

Croatia - Agricultural Census 2020

Croatian Bureau of Statistics (Državni zavod za statistiku), Spatial Statistics Directorate (Sektor prostornih statistika), Agricultural Production and Structural Statistics Department (Služba proizvodnih i strukturnih statistika poljoprivrede)

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Identification

SURVEY ID NUMBER
HRV_2020_PP_v01_M_v01_A_ESS

TITLE
Agricultural Census 2020

TRANSLATED TITLE
Popis Poljoprivrede 2020

COUNTRY

Name	Country code
Croatia	HRV

STUDY TYPE
Agricultural Census [ag/census]

SERIES INFORMATION

The first agricultural census after Croatia's independence was conducted in 2003. Previously, as part of former Yugoslavia, censuses of agriculture were undertaken in 1931, 1951, 1960, and 1969. In 1981 and 1991, the enumeration of agricultural holdings was conducted in the framework of the Population and Housing Census. Since 2007, a Farm Structure Survey has been conducted every three years (2007, 2010, 2013 and 2016).

ABSTRACT

The agricultural census is a census of all agricultural holdings that takes place every ten years. It is part of an EU-wide programme of agricultural censuses carried out in 2020 under EU Regulation 2018/1091 on integrated farm statistics and conducted under the World Programme for the Census of Agriculture (<https://www.fao.org/world-census-agriculture/en/>). The Agricultural Census (Popis Poljoprivrede) 2020 is aimed at obtaining accurate data on Croatian agriculture and at identifying the importance of this activity for the Croatian economy. Further, it will provide the statistical knowledge necessary for planning, implementation, monitoring, evaluation and audit of agricultural policies.

KIND OF DATA
Census/enumeration data [cen]

UNIT OF ANALYSIS
Agricultural holdings

Scope

NOTES

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

The questionnaire collected information on:

1. Labor Force
2. Other Gainful Activities
3. Land Use
4. Crops
5. Irrigation
6. Livestock and Poultry
7. Animal Housing
8. Manure Management
9. Machinery and Fuel Consumption
10. Rural Development Support Measures

KEYWORDS

Keyword

Structure of Agriculture
Land use
Animal Housing
Labor in the Agricultural Sector
Machinery

Coverage

GEOGRAPHIC COVERAGE

The Agricultural Census 2020 covered the entire country.

UNIVERSE

The statistical unit was the agricultural holding, defined as a single unit, both technically and economically, that has a single management and that undertakes economic activities in agriculture in accordance with Regulation (EC) No 1893/2006 belonging to groups A.01.1, A.01.2, A.01.3, A.01.4, A.01.5 or to the "maintenance of agricultural land in good agricultural and environmental condition" of group A.01.6 within the economic territory of the Union, either as its primary or secondary activity, as it is stated in the Regulation (EU) No. 2018/1091 of the European Parliament and of the Council on integrated agricultural statistics. Regarding activities of class A.01.49, only the activities "Raising and breeding of semi-domesticated or other live animals" (except for raising of insects) and "Bee-keeping and production of honey and beeswax" were included.

The following thresholds were applied for the agricultural holdings in the Agricultural Census 2020:

- 0.4 ha of UAA
- 0.2 ha of aromatic, medicinal, and culinary plants (outdoor), flowers and ornamental plants (excluding nurseries) (outdoor), seeds and seedlings (outdoor), nurseries (outdoor)
- 0.1 ha of fruits, berries, nuts and citrus fruits (excluding grapes and strawberries), vineyards or olives(outdoor)
- any area of fresh vegetables (including melons) and strawberries (outdoor), fresh vegetables (including melons) and strawberries (under glass or high accessible cover), flowers and ornamental plants (under glass or high accessible cover), or cultivated mushrooms
- 0.5 livestock units (LSUs)
- 1 beehive

The Agricultural Census 2020 did not include holdings engaged in processing of agricultural products, forestry, and fishing. Also, it did not include areas under vegetable gardens for own needs with less than 100 m².

Producers and sponsors

PRIMARY INVESTIGATORS

Name
Croatian Bureau of Statistics (Državni zavod za statistiku), Spatial Statistics Directorate (Sektor prostornih statistika), Agricultural Production and Structural Statistics Department (Služba proizvodnih i strukturnih statistika poljoprivrede)

FUNDING AGENCY/SPONSOR

Name	Role
Government of the Republic of Croatia (Vlada Republike Hrvatske)	Funding
European Commission	Funding

Sampling

SAMPLING PROCEDURE

The Agricultural Census 2020 was composed of a core module and three thematic modules on labor force and other gainful activities, rural development, and animal housing and manure management. One-off complete enumeration, combined with

the use of administrative registers, was used. Some census data for the core module and the frame extension of this module, and all census data regarding the rural development module were collected directly from administrative registers.

For the Agricultural Census 2020, the census frame was provided by the Statistical Register of Agricultural Holdings of the Croatian Bureau of Statistics (Državni zavod za statistiku); a list frame updated annually. The frame includes family farms registered in the Farmers Register (Upisnik poljoprivrednika) in the Paying Agency for Agriculture, Fisheries and Rural Development (APPRRR, Agencija za plaćanja u poljoprivredi, ribarstvu i ruralnom razvoju) and the households that declared in the Population and Housing Census 2011 that they were engaged in agricultural activities. The frame includes holdings that have more than 0.40 ha of agricultural land and more than 0.5 livestock units. A total of 173 776 private family farms and 4400 business entities and parts thereof were selected to be part of the Agricultural Census 2020, covering 98 percent of the utilized agricultural area (UAA) and 98 percent of livestock units.

Data collection

DATES OF DATA COLLECTION

Start	End	Cycle
2020-06-01	2020-06-30	Phase I
2020-09-14	2020-10-14	Phase II

DATA COLLECTION MODE

Computer Assisted Web Interview (CAWI), Computer Assisted Personal Interview (CAPI), Computer Assisted Telephone Interview (CATI)

DATA COLLECTION NOTES

The Agricultural Census 2020 fieldwork for the private family farms sector involved 1678 enumerators, 242 supervisors, 138 enumeration centers staff, and 21 census commission staff. The Croatian Bureau of Statistics outsourced IT services for web-based software for survey, software development for CAPI, data processing, coding, and tabulation, as well as an external IT expert for the preparation of data to be sent to Eurostat. Further, staff of the Croatian Bureau of Statistics participated in the census operation for business entities: at central and regional offices (approximately 20) and IT staff (approximately 3).

In the Agricultural Census 2020, data was collected using the CAWI method for business entities and parts thereof. Data from private family farms was collected using the CAPI method. Also, CATI and post (mail-our/mail-back) methods were used to collect data for business entities as well as private family farms. The following administrative sources were used to acquire information on the core and rural development modules: rural development measures, Integrated Administration and Control System (IACS), organic farming register, and cadastre. Data collection methods were not changed due to COVID-19.

QUALITY ASSURANCE

The Croatian Bureau of Statistics applies the model of Total Quality Management, which also contains the Code of Practice of European Statistics, to establish a comprehensive system of quality assurance. This model offers the possibility of continuous improvement for each business process. It focuses not only on products and services, but also on users and their satisfaction, on the active participation of employees, on long-term business success, and on social benefits. Communication is recognized as a key element of all statistical processes that affect business success. Files for import were prepared into the Generic Statistical Business Process Model application from 2019 onwards. For the Agricultural Census 2020, the following actions were used to minimize non-sampling errors: update of register to minimize under-coverage and contact errors; pre-testing of the questionnaire, pre-filled questions, explanatory notes, or handbooks for enumerators or respondents, on-line FAQ or hot-line support for enumerators or respondents, and training of enumerators to minimize measurement errors.; follow-up interviews, reminders, and imputation to minimize unit and item non-response; and numeric-logical controls to minimize processing errors.

Questionnaires

QUESTIONNAIRES

Two versions of the questionnaire were prepared: one for private family farms and another for business entities; with the differences in the chapter related to labour force. The census questionnaire covered 19 out of 23 essential items recommended in the WCA 2020. All items related to rural development module were collected from administrative sources.

Data Processing

DATA EDITING

Interviewers, supervisors, and staff from local and central department carried out data validation through completeness and range checks, and comparisons with previous rounds of the data collection. Additional validations were done through special queries. Imputation was used to address item non-response using information from available administrative sources, and to minimize processing errors using previous data for the same unit. The softwares used for processing, analysis and tabulations were the Statistical Analysis System (SAS), Visual Basic.NET, and SQL.

DATA PROESSING NOTES

Direct data capture was ensured by the CAWI, CAPI and CATI method. Validation rules were used in the questionnaires and within special data processing tools.

Access policy

CONTACTS

Name	Affiliation	Email	URL
Agricultural Production and Structural Statistics Department (Služba proizvodnih i strukturnih statistika poljoprivrede)	Croatian Bureau of Statistics (Državni zavod za statistiku)	popispoljoprivrede@dzs.hr	Link

ACCESS CONDITIONS

The data request procedure and the data request form are available at "How to apply for microdata access" at <https://ec.europa.eu/eurostat/web/microdata/farm-statistics>.

Metadata production

DDI DOCUMENT ID

DDI_HRV_2020_PP_v01_M_v01_A_ESS_FAO

PRODUCERS

Name	Abbreviation	Affiliation	Role
Agricultural Production and Structural Statistics Department (Služba proizvodnih i strukturnih statistika poljoprivrede)		Croatian Bureau of Statistics (Državni zavod za statistiku)	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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