

Poland - National Agricultural Census 2020

Statistics Poland, Department of Agriculture

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Identification

SURVEY ID NUMBER

POL_2020_PSR_v01_M_v01_A_ESS

TITLE

National Agricultural Census 2020

TRANSLATED TITLE

Powszechny Spis Rolny 2020

COUNTRY

Name	Country code
Poland	POL

STUDY TYPE

Agricultural Census [ag/census]

SERIES INFORMATION

The first agricultural censuses in Poland were conducted in 1960, 1970, 1981, and 1990. Subsequent agricultural censuses were conducted in 1996, 2002 and 2010, the latter in conjunction with the Survey on Agricultural Production Methods. The most recent census was conducted in 2020 and was the second census conducted after Poland joined the European Union.

ABSTRACT

The National Agricultural Census 2020 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 objective of the census is to collect useful information for the purposes of monitoring, evaluating, and revising the common agricultural policy.

KIND OF DATA

Census/enumeration data [cen]

UNIT OF ANALYSIS

Agricultural holdings

Scope

NOTES

The census scope covered agricultural activities (crops and livestock).

The questionnaire collected data on:

1. Identification and address data of the farm
2. Land use
3. Sown and other area
4. Livestock
5. Fertilization
6. Crop protection
7. Farm buildings
8. Agricultural tractors, machinery and equipment
9. Economic activity
10. Income structure
11. Labour force

KEYWORDS

Keyword
Structure of agriculture

Land use
Crops
Livestock and poultry
Agricultural equipment and facilities

Coverage

GEOGRAPHIC COVERAGE

The National 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.

For the National Agricultural Census 2020, the country adopted the following thresholds:

- 1 ha of agricultural land
- 2 ha of arable land
- 0.5 ha of potatoes or fresh vegetables and strawberries
- 0.2 ha of aromatic, medicinal and culinary plants, flowers and ornamental plants, seeds and seedlings, nurseries
- 0.3 ha of fruits trees, berries, nuts trees, other permanent crops excluding nurseries, vineyards
- 0.1 ha of vineyards
- 0.01 ha of greenhouses or cultivated mushrooms
- 1.7 total livestock units

Thresholds were lowered compared to Regulation (EU) 2018/1091

Producers and sponsors

PRIMARY INVESTIGATORS

Name
Statistics Poland (GUS, Główny Urząd Statystyczny), Department of Agriculture (Departament Rolnictwa)

Sampling

SAMPLING PROCEDURE

The frame of agricultural holdings for the census was the Agricultural Research Sampling Frame 2020. The list was built based on the Agricultural Research Sampling Frame 2019, the Statistical Units Database from Statistics Poland, administrative sources such as the National Official Register of the Territorial Division of the Country and the System of Identifiers and Place Names, and non-statistical collections; and it was updated before and during the census, eliminating duplicate or extinct farms or adding farms omitted from the frame. The final list included around 1.5 million agricultural holdings.

The National Agricultural Census 2020 was a complete enumeration of all agricultural holdings who met the threshold requirements.

Data collection

DATES OF DATA COLLECTION

Start	End
2020-09-01	2020-11-30

DATA COLLECTION MODE

Computer Assisted Personal Interview [capi] Computer Assisted Web Interview [cawi] Computer Assisted Telephone Interview [cati]

DATA COLLECTION NOTES

Census operations involved: 16 provincial census commissioners, 16 deputy provincial commissioners, 991 members of the Provincial Census Bureau, 426 members of the Provincial Management Centre, 84 helpline consultants, 226 provincial supervisors, and 7 334 census enumerators.

Due to the concurrent COVID-19 pandemic, Statistics Poland had to adapt the established organization of the agricultural census and the mode of work to reduce face-to-face contacts. It was necessary to adapt the census systems to telework, and Statistics Poland changed the agricultural census legal acts for data collection, including changes such as: e-learning training of enumerators; use of CATI and CAWI besides the planned CAPI and administrative data; using personal protective equipment for data collection; publicity campaigns promoting self-enumeration as the safest way of data collection; and setting up a hotline for CATI.

Mobile devices were adapted to work with the CAPI and CATI methods. Statistics Poland used the following administrative registers for data collection: Integrated Administration and Control System (IACS), rural development measures, bovine register, ovine register, caprine register, pig register, organic farming register, cadastre, and statistical business register.

QUALITY ASSURANCE

Statistics Poland has a quality management system. For the National Agricultural Census 2020, a data collection system with very detailed validation checks was developed. Surveillance of the interviewers was optimized by using the CORstat system. Automatic validation in the questionnaire was implemented as well as quality management tools in the central database. During the census and after its completion, the Content Module System was used to control, analyze and verify the consistency of the data collected. A census helpline was implemented prior to and during the enumeration period to assist CAWI respondents regarding questionnaire inquiries.

Non-sampling errors were minimized by carrying out the following actions: removal of ineligible units from the records, leaving unchanged the weights for the other units to minimize over-coverage errors; the statistical farm register is regularly updated and additionally, during the census the option of adding a farm to the register of farms to minimize under-coverage errors was permitted; pre-testing 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; reminders, legal actions and imputation to minimize non-response errors.

Questionnaires

QUESTIONNAIRES

One questionnaire was used for all data collection methods and for all farms, regardless of the type of activity, size or legal status. The census questionnaire covered 19 out of 23 core items recommended in the WCA 2020.

Data Processing

DATA EDITING

Data captured through the CAPI, CATI and CAWI methods were gathered and processed in the Operational Microdata Base built for the National Agricultural Census 2020. Interviewers, supervisors, and staff from local and central department validated data through data format checks, completeness checks, range checks, relational checks, comparisons with previous rounds of the data collection and with other domains in agricultural statistics.

The processing of census data covered data control and correction, data imputation, supplementing of the census data with

administrative data, calculating the typology of farms, and preparation of a dataset for the Eurostat database. Imputation was carried out using nearest neighbour imputation. The Statistical Data Acquisition, Processing and Integration System was used for data processing.

Access policy

CONTACTS

Name	Affiliation	Email	URL
Department of Agriculture (Departament Rolnictwa)	Statistics Poland (GUS, Główny Urząd Statystyczny)	obslugaprasowa@stat.gov.pl	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_POL_2020_PSR_v01_M_v01_A_ESS_FAO

PRODUCERS

Name	Abbreviation	Affiliation	Role
Department of Agriculture (Departament Rolnictwa)		Statistics Poland (GUS, Główny Urząd Statystyczny)	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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