Overview of the
FTF Agricultural Baseline Survey



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Outline: FTF Ag Baseline Survey

I. **Implementer** – Michigan State University (MSU) & Indaba Agriculture Policy Research Institute (IAPRI)

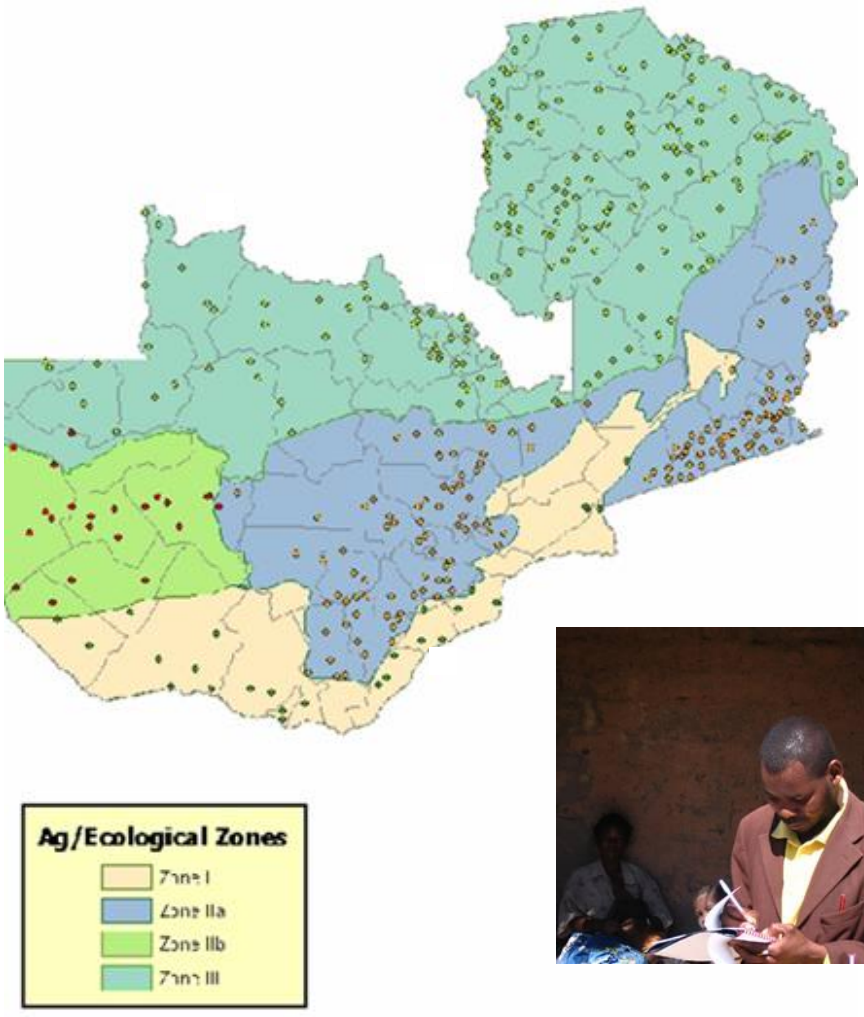
II. **Modules**

III. **Relevance to FTF R&D projects**

MSU/FSRPIII strategic objectives

1. **Transform from project into local institution** – Food Security Research Project (FSRP) → IAPRI
2. **Support CAADP process**, incl. assist Min. of Ag. & Livestock (MAL) to develop Country Investment Plan
3. **Build analytical capacity** of MAL, Central Statistical Office (CSO), and University of Zambia through effective collaboration
4. **Support FTF multiyear strategy**, incl. design & implement FTF ag baseline survey

MSU/IAPRI ag surveys



Supplemental survey

- 3-wave HH-level panel
- 2001, 2004, 2008
- Nationally-representative incl. Eastern Province
- Stratified random sample of smallholder farm HHs (<20 ha)
- ~7,800 HHs nationally, ~1,500 in Eastern Province
- Partner with CSO & MAL

May/June 2012: FTF ag baseline in Eastern AND nationally-representative ag survey (new sample)

MSU/IAPRI ag surveys (cont.)

http://www.aec.msu.edu/fs2/zambia/survey.htm

Survey instruments and other information on past MSU/FSRP agricultural surveys

FTF ag baseline modules

1. Demographic roster
2. Agricultural activities **
3. Fertilizer acquisition
4. Agricultural loans
5. Receipt & adoption of extension messages; access to agricultural services
6. Staple food purchases & processing **
7. Off-farm income
8. Remittances in and out
9. Assets

Agricultural activities

1. Farm land & use **
2. Crop stocks & sales **
3. Fruit & vegetable production & sales
4. Livestock, poultry, & fish farming & sales

Past MSU/IAPRI surveys did not capture gender dimensions of agricultural activities

→ ***FTF ag baseline will incorporate gender dimension***

1. Farm land & use

- Sketch all fields
- For each field:
  - Area → farm size
  - Land use (cultivated, garden, fallow, virgin land, etc.)
  - Tenure status (own w/ or w/o title, rented, borrowed)
  - Main crop grown for cropped fields
  - Tillage method (hand hoe, plough, various conservation farming methods)
  - Fertilizer, manure, and lime application
  - Timing of tillage, weeding

1. Farm land & use (cont.)

- For each crop within each field:
  - Area planted
  - Quantity harvested
  - Crop variety
  - Seed/planting material source, transaction (cash, barter, loan, etc.), quantity planted, & timing of planting

2. Crop stocks & sales

- **Maize** sales – by transaction:
  - When?
  - How much?
  - Buyer? Private trader, other HHs, FRA, etc.
  - Where? Distance from homestead
  - Cash sale or barter?
  - Price received?
- **Other crops** sales
  - Total quantity sold
  - Details like maize sales but only for largest transaction

2. Crop stocks & sales (cont.)

By crop (own production):

- Qty in storage at end of marketing year (Apr 30)
- If zero, when ran out?

Staple food purchases

Staple foods covered:

- Maize grain
- Various types of maize meal
- Sorghum & millet
- Rice & Irish potatoes
- Sweet potatoes
- Cassava in various forms
- Wheat products

Questions asked:

- Total quantity purchased/bartered
  - May-Dec (post-harvest)
  - Jan-Apr (lean season)
- Average price
- Type of supplier (retail shop, FRA, NGO, etc.)

Relevance to FTF R&D Projects

Indicators	On ag baseline or FEEDBACK?	R&D project(s)
1. Crop area planted (monocropped vs. intercropped), yield, qty/value harvested & sold	Ag baseline	-All 6
2. Adoption of improved crop varieties & source of seed/planting material	Ag baseline	-All 6
3. Fertilizer use & adoption of conservation ag	Ag baseline	-SIMLEZA

Relevance to FTF R&D Projects (cont.)

Indicators	On ag baseline or FEEDBACK?	R&D project(s)
4. Staple food purchases (consumption)	Ag baseline (FEEDBACK)	-Provitamin A Maize -Integrating Orange -SIMLEZA
5. Farm & non-farm income, assets	Ag baseline	-Aflatoxin Mitigation -SIMLEZA
6. Farm & HH characteristics	Ag baseline	-Provitamin A Maize
7. Health & nutrition of farmers, women & children	FEEDBACK	-Aflatoxin Mitigation -Provitamin A Maize -Integrating Orange -SIMLEZA

Relevance to FTF R&D Projects (cont.)

Indicators	On ag baseline or FEEDBACK?	R&D project(s)
8. Aflatoxin contamination & adoption of mgmt practices/technologies	NO	-Aflatoxin Mitigation -I-FINITE
9. Extension rec'd re: seed varieties, mgmt practices	NO	-All 6
10. Adoption of specific improved crop/soil mgmt practices & OFSP on-farm vine conservation practices	NO	-All 6
11. Input costs other than fertilizer, seed	NO	-Integrating Orange -SIMLEZA

Relevance to FTF R&D Projects (cont.)

- **<u>For YES's</u>: attribution to specific R&D projects?**
  - E.g., for source of seed/planting material, or extension advice → could list your specific projects as potential responses (& others providing those services/resources – HH indicates all that apply)
  - # of participants in your R&D project large enough to be picked up in population-based survey???

Relevance to FTF R&D Projects (cont.)

- **For NO's:**
  - **Homework** for each R&D project: 3 questions for FTF ag baseline → will include if feasible
    - These might include HH "participation" in your R&D project
    - ***Email proposed questions to masonn@msu.edu by 3 January 2012***
  - Suggest Aflatoxin & I-FINITE coordinate on questions related to aflatoxin contamination and adoption of new technologies/management practices

Thank you! Questions?

IAPRI FTF Team:

- Antony Chapoto (USAID Chief of Party/IAPRI Research Coordinator/MSU Assistant Professor)
- Nicole Mason (Assistant Professor, MSU)
- Rhoda Mofya-Mukuka (Research Fellow, IAPRI)
- Nick Sitko (Research Fellow, IAPRI)