

# Panama - Agricultural Census, 2011

**National Institute of Statistics and Censuses (INEC)**

Report generated on: December 8, 2020

Visit our data catalog at: <https://microdata.fao.org/index.php>

# Overview

## Identification

---

### ID NUMBER

PAN\_2011\_AC\_v01\_EN\_M\_v01\_A\_OCS

## Overview

---

### ABSTRACT

The Agricultural Census is a large-scale statistical operation carried out every ten years to collect, process and disseminate data on the structure of the sector agricultural sector of a country or a significant part of it. Structural data Typical crops harvested are: size of farm, ownership and use of land, cultivated areas, irrigation, livestock population, labour and other inputs agricultural. The Agricultural Censuses in Panama began in 1950 when the the first truly national census. In April 1961 the Second Agricultural Census; in May 1971 and 1981 the Third and Fourth Census and in April 1991, 2001 and 2011 the Fifth, Sixth and Seventh Agricultural Census, respectively.

### General objectives:

- a. To collect data on the agricultural and livestock structure, mainly from the small administrative units and allow tabulations.
- b. Provide data to serve as reference points, for statistics continuous farming.
- c. Provide frames for agricultural sample surveys.

### Specific objectives:

- a. Determine the number, distribution and main characteristics of the agricultural holdings.
- b. To evaluate the continuous agricultural statistics, collected during the years intercensal.
- c. Provide an updated framework for future agricultural surveys.
- d. Determine the impact on agriculture and livestock of the work of the agricultural promotion, both official and private.
- e. Provide a wealth of data to be used in specific agricultural, industrial and commercial development.
- f. To serve as a basis for international comparison of data on the sector agricultural.
- g. Provide data that contribute to monitoring development objectives of the Millennium Development Goals (MDGs) which are the most important global goals.

### KIND OF DATA

Census/enumeration data [cen]

### UNITS OF ANALYSIS

Households

## Scope

---

### NOTES

The scope of the study includes farm production, land use, input use, livestock production and sources of income.

### TOPICS

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

## Coverage

### GEOGRAPHIC COVERAGE

National coverage

### UNIVERSE

The statistical unit was the agricultural holding, defined as "any extension of land used totally or partially for agricultural, livestock or forestry activities, regardless of title, size, or location, by a producer and the members of the producer's household".<sup>1</sup>

## Producers and Sponsors

### PRIMARY INVESTIGATOR(S)

Name	Affiliation
National Institute of Statistics and Censuses (INEC)	

### OTHER PRODUCER(S)

Name	Affiliation	Role
Ministry of Agricultural Development		Technical assistance

### FUNDING

Name	Abbreviation	Role
Agricultural Development Bank	BDA	Funding
National Revenue Service	BDA	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

### DDI DOCUMENT VERSION

PAN\_2011\_AC\_v01\_EN\_M\_v01\_A\_OCS\_v01

### DDI DOCUMENT ID

DDI\_PAN\_2011\_AC\_v01\_EN\_M\_v01\_A\_OCS\_FAO

# Sampling

## Sampling Procedure

---

i. Methodological modality for conducting the census

The classical approach was used in the AC 2011.

ii. Frame

The PHC 2010 was undertaken less than one year before the AC 2011. A question in the PHC questionnaire allowed for the identification of households with agricultural activity. The PHC 2010 included a question to identify the households conducting agricultural holdings.

iii. Complete and/or sample enumeration methods

The AC 2011 was carried out by complete enumeration

# Questionnaires

## Overview

---

For the AC 2011 data collection, one questionnaire was used capturing the following information:

Residence of the producer and location of the farm  
 Producer's and manager's general  
 Data on agricultural holdings and land tenure  
 Land use  
 Annual or temporary crops  
 Fruit, permanent industrial, medicinal and ornamental plants  
 Environment - agricultural practices  
 Use of fertilizers  
 Irrigation systems  
 Pesticides and seeds  
 Aquaculture  
 Livestock and poultry  
 Technological innovation  
 Inventory  
 Population and employment  
 Agricultural holdings  
 Sources of income  
 Financing and technical assistance

The census covered 13 of the 16 core items recommended for the WCA 2010 round. The following items were not covered:

- (i) "Presence of aquaculture on the holding"
- (ii) "Presence of forest and other wood land on the holding"
- (iii) "Other economic production activities of the holding's enterprise"

## Data Collection

### Data Collection Dates

---

Start	End	Cycle
2011-04-24	2011-05-01	N/A

### Data Collection Mode

---

Face-to-face [f2f]

### Questionnaires

---

For the AC 2011 data collection, one questionnaire was used capturing the following information:

Residence of the producer and location of the farm  
 Producer's and manager's general  
 Data on agricultural holdings and land tenure  
 Land use  
 Annual or temporary crops  
 Fruit, permanent industrial, medicinal and ornamental plants  
 Environment - agricultural practices  
 Use of fertilizers  
 Irrigation systems  
 Pesticides and seeds  
 Aquaculture  
 Livestock and poultry  
 Technological innovation  
 Inventory  
 Population and employment  
 Agricultural holdings  
 Sources of income  
 Financing and technical assistance

The census covered 13 of the 16 core items recommended for the WCA 2010 round. The following items were not covered:

- (i) "Presence of aquaculture on the holding"
- (ii) "Presence of forest and other wood land on the holding"
- (iii) "Other economic production activities of the holding's enterprise"

# Data Processing

## Data Editing

---

### 1. DATA PROCESSING AND ARCHIVING

To obtain the census results in a timely manner, IINEC decentralized the data entry process to its regional offices in nine data capture centres. Microcomputer networks were established in each of the capture centres, consisting of a server with the Windows 2008 Server operating system, laptop computers for supervisors and data entry devices. The system for the processing of census questionnaires was developed using Microsoft Visual Studio.Net <<http://Studio.Net>> 2005, SQL Server 2008 database, CsPro 4.0.002 and Microsoft Office 2003.

### 2. CENSUS DATA QUALITY

The quality of final census data was assessed by means of control checks against sampling survey data of selected crops (coffee, sugar cane, rice, maize, etc.) and livestock.

## Data Appraisal

No content available