Monitoring Production and Adoption of **OFSP**: Lessons from **TIA**

by MINAG/Direcção de Economia

What is TIA?

Trabalho de **I**nquérito **A**grícola

The National Agricultural Survey
Directorate of Economics
Ministry of Agriculture

Basic Objectives

- **Collect data on agricultural production, livestock, area cultivated, use of inputs**
- **Collect data on indicators used by ProAgri and the PARPA (PRSP)**

Sampling frame

2002-2007 based on the Agricultural Census of 1999/2000 (CAP), which in turn is based on *Population Census of 1997*

2008 based on *Population Census of 2007*

- Survey includes **small**, **medium** and **large** landholders.

- Classification is based on cultivated land, number of livestock and (in 2005, 2006) number of fruit trees.

- TIA is representative at the provincial-level.
- Crops that are very localized like jatrofa and wheat are not covered by TIA.

Number of districts covered

1996	66
2002, 2003	80
2005, 2006, 2007	94
2008	128

Excludes Maputo City, Matola, Beira and Nampula.

TIA 2008

Number of enumeration areas ... 687

Number of small- and medium-holders interviewed ... 5972

Sweet potato production

- Up to 2003, TIA collected data on sweet potato production in general

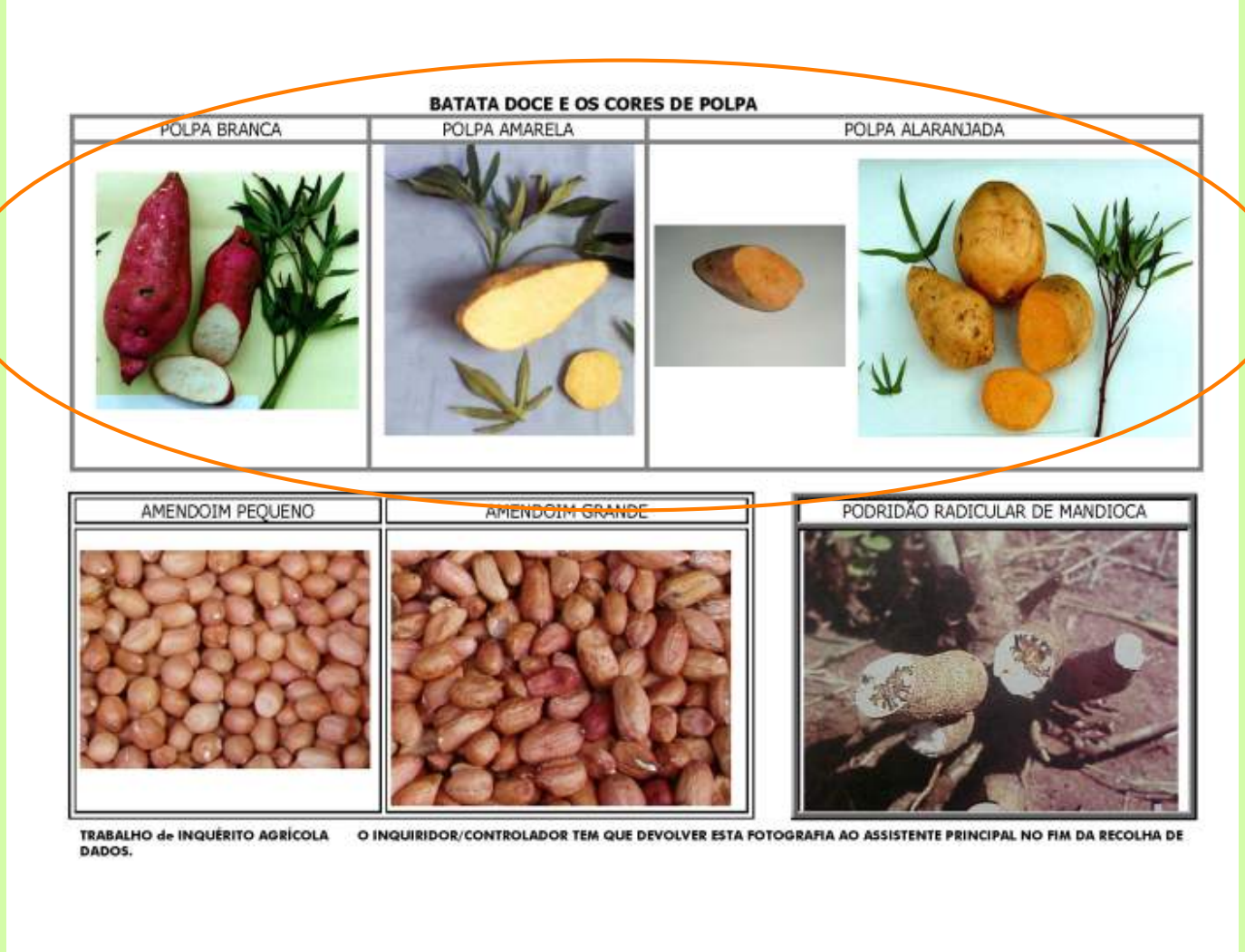
- Starting in 2005, a separate category was created for OFSP!

Challenges of collecting OFSP production data

1. Identification of OFSP
2. Estimating total production of crop harvested usually, in small quantities
3. Estimating area (a challenge for all crops!)

1. Identifying OFSP

Enumerators have to show pictures



2. Estimating production of crop harvested in small quantities

- *Assessment and improvement of the survey instrument*
- *Intensive preparation of enumerators thru training and testing*

First, respondents are asked :

1. Months of major harvests …
2. Months of minor harvests …
3. Months without any harvest…

   in the last 12 months.

In 2002, respondents were asked quantity harvested per week/month during the months of major harvest and minor harvest.

BUT in the majority of cases, respondents and enumerators had to do calculations, resulting sometimes in error and contributing to both respondent and enumerator fatigue.

- From 2005 onwards, the question has been changed to allow respondent to state the actual frequency of harvest, e.g.,

2 x a day

3 x month

production for the whole season

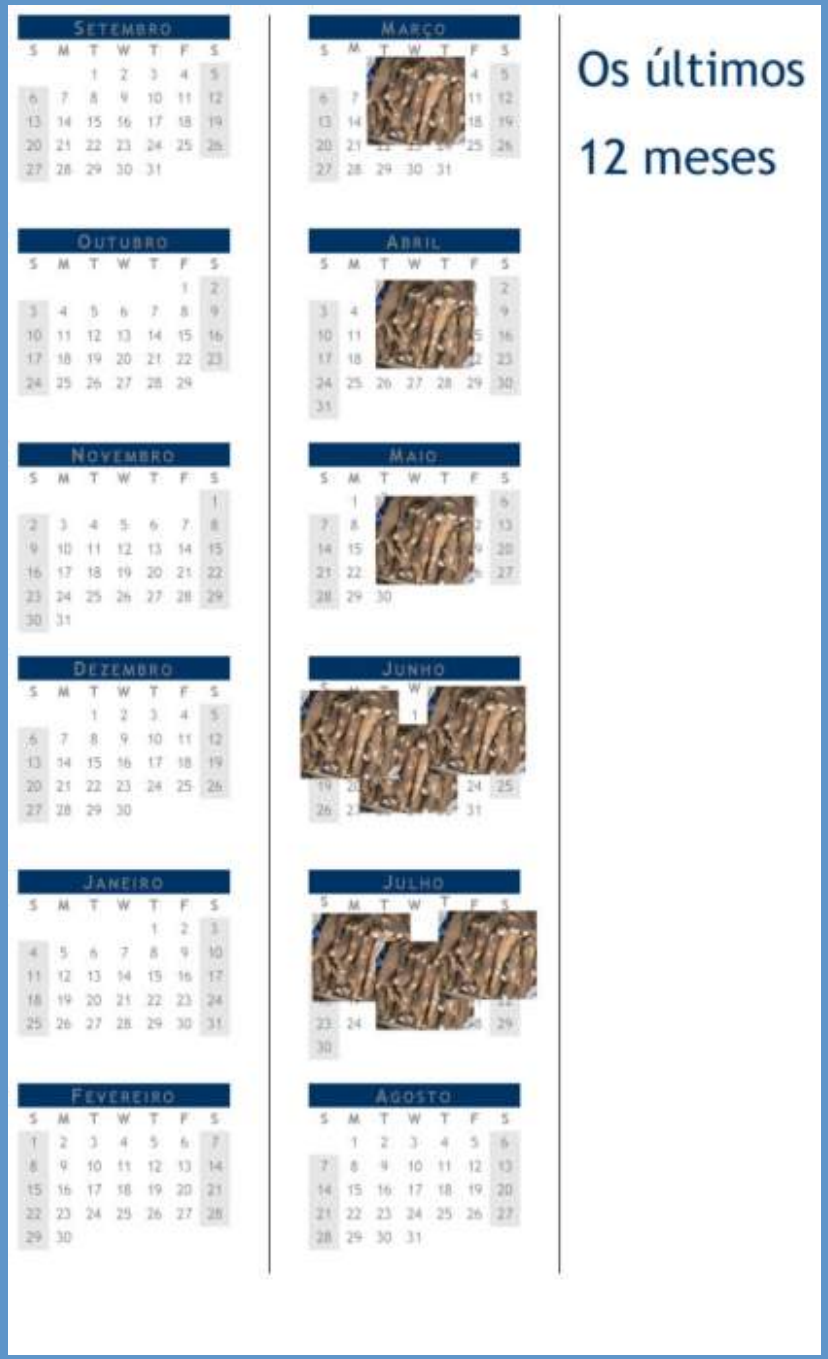
Training consists of lectures, practice interviews, tests and exercises until the concepts are well understood.

The enumerator is given exercises until he/she answers the exercises correctly.

INQUIRIDOR(A):

“ nos últimos 12 meses .... quais são os meses de colheita de **GRANDES** quantidades ...”

“ .... quais são os meses de colheita de **MENORES** quantidades ...”



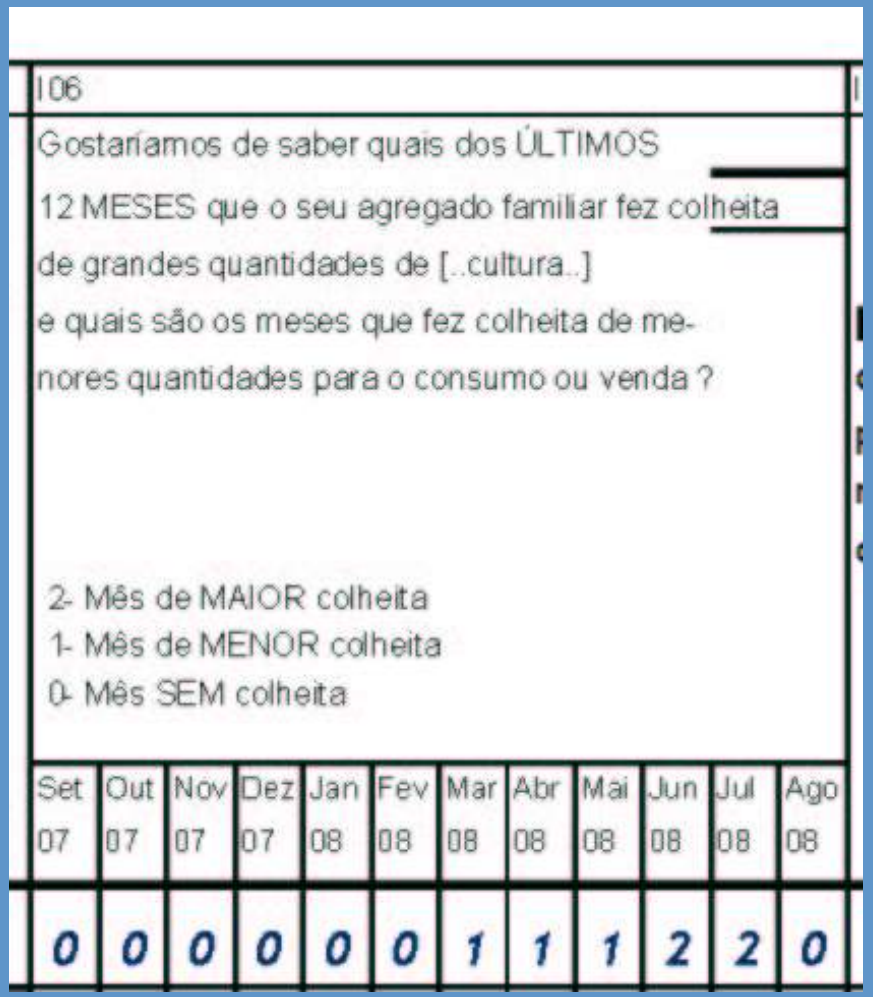
INQUIRIDA:

"... grandes quantidades em **Junho e Julho**"

"... menores quantidades em **Março, Abril e Maio**..."

Setembro
Outubro
Novembro
Dezembro
Janeiro
Fevereiro
Março
Abril
Maio
Junho
Julho
Agosto
Os últimos
12 meses
3 meses
de
MENOR
colheita
2 meses
de
MAIOR
colheita

Preenchimento de meses de **maior** / **menor** colheita



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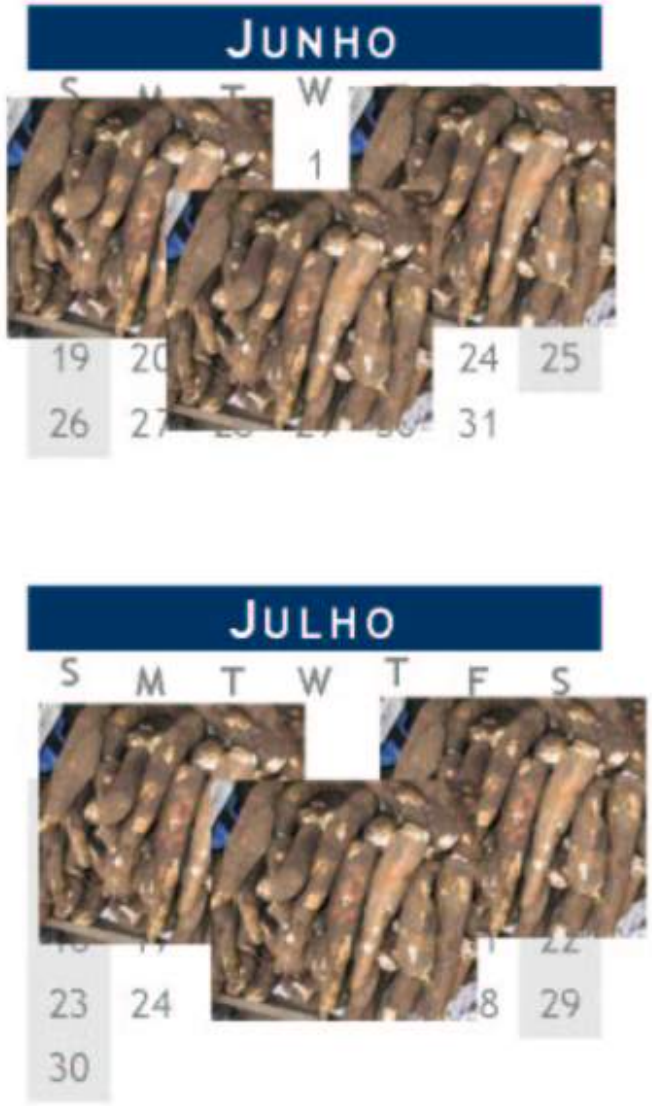
Gostaríamos de saber quais dos ÚLTIMOS 12 MESES que o seu agregado familiar fez colheita de grandes quantidades de [..cultura..] e quais são os meses que fez colheita de menores quantidades para o consumo ou venda ? 2- Mês de MAIOR colheita 1- Mês de MENOR colheita 0- Mês SEM colheita											
Set 07	Out 07	Nov 07	Dez 07	Jan 08	Fev 08	Mar 08	Abr 08	Mai 08	Jun 08	Jul 08	Ago 08
0	0	0	0	0	0	1	1	1	2	2	0



INQUIRIDOR(A):

"Durante os meses de **maior** colheita, *Junho e Julho,* quantos vezes por dia, semana ou mês fez colheita?"

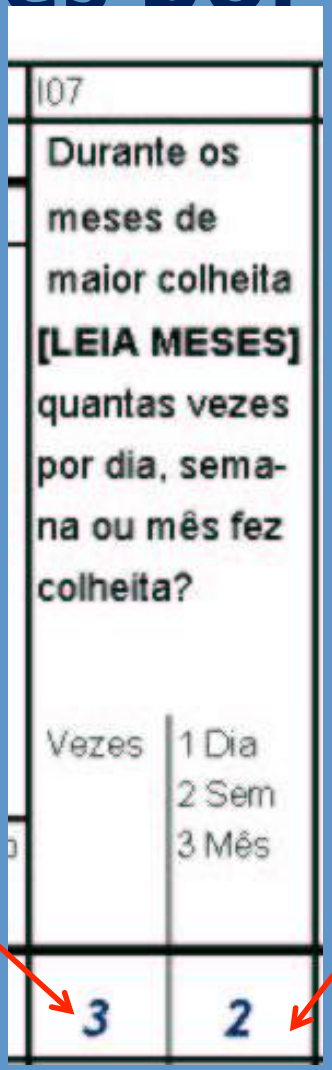
Aqui estamos a deixar o agregado familiar indicar a frequência da colheita.

INQUIRIDA: “A minha irma e eu fomos **3 vezes por semana**”

Como preencher
“3 vezes por semana”

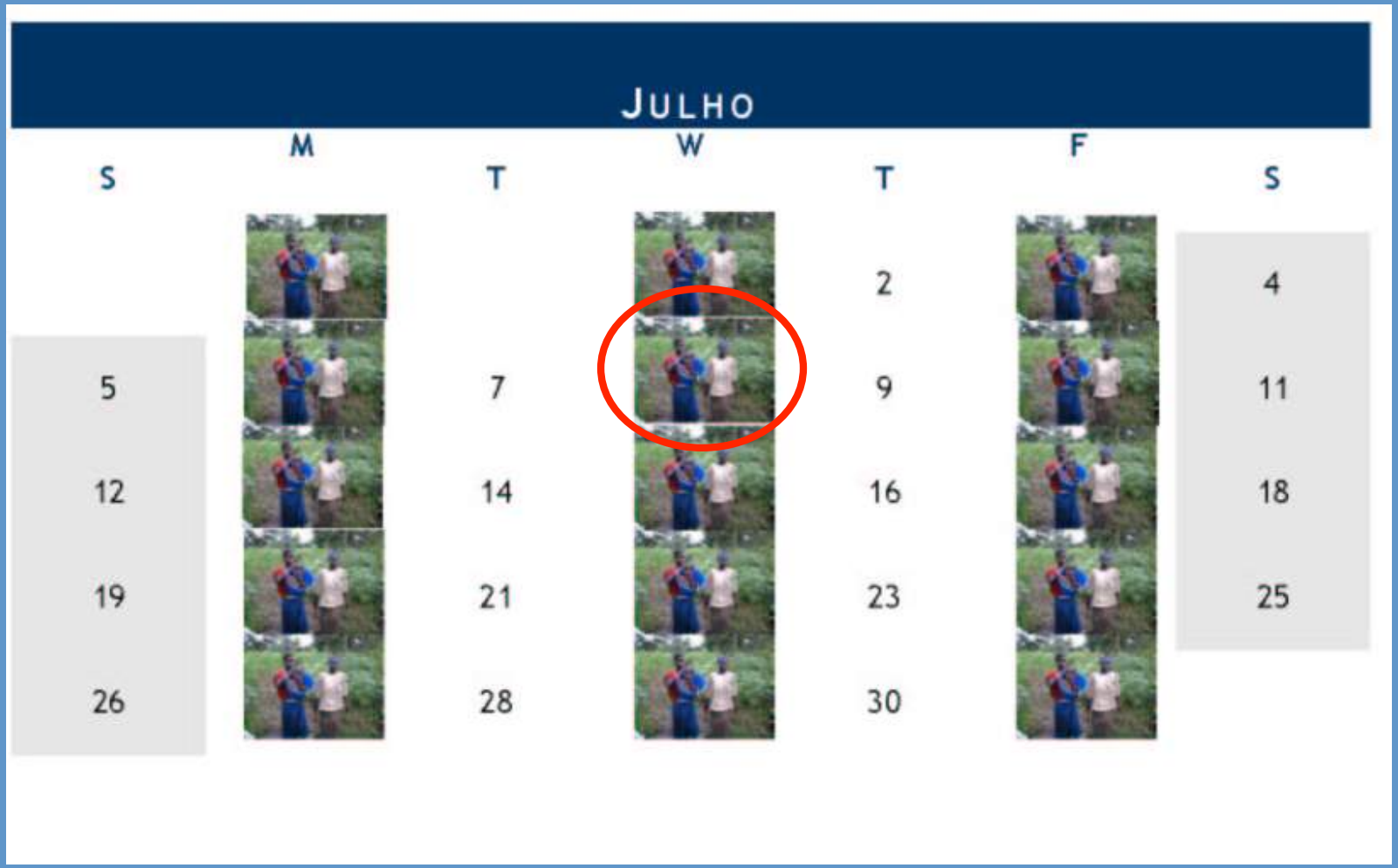
3 vezes ...

por semana



I07	
Durante os meses de maior colheita **[LEIA MESES]** quantas vezes por dia, sema-na ou mês fez colheita?	
Vezes	1 Dia 2 Sem 3 Mês
3	*2*

INQUIRIDOR(A): "... maior colheita ...de cada uma das vezes que colheu, quanto é que tirou"



INQUIRIDO:

“Cada vez que colhei, tirei um cesto de mandioca fresca”

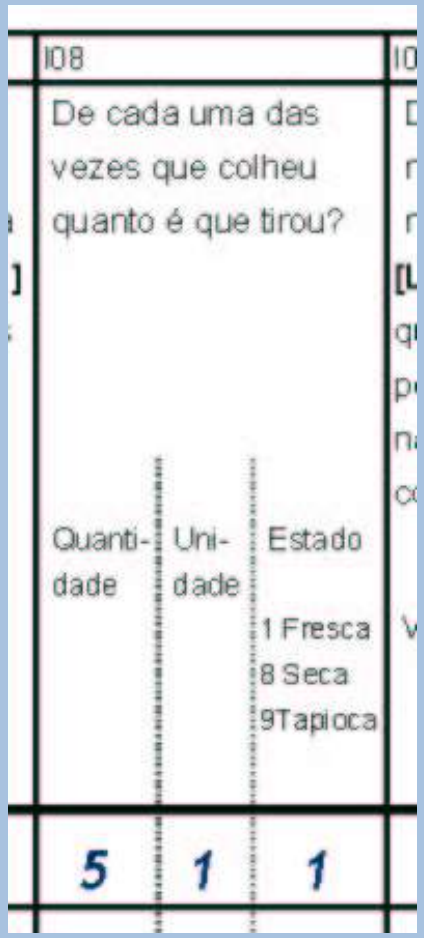
INQUIRIDOR(A):

“ Quantos quilogramas, mais ou menos, de mandioca fresca em cada cesto?”

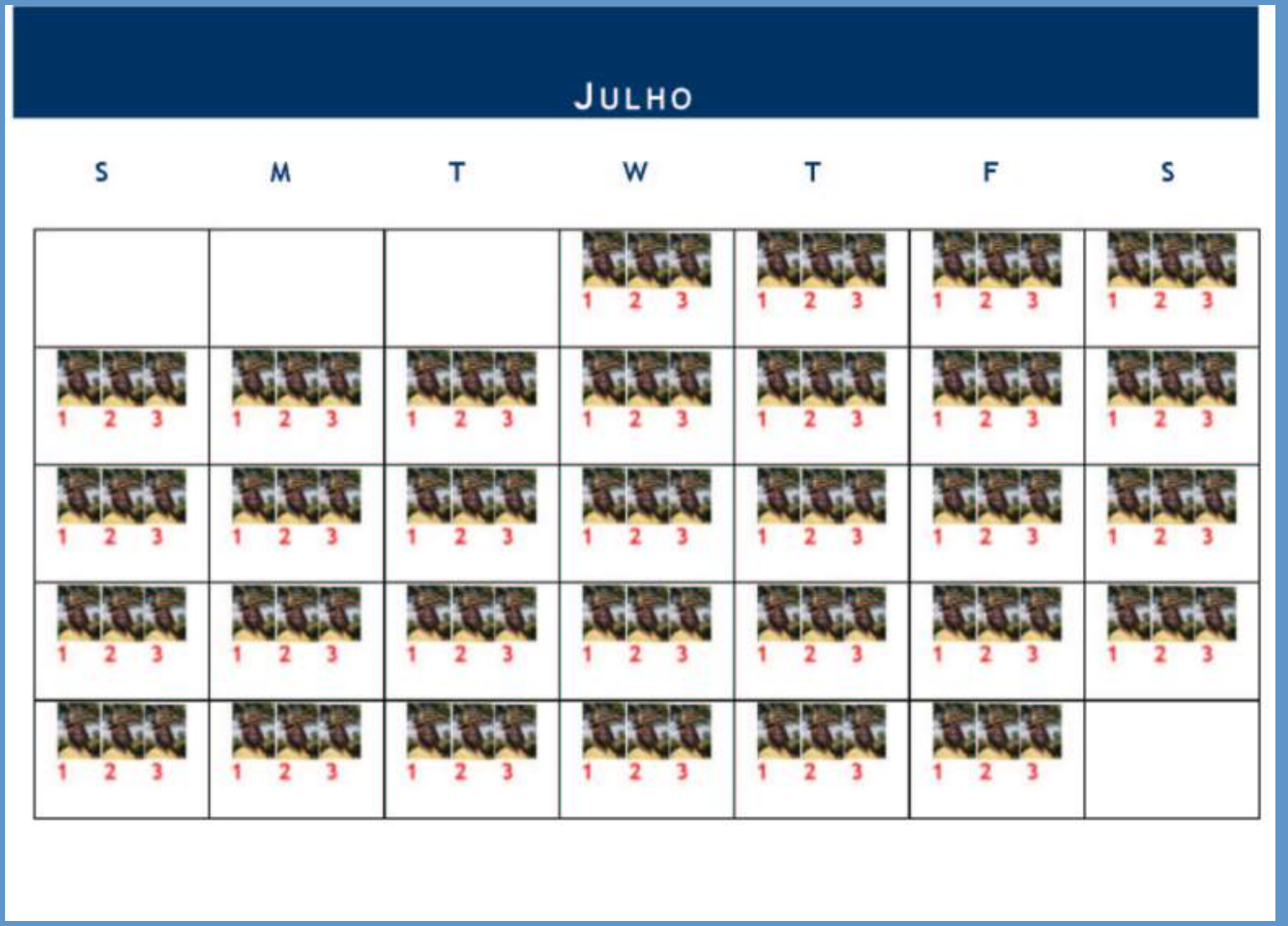
INQUIRIDA:

“ Hmmm. 5 quilogramas”

Como preencher
“5 quilos de mandioca fresca”



“...nos meses de maior colheita, fui tirar mandioca 3 vezes por dia...”



no mês de maior colheita...

fui 3 vezes por dia

1 2 3

cada vez tirei 3 kg

3. Measuring Plot Area

Respondent-declare area data are collected for all plots.

In 25% of households, the area is also measured with GPS or Compass and Tape

The area for the rest of 75% of the households are adjusted using regression analyses of measured area and declared area.

3. Measuring Crop Area of Intercropped Plots

- To estimate area of intercropped plots, we use the “jogo de feijoes” or beans to show relative space occupied by each crop.

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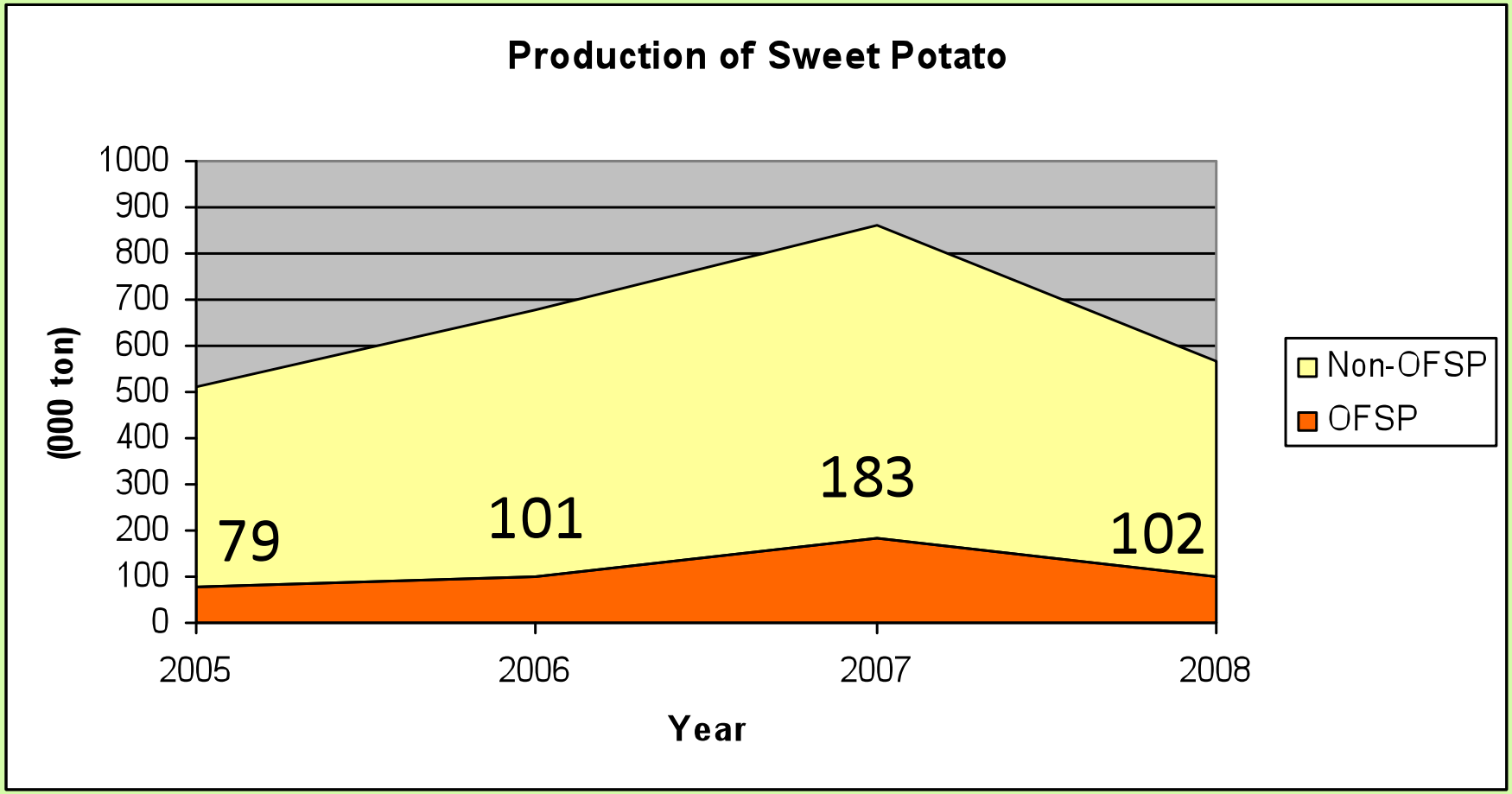
% growing OFSP 2005-2008

TIA	%
2005	2.4
2006	4.8
2007	4.3
2008	3.7

Production of Sweet Potato (000 ton)



Area planted to OFSP 2005-2008 (ha)

TIA	First Season	Second Season
2005	9162	
2006	15990	
2007	17368	
2008	16230	

• In TIA, plots are measured based on area planted during the first season. Sweet potato is planted extensively during the second season. It is a estimation/survey issue that DE will address.

MUITO OBRIGADA