



INSTITUTO NACIONAL DE ESTATÍSTICA
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COLLECTING SEX-DISAGGREGATED DATA ON LAND OWNERSHIP AND MANAGEMENT IN MOZAMBIQUE

Lessons From 2010 AGRICULTURAL CENSUS and annual Agricultural surveys

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CAP 2009-2010 .Informação para o desenvolvimento nacional. Vamos participar!



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BACKGROUND



□ 1996-1997 – Reform of the National Statistical System

- ✓ The National Institute of Statistical (INE) and the National Statistical Council were established
- ✓ Based on the law 7/96 INE is the responsible agency for the production and dissemination of all official Statistics;
- ✓ INE is responsible for implementation of the Agricultural Census in close partnership with the Ministry of Agriculture.

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BACKGROUND



- At Central, provincial and district level census committees were established;
- With the implementation of the Agricultural Census the Country benefits from technical assistance from FAO and other financial partners;
- MINAG has been delegated from INE to conduct Annual Agricultural Surveys .

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BACKGROUND



Since Independence in 1975, Mozambique has conducted two Agricultural and Livestock Census (CAP):

- in 1999-2000 (CAP I) – based on questionnaire
- In 2009-2010 (CAP II) – based on mini computer and it was a major beneficiary of the Third Population and Housing Census (III RGPH), conducted in 2007.

Between the Census, the Country collects annually data on agriculture through probability sample

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THE OBJECTIVES OF CAP



To obtain up-to-date statistical information on:

- ✓ the structure of agriculture including livestock;
- ✓ A Sample frame for annual agricultural surveys;
- ✓ **To obtain a data base with gender perspective**
- ✓ To obtain information to monitor the development plan on the agricultural sector (PROAGRI, PARP, etc);

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METHODOLOGY



- The CAP 2009-2010 followed the modular approach of FAO taking as common module, general data from Section G - Agriculture and Livestock - from the 3rd population Census, which serves as sample frame for Complementary Modules.
- The 3rd population Census included 10 of the 16 questions recommended by FAO as part of the complementary modules of the Agricultural Census.

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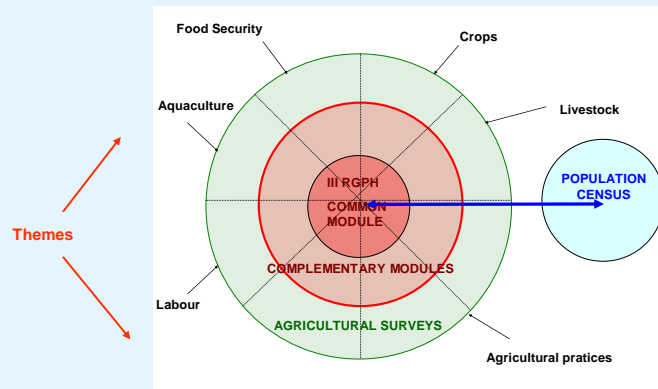


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METHODOLOGY



MODULAR APPROACH – CASE OF MOZAMBIQUE



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METHODOLOGY



Six complementary modules were defined:

- Crops,
- Livestock,
- Labour Force,
- Aquaculture,
- Food Security and
- Agricultural Services and Practices.

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METHODOLOGY(cont)



- The agricultural holdings were classified in 3 groups:
 - Small agricultural holdings (< 10 Ha or 10 livestock)
 - Medium scale (>10 and <50 Ha or (>10 and <100 livestock)
 - Large scale (> 100 ha or 100 livestock)

- The Census used 2 types of questionnaires:
 - Questionnaires for small and medium agricultural holdings
 - Questionnaire for large scale agricultural holdings

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METHODOLOGY(The SAMPLE)



- ❑ **Based on the population Census (Section G): two stage sample**
 - ❑ **First stage:** enumeration areas (EA), were selected systematically and with probability proportional size, where size was the number of agriculture households/holdings in the EA;

 - ❑ **Second stage:** ten agriculture households were selected randomly to be interviewed in each EA.

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METHODOLOGY



SAMPLING

- 35 000 small farm households/holdings ;
- All medium sized farms found in the selected enumeration areas were surveyed (26000);
- Large farms were interviewed in a complete enumeration basis (884).

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METHODOLOGY: Data processing / analysis / dissemination



- Data entry and processing: Field based Data Entry, using CAPI and CsPro as Software;
- Program validation and consistency of collected data: CsPro and SPSS;
- Dissemination: CD, Brochures, Agenda, web, worksop,
- Data analysis: Using SPSS; thematic studies/ analysis (temathics reports) by subject matter specialist

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METHODOLOGY



Emuneration period

The enumeration period (interview and areas measurement) was done by regions according to crops calendar:

South region – December 2009 to April 2010

Center region – April to August 2010

North region – May to September 2010

Reference date

- agricultural season 2009/2010;
- livestock – The **day of interview** (number of livestock) and **last 12 months** (other variables)

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Main Topics



- Socio-demographic characteristics
- Land use and ownership
- Crops (permanent, food and cash crop)
- Access and use of inputs and services
- Agricultural practices
- Livestock (number, marketing and veterinary services)
- Labour
- Food security
- Aquaculture

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Collecting sex disaggregated data



Data collected at the HH level:

- ✓ Access to and use of services and input
- ✓ Access to credit
- ✓ Access to Market and marketing
- ✓ Livestock
- ✓ Food security

Data collected at the level of Member of HH

(sex disaggregated: socio-demographic, access to land and crops, credit, membership in the association of farmers, the use of labour in large scale farms)

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Collecting sex disaggregated data



Collecting sex disaggregated data on land

- Data collected at HH level (in the CAP) and annual Survey (MoA, TIA)

at the level of sub-holder (responsible of the parcel): Management, title (ownership), produced crops, area, use of the irrigation and inputs

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Questionnaire (related to land)



SECÇÃO C: INFORMAÇÃO SOBRE MACHAMBAS/ PARCELAS- 2009/ 2010													
3.1. Machamba cultivada					C3113. Quais são as culturas anuais que praticou na 1ª época?								
C311. Número da machamba	<input type="text"/>				Nome da cultura	cod	E.R.	Rega?	Tipo	Fonte	Pest.	Fert.	Estr.
C312. Localização	<input type="text"/>				<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
C312cod. Código do distrito	<input type="text"/>				<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
C313. Área estimada da machamba (Ha)	<input type="text"/>				<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
C314. Zona	1- Zona alta 2- Zona baixa				<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
C315. Tem título de uso de aproveitamento de terra?	<input type="checkbox"/>				<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
C316. A pessoa responsável pela machamba é chefe do agregado familiar?	<input type="checkbox"/>				C316a. Sexo:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
C317. Idade da pessoa responsável pela machamba	<input type="text"/>				<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
C318. Como obteve esta machamba e/ ou parcela?	<input type="text"/>				<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Outra opção de como obteve a machamba/ parcela.					<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
C319. Quantos hectares foram cultivados com culturas anuais (Ha) ?	<input type="text"/>				3.2. medição de machambas								
C3110. Quantos hectares estiveram em pousio parcial nesta machamba/ parcela(Ha)?	<input type="text"/>				C321. Nr.	<input type="text"/>	EASTING	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
PREENCHA APENAS UMA DESTAS PERGUNTAS					C322. Área medida de toda machambas (Ha)	<input type="text"/>							
C3111. Área com culturas permanentes (Ha)	<input type="text"/>				C323. Perímetro (m)	<input type="text"/>							
C3112. Número de árvores	<input type="text"/>				C324. Número do inquiridor	<input type="text"/>							

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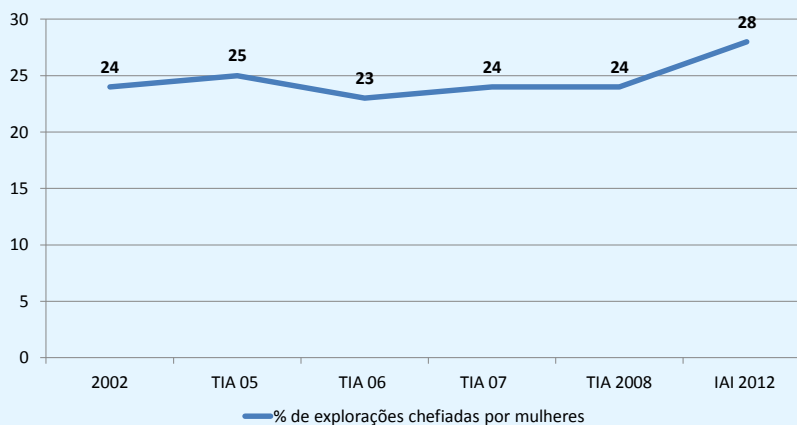


**PRODUCERS AND
AGRO-LIVESTOCK ACTIVITIES**



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Percentage of Agric.holdings headed by women (%)



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The size of land in Small & Medium Agricultural Holdings(From CAP II)



Category of cultivated area	% of Agricultural Holdings headed by:		
	Female	Male	Total
Total of Agric. Holdin(Nº)	1 008 583	2 668 193	3 676 776
< 0,1	1.4	1.1	1.2
0,1 - < 0,2	1.2	1.0	1.0
0,2 - < 0,5	12.0	6.7	8.2
0,5 - < 1	30.8	21.5	24.0
1 - < 2	36.4	37.6	37.3
2 - < 3	11.6	17.4	15.8
3 - < 4	4.0	7.7	6.7
4 - < 5	1.3	3.3	2.7
5 - < 10	1.0	3.4	2.7
10 - < 20	0.0	0.1	0.1
20 - < 50	0.0	0.0	0.0
Não especificada	0.4	0.2	0.3

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USE OF INPUTS



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Level of education of agricultural HH members (from CAP II, 2010)



Level of Education	% of HH headed by		
	Female	Male	Total
Illiterate	63	32	40
Primary school (level 1)	13	30	23
Primary school (level 2)	5	14	12
Secondary school level	4	10	8

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Lessons Learnd



- Existence of **an integrated system** of agricultural Census and surveys;
- **Modular approach** which uses the agricultural census sample based on the population census;
- The **field based data entry approach** using CAPI has implications on reduction of inconsistencies and time for delivering the results and improves the quality of data

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Lessons Learnd



- Data collected not only at the level of HH but also at intra HH level (socio-demographic, access to land and crops, credit, membership in the association of farmers, the use of labour in the large scale farms);

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The main challenges in collecting sex disaggregated data



- Extension and improvement of collecting data at intra-HH level with sex disaggregated perspective: **Access to and control of resources** (land, labour, credit, agricultural inputs, technology, market), crops, livestock, food security and **decision making process** . Implication on methodology:
 - Sampling, questionnaire design, tabulation plan, indicators;
 - Training of the Census and agricultural surveys managers and data analysis as well

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The main challenges in collecting sex disaggregated data



- analysis of available sex-disaggregated data (additional training of data analyst and gender Unit staff)
- The use of sex-disaggregated data – policy-making, Planning, implementation & impact assessment

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Recommendations



- To continue to improve the collection of data at intra-HH level with sex disaggregated perspective particularly related to **Access to and control of resources, access to market, livestock, food security and decision making process** ;
- Training of the staff on the collection and analysis of sex disaggregated data;
- Enhance the analysis and use of **available sex-disaggregated data for policy and planning**

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