

## 1. HISTORICAL OUTLINE

Agricultural censuses were conducted in the Lebanese Republic in 1961/1962, 1970 and 1998. A livestock census was conducted in 1980. The last agricultural census was carried out in 2010; the metadata and data relating to this census are presented here.

## 2. LEGAL BASIS AND ORGANIZATION

### **Legal framework**

The legal framework that governs the National Statistical System of Lebanon includes Statistical Law No. 1793, issued on 22 February 1979, as well as Law No. 2728 issued on 28 February 1980, pertaining to the organization of the Central Administration for Statistics (CAS).

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

The CAS is the government body responsible for the production and publication of official statistics for the country. The Ministry of Agriculture<sup>1</sup> was the national institution responsible for the implementation of the General Agricultural Census (GAC) 2010 through a GAC project.<sup>2</sup> The regional services of the Ministry of Agriculture were in charge of the development and monitoring of the field operation.

The GAC project was financed by the Italian Government. FAO provided technical support for the implementation of census activities within the project.

### **Census staff**

The census personnel included: (i) at regional level: 7 regional (*mohafaza*) supervisors, 25 district (*caza*) supervisors and 100 field controllers; and (ii) at local level, 1 500 enumerators. Each enumerator was required to interview on average 120 holdings.

## 3. REFERENCE DATE AND PERIOD

**Reference day:** the day of enumeration for inventory items, such as livestock numbers.

**Reference period:** from 1 October 2009 to 30 September 2010, for other items, such as the labour force, the area of crops, the use of irrigation, fertilizers and pesticides.

## 4. ENUMERATION PERIOD

Data collection under the GAC 2010 was carried out between August 2010 and August 2011.<sup>3</sup> A specific enumeration period (within the overall 13-month enumeration period) was established for each region (*mohafaza*).

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

The **census scope** covered agricultural activities (crop and livestock production). The units engaged in forestry and fishing activities were not covered, unless they were associated with an agricultural holding.

The **statistical unit** for data collection was the agricultural holding, defined as an economic unit of agricultural production under single management operating land and comprising livestock, without regard to legal form.

## 6. GEOGRAPHIC COVERAGE

The GAC 2010 included all governorates and districts except the urban capital Beirut, where no agricultural holdings exist.

## 7. CUT-OFF THRESHOLD AND OTHER EXCLUSIONS

The following minimum size limits were applied for the agricultural holdings in the GAC 2010: (i) 1 000 m<sup>2</sup> (1 dunum) of land in the field; (ii) 400 m<sup>2</sup> under protective cover (greenhouses), or (iii) one cattle, seven sheep, seven goats, or eight beehives.

## 8. METHODOLOGY

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

Although a modular approach was planned for conducting the 2010 GAC, only one census module was implemented by the country, because of budget and time constraints. The module questionnaire comprised several sections, including crops, livestock and machinery.

### **Frame**

The census frame was prepared on the basis of the enumeration areas (1 451 in total), the lists of holdings from the 1998 GAC, and topographic maps. The lists of holdings were updated by the enumerators prior to the data collection phase.

<sup>1</sup> The Directorate of Studies and Coordination was the unit responsible for the coordination of the GAC project within the Ministry of Agriculture

<sup>2</sup> The project entitled Observatoire Libanais pour le Développement Agricole.

<sup>3</sup> Initially, a two-month enumeration period was established; however, this was extended because of technical difficulties encountered at field level.

**Complete and/or sample enumeration methods**

The complete enumeration method was used in the GAC (core module).

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

Not applicable.

**Data collection method(s)**

Data collection was done by means of direct interviews, using the PAPI method.

**Questionnaire(s)**

A single census questionnaire was used for census data collection. The 2010 GAC covered 15 out of the 16 items recommended in the WCA 2010 for the core module.<sup>4</sup> Information on other economic production activities at the holding level holding was not collected.

**9. USE OF TECHNOLOGY**

Census results were disseminated and are accessible online.

**10. DATA PROCESSING AND ARCHIVING**

CSPRO was used for the entry, processing and tabulation of census data.

**11. CENSUS DATA QUALITY**

A three-level supervision of fieldwork was established to ensure the quality of field operations: regional (*mohafaza*) supervisors, district (*caza*) supervisors and field controllers.

A pilot survey was conducted in each region for testing the census questionnaire.

**12. DATA DISSEMINATION**

The 2010 GAC results were disseminated in February 2012 through the website of the Ministry of Agriculture. The census results were presented at national and regional (*mohafaza*) level.

**13. DATA SOURCES**

**Ministry of Agriculture.** 2012. *Résultats Globaux du Module de Base du Recensement de l'Agriculture 2010*. Beirut, Lebanon. (also available at <http://www.agriculture.gov.lb/Statistics-and-Studies/Comprehensive-Agricultural-Statistics/statistics-2010>.)

**14. CONTACT**

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<sup>4</sup> The missing core item is: "Other economic production activities of the holding's enterprise".

# LEBANON – AGRICULTURAL CENSUS 2010 – MAIN RESULTS

HOLDINGS AND UTILIZED AGRICULTURAL AREA (UAA), BY LEGAL STATUS		
	Holdings	UAA (ha)
<b>Total</b>	<b>169 512</b>	<b>230 994</b>
Civil persons	157 055	196 929
Juridical persons	12 006	28 865
Others <sup>1</sup>	451	5 200

UAA, BY LAND TENURE		
	Holdings	UAA (ha)
<b>Total</b>	<b>169 512</b>	<b>230 994</b>
Owned	142 303	163 481
Rented	12 954	48 596
Other form of tenure	14 255	18 917

DISTRIBUTION OF HOLDINGS BY LAND SIZE CLASSES OF UAA		
	Holdings	UAA (ha)
<b>Total holdings with UAA</b>	<b>169 512</b>	<b>230 994</b>
Holdings without UAA	4 142	
Holdings with UAA	165 370	230 994
Less than 0,1 ha	929	61
0,1–0,2 ha	26 490	3 358
0,2–0,5 ha	51 622	15 389
0,5–1 ha	35 682	23 309
1–2 ha	26 269	34 149
2–4 ha	13 977	36 455
4–6 ha	4 412	20 598
6–8 ha	1 998	13 410
8–10 ha	902	7 826
10–15 ha	1 409	16 350
15–20 ha	557	9 284
20–50 ha	835	24 020
50 ha and over	288	26 786

LAND USE		
	Holdings	Area (ha)
<b>Total</b>	<b>169 512</b>	<b>321 580</b>
UAA	169 512	230 994
Land temporarily fallow	n.a.	12 900
Land under permanent crops	n.a.	125 928
Permanent fallow land (land not cultivated for more than five years)	n.a.	47 027
Uncultivated farm area	n.a.	21 665
Forest and other wooded land	n.a.	18 823
Other land	n.a.	3 071

HOLDERS, BY SEX	
	Number
<b>Total</b>	<b>169 022</b>
Male	154 457
Female	14 565

MEMBERS OF HOLDER'S HOUSEHOLD, BY SEX	
	Number
<b>Total</b>	<b>817 513</b>
Engaged in agricultural activities on the holding	404 594
Permanent workers	165 594
Casual workers	239 000

EMPLOYEES ON THE HOLDING	
	Number
<b>Total employees</b>	<b>95 715</b>
Permanent workers	51 049
Casual workers	44 666

HOLDERS, BY SEX AND AGE	
	Number
<b>Total</b>	<b>169 022</b>
Male	154 457
Female	14 565
Under 25 years	3 115
Male	2 946
Female	169
25–34 years	15 592
Male	14 769
Female	823
35–44 years	35 071
Male	32 644
Female	2 427
45–54 years	43 460
Male	39 840
Female	3 620
55–64 years	32 760
Male	29 427
Female	3 333
65 years and over	39 024
Male	34 831
Female	4 193

HOLDINGS, BY MAIN PURPOSE OF PRODUCTION		
	Holdings	Area (ha)
<b>Total producing mainly for</b>	<b>169 512</b>	<b>230 994</b>
Home consumption	43 278	15 987
Sale	126 234	215 007

LIVESTOCK		
	Holdings	Head
<b>Holdings with livestock</b>	<b>15 773</b>	
Cattle	10 410	68 568
Sheep	4 094	265 345
Goats	5 847	403 861
Pigs/swine	51	7 735
Poultry (1 000 head)	15 252	n.a.
Chickens	12 416	412
Broilers	689	45 000
Laying hens	1 417	3 800
Ducks	417	31
Turkeys	185	26
Other	128	
Quail	102	54 792
Ostriches	26	1 081
Insects		
Bees (hives)	6 183	169 308

METHODS OF IRRIGATION		
	Holdings	Area irrigated (ha)
<b>Holdings with irrigated land</b>	<b>91 818</b>	<b>112 956</b>
Surface	71 241	55 930
Sprinkler	5 844	28 246
Localized irrigation	14 733	28 778

SOURCES OF IRRIGATION WATER		
	Holdings	Area irrigated (ha)
<b>Holdings with irrigated land</b>	<b>91 818</b>	<b>112 956</b>
Surface water	47 440	44 053
Groundwater	21 857	56 478
Other	22 521	12 425

<sup>1</sup> "Other" holdings include cooperative, public and religious institutions.