

Czechia - Agricultural Census, 2010

Agricultural, Forestry and Environmental Statistics Department (AFESD)

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Overview

Identification

ID NUMBER

CZE_2010_AC_v01_EN_M_v01_A_OCS

Overview

ABSTRACT

Agricultural census 2010 – Farm Structure Survey and Survey on Agricultural Production Methods (FSS & SAPM 2010) was conducted during autumn 2010. The survey was focused on obtaining detailed and complex information on the whole scale of the Czech agriculture, i.e. about the size and structure of agricultural holdings, about their equipment, specialisation of their production and other gainful activities. This time the survey questionnaire contained a new part called Survey on agricultural production methods (SAPM), which covered variables such as tillage methods used, animal housing capacity, establishing of and scape features, etc. A large part of the SAPM variables was surveyed for the first time; it referred especially to variables bringing information on the environmental impact of agriculture (e.g. the above-mentioned establishing of landscape features or tillage methods, soil cover in winter, methods of manure application, water consumption for irrigation, etc.). The survey also served as a data source for update of the Farm Register, which is a basis for yearly surveys in agriculture. In 2003, 2005 a 2007, Farm Structure Surveys were organized as sample surveys.

KIND OF DATA

Census/enumeration data [cen]

UNITS OF ANALYSIS

Households

Scope

NOTES

The census scope covered agricultural activities (crop and livestock production).

TOPICS

Topic	Vocabulary	URI
Agriculture & Rural Development	FAO	
Food (production, crisis)	FAO	
Livestock	FAO	

Coverage

GEOGRAPHIC COVERAGE

National coverage

UNIVERSE

The statistical unit was the agricultural holding defined as a single unit, both technically and economically, which has a single management and which undertakes agricultural activities based on the common statistical classification of economic activities (CZNACE), either as its primary or secondary activity, including holdings exclusively maintaining agricultural land in good agricultural and environmental condition.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Agricultural, Forestry and Environmental Statistics Department (AFESD)	Czech Statistical Office (CZSO)

OTHER PRODUCER(S)

Name	Affiliation	Role
Ministry of Agriculture		Technical assistance
Institute of Agricultural Economics and Information		Technical assistance
Research Institute of Agricultural Engineering		Technical assistance
Agrarian Chamber of the Czech Republic		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	ESS	Food and Agriculture Organization	Metadata producer

DDI DOCUMENT VERSION

CZE_2010_AC_v01_EN_M_v01_A_OCS_v01

DDI DOCUMENT ID

DDI_CZE_2010_AC_v01_EN_M_v01_A_OCS_FAO

Sampling

Sampling Procedure

a. Methodological modality for conducting the census

The classical approach was used in the AC 2010. Some census data were collected directly from administrative registers.

b. Frame

The frame for agricultural statistical surveys is based on the Farm Register managed by the AFESD. The Farm Register is updated regularly. Data on livestock numbers and areas under crops are updated yearly, based on statistical surveys as well as administrative sources such as: (i) the Land Parcel Information System (LPIS) and (ii) the Livestock Register.

Questionnaires

Overview

A single AC questionnaire was used in the AC 2010. The census questionnaire covered all 16 core items recommended in the WCA 2010 i.e.

- 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

Data Collection

Data Collection Dates

Start	End	Cycle
2010-09	2010-12	N/A

Data Collection Mode

Mail Questionnaire [mail]

Data Collection Notes

Two data collection methods were used in the AC: (i) the self-interviewing method, by regular mail (mail-out/mail-back), and (ii) face-to-face interviewing (PAPI). The characteristics concerning rural development support were not included in the AC and SAPM 2010 questionnaires. These data were obtained using an administrative data source, the State Agricultural Intervention Fund.

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Data Processing

Data Editing

DATA PROCESSING, ANALYSIS AND ESTIMATION

The Department of Statistical Data Processing (DSDP) of the CZCO provided centralized processing of questionnaires using OCR. The DSDP carried out checks for accuracy, coherence and completeness of the data files at the national level (including checks for duplicate identification numbers). The staff of CZSO Regional Offices converted their data files to an electronic form using Dataman Windows programme, including the data from Osev 3-01 and Zem 1-01 databases. All the data obtained using the two above-mentioned ways of data entry were processed consequently by the Statistical Data Processing Dept. Particular exported files were merged and checked using checking rules. All the mistakes found were consulted with respondents immediately and corrected afterwards. After all corrections needed, the database was sent to the Agricultural Statistics Dept. for further steps of checking. The resulting data were used for developing output tables containing FSS & SAPM results.

CENSUS DATA QUALITY

To ensure census data quality, a multi-stage control process was adopted, starting with (i) basic controls during field data collection of questionnaires by interviewers, followed by (ii) controls of questionnaires with responses at the CZSO Regional Offices, and (iii) controls during data processing (logic checks, checks for completeness, linkage to nomenclatures, duplicates).

Data Appraisal

Estimates of Sampling Error

a. COVERAGE ERRORS

(i) Under-coverage: during the survey, in total 67 newly established agricultural holdings were found. Such holdings were not involved in the sample (i.e. they were not recorded in the Farm Register) but they were surveyed as they belonged to the target population.

(ii) Over-coverage: according to the FSS & SAPM 2010 results, in total 3 474 agricultural holdings do not belong to the target population as they either do not reach the threshold levels for the survey or have temporarily stopped their agricultural activity.

(iii) Contact errors: Exceptionally, correct address of the agricultural holding was not available due to moving of the holding.

b. NON-RESPONSE ERRORS

(i) Unit non-response: 570 subjects -> 2.12 %

(ii) Item non-response: unidentifiable (not recorded) -> final item non-response is 0.

Other forms of Data Appraisal

The first publication with final census results ("Agrocensus 2010 - Farm Structure Survey and Survey on Agricultural Production Methods") was released in August 2011. The second publication was issued in October 2011, with final results in regional distribution (NUTS3, selected data for LAU1). The third publication (with thematic analyses) was published in August 2012 and consisted of two parts: (i) farm typology and (ii) comparison of the results of the AC 2010 and the AC 2000 (the co-author of this publication was the Institute of Agricultural Economics and Information). The AC results, including the census publications, are available free of charge on the CZSO website. Almost all publications are bilingual (Czech and English).