

1. HISTORICAL OUTLINE

The first agricultural census (AC) in Chile was conducted in 1930. Since 1936, ACs have been carried out regularly, on a ten-year basis,¹ normally following the Population and Housing Censuses (PHCs). The present metadata review and data refer to the seventh AC, the 2006/2007 National Census of Agriculture and Forestry (CAF).

2. LEGAL BASIS AND ORGANIZATION

Legal framework

The Organic Law of the National Institute of Statistics (INE), No. 17374 of 15 October 1970 and the Decree of the Ministry of Economy No. 1062 of 30 October 1970, constitute the basis of the current institutional framework for conducting censuses in Chile. The Organic Law of the INE establishes, at Article 1, that the INE, as an independent, decentralized body, is the legal entity responsible for official statistics and censuses in the Republic of Chile, which is related to the Government through the Ministry of Economy, Development and Reconstruction (MEDR).

Institutional framework and international collaboration

The INE is the technical body responsible for the preparation and organization of ACs, data processing and dissemination of census results. On the basis of Supreme Decree No. 373, approved on 14 December 2006, the MEDR indicates the year 2007 for conducting the CAF 2006/2007 and ordered, according to Article 3, the creation of the National Commission of the VII National Agricultural and Forestry Census, which was responsible for coordinating the census activities. The elaboration of the methodological instruments was carried out in consultation with the main users of agricultural and forestry statistics.

Census staff

The staff involved in census activities comprised 1 583 persons, including 1 156 enumerators, 190 supervisors and 237 other personnel.

3. REFERENCE DATE AND PERIOD

Reference day: 31 March 2007, for inventory items, such as number of livestock, non-residential buildings (for keeping livestock), etc.

Reference periods:

- agricultural year 2006/2007 (from 1 May 2006 to 30 April 2007), for land use, cultivated area, irrigated area, use of agricultural equipment, employment on the holding, organic agriculture, etc.
- years 2005/2006 and 2006/2007, for development instruments, loan instruments, etc.

4. ENUMERATION PERIOD

The fieldwork was carried out in 59 working days: from 12 March to 31 May 2007.

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

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

The **statistical unit** was the agricultural and forestry holding (AFH), defined as the unit comprising all land with crop, livestock or forestry managed by a holder, regardless of form of tenure or size. The holding may comprise part of a property (cadastral plot) or one or several adjacent or separate properties in the same commune, whenever they constitute a technical unit. Holdings were classified as being operated by: (i) a natural person; or (ii) a juridical person. The census results are provided for the overall AFHs, as well as separately for agricultural holdings.

6. GEOGRAPHIC COVERAGE

The CAF 2006/2007 covered the entire country.

7. CUT-OFF THRESHOLD AND OTHER EXCLUSIONS

The following thresholds were established for a holding (at least one threshold should be met):

- 0.1 ha of temporary or permanent crops;
- 0.5 ha of meadows, provided that these are used for animal husbandry;
- 0.5 ha of forests;
- two large animals of two years of age and over, or four large animals, under two years of age;
- ten small animals;
- ten ostriches or emus;
- 50 geese, turkeys or rabbits;
- 100 other poultry; or
- ten beehives.

8. METHODOLOGY

Methodological modality for conducting the census

The classical approach was used in the CAF 2006/2007.

¹ 1936, 1955, 1965, 1976, 1997 and 2006/2007.

Frame

The CAF 2006/2007 used, as the starting point, the database of cadastral properties built on the basis of the information obtained from the Cadastre Register, updated in June 2006, which was integrated with the data from the sixth National Agricultural Census (1997). The resulting list was distributed to each of the 15 regions in the country to locate the properties and verify coverage.

Complete and/or sample enumeration methods

The CAF 2006/2007 was a complete enumeration operation of all agricultural holdings in the country.

Sample design (if sampling was used)

No sampling was applied.

Data collection method(s)

Data collection was done by means of face-to-face interviews, using the PAPI method.

Questionnaire(s)

For data collection, one questionnaire was used (which contained 451 questions grouped into 17 sections). For the extreme zones of the country, the census questionnaire was supplemented with two annexes, which included specific questions relevant to those regions. The census covered all 16 items recommended by FAO to be collected in the WCA 2010.

9. USE OF TECHNOLOGY

The digital cartography generated in the INE was used for census preparation. Census results were disseminated and are accessible online.

10. DATA PROCESSING AND ARCHIVING

The IT Department of the INE developed and implemented a computing and communication processing platform to provide support to all census phases, from data collection to data entry. This allowed for remote entry of the information collected during the census fieldwork, to perform the corresponding validations online and to execute the final storage in devices, all the while delivering the necessary security levels given the nature of the information processed. Data entry, validation and processing were carried out simultaneously in the 15 regions, which were divided into 61 census areas, each equipped with computers connected to the Internet by means of broadband connections.

11. CENSUS DATA QUALITY

During the field data collection, two validation manuals were used (“Correction Guidelines”): (i) the first manual, for enumerators, included instructions on dealing with inconsistencies in filling in the questionnaire; (ii) the second manual, for supervisors, provided instructions on verifying the consistency of the information, etc. The validation manuals were applied both to the main census form and to the annexes formulated for “extreme” zones.

12. DATA DISSEMINATION

The preliminary results were delivered in 17 tabulations and made public in October 2007. They included information from all sections of the questionnaire. All of the information in the tabulations with preliminary results was disaggregated geographically up to the commune level. In April 2008, microdata were released at the regional level, ensuring due protection of statistical secrecy.² The final tabulations, at national and regional level, were made available on the institutional website in April 2008. Printed reports and CD-ROMs are also available.

13. DATA SOURCES

FAO. 2016. Regional Roundtable on the World Programme for the Census of Agriculture 2020 (WCA 2020). 12–16 December 2016, Montevideo, Uruguay. In: *World Programme for the Census of Agriculture* [online]. Rome, Italy. [Cited 10 September 2019]. <http://www.fao.org/world-census-agriculture/events/wca2020montevideo/en/>

Instituto Nacional de Estadística (INE). 2006. *VII censo agropecuario y forestal: manual del empadronador*. Santiago de Chile, Chile. (also available at http://www.censoagropecuario.cl/aspectosmetodologicos/files/manual/manual_empadronador.pdf).

Instituto Nacional de Estadística (INE). 2008. Census reports and methodological notes. In: INE [online]. Santiago de Chile, Chile. [Cited on 2 August 2019]. <https://www.ine.cl/estadisticas/economia/agricultura-agroindustria-y-pesca/censos-agropecuarios>

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² Microdata are available on the website, upon request.

CHILE – CENSUS OF AGRICULTURE AND FORESTRY 2006/2007 – MAIN RESULTS

NUMBER OF HOLDINGS AND AREA, BY LEGAL STATUS		
	Holdings	Area (ha)
Agricultural and forestry holdings	301 269	36 439 533
Agricultural holdings	280 484	29 781 691
Civil persons	268 968	13 000 966
Juridical persons	11 516	16 780 725
Forestry holdings	20 785	6 657 842

DISTRIBUTION OF HOLDINGS BY LAND SIZE CLASSES		
	Holdings	Area (ha)
Total agricultural holdings	280 484	29 781 691
Holdings without land	1 824	
Holdings with land	278 660	29 781 691
Less than 1 ha	34 699	17 924
1–5 ha	84 975	209 799
5–10 ha	46 139	325 200
10–20 ha	42 611	595 899
20–50 ha	36 965	1 145 153
50–100 ha	14 911	1 028 222
100–200 ha	8 149	1 125 248
200–500 ha	5 677	1 736 509
500–1 000 ha	2 056	1 414 035
1 000–2 000 ha	1 048	1 440 758
2 000 ha and over	1 430	20 742 944

LAND USE		
	Holdings	Area (ha)
Total agricultural holdings	280 484	29 781 691
Agricultural land	n.a.	13 895 580
Cropland	n.a.	1 296 394
Fallow land	n.a.	353 036
Land under permanent pastures and meadows	n.a.	12 246 149
Other land	n.a.	15 886 111
Forest and wooded land	n.a.	6 404 907
Other land	n.a.	9 481 204

EMPLOYEES WORKING ON THE HOLDING, BY SEX ¹		Number
Total employees		1 326 608
Male		935 963
Female		390 645
Permanent employees		188 156
Male		168 262
Female		19 894
Temporary employees		1 138 452
Male		767 701
Female		370 751

LIVESTOCK		
	Holdings	Head
Holdings with livestock	n.a.	
Cattle	125 408	3 718 532
Sheep	76 197	3 888 485
Goats	17 061	705 527
Pigs/swine	74 875	2 928 606
Horses	88 345	304 252
Mules and hinnies	2 730	6 667
Asses	4 609	15 016
Llamas	1 243	48 989
Alpacas	755	26 147
Other animals	n.a.	
Rabbits	2 777	43 630
Boar	245	4 005
Deer	77	5 827

METHODS OF IRRIGATION		
	Holdings	Area irrigated (ha)
Holdings with irrigated land	119 286	1 093 813
Gravity	103 085	789 840
Traditional sprinkling	5 882	30 072
Spool or pivot	405	26 427
Drip and tape	15 834	209 349
Micro-spray and microjet	2 877	38 125

TEMPORARY CROPS HARVESTED		
	Holdings	Area (ha)
Total	n.a.	n.a.
Cereals	70 591	479 404
Vegetables and melons	94 822	95 551
Leguminous and tuber crops	66 196	70 899
Other temporary crops	n.a.	n.a.
Industrial crops	7 595	69 972
Flowers	2 964	2 124
Forage crops	54 018	510 371

PERMANENT CROPS		
	Holdings	Area (ha)
Total	n.a.	n.a.
Orchards	97 522	324 294
Vineyards (grapes)	17 529	128 946
Nurseries	956	2 298

¹ Table refers to agricultural holdings.