

Croatia - Farm Structure Survey, 2010

Croatian Bureau of Statistics (CBS)

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Overview

Identification

ID NUMBER

HRV_2010_FSS_v01_EN_M_v01_A_OCS

Overview

ABSTRACT

In Croatia only one independent census of agricultural holdings, or farm structure surveys, was conducted before the year 2000 and it was in 1960. In 1969 a sample census of agricultural holdings was conducted, and in 1971, 1981 and 1991 data about agriculture were collected within population censuses. However, due to a limited number of questions related to agriculture, these data do not provide complete and comparable information on the structure of agricultural holdings in Croatia. In the year 2003 first EU comparable Agricultural Census (hereinafter AC) was carried out. A survey on the structure of agricultural holdings was conducted on the sample basis for the first time in 2005. The survey "conducted in 2005, was in fact a study of the structure of agricultural holdings. The 2005 survey included all sown areas, main categories of land use, labour force, supplementary activities, agricultural machinery, production for own use, or for sale. Since the said 2005 survey was the first ever conducted of the kind, the set of questions pertaining to the number of livestock was not included. In 2007, a survey on the structure of agricultural holdings was conducted on a new sample. Questions pertaining to livestock were included for the first time. The sample was also stratified for the first time. In 2010 the FSS and Survey on agricultural production methods is conducted.

KIND OF DATA

Census/enumeration data [cen]

UNITS OF ANALYSIS

Households

Scope

NOTES

The survey covers agricultural holdings in the territory of Republic of Croatia. The observation units are divided into:

- business entities (legal entities and parts thereof and craftsman)

Coverage

GEOGRAPHIC COVERAGE

National coverage

UNIVERSE

The statistical unit for the FSS 2010 was the agricultural holding (farm), defined as a production management unit engaged in agriculture, either as its primary or secondary activity, which jointly uses labour force and production means (machinery, buildings, or land, etc.). The FSS covered all holdings engaged in agricultural production: family farms, business entities and parts thereof.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
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Croatian Bureau of Statistics (CBS)	
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OTHER PRODUCER(S)

Name	Affiliation	Role
Agricultural Statistics Committee		Technical assistance

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	OCS	Food and Agriculture Organization	Metadata producer

DDI DOCUMENT VERSION

HRV_2010_FSS_v01_EN_M_v01_A_OCS_v01

DDI DOCUMENT ID

DDI_HRV_2010_FSS_v01_EN_M_v01_A_OCS_FAO

Sampling

Sampling Procedure

(a) Complete and/or sample enumeration methods

All agricultural enterprises (business entities) were surveyed using complete enumeration. Private family farms were surveyed using the sampling method.

(b) Sample design (r f sampling was used)

The sample design for family farms was stratified random sampling. The population of family farms was divided into two parts:

(i) the first part consisted of family farms for which the farm's size in terms of European Size Units (ESUs) was calculated; and
(ii) the second part consisted of family farms without a calculated ESU. For the population with a calculated ESU, the

stratification criteria were the following:

- variable size, a combination of ESUs and UAA - eight sizes;
- specialization of the farm - nine types;
- NUTS 2 regions - three regions defined.

The biggest farms with a large ESU and UAA (9 806 farms) were included exhaustively in the sample. The farms without a defined ESU were stratified according to their UAA, area under orchards and area under vineyard. Stratified random sampling with explicit regional (NUTS 2) stratification was used.

(c) Frame

The census frame was provided by the Statistical Register of Agricultural Holdings (SRAH), and has been regularly updated since the AC 2003, when it was established. The sampling frame was a list of all active family farms from the SRAH.

Weighting

As estimation method we have used Horvitz-Thomson estimator (regular design weight), but we have also multiplied this estimator with response weights which we have calculated according to provided statuses of respondents. So, final weight was product of these two, and we have used them during estimation procedure.

Questionnaires

Overview

Two versions of the paper questionnaire were prepared: one for family farms and another for business entities. The two questionnaires were slightly different regarding the chapter related to labour force.

The FSS 2010 covered all 16 core items recommended in the WCA 2010. Some of the characteristics were added to the questionnaire for national purposes only:

- holder's name and surname
- areas under triticale (included in other cereals)
- areas under secondary crops
- address of the holder
- number of trees in extensive orchards and olive groves and number of vines in vineyards – needed for calculation of production
- all species of vegetables are added in open fields, in glasshouses and in kitchen gardens
- machinery and equipment
- energy consumption
- average age of agricultural buildings

The characteristics surveyed only for national purposes are used in EAA, for updating farm register and for calculating standard output

Data Collection

Data Collection Dates

Start	End	Cycle
2010-06-01	2010-06-20	N/A

Data Collection Mode

Mail Questionnaire [mail]

Data Collection Notes

Data on business entities and parts thereof were collected using the self-interviewing (mail-out/mail-back) method. The completed paper forms were submitted to the CBS by post, while data on family farms were collected by interviewers using the PAPI method.

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The characteristics surveyed only for national purposes are used in EAA, for updating farm register and for calculating standard output

Data Processing

Data Editing

(a) DATA PROCESSING AND ARCHIVING

FSS and SAPM data were entered at the CBS with optical readers for the intelligent character recognition and optical mark recognition. To draw the sample SAS programme, the PROC SURVEYSELECT procedure was used. The estimation method used was the Horvitz-Thompson estimator (regular design weight), multiplied with calculated response weights.

(b) CENSUS DATA QUALITY

The response rate was 97.4 percent. Comprehensive data-checking procedures were put in place. Before corrections were accepted and entered, field supervisors or farmers were contacted by telephone, if necessary. Once the processing was complete, the results were checked at the macro level and compared with the results from other surveys. The data on labour force were compared with the results of the input of labour force in economic accounts for agriculture (EEA).

Data Appraisal

Other forms of Data Appraisal

The report, with preliminary results, was published in November 2010. The final results were disseminated in September 2012. A database with FSS and SAPM 2010 data is available on the CBS website.