

# Lao People's Democratic Republic - Census of Agriculture, 2010-2011

**National Statistics Centre (NSC), Ministry of Agriculture and Forestry (MAF)**

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# Overview

## Identification

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### ID NUMBER

LAO\_2010-2011\_CA\_v01\_EN\_M\_v01\_A\_OCS

## Overview

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### ABSTRACT

Most people in Lao PDR live in rural areas and make their living from agriculture. The Government needs detailed and up-to-date statistics on agriculture to help develop the agricultural sector and improve the welfare of the people. The Government already has statistics on the area and production of rice and other major crops, as well as livestock numbers. However, there is little information available on such things as: the different types of rice grown, the number of rice farmers, the area planted to minor crops, the use of different inputs, the use of farm machinery, farm size, farm labour, and the age/sex structure of livestock. The Lao Agricultural Census will provide these and many other data. The Lao Agricultural Census is part of a world-wide programme of agricultural censuses, which started in the 1930's. Over 120 countries are now participating in that programme; many of these undertake agricultural censuses every ten years. The Lao Agricultural Census is the first such census undertaken in Lao PDR. It is being conducted in all 141 districts and is one of the largest and most important statistical collections ever undertaken in the country.

Objectives of Lao Agricultural Census:

1. To provide data on the structure of agriculture, agricultural land (land use for agricultural crops; livestock).  
> Land issue: there is strong need for land use and other related data to guide land policy formulation .
2. To obtain community-level data (at the village level) for examining the infrastructure and services available to farm holdings.
3. To provide data to use as benchmarks for current agricultural statistics.
4. To strengthen national capacity and provide frames for future agricultural sample surveys.

### KIND OF DATA

Census/enumeration data [cen]

### UNITS OF ANALYSIS

Households

## Scope

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### NOTES

The scope of the study includes:

Part 1. Farm households

Part 2. Land

Part 3. Crops

Part 4. Irrigation

Part 5. Livestock

Part 6. Farm practices/services

Part 7. Farm population

Part 8. Farm labour

Part 9. Farm management

Part 10. Fisheries

Part 11. Forestry

## TOPICS

Topic	Vocabulary	URI
Agriculture & Rural Development	FAO	
Food (production, crisis)	FAO	
Land (policy, resource management)	FAO	
Labor	FAO	
Forests & Forestry	FAO	

## Coverage

## GEOGRAPHIC COVERAGE

National coverage

## UNIVERSE

The statistical unit was the farm household (holding), defined as an economic unit of agricultural production under single management, comprising all livestock raised and all agricultural land operated, regardless of ownership, which engages agricultural operation above certain established thresholds of land, livestock or aquaculture.

## Producers and Sponsors

## PRIMARY INVESTIGATOR(S)

Name	Affiliation
National Statistics Centre (NSC)	
Ministry of Agriculture and Forestry (MAF)	

## OTHER PRODUCER(S)

Name	Affiliation	Role
Swedish International Development Co-operation Authority		Technical assistance

## FUNDING

Name	Abbreviation	Role
Swedish International Development Co-operation Authority	Sida	Funding

## Metadata Production

## METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Office of Chief Statistician	OCS	Food and Agriculture Organization	Adoption of metadata for FAM

Census team, Statistics Division	ESS	Food and Agriculture Organization	Metadata producer
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DDI DOCUMENT VERSION

LAO\_2010-2011\_CA\_v01\_EN\_M\_v01\_A\_OCS\_v01

DDI DOCUMENT ID

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# Sampling

## Sampling Procedure

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### Sample design and selection

The sample for the sample farm household component was selected using two-stage sampling: a sample of villages was first selected, and then a sample of farm households was selected in each sample village. In most districts, a sample of between 16 and 22 villages was selected, with 16 farm households selected in each sample village; that is, a sample of between 256 and 352 sample farm households in each district. The more villages or farm households in a district, the bigger the sample that was taken. A smaller sample was taken in urban districts and districts containing few villages or households. In each district, the sample of villages was selected using stratified systematic probability proportional to size (PPS) sampling. A list of all villages in Lao PDR was prepared. Villages were divided into urban and rural strata, with rural strata being sampled more heavily than urban strata because of their agricultural importance. The estimated number of households in each village was used as the size measure for PPS sampling. The sample of farm households in each sample village was selected using stratified systematic random sampling based on a list of all farm households in each village prepared following the household component of the census. Altogether, 2,620 villages and 41,660 sample farm households were selected in the sample.

## Response Rate

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village component- 99 percent

household component - 99. 4 percent

sample farm household componen - 99.9 percent

# Questionnaires

## Overview

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Four questionnaires were used in the CA 2010/2011, as follows:

- (i) a form for listing the households in the village, Form 1;
- (ii) a questionnaire for the household component, Form 4;
- (iii) a questionnaire for the farm household (holding) component, Form 5;
- (iv) a questionnaire for the village component, Form 3.

The 2010/2011 CA census questionnaires covered all 16 core items recommended for the WCA 2010 roundn namely;

- 0001 Identification and location of agricultural holding
- 0002+ Legal status of agricultural holder
- 0003 Sex of agricultural holder
- 0004 Age of agricultural holder
- 0005 Household size
- 0006 Main purpose of production of the holding
- 0007 Area of holding according to land use types
- 0008 Total area of holding
- 0009 Land tenure types on the holding
- 0010 Presence of irrigation on the holding
- 0011 Types of temporary crops on the holding
- 0012 Types of permanent crops on the holding and whether in compact plantation
- 0013 Number of animals on the holding for each livestock type
- 0014 Presence of aquaculture on the holding
- 0015+ Presence of forest and other wooded land on the holding
- 0016 Other economic production activities of the holding's enterprise

See questionnaires in external materials tab

## Data Collection

### Data Collection Dates

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Start	End	Cycle
2011-02-28	2011-04-08	N/A

### Data Collection Mode

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Face-to-face [f2f]

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## Data Processing

### Data Editing

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#### Census processing

Completed questionnaires were returned to ACO in Vientiane for processing. Processing involved:

- checking that the census enumeration was complete;
- manually checking that questionnaires had been correctly filled out; coding of descriptive responses (such as crop types);
- entering data into the computer (using keyboard methods); running computer checks to identify and correct errors; and producing tabulations of census data.

There were nearly 1.2 million questionnaires and therefore it took some for the processing to be completed. Preliminary checking and coding was done from May-September 2011; data entry was done from June-December 2011; and error checking was done from August 2011-February 2012. Tabulations were prepared by April 2012.



## Data Appraisal

### **Estimates of Sampling Error**

The census data presented from the sample farm household component are based on a sample and are therefore subject to sampling errors. Because of the sample design used, sampling errors on provincial and national estimates are generally quite small.

### **Other forms of Data Appraisal**

To ensure census data quality, supervision was done at the central, provincial and district level. The data were confronted with external sources, such as the data from the previous census and current agricultural surveys. For the sampling component, statistical errors were computed.