

# Chile - National Census of Agriculture and Forestry 2021

**National Institute of Statistics (INE, Instituto Nacional de Estadísticas) of Chile**

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## Identification

### SURVEY ID NUMBER

CHL\_2021\_CNAF\_v01\_M\_v01\_A\_ESS

### TITLE

National Census of Agriculture and Forestry 2021

### TRANSLATED TITLE

Censo Nacional Agropecuario y Forestal 2021

### COUNTRY

Name	Country code
Chile	CHL

### STUDY TYPE

Agricultural Census [ag/census]

### SERIES INFORMATION

The first agricultural census in Chile was conducted in 1929/1930. Since 1936, agricultural censuses have been carried out regularly on a ten-year basis, normally following the Population and Housing Censuses. The National Census of Agriculture and Forestry (CNAF, Censo Nacional Agropecuario y Forestal) 2021 is the eighth conducted in the country.

### ABSTRACT

The aim of the National Census of Agriculture and Forestry 2021 is to monitor the changes in the structure of agriculture, to provide accurate and reliable data for the public and private sectors, and to plan and implement public policies.

### KIND OF DATA

Census/enumeration data [cen]

### UNIT OF ANALYSIS

Agricultural holdings

## Scope

### NOTES

The census scope covered agricultural activities (crops and livestock) and forestry.

The questionnaire collected information on:

1. Management of the agricultural holding
2. Producer information
3. Agricultural services in the agricultural holding
4. Identification of the respondent and holding's administrator
5. Identification of the holding or establishment
6. Identification of the properties and their registration numbers
7. Land use
8. Planted/sown area by species or variety
9. Livestock and poultry
10. Management and agricultural practices
11. Irrigation
12. Assets (buildings and infrastructure)
13. Labor
14. Producer's household
15. Summer grazing

### KEYWORDS

Keyword
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Structure of agriculture
Land use
Crops
Livestock and poultry
Labor force
Forestry

## Coverage

### GEOGRAPHIC COVERAGE

The National Census of Agriculture and Forestry 2021 covered the entire country.

### UNIVERSE

The statistical unit was the agricultural productive unit (UPA 3), defined as an economic unit of agricultural, livestock, or forestry production, under the sole management of a producer, regardless of tenure or size, which includes all the livestock kept in it and all the land dedicated wholly or partly for agricultural or forestry purposes. An UPA may comprise an agricultural property, a property or several adjoining or separate properties, which may be in the same or different region or commune. UPAs were classified as being operated by a natural person or a juridical person. It should be noted that the definition of the statistical unit was different from that used in the National Census of Agriculture and Forestry 2007, which explains the difference in the number of holdings interviewed in the two censuses.

Agricultural lands for productive or non-productive purposes, other than those in the agricultural and forestry sectors, were excluded. Other properties classified as "Agricultural Real Estate" but with a different focus than agricultural and forestry production, such as recreation areas, zoos, gardens, or others, were also excluded. For holdings engaged in agricultural and forestry activities, the exclusion criteria used were area and sales.

For those holdings with less than two hectares of area and without sales (self-consumption units), an abbreviated questionnaire was collected.

National parks and forest reserves were covered by the National Census of Agriculture and Forestry 2021 but not by the National Census of Agriculture and Forestry 2007, which explains the difference in the total UPA area between the two censuses.

## Producers and sponsors

### PRIMARY INVESTIGATORS

Name
National Institute of Statistics (INE, Instituto Nacional de Estadísticas) of Chile

## Sampling

### SAMPLING PROCEDURE

For the National Census of Agriculture and Forestry 2021, the frame was the list of enumeration areas with the approximate number of UPAs in each geographic area. To get this latest information, a reference list was prepared before the census from different sources:

1. properties considered agricultural, forestry and/or agribusiness real estate by the Internal Revenue Service for the second half of 2018
2. producers in the agricultural and forestry area of the National Census of Agriculture and Forestry 2006/2007
3. agricultural companies identified in the Master Business Frame version 2018 maintained by the National Institute of Statistics (INE, Instituto Nacional de Estadísticas) of Chile
4. list of Agricultural and Indigenous Communities
5. list of public bodies and non-profit institutions identified by INE

6. list of producers in the forestry-agricultural area not linked to the territory or directories, such as UPAs without land
7. other complementary sources

The National Census of Agriculture and Forestry 2021 was a complete enumeration of the country.

## Data collection

### DATES OF DATA COLLECTION

Start	End
2021-03-10	2021-06-30

### DATA COLLECTION MODE

Computer Assisted Web Interview [cawi] Computer Assisted Personal Interview [capi]

### DATA COLLECTION NOTES

Data collection was performed by CAWI and CAPI. The CAWI method was initially intended for those UPAs that could lead to complex administration systems due to their large size, because collecting their survey directly on the ground could generate technical difficulties. Although, due to the COVID-19 pandemic, it was decided to open this method to all those producers who voluntarily registered on the Census website, regardless of the size of their UPAs, their productive structure and their administrative complexity.

For those UPA that did not complete the questionnaire using the CAWI method, data collection was carried out by means of face-to-face interviews, using the CAPI method through tablets. The short questionnaire was collected only using the CAPI method.

### \*\*QUALITY ASSURANCE\*\*

Quality assurance procedures implemented for the National Census of Agriculture and Forestry 2021 included: eight pilot censuses sequentially between November 2018 and February 2021; a comprehensive system pilot census, which corresponded to a global test that replicated the survey conditions in the Census execution period; and two additional tests of the usability of the support platforms, by the computer technology area, which allowed testing of the data transmission technology system that would support the field operation.

The questionnaires were prepared from the version of the census 2006/2007 and analyzed and validated in working groups formed by various ministries and public services, private entities, unions, and other organizations related to issues in the forestry and agricultural area. A supervision system was used, which included direct supervision, indirect supervision through re-interviews, and general supervision, which comprised the revision of questionnaires with inconsistencies, where, among other things, the collection of information from the entire production unit was analyzed and the recovery of questionnaires with non-responses was possible. Web interviews were supervised by web analysts and coordinators to ensure the collection of data from all the UPA that used the CAWI method, and the compliance with the quality standards established by the project.

To monitor the territorial progress in the census coverage, the area surveyed was compared with the geographic reference area defined as the area in the census cartography for the CAPI method and the area surveyed prior to the survey, for the CAWI method. There was a coverage report with two levels of disaggregation: regional and communal, to monitor the progress of the collection in terms of area.

## Questionnaires

### QUESTIONNAIRES

Two questionnaires were used in the National Census of Agriculture and Forestry 2021: a complete questionnaire with 282 questions grouped into 16 sections, and a short questionnaire with 20 questions grouped into four sections, applied only to producers who indicated having forestry and agricultural activity in the agricultural year 2020/2021, with less than two hectares of total area, and that they did not make sales.

The complete questionnaire covered 21 out of 23 essential items recommended in the WCA 2020.

## Data Processing

### DATA EDITING

The integration of the databases obtained for each of the methods and validation of the data was carried out at different levels:

- 42 validation rules implemented for the questionnaires collected with the CAPI method in the Agricultural Census Operational Management System (SGOCA) namely, manual revision of the questionnaires in the event of an inconsistency
- 341 validation rules (logical consistency, rare information, flow of the questionnaire) implemented weekly by the Project Technical Team on the data collected by both CAPI and CAWI

Item non-response and non-valid values were automatically edited and imputed using information from the same questionnaire. Analysis and validation of results were carried out by comparing the data with a quality framework based on the analysis and review of existing administrative registers, at different levels of aggregation. In addition, consistency analysis was carried out within the questionnaire. The data processing, analysis and tabulation was carried out in RStudio.

### \*\*DATA PROCESSING NOTES\*\*

Direct data capture was ensured by the CAWI and CAPI methods. For both methods, validation rules were implemented and controlled for during the filling out of the questionnaires: 77 validation rules for CAPI and 119 for CAWI.

## Access policy

### CONTACTS

Name	Email	URL
National Institute of Statistics (INE, Instituto Nacional de Estadísticas) of Chile	ine@ine.gob.cl, censoagropecuario@ine.cl	<a href="#">Link</a>

### ACCESS CONDITIONS

For data access and use information please contact the National Institute of Statistics of Chile.

Email: ine@ine.gob.cl, censoagropecuario@ine.cl

Website: <https://www.ine.cl/>

## Metadata production

### DDI DOCUMENT ID

DDI\_CHL\_2021\_CNAF\_v01\_M\_v01\_A\_ESS\_FAO

### PRODUCERS

Name	Abbreviation	Affiliation	Role
National Institute of Statistics (Instituto Nacional de Estadísticas) of Chile	INE		Metadata producer
Statistics Division	ESS	Food and Agriculture Organization of the United Nations	Metadata adapted for FAM

## Data Dictionary

Data file	Cases	Variables
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