

Lao People's Democratic Republic - Census of Agriculture 2019/2020

Ministry of Planning and Investment, Lao Statistics Bureau

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Identification

SURVEY ID NUMBER

LAO_2019_2020_CA_v01_M_v01_A_ESS

TITLE

Census of Agriculture 2019/2020

TRANSLATED TITLE

ການສຳຫຼວດສະຖິຕິກະສິ ກຳໜົ່ວປະເທດ ຄັ້ງທີ III ປີ 2019/2020

COUNTRY

Name	Country code
Lao People's Democratic Republic	LAO

STUDY TYPE

Agricultural Census [ag/census]

SERIES INFORMATION

The first Census of Agriculture in the Lao People's Democratic Republic was conducted in 1998/1999, the second was in 2010/2011, and the third in 2019/2020.

ABSTRACT

The information collected during the Census of Agriculture 2019/2020 is of the utmost benefit for monitoring changes in the structure of agriculture over the years; planning improvements to the agricultural data collection-reporting process; creating indicators of agricultural statistics; and monitoring the implementation of national social-economics development plans and sustainable development plans. The design and scope of the data collection by the census was based on the guidelines set out by the World Programme for the Census of Agriculture (WCA) 2020.

KIND OF DATA

Census/enumeration data [cen]

UNIT OF ANALYSIS

Agricultural holdings

Scope

NOTES

The census scope covered agricultural activities (crop production and livestock raising) as well as aquaculture, fishery, and forestry activities.

The questionnaire collected information on:

- Part 1: Household characteristics
- Part 2: Land holding
- Part 3: Irrigation
- Part 4: Crop cultivation
- Part 5: Planted forest farm and non-timber forest products
- Part 6: Livestock
- Part 7: Aquaculture and fishery
- Part 8: Agricultural machinery and equipment
- Part 9: Agricultural extension service
- Part 10: Labor
- Part 11: Food security of the household
- Part 12: Environmental management

KEYWORDS

Keyword

Structure of Agriculture
Land use
Crops
Livestock and Poultry
Labor in the Agricultural Sector
Aquaculture
Fishery
Forestry
Machinery and Equipment
Food Security

Coverage

GEOGRAPHIC COVERAGE

The census covered urban and rural areas of the country.

UNIVERSE

The statistical unit was the agricultural holding, defined as the unit that carries out agricultural production that includes animal production and the partial or total use of the land for agricultural production, regardless of the type of production, the type of organization or the size of production. Production management can refer to households, group of households, joint venture between individual and business, business unit or government unit. The land ownership may comprise one or more parcels within the same or different territory (based on the World Programme for the Census of Agriculture 2020). Two types of units were considered in the census 2019/2020:

- Farm households
- Agribusiness

The following thresholds were established for the farm household in the census 2019/2020: (i) the household operated at least 0.1 ha of agricultural land or (ii) raised at least five cattle, 10 pigs and goats, or 50 or more poultry at the time of the census.

Producers and sponsors

PRIMARY INVESTIGATORS

Name
Ministry of Planning and Investment, Lao Statistics Bureau (ສູນສະຖິຕິແຫ່ງຊາດ)

PRODUCERS

Name	Role
Food and Agriculture Organization of the United Nations	Support
Indian Agricultural Statistics Research Institute (ສູນຄົ້ນຄວ້າ ທາງກະສິກຳ ແລະ ກະສິກຳ ສາມາດ ສຶກສາ ກະສິກຳ ສາມາດ)	Development of sampling design

Sampling

SAMPLING PROCEDURE

Household listing (phase I) was conducted with complete enumeration to establish an up to date sampling frame.

Census data collection (phase II) employed stratified two stage cluster sampling to select farm households for interviews. In

the first stage, a sample of 2552 villages was selected using simple random sampling without replacement in each of the four strata: urban, rural with small agriculture land, rural with medium agriculture land, and rural with large agriculture land.

In the second stage, a sample of 16 farm households were selected in each village using simple random sampling without replacement from the list of farm households identified during phase I. The final sample size was 40 832 farm households.

WEIGHTING

Weighting adjustments were applied to the sampling weight to reduce the bias caused by non-response.

Data collection

DATES OF DATA COLLECTION

Start	End	Cycle
2019-06	2019-07	Phase I: Listing
2020-11	2020-12	Phase II: Data collection

DATA COLLECTION MODE

Computer Assisted Personal Interview [capi] Pen and Paper Interview [papi]

DATA COLLECTION NOTES

The data collection in the listing phase was conducted by 4435 district officers. The census personnel included 595 field enumerators who were staff from the District Statistics Office, the District Office of Planning and Investment, and the District Office of Agriculture and Forestry. There were 281 supervisors at the central and local levels. The supervisors at the central level were representatives of Lao Statistics Bureau and the Ministry of Agriculture and Forestry, whereas the supervisors at the local level were from Provincial Statistics Centre, the Department of Planning and Investment, the Department of Agriculture and Forestry, and the Department of Finance.

The census was conducted in two phases:

- Phase I: complete enumeration of all villages and households. A short questionnaire was used to collect household information.
- Phase II: sample enumeration with a long questionnaire was adopted to obtain detailed data on agriculture.

During the first phase, the PAPI method was used to collect data, and manual data entry was carried out through a Census and Survey Processing System (CSPro) application. During the second phase, CAPI was used for data collection using tablets equipped with CSPro. Field data was transmitted to the Lao Census Bureau using File Transfer Protocol (FTP) using Microsoft SharePoint, and data was backed up daily.

QUALITY ASSURANCE

The provincial steering committee and district level staff carried out extensive overseeing and inspections. Census staff and inspectors were well trained and coordinated in the field. During data processing, information was systematically verified both qualitatively and quantitatively. Consistency checks were performed with other sources of information. Sampling errors were estimated.

Questionnaires

QUESTIONNAIRES

A short-long questionnaires approach was used in the census 2019/2020. For the household listing (phase I), a short questionnaire was designed to register households and to collect information regarding general characteristics, agricultural tenure and business operation.

Further, a community questionnaire was used to collect village information and access to services.

For data collection (phase II), a long questionnaire, comprising 12 sections, was designed.

The census questionnaire covered 21 items out of the 23 essential items recommended in the WCA 2020.

Data Processing

DATA EDITING

The use of CAPI allowed data to be received online directly into the servers of the Lao Statistics Bureau. Provincial and district levels inspectors with the census team verified that data was submitted daily. Inspectors at the local level double-checked for and detected erroneous data, which was then resolved by census staff.

Subsequently, data editing was carried out in three steps:

- Step 1: checking the database's completeness and the number of answers per unit, response categories and key code duplication
- Step 2: revision of the accuracy of the responses, the consistency of the answers, and outlier identification
- Step 3: correction and replacement of incorrect data

Data processing and editing were carried out using STATA.

Access policy

CONTACTS

Name	Affiliation	Email	URL
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ACCESS CONDITIONS

For data access and use information please contact the Lao Statistics Bureau.

Email: lsbadmin@etlao.com; lstats@lsb.gov.la

Website: www.lsb.gov.la

Metadata production

DDI DOCUMENT ID

DDI_LAO_2019_2020_CA_v01_M_v01_A_ESS_FAO

PRODUCERS

Name	Abbreviation	Affiliation	Role
Lao Statistics Bureau (ສູນສະຖິຕິແຫ່ງຊາດ)		Ministry of Planning and Investment	Metadata producer
Statistics Division	ESS	Food and Agriculture Organization of the United Nations	Metadata adapted for FAM

Data Dictionary

Data file	Cases	Variables
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