeb, an MS student based at MSU. The second report is an ***“empirical analysis of the factors affecting cotton productivity in Zambia”***. Kabwe and Tschirley developed a concept note for the second study and a working paper is expected in the third quarter of 2010. The two officers also met with Dunavant to discuss the possibility of using data from their cotton yield programme in this study as well as the earlier mentioned MS thesis work.
- Work on the comparative regulatory mechanism of cotton and tobacco continued and Kabwe met with the Executive Director of Zambia Competition Commission to get more data needed to finalize this report.
- Kabwe met with the Programme Manager for Cotton, Textiles and Clothing Sector Competitiveness of International Trade Centre (ITC) to learn more about Zambia’s cotton

sector, and learned that ITC facilitates the development of value chain of the cotton sector through regional integration.

### 5. Fertilizer Value Chain

- ACF/FSRP continued coordinating the development of the Farmer Input Support Programme (FISP) implementation manual. The FISP is meant to improve the effectiveness and efficiency of the FSP and is to be implemented through a voucher system starting from the 2010/11 agricultural season. ACF/FSRP facilitated the development of the Electronic Inputs Voucher System Implementation Manual for 2010/2011 Agricultural Season by bringing together key stakeholders at a retreat held at Fringilla Lodge from 15-20<sup>th</sup> November 2009. The team of experts was drawn from various organizations and these were: Zambia National Farmers Union (ZNFU), Grain Traders Association of Zambia (GTAZ), Programme Against Malnutrition (PAM), Zambia Cooperative Federation (ZCF), SEEDCO, Conservation Farming Unit (CFU), Food Reserve Agency (FRA) and the Ministry of Agriculture and Cooperatives (MACO). The overall objective of the voucher system is to improve farmers' purchasing power and access to inputs. The system is expected to:
  - Remove government from the tendering process of fertilizer as the suppliers will have to deal directly with the farmers.
  - Reduce the cost of transportation on the part of government because it is designed and will be implemented so as to promote rather than undercutting the development of a commercial inputs distribution system.
- The voucher system has already been implemented in several African countries. FSRP and MSU have documented the impacts of the subsidy program in Malawi, and are sharing results with Zambian government officials about specific aspects of the programme that have worked well as well as aspects that have not. As a pilot project in Zambia, the voucher system will be running together with FISP and eventually replace it if it succeeds.
- Details of the manual are being developed into a report which was being finalized in December 2009.

### 6. Livestock Value Chain

- The draft paper "**Zambia Livestock Sector Information from CSO/MACO/FSRP Surveys: 2007-2008 Urban Consumption Patterns and 2007/2009 Rural and Urban Livestock Numbers for Small, Medium and Large-Scale Households**" is still being revised. Feedback was obtained from MACO colleagues. This will be finalized and added to the ACF/FSRP web site in Q 1 2010. Additional livestock analysis in the context of the smallholder categorization analysis was completed in this quarter, and will be used to supplement materials in this draft report.
- Weber continued in this quarter to work to add information and internet-based resources on various types of livestock in preparation for the FSRP website Topic Directory on livestock resources.

## **IV. Consumption Behavior of Urban and Rural Households**

- Hichaambwa, Chapoto, Weber and Beaver completed the general report based on the urban consumption data: "**Patterns Of Urban Consumption And Expenditure In Zambia: A General Report Based On The CSO/MACO/FSRP Urban Consumption Survey In Urban**

**Areas Of Lusaka, Kitwe, Mansa And Kasama, 2007-2008”**. The report has been posted on the FSRP website.

- Mason and Jayne completed an analysis of urban staple food consumption patterns in Zambia based on the urban consumption data: “Staple Food Consumption Patterns in Urban Zambia: Results from the 2007/2008 Urban Consumption Survey”. The report and a related policy synthesis have been posted to the FSRP website.
- Spatial dimensions of staple food consumption, production and marketing Zambia operates in a regional economy. In good harvest years, Zambia exports food. In bad years, the country requires imports. Even in normal seasons, Zambia’s proximity to the DRC makes it economical for surplus commercial farms in northern and central Zambia to supply large urban markets in Katanga and Kasai provinces of DRC. This policy synthesis provides a visual map of Zambia’s population, food consumption, production and trade flows in a regional context in order to help policy makers understand spatial interactions in staple food markets. By presenting market information visually, this policy syntheses aims to help animate an ongoing dialogue on key market flows, key bottlenecks and key opportunities for improving food security in good and bad harvest years. The draft report continued circulating for comments during the quarter under review. It is expected to be finalized in Q1 2010.

## **V. Household Impact and Behavior**

- Weber and Chapoto continued working with ACF to refine, distribute and discuss the smallholder categorization tables developed to examine various rural household socio-economic characteristics according to household land and assets access attributes. This work is expected to go on up to Q4 2010.
- Haggblade and Chapoto in collaboration 2 lectures with UNZA Department of Sociology and Agricultural Economics continued to work on the poverty dynamics study. Field work for this study will began in October 2009. Part of the field interviews were completed before the start of the rainy season. The remainder will be interviewed in July 2010.

## **VI. General Policy Research and Outreach Support, Including Zambian Collaborator In-Service Strengthening**

- Weber and Longabaugh continued worked with various FSRP researchers to revise the FSRP web site to enhance and expand materials in the **Zambia Specific Work and Background Resources Directories by adding Other Cross-Country Research and Outreach Topic Directories**
- FSRP began in this reporting period interacting with CSO and MACO in improving the crop forecast survey questionnaire to capture information on costs of production among other variables and the modified questionnaire will be pre-tested in the first quarter of 2010 before finalization for data collection.
- Collaboration with ACF included:
  - FSRP began in this reporting period interacting with CSO and MACO in improving the crop forecast survey questionnaire to capture information on costs of production among other variables and the modified questionnaire will be pre-tested in the first quarter of 2010 before finalization for data collection.
  - [High Prices and the Impending Food Crisis—Short- and Long-Run Responses](#)
  - Participation in development of the ACF/FSRP workplan
  - Joint hosting of the 2010 national budget analysis meeting
  - Joint facilitation of stakeholder meetings for the development of the PPP marketing institution and preparation of the FISP implementation manual
  - Participation in stakeholder meetings

- Participation in the finalization of the ToRs for the wheat value chain study and preparation of the ToRs for the dairy value chain study
- Participation of ACF in the FSRP Advisory Board Meeting
- Participation in ACU activities
- Participation in the Cotton Task force as well as the Cotton Board
- Collaborated with Programme Manager for Cotton, Textiles and Clothing Sector Competitiveness of the International Trade Centre on cotton issues
- Participated in the development and launching of the Cassava Sector Strategy
- Collaborated with UNZA on the Poverty Dynamics work
- ACF/FSRP collaborated with the Natural Resources Consultative Forum, Community Based Natural Resources Management Forum, UNZA in hosting a workshop on *“Insights on Natural Resources Management and Rural Development in Zambia: Moving from Research Evidence to Action”*.
- Participated in the ZNFU Annual General Meeting and presented a paper on *“Production and Marketing of Fruits and Vegetables in Zambia: Overview of FSRP empirical analysis”*.
- Participated in the Farmer Organizations Support Project and presented papers on *“reporting from Agricultural Surveys: A voice for Smallholder Farmers”* and *“Highlights of the of the 2010 National Budget”*.
- Participated in CAADP meetings
- Participated in Agricultural Sector Advisory Group meetings
- Participated in the official handover of the irrigation facility to the Cotton Development Trust

## VII. Staff changes

Messrs Auckland Kuteya and Humphrey Fandamu, and Solomon Tembo were recruited by the project during the quarter as Research Associates and Specialist respectively.

## VIII. Project Visitors

- Robert Richardson visited during the quarter for his continuing work in natural resources and to organize and participated in the natural resources management workshop
- Mike Weber made two backstop visits (Oct and Dec) to support on-going work in a number of areas, and participated in the Dec 3 natural resources management workshop
- David Tschirley visited for his continuing work in horticultural and cotton value chains
- Thom Jayne visited with Jim Shaffer for his work in maize and fertilizer value chains and productivity work as well as attend the Advisory Board Meeting and other project management matters

## IX. Most Recent Research and Outreach Publications Added to Web Site 4<sup>th</sup> Quarter – 2009

### Policy Syntheses

- [Staple Food Consumption Patterns in Urban Zambia: Results from the 2007/2008 Urban Consumption Survey](#). Nicole M. Mason and T. S. Jayne. Number 36, December 2009.
- [Impact Of Natural Resource Conservation Policies On Household Consumption Around Zambian National Parks](#). Gelson Tembo, Sushenjit Bandyopadhyay and Jean-Michel Pavy. Number 35, October 2009.

### Research Reports

- Tschirley, David, Hichaambwa, M. and Mwiinga, M. 2009. [Comparative Assessment of the Marketing Structure and Price Behavior of Three Staple Vegetables in Lusaka, Zambia](#). FSRP Working Paper 44, December 2009.
- [Patterns Of Urban Food Consumption And Expenditure In Zambia: An Overview Report Based on the CSO/MACO/FSRP Food Consumption Survey in Urban Areas of Lusaka, Kitwe, Mansa and Kasama, 2007-2008](#). Munguzwe Hichaambwa, Margaret Beaver, Antony Chapoto and Michael Weber. Working Paper No. 43. December, 2009.
- [The Impacts of Trade Barriers and Market Interventions on Maize Price Predictability: Evidence from Eastern and Southern Africa](#). Antony Chapoto and T.S. Jayne. Michigan State University. IDWP 102. December 2009.
- [Staple Food Consumption Patterns in Urban Zambia: Results from the 2007/2008 Urban Consumption Survey](#). Nicole M. Mason and T.S. Jayne. Working Paper No. 42. November 2009.

## Policy Presentations

- [Maize Price Volatility in Zambia](#). Jan Nijhoff and Antony Chapoto. Presented at a meeting on Zambia's Agricultural Finance Market, organized by the Zambia National Farmers Union and the PROFIT Program, held in Lusaka, 9 December, 2009.
- Insights on Natural Resource Management and Rural Development in Zambia: Moving From Research Evidence to Action. Collaborating Partner Public Forum. Pamodzi Hotel, 03 December, 2009
  - [Forum Final Programme](#)
  - [Opening Comments](#) - Honorable Minister of Minister of Tourism, Environment and Natural Resources
  - Forum Summary Document and Suggestions for Action for SNDP and Beyond
    - [Recommendations for Policy Leaders in MTENR, MACO, Livestock and LANDS](#)
    - Proceedings Document
  - Panel Presentations on Community-Based Natural Resource Management
    - [The impact of wildlife management policies on communities and conservation in Game Management Areas in Zambia](#). Alimakio Zulu(NRCF)and Mwape Sichilongo (CBNRMF)
    - [Household Consumption and Natural Resource Management around National Parks in Zambia](#). Dr. Gelson Tembo, (UNZA)
    - [The Impacts of Wildlife Conservation Policies on Rural Welfare in Zambia](#). Dr. Robert Richardson, (FSRP/MSU)
  - Panel Presentations on Land Use and Intensification of agriculture/livestock production and potential for productivity enhancements
    - [The Challenge of Integrating the Goals of Productive Land Use and Broad-Based Agricultural Development In Zambia](#). Dr. Antony Chapoto (FSRP)
    - [Conservation Farming and Related Natural Resource Policies for Sustainable Agricultural Intensification-Two Key Issues](#). Peter Aagaard
    - [Improving the lives of poor farmers, rewarding farming practices that protect nature: COMACO](#). Dr. Dale Lewis, Wildlife Conservation Society
    - Supplemental Paper: [Community Markets for Conservation \(COMACO\): Scaling up Conservation Impact through Markets that Change Livelihoods](#). Dale Lewis.
- [The Impact of Wildlife Conservation on Rural Development in Zambia](#). Robert B. Richardson, Ana Fernandez and David Tschirley. Presented at Regional Science Association International (RSAI). San Francisco, CA. November 19, 2009.
- [Food Security Research Project. Briefing on FSRP Regional Trade Activities](#). Jan Nijhoff. USAID Mission. Lusaka. Monday, November 9th, 2009

- [Integrating the Goals of Productive Land Use and Broad-Based Agricultural Development.](#) T.S. Jayne. FSRP. Presentation at USAID/Zambia. November 9, 2009.
- [Measuring the Effects of Natural Resource Conservation Policies on Household Welfare.](#) Robert B. Richardson and David Tschirley. Brown Bag Seminar Series Department of Agricultural, Food and Resource Economics. November 10, 2009.
- [Reporting from Agricultural Surveys: A Voice for Smallholders.](#) Munguzwe Hichaambwa and Chance Kabaghe, at the Annual Small Scale Farmers' Forum, 05 Nov 2009, Barn Hotel, Lusaka.
- [Food Price Spikes and Strategic Interactions between the Public and Private Sectors: Market Failures or Policy Failures?](#) T.S. Jayne and David Tschirley. Presented at the expert meeting on "Institutions and Policies to Manage Global Market Risks and Price Spikes in Basic Food Commodities," FAO Headquarters, Rome, Italy. 27-28 October 2009
- Planning Meeting for Outreach Activities: Research and Outreach Towards Game Park and Natural Resource Management to Improve Rural Household Welfare in Zambia. NRCF (Natural Resources Consultative Forum), CBNRMF (Community-Based Natural Resource Management Forum), UNZA (University of Zambia), ACF (Agricultural Consultative Forum)/FSRP (Food Security Research Project) ACF Conference Meeting Room, lot 30 G, Sable Road, Kabulonga. 27 October, 2009 at 09:30 -11:30 hrs
  - [Programme of Presentation and Discussion.](#)
  - Alimakio Zulu and Mwape Sichilongo. NRCF and CBNRMF. What was learned and possible ways forward from the June 2008 workshop: "[The Impact Of Wildlife Management Policies On Communities And Conservation In Game Management Areas In Zambia](#)".
  - Dr. Gelson Tembo, UNZA "[Household Consumption and Natural Resource Management around National Parks in Zambia](#)".
  - Dr. Robert Richardson, FSRP/MSU. "[The Impact of Wildlife Conservation Policies on Rural Welfare in Zambia.](#)"
  - Dr. Michael Weber, FSRP/MSU. "[Smallholder Land Access Research - Possible Interactions with Natural Resource & GMA Issues.](#)" See also [Table 1 and 2 handouts.](#)
- [What is in the 2010 National Budget for Zambian Agriculture?](#) ACF/FSRP in Collaboration with MACO/CSO. Breakfast Budget Review Meeting: Pamodzi Hotel, Lusaka -20 Oct, 2010.
- [Fruit and Vegetable Production, Marketing and Consumption in Zambia: Overview of Empirical Analysis by FSRP.](#) Chance Kabaghe, Munguzwe Hichaambwa, and David Tschirley. Presented at the ZNFU Fruits and Vegetables Annual General Meeting, Mulungushi International Conference Centre, Lusaka. 13 October 2009

## **A Collaborative Effort To Locate and Make Accessible Resource Materials**

NRCF (Natural Resources Consultative Forum)

CBNRMF (Community-Based Natural Resource Management Forum)

UNZA (University of Zambia)

ACF (Agricultural Consultative Forum)/FSRP (Food Security Research Project)

### **FSRP Policy Briefs [Top](#)**

- [Impact Of Natural Resource Conservation Policies On Household Consumption Around  
Zambian National Parks](#). Gelson Tembo, Sushenjit Bandyopadhyay and Jean-Michel Pavy. Number 35, October 2009.
- [Access To Land And Poverty Reduction In Rural Zambia: Connecting The Policy Issues](#). T. S. Jayne, Ballard Zulu, Gear Kajoba and M. T. Weber. Number 34, Sept 2009.
- [The Impacts of Wildlife Conservation Policies on Rural Household Welfare in Zambia](#). Ana Fernandez, Robert B. Richardson, David Tschirley, and Gelson Tembo. Number 33, September 2009.
- [The Impact of Wildlife Management Policies on Communities and Conservation in Game Management Areas in Zambia: Message to Policy Makers](#). Phyllis Simasiku, Hopeson I. Simwanza, Gelson Tembo, Sushenjit Bandyopadhyay and Jean-Michel Pavy. Published by the Natural Resources Consultative Forum NRCF). June 2008 Policy Brief posted by FSRP.

### **FSRP Research Publications [Top](#)**

- [Wildlife Conservation in Zambia: Impacts on Rural Household Welfare](#). Ana Fernandez, Robert B. Richardson, David Tschirley, and Gelson Tembo. Working Paper No. 41. September 2009.
- [Access to Land, and Poverty Reduction in Rural Zambia: Connecting the Policy Issues](#). T.S. Jayne, Ballard Zulu, Gear Kajoba, and M.T. Weber. Working Paper No. 34. October 2008.

### **FSRP Outreach Presentations [Top](#)**

- Insights on Natural Resource Management and Rural Development in Zambia: Moving From Research Evidence to Action. Collaborating Partner Public Forum. Pamodzi Hotel, 03 December, 2009
  - [Forum Final Programme](#)
  - [Opening Comments](#) - Honorable Minister of Minister of Tourism, Environment and Natural Resources
  - Forum Summary Document and Suggestions for Action for SNDP and Beyond
    - [Recommendations for Policy Leaders in MTENR, MACO, Livestock and LANDS](#)
    - Proceedings Document
  - Panel Presentations on Community-Based Natural Resource Management
    - [The impact of wildlife management policies on communities and conservation in Game Management Areas in Zambia](#). Alimakio Zulu(NRCF)and Mwape Sichilongo (CBNRMF)
    - [Household Consumption and Natural Resource Management around National Parks in Zambia](#). Dr. Gelson Tembo, (UNZA)

- [The Impacts of Wildlife Conservation Policies on Rural Welfare in Zambia.](#) Dr. Robert Richardson, (FSRP/MSU)
- Panel Presentations on Land Use and Intensification of agriculture/livestock production and potential for productivity enhancements
  - [The Challenge of Integrating the Goals of Productive Land Use and Broad-Based Agricultural Development In Zambia.](#) Dr. Antony Chapoto (FSRP)
  - [Conservation Farming and Related Natural Resource Policies for Sustainable Agricultural Intensification-Two Key Issues.](#) Peter Aagaard
  - [Improving the lives of poor farmers, rewarding farming practices that protect nature: COMACO.](#) Dr. Dale Lewis, Wildlife Conservation Society
    - Supplemental Paper: [Community Markets for Conservation \(COMACO\): Scaling up Conservation Impact through Markets that Change Livelihoods.](#) Dale Lewis.
- [The Impact of Wildlife Conservation on Rural Development in Zambia.](#) Robert B. Richardson, Ana Fernandez and David Tschirley. Presented at Regional Science Association International (RSAI). San Francisco, CA. November 19, 2009.
- [Measuring the Effects of Natural Resource Conservation Policies on Household Welfare.](#) Robert B. Richardson and David Tschirley. Brown Bag Seminar Series Department of Agricultural, Food and Resource Economics. November 10, 2009.
- [Integrating the Goals of Productive Land Use and Broad-Based Agricultural Development.](#) T.S. Jayne. FSRP. Presentation at USAID/Zambia. November 9, 2009.
- [Household Consumption and Natural Resource Management around National Parks in Zambia.](#) Gelson Tembo, UNZA. Presented at the Workshop Research and Outreach Towards Game Park and Natural Resource Management to Improve Rural Household Welfare in Zambia. October 27, 2009
- [The Impact of Wildlife Conservation Policies on Rural Welfare in Zambia.](#) Robert Richardson, FSRP/MSU. October 27, 2009
- [Smallholder Land Access Research - Possible Interactions with Natural Resource & GMA Issues.](#) See also [Table 1 and 2 handouts.](#) Michael Weber, FSRP/MSU. Oct 27, 2009
- [Tourism and Wildlife Conservation in Africa: Measuring the Impacts to Rural Households.](#) Robert B. Richardson and Ana Fernandez. Department of Agricultural, Food and Resource Economics (AFRE) Brown Bag Seminar Series. November 18, 2008.

## Background Publications – Zambia Specific [Top](#)

### *Natural resources and/or pro-poor tourism*

- [The Impact Of Wildlife Management Policies On Communities And Conservation In Game Management Areas In Zambia: Message To Policy Makers.](#) June 2008. by Phyllis Simasiku, Hopeson I. Simwanza, Gelson Tembo, Sushenjit Bandyopadhyay and Jean-Michel Pavy. Natural Resources Consultative Forum of Zambia.
- [Creating and Protecting Zambia's Wealth: Experiences and Next Steps in Environmental Mainstreaming.](#) 2009. by Lubinda Aongola, Stephen Bass, Juliana Chileshe, Julius Daka, Barry Dalal-Clayton, Imasiku Liayo, Joseph Makumba, Maswabi Maimbolwa, Kalaluka Munyinda, Nosiku Munyinda, David Ndopu, Imasiku Nyambe, Adam Pope and Mwape Sichilongo.
- [Household Consumption and Natural Resource Management around National Parks in Zambia.](#) 2009. Sushenjit Bandyopadhyay and Gelson Tembo World Bank Policy Research Working Paper 4932.
- [Opportunities and challenges for sustainable management of miombo woodlands: the Zambian perspective.](#) 2008. Fabian M. Malambo and Stephen Syampungani. Copperbelt University, School of Natural Resources. Working Papers of the Finnish Forest Research Institute 98: 125–130.

- [Economic and Poverty Impact of Nature-based Tourism](#). Zambia. 2007. World Bank Report No. 43373-ZM. (14 MB)
- [Contribution of dry forests to rural livelihoods and the national economy in Zambia](#). 2007. Charles B.L. Jumbe, Samuel Mulenga Bwalya and Madeleen Husselman. CIFOR.
- [Review And Synthesis Of Lessons Learned Concerning Optimum Forms Of Community Management Structures For Multiple Resource Management In Zambia And Southern And Eastern Africa](#). 2008. Development Services And Initiatives (DSI)
- ADMADE
  - Lessons Learned Papers
    - [African College for CBNRM](#). Around 2000-2004.
    - [Next Generation Approaches to CBNRM Institutions in Zambia: Building on a Decade of Experience](#)
  - [An Evaluation Today and the Future: Policy Issues and Directions](#). Paul Andre DeGeorges. 1992.
- [Fisheries in Zambia: An undervalued contributor to poverty reduction](#). Musole M. Musumali, Simon Heck, Saskia M.C. Husken and Marcus Wishart. 2009. World Fish Center and The World Bank.
- [Inventory and Analysis of Community Based Tourism in Zambia](#). Louise Dixey. Production, Finance and Technology (PROFIT). Nov 2005.
- [Community Based Tourism in Zambia: Lessons and Recommendations](#). Louise Dixey. Production, Finance and Technology (PROFIT). Nov 2005.
- [Luangwa Safari Association Tourism Study](#). Adam Pope. WHYDAH Consulting Ltd. April 2005.
- [A Financial and Economic Analysis of the Costs and Benefits of Managing the Protected Area Estate](#). UNDP/GEF Funded Project on Reclassification and Sustainable Management of Zambia's Protected Area Systems. 2004.
- [A Study of the Nature-Based Tourism Supply Side in Zambia - 2005](#) WHYDAH Consulting LTD.
- [Livingstone Tourism Survey](#). DCDM Consulting. Ministry of Tourism, Environment and Natural Resources. 2006.
- [Nature Based Tourism Demand Survey Report - Nov 2005](#). Goodson Sinyenga
- [Economic Impacts Of Transfrontier Conservation Areas: Baseline Of Tourism In The Kavangozambezi TFCA](#). Helen Suich, Jonah Busch and Nathalie Barbancho. Conservation International South Africa. 2005.
- [A Preliminary Examination of Public Private Partnerships in National Park Management in Zambia](#). June 2006. by Adam Pope. WHYDAH Consulting LTD.

#### *Land access and land use management*

- [Zambia Land Alliance Recommendations To The Land And Environment Committee Of The National Constitutional Conference](#). 2009.
- [Land Policy Options for Development and Poverty Reduction Civil Society Views for Pro-poor Land Policies and Laws in Zambia](#). 2008. Zambia Land Alliance.
- [Civil Society Position on Zambia's draft Land Policy of October 2006](#). October 2007. Zambia Land Alliance.
- Zambia's Integrated Land Use Assessment 2005-2008
  - [ILUA Final Report](#)
  - [Use of Integrated Land Use Assessment \(ILUA\) Data for Environmental and Agricultural Policy Review and Analysis in Zambia](#). 2008.
  - [Training Workshop Report](#). 2003
- [Hungry People on Fertile Land](#). In Zambia Institute for Public. 2007. Malcolm McPherson, Policy Analysis (ZIPPA) Journal, July-September 2007.
- [Draft Land Administration and Management Policy - 2006](#). Ministry of Lands, Republic of Zambia.

- [Contestation, Confusion and Corruption: Market-based land reform in Zambia. 2005. by Taylor Brown.](#) Chapter 3 in *Competing Jurisdictions: Settling Land Claims in Africa*, Sandra Every, Marja Spiereburg and Harry Wels. (eds) -Afrika-Studienzentrum Series, Vol 6. Leiden
- [Baseline Survey on Women's Access to Agricultural Land in Zambia.](#) Final Research Report. 2005.
- [A Poverty and Social Impact Analysis of Three Reforms in Zambia: Land, Fertilizer, and Infrastructure.](#) 2005. by Steen Lau Jorgensen and Zlatina Loudjeva. Poverty and Social Impact Analysis(PSIA)The World Bank.
- [Landscape Conservation and Land Tenure in Zambia: Community Trusts in the Kazungula Heartland.](#) 2005. by Simon Metcalf, WWF
- [Land Tenure, Housing Rights and Gender - National and Urban Framework: Zambia.](#) 2005. United Nations Human Settlements Programme (UN-HABITAT).
- [Land tenure policy and practice in Zambia: issues relating to the development of the agricultural sector.](#) Draft. January 2003. by Martin Adams. Mokoro Ltd
- [Zambia Livelihood Map Rezoning and Baseline Profiling.](#) 2004. Final Report by the ZAMBIA Vulnerability Assessment Committee.
- Chileshe, A. 2005. "[Land tenure and rural livelihoods in Zambia: Case studies of Kemena and St. Joseph,](#)" PhD dissertation, University of the Western Cape, South Africa. [http://www.uwc.ac.za/library/theses/Chileshe\\_r\\_a.pdf](http://www.uwc.ac.za/library/theses/Chileshe_r_a.pdf)
- [Multi-Sector Country Gender Profile for Zambia.](#) 2006. African Development Bank.
- Land Tenure, Land Markets, and Institutional Transformation in Zambia. LTC Research Paper 124, 1995. edited by Michael Roth with the assistance of Steven G. Smith. Land Tenure Center, University of Wisconsin
  - Download [entire document](#) (10 mb file)
  - Download individual chapters
    - [Title Page and Table of Contents](#)
    - [Chapter 1:](#) Legal Framework and Administration of Land Policy in Zambia
    - [Chapter 2:](#) Land Administration: Processes and Constraints
    - [Chapter 3:](#) Agrarian Structure, Land Markets, and Property Transfers
    - [Chapter 4:](#) Land Valuation and Taxation
    - [Chapter 5:](#) Land Tenure and Agricultural Development in Customary Areas: Results from Eastern and Southern Provinces
    - [Chapter 6:](#) Settlement Programs
    - [Chapter 7:](#) Land Use Patterns and Growth in Commercial Input Use, Productivity, and Profitability by Farm Size Category
    - [Chapter 8:](#) Zambia's Agricultural Data System: A Review of the Agricultural Time Series Data, with Annexes

#### *Climate Change Effects on Natural Resources, Agriculture and Food Security*

- [The Impact of Climate Variability and Change on Economic Growth and Poverty in Zambia.](#) 2009. by James Thurlow, Tingju Zhu, Xinshen Diao. IFPRI Discussion Paper 00890.
- [The economic impacts of climate change on agriculture in Zambia.](#) 2006. Centre for Environmental Economics and Policy in Africa (CEEPA). University of Pretoria.

#### **Background Publications – General [Top](#)**

- [The Realities of Community Based Natural Resource Management and Biodiversity Conservation in Sub-Saharan Africa.](#) Paul Andre DeGeorges and Brian Kevin Reilly. Sustainability 2009, 1, 734-788.

- [Rural Poverty and Natural Resources: Improving Access and Sustainable Management](#). David R. Lee and Bernardete Neves, and others. Background Paper for IFAD 2009 Rural Poverty Report.
- [Towards defining a pro-poor Natural Resources Management Strategy in the CGIAR: Conclusions and recommendations from the CGIAR-NGOC Consultation on Natural Resources Management](#). October 22-23, 1998. Washington D.C. Edited by Miguel Altieri and Marco Barzman, University of California, Berkeley. CGIAR-NGO Committee.
- [Natural Resources and Pro-Poor Growth: The Economics and Politics. DAC Guidelines and Reference Series](#). A Good Practice Paper. OECD 2008
- [Community-based natural resource management in the southern Africa region: An annotated bibliography and general overview of literature, 1996–2004](#). 2007. Whande, W. Programme for Land and Agrarian Studies (PLAAS), University of the Western Cape.)
- [Rural Livelihoods, Poverty Reduction, And Food Security In Southern Africa: Is Cbnrm The Answer](#). 2007. Jaap Arntzen, Tshepo Setlhogile, and Jon Barnes. USAID .
- [Investment in Sustainable Natural Resource Management for Agriculture. Module 5](#). World Bank AgInvestment Sourcebook.
- [Mapping Climate Vulnerability and Poverty in Africa](#). Report to Dfid by ILRI (International Livestock Research Institute) in collaboration with TERI (The Energy and Resource Institute) and ACTS (The African Centre for Technology Studies. 2006.
- [Issues in Poverty Reduction and Natural Resource Management](#). 2006. Summary of a training program by NRIC operated by Chemonics International for USAID
- [From Exclusion to Ownership? Challenges and Opportunities in Advancing Forest Tenure Reform](#). 2008 by The Rights and Resources Initiative, a global coalition
- [Livelihoods and Climate Change: Combining disaster risk reduction, natural resource management and climate change adaptation in a new approach to the reduction of vulnerability and poverty](#). 2003. A Conceptual Framework Paper Prepared by the Task Force on Climate Change, Vulnerable Communities and Adaptation .

### **Background Presentations – Zambia Specific [Top](#)**

- [Forest Monitoring for REDD: "A Case Study of the Integrated Land-use Assessment \(ILUA\) - Zambia"](#). Abel M.Siampale, Senior Forestry Officer - ILUA . 2008
- [Monitoring, Reporting and Verification Update for Zambia](#). A UN REDD Programme Update for Zambia. 2009. Bwalya Chendauka - Principal Forestry Officer
- [National Nature-Based Tourism Supply-Side Study](#). World Bank Funded. 2005-2006
- [Summary of Zambia Tourist Survey – preliminary results](#). Kirk Hamilton, The World Bank . August 2006
- [The Economic Impact of Nature Tourism in Zambia](#). Based on work by Goodson Sinyenga, Besa Muwele and Kirk Hamilton. A Government of Zambia-UNDP-DANIDA-World Bank study. 2007

### **Background Presentations – General [Top](#)**

- [The challenge of improved natural resource management practices adoption in African agriculture: A social science perspective](#). 2000. by Chris Barrett, Frank Place, Abdillahi Aboud, and Doug Brown. ICRAF - Nairobi

### **Recommended Web Site Resources – Zambia Specific [Top](#)**

- [ZAWA](#) –(Zambia Wildlife Authority)
- [ZLA](#) – (Zambia Land Alliance)
- [MTENR](#) – (Ministry of Tourism, Environment and Natural Resources - Environment and Natural Resources Projects)
- [ZARI](#) (Zambian Agricultural Research Institute)

- [COMACO](#) (Community Markets for Conservation - Zambia).
- [CFU](#) – (Conservation Farming Unit)
- [ACF](#) (Agricultural Consultative Forum)
- [Gart](#) (Golden Valley Agricultural Research Trust)
- [ECZ](#) (Environmental Council of Zambia)
- [WCESC](#) (The Wildlife and Conservation Society of Zambia)
- [The African College for Community-Based Natural Resource Management](#) (now operates under ZAWA)
- [REMNPAS](#) (Reclassification and Effective Management of the National Protected Areas System Project)
- [CLZ](#) (Conservation Lower Zambezi)
- [UN-REDD](#) (Zambia Country Programme) - The United Nations Collaborative Programme on Reducing Emissions from Deforestation and Forest Degradation in Developing Countries
- [FAO Zambia](#) (UN-REDD Country Brief)
- [World Fish Center](#). Zambia and other country publications and activities

### Recommended Web Site Resources – General [Top](#)

- [CBNRMN Net](#) – (The Community-Based Natural Resource Management Network)
- [ICRT](#) – (The International Centre for Responsible Tourism)
- [Rural Poverty and Environment Program: International Development Research Centre](#)
- [World Development Report 2008: Agriculture for Development](#). World Bank 2008
- [SANREM CRSP](#) (The Sustainable Agriculture and Natural Resources Management Collaborative Research Support Program)
- [TerrAfrica](#) – Regional Sustainable Land Management
- [FRAME](#) - Knowledge Sharing for the Natural Resource Community
- [ELDIS Natural Resource Management Resource Guide](#)
- [SARPN Website](#): Biodiversity and Ecosystem Management
- [CIFOR](#) (Center for International Forestry Research)
- [CIFOR Miombo Woodland Project - Policies and Incentives](#). Publications available
- [International Institute for Sustainable Development](#) – Reporting Services Division.
- [Development Resource Management Portal](#) - USAID
- [ODI Natural Resource Perspectives](#)
- [PPT](#) (Pro Poor Tourism)
- [PEN](#) (Poverty Environment Network)
- [RELMA](#) (The Regional Land Management Unit) ICRAF
- [Development Resource Management Portal](#) (USAID Natural Resources Management and Development Portal)
- [Poverty Reduction & Natural Resources Management Seminar](#) - Downloadable training materials to accompany the summary publication "Issues in Poverty Reduction and Natural Resource Management".
- [GSTA](#) (Global Sustainable Tourism Alliance)
- [Sustainable Tourism Training Course TZ](#) - Downloadable training materials on sustainable tourism.
- [EP](#) (Ecoagriculture Partners)
- [DestiNet](#) - A tourist destination information service that supports networking of various sustainable tourism stakeholders.
- [Environmental Guidelines for Small-Scale Activities in Africa](#)-2nd Edition. 2009. USAID/Africa Bureau, Office of Sustainable Development (contains chapters on agriculture, CBNRM, Ecotourism, forestry, fisheries and many other topics)

