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

I. Implementer - MSU/IAPRI
MSU/IAPRI ag surveys

Supplemental survey

- 3-wave HH-level panel
- 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 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

<table>
<thead>
<tr>
<th>Indicators</th>
<th>On ag baseline or FEEDBACK?</th>
<th>R&amp;D project(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Crop area planted (monocropped vs. intercropped), yield, qty/value harvested &amp; sold</td>
<td>Ag baseline</td>
<td>-All 6</td>
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<tr>
<td>2. Adoption of improved crop varieties &amp; source of seed/planting material</td>
<td>Ag baseline</td>
<td>-All 6</td>
</tr>
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<td>3. Fertilizer use &amp; adoption of conservation ag</td>
<td>Ag baseline</td>
<td>-SIMLEZA</td>
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## Relevance to FTF R&D Projects (cont.)

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<tr>
<td>4. Staple food purchases (consumption)</td>
<td>Ag baseline (FEEDBACK)</td>
<td>-Provitamin A Maize</td>
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<td>-Integrating Orange</td>
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<td>-SIMLEZA</td>
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<td>5. Farm &amp; non-farm income, assets</td>
<td>Ag baseline</td>
<td>-Aflatoxin Mitigation</td>
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<td>-SIMLEZA</td>
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<td>6. Farm &amp; HH characteristics</td>
<td>Ag baseline</td>
<td>-Provitamin A Maize</td>
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<td>7. Health &amp; nutrition of farmers, women &amp; children</td>
<td>FEEDBACK</td>
<td>-Aflatoxin Mitigation</td>
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<td>8. Aflatoxin contamination &amp; adoption of mgmt practices/technologies</td>
<td>NO</td>
<td>-Aflatoxin Mitigation -I-FINITE</td>
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<td>9. Extension rec’d re: seed varieties, mgmt practices</td>
<td>NO</td>
<td>-All 6</td>
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<tr>
<td>10. Adoption of <strong>specific</strong> improved crop/soil mgmt practices &amp; OFSP on-farm vine conservation practices</td>
<td>NO</td>
<td>-All 6</td>
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<td>11. Input costs other than fertilizer, seed</td>
<td>NO</td>
<td>-Integrating Orange -SIMLEZA</td>
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For YES’s: 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](mailto: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
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)

Thank you! Questions?