

# Mexico - National Agricultural Survey 2012

**National Institute of Statistics, Geography and Informatics**

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# Overview

## Identification

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### ID NUMBER

MEX\_2012\_ENA\_v01\_EN\_M\_v01\_A\_OCS

## Overview

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### ABSTRACT

The National Institute of Statistics and Geography (INEGI), in order to strengthen the generation of agricultural statistics, carried out the National Agricultural Survey 2012 (ENA 2012), with the primary objective of obtaining economic and development information on activities related to production of the main crops and livestock species in the country.

The products included in the Survey were defined by their high contribution to the National Gross Domestic Product (GDP); for being important for the population, according to the Sustainable Rural Development Law and for being part of the strategic food products according to the Food and Agriculture Organization of the United Nations (FAO).

The information of the ENA 2012, was captured by a mobile electronic device (tablet type), and a pre-designed questionnaire for each selected production unit. During the interview, land registration was carried out using a cartographic module incorporated into the mobile electronic device. In some cases, a printed map and a basic questionnaire was administered.

Information on the main agricultural and livestock products obtained from the ENA is one of the main sources for planning and making policies, by public and private sector institutions linked to the rural environment. Thus, information from the survey can serve as a primary tool for the analysis of the behavior of the agricultural sector in the context of the economy in the country. In general terms, the survey had the following objectives/outputs:

- Obtain useful information from the structural point of view of 33 agricultural and livestock products of greater interest in the country.
- Have current data to support producers and productive organizations in the rural sector, which are part of the agricultural production system, sponsored by the ministry of Agriculture (SAGARPA).
- Obtain indicators in support of decision-making to implement policies that encourage the adoption of new technologies.
- Generate information that supports the decisions of new forms of market entry.
- Identify the problems that producers face in their activities.
- Facilitate the comparison of information with other sources at an international level and between different regions of the country, in addition to allowing linkage to databases of other projects undertaken by INEGI.
- Formulate specific research projects with agricultural producers.
- Provide relevant information on the sector that allows the evaluation of the effectiveness of government policies and agricultural development programs in the country, which have an impact on the food security of the population.

### KIND OF DATA

Sample survey data [ssd]

### UNITS OF ANALYSIS

Agricultural holdings

## Scope

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### NOTES

The description of scope includes:

1. General characteristics of the land
2. Land use
3. Agriculture
4. Animal breeding and exploitation
5. Tractor and machinery
6. Credit and Insurance
7. Payment for environmental services
8. Labor/workforce
9. Information technologies
10. Main problems
11. Agricultural production unit expenses
12. Identification data

#### TOPICS

Topic	Vocabulary	URI
Agricultural production		
Livestock production		

#### KEYWORDS

Production unit, Land Area, Irrigation, Protected agriculture, Alternative agriculture, Nurseries, Greenhouses, Cattle, Pig, Poultry, Other animal species, Sale, Tractors, Credit, Insurance, Labour, Producer

## Coverage

#### GEOGRAPHIC COVERAGE

National Coverage

#### UNIVERSE

The universe for ENA 2012 was made up of 97,442 production units from the 3.94 million units captured by the 2007 Agricultural Census. This universe was defined from the 33 products of interest selected for the survey, 29 which are annual and perennial crops and the rest corresponds to livestock species of economic importance for the country. The products include: Corn, Fodder, Sugarcane, Grasses, Wheat, Avocado, Sorghum, Beans, Chili, Alfalfa, Tomato, Potato, Melon and Watermelon, Coffee, Orange, Grape, Banana, Lemon, Mango, Onion, Pumpkin, Green Tomato, Cotton, Apple, Cocoa, Rice, Barley, Soy, Forage Oats, Cattle, Swine, Poultry and Egg.

## Producers and Sponsors

#### PRIMARY INVESTIGATOR(S)

Name	Affiliation
National Institute of Statistics, Geography and Informatics	Government of Mexico

#### OTHER PRODUCER(S)

Name	Affiliation	Role
General Directorate of Economic Statistics	Government of Mexico	
Deputy General Directorate of Economic and Agricultural Censuses	Government of Mexico	
Directorate of Census and Agricultural Surveys	Government of Mexico	

## FUNDING

Name	Abbreviation	Role
National Institute of Statistic and Geography	INEGI	
Ministry of Agriculture, Livestock, Rural Development, Fisheries and Food	SAGARPA	

## Metadata Production

## METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Office of Chief Statistician	OCS	Food and Agriculture Organization	Metadata adapted for FAM
National Institute of Statistic and Geography	INEGI		Metadata development
General Directorate of Economic Statistics	DGEE		Metadata development
Deputy General Directorate of Economic and Agricultural Censuses	DGACEA		Metadata development
Directorate of Census and Agricultural Surveys	DCEA		Metadata development
Coordination of Conceptual Design and Results	CDCR		Metadata development
Subdirectorate of Conceptual Design	SDC		Metadata development

## DDI DOCUMENT VERSION

MEX\_2012\_ENA\_v01\_EN\_M\_v01\_A\_OCS\_v01

## DDI DOCUMENT ID

DDI\_MEX\_2012\_ENA\_v01\_EN\_M\_v01\_A\_OCS\_FAO

## Sampling

### Sampling Procedure

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The sample design was probabilistic, so the results obtained from the survey are generalized to the entire target population, where the sampling unit is the production unit. The sampling frame was formed from the final results of the 2007 Agricultural Census, considering the 3,943,935 production units that reported information on any of the 33 products of interest. Thus, in total, the universe for ENA 2012 was made up of 97,442 production units from the 3.94 million units captured by the 2007 Agricultural Census. This universe was defined based on the 33 products of interest selected for the survey, 29 which are annual and perennial crops, with the rest corresponding to livestock species of economic importance for the country. At the national level, the domains of the study are each of the 33 agricultural products selected; while at the federal entity level, the domains are the main products from this 33 selected products.

Stratified sampling method was used in sampling 31 products. However, for poultry and egg products, only large producers were considered in the sample. The selected crops were classified into stratas according to the land area cultivated in hectares (more than 20; 11-20; 6-10; 3-5; 0-2), while livestock products were classified based on stocks. Crops that fall in the first strata (more than 20 hectares), were further classified into 2 sub-stratas (21-50 hectares; more than 50 hectares). These crops include: Corn, Coffee, Rice, Pumpkin, Grasses, Orange, Wheat, Grape, Soy, Avocado, Banana, Forage oats, Beans, Mango.

For each domain of interest, the sample was assigned in each stratum by applying the Neyman Locking method, for area planted in crops and stocks in livestock products, obtaining a formula for estimation that is presented in the reference material in of the survey. Sample selection was performed independently for each domain-stratum, the selection procedure was random without replacement. A production unit could be selected more than once for containing more than one product.

### Weighting

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The expansion factors, both at the national level and at the entity level for each domain-stratum, were calculated as the inverse of the selection probability.

## Questionnaires

No content available

## Data Collection

### Data Collection Dates

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Start	End	Cycle
2012-10-01	2012-11-23	N/A

### Data Collection Mode

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Computer Assisted Personal Interview [capi]

## Data Processing

### Data Editing

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After the collection of the data on the field, it was transferred to a national database in INEGI headquarters for review and analysis, through various information processing stages, with the aim of guaranteeing quality, congruence and consistency. Processing and treatment of the data consisted of the following stages:

1. Verification of the quality of information provided during capture/data collection
2. Assigning codes/keys to variables to facilitate interpretation, processing and analysis
3. Standardization of units of measurement
4. Final data validation using an automatic validation system, pre-designed with over 200 validation criteria
5. Group information analysis
6. Comparison with internal and external sources



## Data Appraisal

### **Estimates of Sampling Error**

To know the precision estimators of this project in greater detail, please refer to section 5.8 of the ENA 2012 methodological document, which is attached as a reference material.