

Agricultural and Horticultural Survey 2020

Division of Agriculture (Afdeling for Landbrug)

report_generated_on: January 27, 2026

visit_data_catalog_at: <http://catalog.ihsn.org/>

Identification

SURVEY ID NUMBER

DNK_2020_AHS_v01_M_v01_A_ESS

TITLE

Agricultural and Horticultural Survey 2020

ABBREVIATION OR ACRONYM

AHS 2020

TRANSLATED TITLE

Landbrugs- og gartneritællingen

COUNTRY

Name	Country code
Denmark	DNK

STUDY TYPE

Agricultural Census [ag/census]

SERIES INFORMATION

Denmark has participated in all WCA rounds since 1930 in the years 1929, 1949, 1959, 1970, 1979, 1989, 1999/2000, 2010, and 2020.

ABSTRACT

The Agricultural and Horticultural Survey (AHS) 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 and Horticultural Survey (AHS) 2020 fulfils a general need for structural statistics on the Danish agriculture where the business is described by size, geography, type of farming and other aspects, as well as environmental and farm structure statistics. EU then uses the statistics as a tool in the planning of the common agricultural policy.

KIND OF DATA

Census/enumeration data [cen]

UNIT OF ANALYSIS

Agricultural holdings

Scope

NOTES

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

The questionnaire collected information on:

1. Forestry
2. Application for crop subsidies
3. Cultivation methods
4. Work from agricultural service companies
5. Irrigation
6. Greenhouses
7. Labor force
8. Other activities on the farm
9. Livestock and Poultry
10. Animal Housing

KEYWORDS

Keyword
Structure of Agriculture
Land use
Livestock and Poultry
Labor in the Agricultural Sector
Forestry

Coverage

GEOGRAPHIC COVERAGE

The AHS 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 "Beekeeping and production of honey and beeswax" were included. In some cases, it occurred that a few holders made one declaration for several single units.

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

- 5 ha of UAA
- EUR 7 500 of standard output
- 0.5 ha of fruits, berries, nuts and nurseries, fresh vegetables (including melons) and strawberries, potatoes, or fresh vegetables (including melons) and strawberries - outdoor
- 0.01 ha of greenhouses and mushrooms
- 2 ha of cereals, pulses, root crops, grass and green fodder in rotation, industrial crops, horticultural crops, vegetables and strawberries, ornamental plants, fruits
- 0.2 ha of nurseries, ornamental plants and leguminous plants
- 0.3 ha of pome fruits, stone fruits, berries, nuts, nurseries and other permanent crops, fruits, berries, or nuts and other permanent crops
- 10 cattle or sows
- 50 pigs
- 20 sheep or goats
- 1 000 head of poultry
- 40 fur animals
- 1.7 of livestock units

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
Division of Agriculture (Afdeling for Landbrug)	Statistics Denmark (SD, Danmarks Statistik)

Sampling

SAMPLING PROCEDURE

The AHS 2020 comprised 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 was used even for the thematic modules. Some census data for the core and animal housing and manure management modules, and all census data

regarding the rural development module were collected directly from administrative registers.

The Statistical Business Register (ESR, ErhvervsStatistiske Register), kept by Statistics Denmark (SD), was the list frame used in the AHS 2020, which is continuously updated. To ensure that the population is up to date, SD regularly merges the ESR with Integrated Administration and Control System (IACS) and the Central Livestock Register (CHR). The assumption is that if a farm applies for crop subsidies or reports livestock to the livestock register, it was expected to be active in agriculture and should accordingly be marked as such in the register of SD.

The AHS 2020 was conducted on a complete enumeration basis.

Data collection

DATES OF DATA COLLECTION

Start	End
2020-05	2020-10

DATA COLLECTION MODE

Computer Assisted Web Interview [cawi], Computer Assisted Telephone Interview [cati]

DATA COLLECTION NOTES

The AHS 2020 involved six staff members from Statistics Denmark (SD) for a period of ten months. Other staff were partially involved in census activities.

In the AHS 2020, data was collected using CAWI and CATI methods. To reduce the response burden, census data were collected directly from administrative registers. The following administrative registers were used for data collection: the Integrated Administration and Control System (IACS), the Central Livestock Register (CHR), the association of Danish fur animals' farmers, and rural development measures.

QUALITY ASSURANCE

Statistics Denmark follows the recommendations on organization and management of quality given in the Code of Practice for European Statistics (CoP) and the implementation guidelines given in the Quality Assurance Framework of the European Statistical System (QAF). A Working Group on Quality and a central quality assurance function have been established to continuously carry through control of products and processes. Some procedures were carried out to assure and assess quality in the AHS 2020 such as training courses, the use of best practices, compliance monitoring, and self-assessment. The quality policy of SD is available at <https://www.dst.dk/en/OmDS/strategi-og-kvalitet/kvalitet-for-statistikproduktion/kvalitetspolitik>. Several actions were carried out to minimize non-sampling errors in the AHS 2020: keep registers up to date to minimize coverage errors; reminders, follow-up interviews and imputation to minimize non-response errors; imputation to minimize processing errors.

questionnaires

QUESTIONNAIRES

A single questionnaire was used for data collection in the AHS 2020. The questionnaire covered 13 out of 23 essential items recommended in the WCA 2020.

data_processing

DATA EDITING

Data was validated by staff from the central department using completeness checks and comparison with previous rounds of data collection. Validation was carried out using Oracle and SAS software. Imputation was used to minimize item non-response in the animal housing and manure management module using nearest neighbor imputation. Imputation was carried out using Excel and SAS software. The most important reason for item non-response for this module was that these questions were new and could be seen as difficult.

DATA PROCESSING NOTES

Direct data capture was ensured by the CAWI and CATI methods.

Access policy

CONTACTS

Name	Affiliation	Email
Division of Agriculture (Afdeling for Landbrug)	Statistics Denmark (SD, Danmarks Statistik)	dst@dst.dk

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_DNK_2020_AHS_v01_M_v01_A_ESS_FAO

PRODUCERS

Name	Abbreviation	Affiliation	Role
Division of Agriculture (Afdeling for Landbrug)		Statistics Denmark (SD, Danmarks Statistik)	Metadata Producer
Statistics Division		Food and Agriculture Organization of the United Nations	Metadata adapted for FAM
Statistics Division	ESS	Food and Agriculture Organization of the United Nations	Metadata adapted for FAM
Development Data Group	DECDG	World Bank Group	Metadata adapted for World Bank Microdata Library

DDI DOCUMENT VERSION

Identical to a metadata (DNK_2020_AHS_v01_M_v01_A_ESS) published on FAO microdata repository (<https://microdata.fao.org/index.php/catalog>). Some of the metadata fields have been edited.

data_dictionary

Data file	Cases	variables
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study_resources

questionnaires

AHS Questionnaire

title AHS Questionnaire
filename DEN_QUE_CES_2020.pdf

reports

Main Results

title Main Results
filename Denmark_2020_main_results.pdf

technical_documents

Methodology and Instructions

title Methodology and Instructions
filename DEN_MET_2020_ENG.pdf
