

## 1. HISTORICAL OUTLINE

The 1998 Census of Agricultural Holdings (CAH) was the first agricultural census conducted in Albania. The second agricultural census, to which the metadata review and data presented here refer, was carried out in 2012.

## 2. LEGAL BASIS AND ORGANIZATION

### **Legal framework**

The legal basis for the CAH includes:

- Law No. 9180 of 5 February 2004 on Official Statistics;
- Law No. 10201 of 17 December 2009 on the CAH;
- The decision of the Council of Ministers No. 181, of 17 March 2010, on the establishment and composition of the Central Commission for the CAH; and
- The decision of the Council of Ministers No. 304 and 305, of 9 May 2012, on the composition and tasks of CAH commissions in districts and municipalities/communes.

### **Institutional framework and international collaboration**

According to the legislation mentioned above, the CAH was organized and implemented by the Albanian Institute of Statistics (INSTAT), under the supervision of the Central Census Commission (CCC), and with the support of the census commissions at prefecture and municipality/commune level. For preparing and implementing the CAH, INSTAT worked in cooperation with other government bodies, in particular, with the Ministry of Agriculture, Food and Consumer Protection (MAFCP) and the Ministry of Local Authorities.

Technical support for the CAH 2012 was provided by the European Union and the Swedish Statistical Office.

### **Census staff**

Overall, 4 425 census staff were involved in the CAH 2012, including 3 527 enumerators, 697 controllers, 69 supervisors, 12 coordinators and 120 operators for census data capture (scanning of CAH questionnaires).

## 3. REFERENCE DATE AND PERIOD

**Reference day:** 1 October 2012, for inventory items, such as livestock numbers and farm buildings.

### **Reference periods:**

- From 1 October 2011 to 30 September 2012, for land use, agricultural production methods, machinery used, other gainful activities, labour force, sales of production, credit and insurance, etc.
- The 12 months preceding the interview, for animal grazing, training of the farm manager, main location of livestock.

## 4. ENUMERATION PERIOD

Data collection started on 1 October 2012 and ended on 31 October 2012.

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

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

The **statistical unit** is the agricultural holding, defined as a single unit, both technically and economically, which has a single management, is composed by land even in fragmented parcels, and undertakes agricultural and livestock activities within the economic territory of Albania.<sup>1</sup>

## 6. GEOGRAPHIC COVERAGE

The CAH 2012 covered the entire country.

## 7. CUT-OFF THRESHOLD AND OTHER EXCLUSIONS:

The following units were not covered by the CAH:

- units that have used farming area only as kitchen gardens, smaller than 200 m<sup>2</sup>;
- units made up only of: forests (wooded areas); ornamental parks or gardens; land not used for agricultural purposes; or completely abandoned land;
- poultry hatcheries, if operated without further breeding.

## 8. METHODOLOGY

### **Methodological modality for conducting the census**

The classical approach was used in the CAH 2012.

<sup>1</sup> An agricultural holding is defined by the following criteria: (i) a single unit both technically and economically: use of the same means of production and breeding livestock; (ii) single management: the management system of the farm is decided unitarily by the same person or group of persons: this implies that a person or a group of persons is responsible for taking decisions on the holding's farming activities; (iii) a unit engaged in "own account" agricultural activities, as either its primary or secondary activity,

**Frame**

The CAH frame was established based on the following sources: (i) data from the Census of Population and Housing (CPH) regarding the household units involved in agricultural activities; (ii) data provided by the MAFCP (resulted from the Farm Identification Campaign 2011, etc.); (iii) the INSTAT Business Register; (iv) the list of public and religious bodies, etc.

**Complete and/or sample enumeration methods**

The CAH 2012 was conducted using complete enumeration.

**Sample design (if sampling was used)**

Not applicable.

**Data collection method(s)**

The traditional method, face-to-face interviewing (the Paper and Pen Interviewing, or PAPI, method) was applied in the CAH.

**Questionnaire(s)**

One detailed census questionnaire was used for the CAH 2012 data collection. The census questionnaire covered all 16 core items recommended in the WCA 2010.

**9. USE OF TECHNOLOGY**

Optical scanning was used for census data capture. The census results were disseminated online.

**10. DATA PROCESSING AND ARCHIVING**

For data entry, INSTAT used scanning technology with READSOFT software. The output of the scanning process was a text file that was imported to SAS for further processing. The programmes implemented a selective editing algorithm to identify significant errors in the data on area of land and the variables on livestock, separately by census district.

**11. CENSUS DATA QUALITY**

A Post-enumeration Survey (PES) was conducted by INSTAT in December 2012 (one month after the census enumeration) to evaluate the census undercount. The PES was based on an aerial sample, in which the selected units were the enumeration areas (EAs). According to the PES, the undercoverage rate is 7.6 percent.

In 2016, a calibration survey was carried out and calibration was implemented.

**12. DATA DISSEMINATION**

The final results of the CAH 2012 were published in 2017 and are available online. Thirty-three tables were prepared at the national level. At the prefecture and district level, 26 tables were chosen. Approximately 19 tables were prepared for each commune, which are modified versions of the tables at the national level.

**13. DATA SOURCES**

**FAO.** 2017. Regional Roundtable on the World Programme for the Census of Agriculture 2020 (WCA 2020), 3–7 April 2017, Budapest, Hungary. In: *World Programme for the Census of Agriculture* [online]. Rome, Italy. [Cited 9 September 2019]. <http://www.fao.org/world-census-agriculture/events/wca2020budapest/en/>

**INSTAT.** 2017. Census of Agricultural Holdings (CAH) 2012. In: *INSTAT* [online]. Tirana, Albania. [Cited 28 July 2019]. <http://www.instat.gov.al/en/themes/censuses/agriculture-census/#tab2>

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# ALBANIA – AGRICULTURAL CENSUS 2012 – MAIN RESULTS

NUMBER OF HOLDINGS AND UTILISED AGRICULTURAL AREA (UAA), BY LEGAL STATUS		
	Holdings	UAA (ha)
<b>Total</b>	<b>321 492</b>	<b>333 592</b>
Civil persons	321 201	327 481
An individual	315 637	317 897
Two or more individuals	5 564	9 584
Juridical persons	291	6 111

LAND TENURE		
	Holdings	Area (ha)
<b>Total</b>	<b>321 492</b>	<b>371 609</b>
Legal ownership and owner-like possession	320 021	304 638
Rented from others	18 171	59 539
Other form of tenure	15 457	7 432

DISTRIBUTION OF HOLDINGS BY LAND SIZE CLASSES		
	Holdings	Area (ha)
<b>Total</b>	<b>321 492</b>	<b>371 609</b>
Less than 1 ha	215 034	99 758
1–2 ha	76 550	109 987
2–3 ha	20 073	48 544
3–5 ha	6 299	23 978
5–10 ha	1 665	11 573
10 ha and over	1 871	77 769

LAND USE		
	Holdings	Area (ha)
<b>Total</b>	<b>321 492</b>	<b>371 609</b>
Utilised agricultural area	320 042	333 592
Arable land	283 618	215 815
Land under fallow	21 205	12 293
Kitchen garden	265 788	4 791
Land under permanent crops	127 103	41 856
Land under meadows	37 320	17 855
Land under pastures	35 731	53 276
Unutilised agricultural area	29 291	13 088
Wooded area	10 809	17 246
Other	200 407	7 683

MANAGERS BY SEX AND AGE		Number
<b>Total</b>		<b>321 492</b>
Male		292 990
Female		28 502
Under 24 years		2 382
Male		2 162
Female		220
25–34 years		18 152
Male		16 538
Female		1 614
35–44 years		56 670
Male		51 739
Female		4 931
45–54 years		95 743
Male		88 734
Female		7 009
55–64 years		77 277
Male		71 125
Female		6 152
65 years and over		71 268
Male		62 692
Female		8 576

MEMBERS OF HOLDER'S HOUSEHOLD, BY SEX		Number
<b>Total engaged in agricultural activities on the holding</b>		<b>684 913</b>
Male		374 955
Female		309 958

EMPLOYEES WORKING ON THE HOLDING		Number
<b>Total</b>		<b>98 264</b>
Male		76 245
Female		22 019
Civil persons		94 527
Male		74 497
Female		20 031
Juridical persons		3 737
Male		1 748
Female		1 988

LIVESTOCK		
	Holdings	Heads
<b>Total holdings with livestock</b>	<b>245 925</b>	
Cattle	159 468	328 097
Sheep	39 532	1 179 540
Goats	21 738	496 102
Pigs/swine	26 092	73 328
Equines	71 157	77 245
Poultry (1 000 head)	210 023	10 157
Broilers	93 714	4 139
Laying hens and cocks	192 771	5 103
Turkeys	38 876	763
Geese and ducks	19 339	148
Other	404	4
Other animals		
Rabbits	3 871	36 118
Insects		
Bees (hives)	11 769	123 428

METHODS OF IRRIGATION		Holdings
<b>Holdings with irrigated land</b>		<b>158 444</b>
Manual irrigation		16 558
Flooding, furrow		99 408
Sprinkler		27 467
Localized irrigation		9 473
Other		15 923

MACHINERY AND EQUIPMENT USED ON THE HOLDING		
	Holdings	Units
<b>Total tractors of all kinds</b>	<b>16 474</b>	<b>21 052</b>
Four-wheel tractors with <20hp	4 506	5 094
Four-wheel tractors with >20hp	11 968	15 958
Combine harvester	1 732	2 209
Other (machine-powered)	n.a.	
Sowing machine	3 500	4 326
Mowing machine	2 928	3 524
Transport vehicle	6 955	8 298
Motocultivator	2 154	2 277
Fertilization and spray machinery	1 481	1 644