

1. HISTORICAL OUTLINE

The first Agricultural Census (AC) was conducted in 1950. Since 1950, five censuses of agriculture have been held, in 1961, 1971, 1981, 1991, 1999/2000 and 2009/2010. The 2009/2010 AC, to which these metadata and data refer, was conducted simultaneously with the SAPM.

2. LEGAL BASIS AND ORGANIZATION

Legal framework

According to Law No. 3832, 9 March 2010, the Hellenic Statistical Authority (ELSTAT) is the national statistical service responsible for conducting censuses and other statistical surveys.

The AC is conducted pursuant to the Joint Ministerial Decision of the Minister of Finance, the Minister of Rural Development and Food and the Minister of Interior, Decentralization and E-government, according to a Presidential Decree and in compliance with EU census legislation.

Institutional framework and international collaboration

The Central Office of ELSTAT undertook the activities related to the AC and SAPM preparation and organization, and to the production and dissemination of the results. To implement the AC and SAPM, a working group was set up in the Central Office of ELSTAT. The data collection and processing were carried out by Regional Statistical Offices (RSOs) of the 51 districts.

A pilot study was carried out in collaboration with the Agricultural University of Athens, as well as with the National Institute of Agricultural Economics of Italy (INEA). Its objective was to provide a model for the estimation of the volume of water used for irrigation in agriculture.

Census staff

The census staff was composed of: (i) two senior supervisors; (ii) 52 supervisors and 235 assistant supervisors (in the RSO); (iii) 8 345 enumerators (“interviewers”) and 105 interpreters accompanying interviewers; (v) 550 local statistical correspondents for the common land questionnaires; and (v) one expert to contribute to survey design, processing, tabulation design and publication.

3. REFERENCE DATE AND PERIOD

Reference day: 1 November 2009, for inventory items such as livestock numbers.

Reference periods:

- agricultural year (from 1 October 2008 to 30 September 2009), for land operated for agricultural purposes, labour force, irrigation, etc., as well as for the SAPM; and
- the last three years (2007, 2008 and 2009), for rural development

4. ENUMERATION PERIOD

The enumeration period for the AC and the SAPM was from July to October 2010.

5. SCOPE OF THE CENSUS AND DEFINITION OF THE STATISTICAL UNIT

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

The **statistical unit** is the agricultural holding, defined as a single unit, both technically and economically, which has a single management and which undertakes agricultural activities listed in Annex I to the European Parliament and Council Regulation (EC) No. 1166/2008 within the economic territory of the EU, as either its primary or its secondary activity.

In addition, Communal Departments (local administrative units – LAU 2) were included in the AC to provide data regarding the area of common permanent grassland (using a specific questionnaire).

6. GEOGRAPHIC COVERAGE

The AC covered the entire country.

7. CUT-OFF THRESHOLD AND OTHER EXCLUSIONS

The following thresholds were established to define the agricultural holding:

- at least 1 *stremma* (or 0.1 ha) of UAA or at least 0.5 *stremma* (0.05 ha) of greenhouses;
- one or more cows or two or more other “large animals” of any type and age (such as cattle, horses, donkeys, mules);
- five or more “small animals” (sheep, goats, pigs) of any age and type;
- 50 or more head of poultry;
- 20 or more hives of “domestic” or “European” bees; or
- five or more ostriches.

8. METHODOLOGY

Methodological modality for conducting the census

The classical approach was used in the AC 2010.

Frame

The basic farm register (BFR) used for the AC was based on the register from the 1999 census, updated using the FSS surveys of 2003, 2005 and 2007 and the annual agricultural surveys. The BFR was also updated using two registers of the Ministry of Rural Development and Food (on New Farmers and Organic Farming).

Complete and/or sample enumeration methods

The AC 2010 was carried out based on a complete enumeration basis. The SAPM was a sample survey.

Sample design (if sampling was used)

One-stage stratified random sampling was used for the SAPM.

Data collection method

The data collection of the AC and SAPM was carried out through personal interviews with the farm holders, using paper questionnaires. Prior to the interview date, the interviewers had a first contact with the farmers to arrange the interview date. The interviews generally took place at the holder's residence, although some interviews were conducted at municipality offices. The completion time per questionnaire was approximately 30 minutes.

Questionnaire(s)

Two questionnaires were used in the AC, to collect: (i) individual census data from the agricultural holdings and (ii) data on common land from Communal Departments. One questionnaire was used for the SAPM.

The AC and SAPM questionnaires covered all 16 core items recommended in the WCA 2010.

9. USE OF TECHNOLOGY

The data entry operation was based on scanning of the questionnaire, using OCR technology. Census results were disseminated and are accessible online.

10. DATA PROCESSING AND ARCHIVING

The data entry was done almost exclusively using OCR and only in some special cases, where it was not possible to scan the questionnaires, were the data entered manually into the database. The hot deck approach was used for data imputation. The auxiliary variables, used to define the imputation classes for holdings were municipality/commune, type of farming, and economic size.

The data processing was carried out in the period from November 2010 to March 2012.

11. CENSUS DATA QUALITY

Follow-up interviews were conducted in cases where missing or incorrect data were detected. In most cases, these were done by telephone. The census data were validated against the data from previous FSSs, as well as from other agricultural surveys, and some administrative data sources.

12. DATA DISSEMINATION

The final results of the AC, at national level, were available in November–December 2012 in the form of detailed tables. A publication presenting the results of the AC was prepared in September 2013, in electronic and printed formats. The publication is available on the ELSTAT website (only in Greek).¹

13. DATA SOURCES

Eurostat. 2019a. *Archive: Agricultural census in Greece*. In: *European Commission: Eurostat* [online]. Luxembourg. [Cited 26 August 2019]. https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Archive:Agricultural_census_in_Greece

Eurostat. 2019b. *Database, Agriculture, forestry and fisheries*. In: *European Commission: Eurostat* [online]. Luxembourg. [Cited 26 August 2019]. <https://ec.europa.eu/eurostat/data/database>

Hellenic Statistical Authority. 2012. *Farm Structure Survey 2009/2010. Survey on agricultural production methods 2009/2010. National Methodological Report*. Eurostat. (also available at http://ec.europa.eu/eurostat/documents/749240/749313/EL_NMR_FSS_2010.pdf/0ffaade3-04a1-4000-a5b6-903b532c6d7f).

14. CONTACT

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¹ Available at: <http://www.statistics.gr/documents/20181/66d08d56-f5d9-485e-abba-7452c06cbad2>

GREECE – AGRICULTURAL CENSUS 2009/2010 – MAIN RESULTS¹

NUMBER OF HOLDINGS AND AREA, BY LEGAL STATUS		
	Holdings	Area (ha)
Total	723 060	5 461 290
Civil persons	722 400	3 736 000
An individual (sole holder holdings) ²	722 400	3 736 000
Juridical persons (legal entities)	660	1 725 290

LAND TENURE		
	Holdings	UAA (ha)
Total	723 060	5 177 510
Legal ownership and owner-like possession (owned land)	686 930	2 161 580
Rented from others (Land rented)	146 320	1 227 800
Other form of tenure (shared farming or other modes)	16 050	1 788 120

DISTRIBUTION OF UAA, BY LAND SIZE CLASSES		
	Holdings	UAA (ha)
Total	723 060	5 177 510
Holdings without UAA	6 190	
Holdings with UAA	716 870	5 177 510
Less than 2 ha	367 160	309 510
2–4,99 ha	183 820	575 890
5–9,99 ha	87 770	603 720
10–19,99 ha	45 580	622 390
20–29,99 ha	14 670	352 260
30–49,99 ha	10 850	406 600
50–99,99 ha	5 480	356 960
100 ha and over	1 540	1 950 180

LAND USE		
	Holdings	Area (ha)
Total	723 060	5 461 290
UAA	716 870	5 177 510
Arable land	322 060	1 767 900
Land temporarily fallow	81 440	151 010
Land under permanent crops	546 070	950 270
Permanent meadows and pastures	56 830	2 450 240
Kitchen garden	180 170	9 110
Other land	297 140	283 780
Wooded area	12 700	50 470
Unutilised agricultural land and other areas	291 050	233 310

MANAGERS BY SEX ³		
	Number	UAA operated (ha)
Total	723 060	5 177 510
Male	522 990	4 532 750
Female	200 070	644 760

MEMBERS OF HOLDER'S HOUSEHOLD, BY SEX ⁴		Number
Total engaged in agricultural activities on the holding		464 110
Male		224 880
Female		239 240

LABOUR FORCE OF THE HOLDING		Number
Total		1 212 770
Male		732 460
Female		480 310
Family labour force		1 186 510
Male		709 340
Female		477 170
Regular non-family labour force		26 260
Male		23 120
Female		3 140

MANAGERS BY SEX AND AGE ³		Number
Total		723 060
Male		522 990
Female		200 070
Less than 35 years		50 180
Male		36 670
Female		13 510
35–44 years		112 710
Male		81 290
Female		31 420
45–54 years		163 060
Male		118 600
Female		44 460
55–64 years		156 230
Male		114 330
Female		41 900
65 years and over		240 890
Male		172 100
Female		68 790

LIVESTOCK		
	Holdings	Head
Total holdings with livestock	273 160	
Cattle	16 790	651 780
Sheep	91 930	9 156 820
Goats	71 590	4 213 230
Pigs/swine	19 330	947 220
Equines (Equidae)	14 140	30 130
Poultry (1 000 head)	n.a.	n.a.
Broilers	102 290	27 750
Laying hens	197 430	8 240
others	19 740	770
Other animals	n.a.	
Rabbits (breeding females)	27 960	165 610
Other	1 370	
Insects		
Bees (hives)	10 550	944 010

METHODS OF IRRIGATION		
	Holdings	Irrigable area (ha)
Total holdings with irrigable area	429 820	1 297 260
Holdings with irrigated area⁵	379 920	1 025 210
Surface	149 890	n.a.
Sprinkler	141 050	n.a.
Localized irrigation (drop irrigation)	189 340	n.a.

¹ Data source – Eurostat database, available at: <https://ec.europa.eu/eurostat/web/agriculture/data/database>

² The categories in brackets are presented as indicated in the Eurostat database (if different from the WCA 2010).

³ According to Eurostat, managers include holders that manage the holding themselves, and managers that are not holders, including of legal units

⁴ Data are presented without holders.

⁵ Excluding kitchen garden and area under glass.