CAPTURING KEY INFORMATION FOR PROJECT

Julius Okello, Temesgen Bocher & Luka Wanjoji
SPHI Annual Meeting, Dar es Salaam, Tanzania
24-26 November, 2017
The SPHI Goals

- 10M households by 2020
- Increase income by 15%
- Improve diet quality by 20%
Agriculture

1. Variety releases
   - # varieties released
   - Date/Yr of release

2. Beneficiaries of improved vines
   - # of households receiving OFSP vines
   - Eligibility: U5 yrs; Pregnant/lactating woman
     >>>>Disaggregated by gender
Agriculture contd…

3.1 Mean household (HH) production—SP, OFSP

- Volume (Kg) & Value ($)
- % of HH selling

3.2 Mean HH SP & OFSP sales

- Volume (Kg) & Value (US $)
- % of HH selling
Nutrition

• Improvement in diet quality

✔ Dietary diversity
  – Household => HDD
  – Young child (Individual) => CDD
  – Minimum dietary diversity– Woman => MDD-W
Tools and Techniques for Monitoring Key Indicators of Sweetpotato Interventions in Sub-Saharan Africa: A Practitioner’s Manual

Prepared by the CIP Monitoring, Learning, and Evaluation Team
Temesgen Bocher, Luka Wanjohi, Jan Low, Julius Okello, Srinivasulu Rajendran, Kirimi Sindi, and Christine Bukania
What the manual contains...

Module 1: Design and Description of the Selection Criteria >>> Meta data, sampling, ....

Module 2: Household background information >>> HH characteristics

Module 3: Sweetpotato area, production, and market trends >>> Indicator 2 & 3

Module 4. Production and sales volumes >>> Indicator 2 & 3

Module 5: Measurement of household food security

Module 6: Dietary Diversity Score >>> Indicator 4

Module 7: Frequency of Consumption of Vitamin A Rich Foods >>> Indicator 4

Module 8: Capturing Sweetpotato Vine Dissemination >>> Indicator 1

Module 9: Yield Estimation Using Crop Cuts >>> Indicator 2&3

Module 10: Sweetpotato Root Market Prices >>> Trends
### Table 1: Table of reported and created variables for module 2

<table>
<thead>
<tr>
<th>Variable</th>
<th>Variable label</th>
<th>Value labels</th>
<th>Sample size</th>
<th>Frequency</th>
<th>Mean</th>
<th>Std Dev</th>
<th>Median</th>
</tr>
</thead>
<tbody>
<tr>
<td>Household head</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M02_10</td>
<td>CATEGORY OF THE HOUSEHOLD</td>
<td>1=INTERVENTION OR PARTICIPANT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2=CONTROL OR NONPARTICIPANT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M02_14a-b</td>
<td>AGE OF THE HOUSEHOLD HEAD (YRS)</td>
<td>CONTINUOUS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M02_15</td>
<td>STATUS OF THE HEAD OF HOUSEHOLD</td>
<td>1=MAN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2=HOUSEHOLD HEAD IS A WOMAN, SUPPORTED BY NON-RESIDENT MAN</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3=HOUSEHOLD HEAD IS A WOMAN, WITHOUT SUPPORT OF A MAN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M02_14b</td>
<td>LEVEL OF FORMAL EDUCATION OF THE HOUSEHOLD HEAD IN YRS</td>
<td>CONTINUOUS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M02_14c</td>
<td>HOUSEHOLD HEAD HAS NO EDUCATION</td>
<td>1=YES, 0=NO</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HOUSEHOLD HEAD COMPLETED PRIMARY SCHOOLING (SPECIFY YRS.............)</td>
<td>1=YES, 0=NO</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reference woman</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M02_17a</td>
<td>AGE OF REFERENCE WOMAN IN YEARS</td>
<td>CONTINUOUS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M02_17a</td>
<td>REFERENCE WOMAN IS UNDER 25 YEARS OF AGE</td>
<td>1=YES, 0=NO</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M02_18</td>
<td>LEVEL OF FORMAL EDUCATION OF THE REFERENCE WOMAN IN YEARS</td>
<td>CONTINUOUS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M02_18</td>
<td>REFERENCE WOMAN HAS NO EDUCATION</td>
<td>1=YES, 0=NO</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Module available in various forms

M06. DIETARY DIVERSITY FOR WOMEN AND YOUNG CHILDREN

The Reference woman (age 15-49 years) should be interviewed. Now
Yesterday, did your household consume at least a tablespoon (15 gm)
For example, if you had a soup made with carrots, potatoes and
do not say “yes” for the meat or vegetable. As I ask you ask
First ask the question for woman’s consumption for a category of food

<table>
<thead>
<tr>
<th>Field Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M06_01</td>
<td>Any foods made from grains (like maize, rice, wheat, sorghum, millet, noodles, b</td>
</tr>
<tr>
<td>M06_02</td>
<td>Any biofortified crops (orange-fleshed sweetpotato, orange maize, iron-rich beans)</td>
</tr>
<tr>
<td>M06_03</td>
<td>Any vegetables or roots that are orange-colored inside (OFSP, pumpkin)</td>
</tr>
<tr>
<td>M06_04</td>
<td>Any white roots and tubers or plantains (white potatoes, manioc, white-fleshed sv</td>
</tr>
<tr>
<td>M06_05</td>
<td>Any dark green leafy vegetables (sweetpotato leaves, cassava leaves, pumpkin</td>
</tr>
<tr>
<td>M06_06</td>
<td>Any fruits that are dark yellow or orange inside (ripe mango, ripe capasa, passion</td>
</tr>
<tr>
<td>M06_07</td>
<td>Any other vegetables (like eggplant, okra, tomatoes)</td>
</tr>
<tr>
<td>M06_08</td>
<td>Any other fruits</td>
</tr>
<tr>
<td>M06_09</td>
<td>Any meat made from animal organs (like liver, heart, kidney, blood-based foods)</td>
</tr>
<tr>
<td>M06_10</td>
<td>Any other types of meat or poultry (like beef, pork, goat, chicken, duck, wild bird)</td>
</tr>
</tbody>
</table>
Test, revise and re-test
Rwanda: Testing...

Modules and refined in Rwanda over several rounds of revisions
Applications of the MLE Manuals

Mozambique

Rwanda

Tanzania
Application in vine dissemination

Beneficiaries of improved vines during a dissemination event
Vine dissemination form

- Module used to capture the beneficiary data
- DVMs, extension agents, and agronomist complete forms
- Completed forms collected & data entered by a trained team
- The whole process completed in less than a month
Data entry tools used to record data:
CsPro >>>STATA>>>> Results

Stata program used to analyze the data and produce results for report writing
Application in Household Surveys: Tanzania

 Enumerator using tablet version of tool to collect survey data.
**Module Adapted**

- **Module 2**: Household background information - 95%
- **Module 3**: Trends in using sweetpotato - 97%

“Remaining 5% ... could easily be computed or inferred”

“3% covered ... by the tool elsewhere”

**Modules Adopted 100%**

- “Easily administered and understood”
- “Straight forward and easily administered in the field”

**Module 7**: Frequency of Consumption of Vitamin A Foods
Application in yield Estimation
**Easy Sampling, data collection...**

**MODULE 09. YIELD ESTIMATION BY CROP CUT**

<table>
<thead>
<tr>
<th>COUNTRY:</th>
<th>ADI</th>
<th>AD2</th>
<th>AD3</th>
</tr>
</thead>
</table>

**HHID** | HOUSEHOLD (H) NUMBER | M09_07 | ENUMERATOR | M09_08A NAME |
|----------|----------------------|--------|------------|--------------|

**GPS COORDINATES**

<table>
<thead>
<tr>
<th>M09_09 Longitude (E)</th>
<th>Decimal in Degrees</th>
<th>Minutes</th>
<th>M09_10 Latitude (E)</th>
<th>Decimal in Degrees</th>
<th>Minutes</th>
<th>M09_11 Elevation</th>
<th>(Metres)</th>
</tr>
</thead>
</table>

**FIRST VISIT:** Note that the first monitoring visit should be 45 days after planting.

<table>
<thead>
<tr>
<th>DATE OF PLANTING</th>
<th>SWEETPOTATO VARIETY DETAILS</th>
<th>VARIETY ID</th>
<th>PLOT LOCATION</th>
<th>SEX</th>
<th>DETAILS OF VINES USED WHEN PLANTING</th>
<th>TIMES USED</th>
<th>OWN VINES</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAY</td>
<td>MON</td>
<td>YEAR</td>
<td>VARIETY NAME</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M09_12</td>
<td>M09_13</td>
<td></td>
<td>M09_12A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M09_12A</td>
<td>M09_14</td>
<td></td>
<td>M09_15A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M09_15A</td>
<td>M09_15B</td>
<td></td>
<td>M09_16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SECOND VISIT:** The date of the second visit may need to vary by variety because harvesting should be aligned with the maturity period of each variety.
Application in Rwanda contd...
Other Applications of the Manual

Nigeria: Jumpstarting

Ghana: Jumpstarting

Malawi: Roots & Tuber Crops
In summary

✓ The manual is quite simple to use

✓ Saves a lot of time - ready to go questions, all-in-one manual

✓ Collects all the needed SPHI indicator data

✓ Can be easily adapted (by including additional Qs) to use in varied situations – monitoring, surveys, crop performance
Acknowledgements

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Thank You !!!