

## **MAIN RESULTS AND METADATA BY COUNTRY**

# AFGHANISTAN - Livestock Census 2002/03 - Explanatory Notes

## Historical outline

An Agricultural Census was conducted in 1967. The Swedish Committee for Afghanistan had conducted the 1992/93 Agricultural Survey. Data presented here refer to the 2002/03 Livestock Census.

## Organization

The 2002/03 Afghanistan National Livestock Census was conducted by the Food and Agriculture Organization of the United Nations (FAO) in collaboration with the Ministry of Agriculture, Irrigation and Livestock (MAIL) of Afghanistan. Financial support was provided by the Government of Italy. The census was managed at two levels: the Census Manager and an Assistant Manager were responsible for management of activities at national level while the Supervisors, each one covering 2 to 3 Provinces, provided the second level of management. 28 Supervisors, 24 Women-Surveyors and 821 Enumerators, were recruited for the field-work.

## Enumeration period

Data collection was completed by the end of March, except for Ghor Province where, for climatic reasons, enumeration was carried out by the end of April 2003.

## Reference date/period

Information on livestock numbers refers to the enumeration period.

## Definition

The Enumeration Unit was Livestock Household. Enumeration areas were defined as "a community group within a village". Community groups were based on "mosque assemblies".

## Coverage

Information was collected from all villages level and urban centres. Data were collected in all provinces and districts, with the exception of Barmal District in Paktika Province, due to insecurity for field operations. Parts of Ghor Province were also not covered by lack of accessibility.

## Frame

The Afghanistan Information Management System (AIMS) provided a list of 32 Provinces, 329 Districts and 30 172 Villages. A sampling frame, (e.g. a list of farmers) was not available for the Livestock Census, but one of the results of this census is the development of a sampling frame for future surveys.

## Method

The census was carried out at two levels, and it comprised four survey modules:

- **Level one** (Survey 1), was a complete enumeration exercise aimed to determine the total number of livestock, herd structure, change in ownership and to assess livestock losses caused by a catastrophic drought.
- In **Level two** more detailed information on production practices and production calendars were collected from 1 284 selected representative households in randomly selected Districts and Villages.(Survey 2).
- In addition to the census, a sample survey (Survey 3) of 2 899 women in livestock producers' households was undertaken to analyze gender role in livestock management.
- Finally, a sample survey (Survey 4) of 132 selected producers of Karakul sheep was carried out.

## Data source

National Livestock Census 2002/03 Final Report, FAO Rome, 2008 Afghanistan.

## Contact

Ministry of Agriculture, Irrigation and Livestock Jamal Mena-Kart-e Sakhi, Kabul, Afghanistan.  
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## Website

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## AFGHANISTAN - Livestock Census 2002/03 - Main Results

<b>HOUSEHOLDS REPORTED IN THE 2002 LIVESTOCK CENSUS</b>	
	<b>Number of households</b>
Total number of households	3 044 670
Households with livestock	2 026 918
Households without livestock	1 017 752

<b>LIVESTOCK</b>	
	<b>Number of head</b>
Cattle	3 715 409
Sheep	8 772 351
Goats	7 280 866
Horses	142 094
Asses	1 587 594
Camels	175 270
Chickens	12 155 846
Ducks	422 533
Turkeys	599 718

# ALBANIA - Agricultural Census 1998 - Explanatory Notes

## Historical outline

In 1994 and 1995 two annual agricultural surveys were conducted in Albania. The 1998 General Census of Agricultural Holdings was the first complete enumeration census conducted in the country.

## Organization

The organization of the census was based on the following entities:

- **Census Central Commission:** It was the highest level for managing and organizing the census. It determined the composition of the local commissions and the census offices in communes and municipalities. It was directed by the Ministry of Agriculture and Food (MOAF), and included the General Director of the Institute of Statistics (INSTAT), the Minister of Local Authority and Directors from Statistics, Livestock and Agriculture Directorates of the MOAF.
- **Census Commissions in the Districts:** These were directed by the Chairmen of the District Councils and managed the work of assisting the communes/municipalities in the district.
- **Census Offices in the Communes/Municipalities:** These were directed by the Chairman of the Commune and were responsible for recruiting and training of enumerators, organization of interviews, collection of questionnaires, etc.. Technical assistance to the General Census of Agricultural Holdings was provided by the Istituto Nazionale di Statistica (ISTAT) of Italy and by the Statistical Office of the European Communities (EUROSTAT). Financial support was provided by the Italian Government.

## Enumeration period

Data collection started on 1 June 1998.

## Reference date/period

Data on legal status, total and agricultural land and number of livestock, refer to the day of enumeration.

Data on tenure forms, employment, machinery, crop and livestock production and trade, fertilizers and irrigation, refer to the agricultural year 1997/98.

## Definition

Enumeration units for census purposes are considered all techno-economic units involved in agricultural, livestock or forestry production, regardless to size of holding, under single management exercised by one or more physical persons or by a juridical person.

## Coverage

The census covered the entire country. Holdings totally abandoned, livestock or fruit-trees located around private buildings in the cities, holdings not using their land for agricultural, livestock or forestry purposes, were excluded from the census.

## Frame

During the period March to July 1996, INSTAT, in collaboration with MOAF, organized the compilation of coded lists of agricultural holdings in the country. To prepare the lists, the documentation of agricultural land distribution, provided by the Land Registry Offices, was used. During the census interviews the lists were updated.

## Method

A pilot census for testing the questionnaire was conducted in March to April 1994 in 435 private holdings. The complete enumeration of agricultural holdings, starting on 1 June 1998, was conducted through direct interview of the head of household. 466 809 private and public holdings were identified in 2 968 villages, 368 communes/municipalities, 36 districts and 12 prefectures. About 4 500 persons participated into the field work as enumerators, commune and district controllers, members of census commissions, etc..

## Data source

General Census of Agricultural Holdings 1 – 30 June 1998, Institute of Statistics (INSTAT), Tirana, Albania.

## Contact

Institute of Statistics, Rr. Leke Dukagjini no.5 Tirana, Albania. Tel.: (+ 355) 4 222 411; Fax: (+ 355) 4 228 300; E-mail: vprogri@instat.gov.al.

## Website

[http:// www.instat.gov.al](http://www.instat.gov.al)

# ALBANIA - Agricultural Census 1998 - Main Results

HOLDINGS BY SIZE OF TOTAL AREA		
	Number of holdings	Area (ha)
Total	466 809	1 889 498
Holdings without agric.land	1 676	0
<0.1 ha	25 767	1 655
0.1 - 0.2 ha	38 339	6 030
0.2 - 0.5 ha	96 535	33 384
0.5 - 1 ha	117 476	87 439
1 - 1.5 ha	88 907	110 099
1.5 - 2 ha	51 470	88 822
2 - 3 ha	36 693	87 201
≥ 3 ha	9 946	1 474 868

LEGAL STATUS		
	Number of holdings	Area (ha)
Total	466 809	1 889 498
Civil persons	466 716	451 984
Public holdings and others	93	1 437 514

MEMBERS OF THE HOLDER'S HOUSEHOLD ENGAGED IN AGRICULTURAL WORK ON THE HOLDING		
	Number of persons	
Total	1 342 197	
Male	704 543	
Female	637 654	

LAND USE		
	Number of holdings	Area (ha)
All land	-	1 889 498
Agricultural land	-	809 992
Cropland	-	379 118
Arable land	-	345 259
Permanent crops	-	33 860
Permanent mead./pasture	-	430 874
Wood/forest land	-	1 025 564
All other land	-	53 942
Unused and pot. productive	-	43 296
Non agricultural	-	10 646

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Wheat	285 266	115 708
Maize	244 252	45 380
Rye	8 627	958
Barley	7 222	1 011
Oats	58 861	9 627
Potatoes	157 013	5 146
White beans	243 541	18 040
Tobacco	26 950	3 346
Cotton	115	11
Sugar beets	8 470	566
Sunflower seed	3 779	1 160
Soybeans	554	130
Tomatoes	292 515	2 925
Peppers	268 423	2 159
Cucumber	157 253	969
Cabbages	75 916	559

PERMANENT CROPS		
	Total number of trees	of which: of productive age
Apples	582 982	378 868
Pears	139 407	115 840
Plums	775 642	647 617
Figs	661 388	587 103
Walnuts	137 340	119 630
Olives	3 024 627	2 532 439
Citrus fruits	242 946	177 923

LIVESTOCK		
	Holdings reporting	Head/units
Cattle		
Total	315 640	635 435
Male	-	145 282
Female	-	490 153
<1 year		
Male	-	108 020
Female	-	80 221
1-2 years		
Male	-	17 192
Female	-	24 541
>2 years		
Male	-	20 070
Female	-	385 391
Sheep	108 630	1 482 275
Goats	66 261	808 063
Pigs	42 201	61 904
Horses	41 285	42 128
Chickens	293 445	2 543 619
Ducks/Geese	14 019	94 840
Turkeys	27 586	226 385
Beehives	5 300	28 736

# ALGERIA - Agricultural Census 2001 - Explanatory Notes

## Historical outline

The first census of agriculture in Algeria was conducted in 1973. The second census, with complete enumerations, to which data reported here refer, was conducted in 2001.

## Organization

**At central level**, the census work was organized into three different structures:

- A National Level Committee, headed by the Ministry of Agriculture and Rural Development, including all Ministries and Offices involved in the census.
- A Technical Committee, under the direction of the Office for the Agricultural Statistics and Information Systems (DSASI), consisting of officers from the Central Administration, from the "Bureau National des Etudes de Développement Rural", and from the "Direction Générale des Forêts".
- An Operational Committee, in charge for the organization of field operations.

**At local level**, the organizational apparatus consisted of a Willaya Committee, a Communal Committee and a Communal Cell, all in charge for field operations. About 8 000 persons were involved, namely, 100 supervisors, 500 controllers and 7 400 enumerators, of which 3 500 selected among unemployed engineers and technicians. Nearly 1 700 vehicles from DGF and from peripheral offices were used.

## Enumeration period

The enumeration took place during the period January 2001 and May 2003.

## Reference date/period

The reference period was the agricultural year 2000/01.

## Definition

The agricultural holding is defined as an economic unit of agricultural production under single management, comprising all livestock kept and all land used wholly or partly for agricultural production purposes, without regard to title and legal form. It could be managed by civil persons, corporations, collectives, cooperatives or government agencies.

## Coverage

The census covered all agricultural holdings of the whole country.

## Frame

The frame was created during the pre-census operations: in this phase, a complete list of all holdings was prepared. Cartographic support, consisting on material used for the General Census of Population and Dwellings, was provided by the National Statistical Office (ONS).

## Method

The census was conducted in six phases through complete enumeration of all agricultural holdings.

## Data source

Recensement General de l'Agriculture 2001, Rapport General des résultats définitifs, Juin 2003. Ministère de l'Agriculture et du Développement Rural, Direction des Statistiques Agricoles et des Systèmes d'Information, République Algérienne Démocratique et Populaire.

## Contact

- Ministère de l'Agriculture et du Développement Rural, 12, Boulevard Amirouche, Alger 16000, Algérie. Tel.: (+213) 21 718 836.
- Office National des Statistiques: 8, 10 Rue des Moussebilines, Alger, Algérie. Tel.: (+213) 21 744 141, (+213) 21 744 100, (+213) 21 744 117; Fax : (+213) 21 743 839; E-mail: ons@onssiege.ons.dz.

# ALGERIA - Agricultural Census 2001 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	1 023 799	8 458 680

NUMBER AND AREA OF HOLDINGS BY SIZE		
	Number of holdings	Area (ha)
Total	1 023 799	8 458 680
Without land	55 935	-
0.1 and under 0.5 ha	88 914	20 109
0.5 and under 1 ha	78 266	50 407
1 and under 2 ha	128 864	162 314
2 and under 5 ha	239 844	722 275
5 and under 10 ha	181 267	1 200 598
10 and under 20 ha	142 980	1 896 466
20 and under 50 ha	88 130	2 484 971
50 and under 100 ha	14 294	930 765
100 and under 200 ha	4 063	532 146
200 ha and over	1 242	458 628

LEGAL STATUS		
	Number of holdings	Area (ha)
Total	1 023 799	8 458 680
Civil person	850 906	6 744 723
Collective	35 338	929 514
Other	137 555	784 443

TENURE OF LAND		
	Number of holdings	Area (ha)
Total	1 023 799	8 458 680
Owned by civil persons	777 323	5 857 216
Owned by the State	186 622	2 566 199
Other forms of tenure	59 854	35 265

HOLDERS BY SEX		
	Number of persons	
Total	1 023 799	-
Male	982 006	-
Female	41 793	-

HOLDERS BY AGE		
	Number of persons	
Total	1 023 799	-
17 to 19 years of age	4 091	-
20 - 29	50 496	-
30 - 39	135 445	-
40 - 49	219 631	-
50 - 59	220 582	-
60 - 69	212 462	-
70 and over	164 926	-
Not classified by age	16 166	-

HOLDERS AND HOUSEHOLD MEMBERS		
	Number of persons	
Total	6 907 585	-
Male	5 215 227	-
Female	1 692 358	-

HOLDERS AND HOUSEHOLD MEMBERS ENGAGED MAINLY IN AGRICULTURE		
	Number of persons	
Total	3 349 447	-
Male	2 580 463	-
Female	768 984	-

HIRED PERMANENT WORKERS		
	Number of workers	
Total	108 566	-
Male	103 608	-
Female	4 958	-

LAND USE		
		Area (ha)
Agricultural land	-	8 458 680
Cropland	-	8 432 458
Arable land	-	4 541 465
Permanent crops	-	540 510
Fallow land	-	3 350 483
Permanent mead./past.	-	26 222

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Cereals	588 621	3 997 429
Dry pulses	52 872	68 883
Hay crops	84 565	201 434
Vegetable crops	-	239 111
Industrial crops	17 646	34 834

PERMANENT CROPS		
	Holdings reporting	Number of trees
Citrus fruits	16 806	46 401
Figs	75 299	35 949
Olives	129 089	146 937
Dates	125 680	103 129
Grapes (for table use)	23 638	35 278
Grapes (for wine)	6 366	24 569

LIVESTOCK		
	Holdings reporting	Number of head
Cattle	214 925	1 464 663
Sheep	346 031	18 738 166
Goats	206 391	3 186 878
Camels	10 650	333 933
Chickens	-	63 758 616

# AMERICAN SAMOA - Agricultural Census 2003 - Explanatory Notes

## Historical outline

The US Bureau of the Census conducted the first agricultural enumeration in American Samoa in 1920. The subsequent agricultural censuses were carried out every 10 years, in conjunction with the Population and Housing Censuses. In 1997 the responsibility for conducting the Census of Agriculture in the United States and, consequently, in the Outlying Areas (i.e. *The Virgin Islands of the U.S., Guam, American Samoa and Northern Mariana Islands*) was transferred to the National Agricultural Statistics Service (NASS) of the U.S. Department of Agriculture (USDA). Starting from 1998, American Samoa was included in their Five-Year Agriculture Census Program. The 2003 Census of Agriculture is the tenth conducted in American Samoa and the second conducted as an independent census of agriculture, after the one undertaken in 1998.

## Organization

Census data were collected in accordance with a Memorandum of Agreement between NASS, the Department of Interior's Office of Insular Affairs and the Department of Commerce of American Samoa. It was conducted with the cooperation and assistance of American Samoa Department of Agriculture and the American Samoa Community College – land Grant.

## Enumeration period

Data were collected during January to February 2003.

## Reference date/period

For inventories of livestock, poultry, machinery and equipment: time of enumeration.

For crop production, crop and livestock sales and expenses: calendar year 2003.

## Definition

The farm definition of the 2003 Agricultural Census was "Any place that raised or produced any agricultural products for sale or for home consumption" (Approximately seventy-five percent of all households fitted this definition). It is a broader definition than the one used in 1990, which used a cut-off of "sales worth US \$100 or more of agricultural products during the census year".

## Coverage

The census covered the entire territory of American Samoa.

## Frame

The frame was obtained from a list of operational farms developed from several different sources. Enumerators assigned to an Enumeration District (ED) were requested to investigate all the names listed for that ED; information was collected only for those households with agricultural activities. In the case of farms no more operational or farms newly in business, the list was updated with field operation.

## Method

In addition to enumerating all holdings in the list of known commercial farms, a sample of households was enumerated, through direct interview, to account for production used for family consumption.

## Data source

Census of Agriculture 2003, Vol.1, Geographic Area Series, Part 55 October 2005. United States Department of Agriculture (USDA), or National Agricultural Statistics Service (NASS), American Samoa.

## Contact

- United States Department of Agriculture (USDA), or National Agricultural Statistics Service (NASS), 1400 Independence Ave., SW Washington, DC 20250. Tel.: (800) 727 9540; (+1) 202 720 3878; E-mail: [nass@nass.usda.gov](mailto:nass@nass.usda.gov).
- American Samoa Government, Department of Commerce, Statistics Division, Office of the Chief Statistician. Tel.: (+684) 633 5155; Fax: (+684) 633 4195.

## Website

<http://www.nass.usda.gov/census>



# AMERICAN SAMOA - Agricultural Census 2003 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	7 094	7 949

NUMBER AND AREA OF HOLDINGS BY SIZE		
	Number of holdings	Area (ha)
Total	7 094	7 949
Under 0.4 ha	1 820	302
0.4 - 1.2 ha	2 699	1 624
1.2 - 2 ha	1 412	1 830
2 - 3.2 ha	692	1 520
3.2 - 4 ha	111	365
4 - 8.1 ha	275	1 274
8.1 - 16.2 ha	74	723
16.2 - 20.2 ha	3	52
20.2 and over	8	259

AREA BY TENURE		Area of holdings (ha)
Total		7 949
Area owned		7 850
Area rented from others		99

HOLDERS BY AGE		Number of holders
Total		7 094
under 35 years		607
35 to 44 years		1 716
45 to 54 years		1 791
55 to 64 years		1 686
65 years and over		1 294

HOLDERS BY SEX		Number of holders
Total		7 094
Male		5 636
Female		1 458

FRAGMENTATION		Holdings
Total holding		7 094
with 1 parcel		5 129
with 2 parcels		1 566
3 parcels and over		399

LAND USE		Area (ha)
Total land		7 949
Agricultural land		5 807
Cropland		5 783
Land under crops		5 035
Other crop land		748
Land under permanent meadows/pastures		24
Wood or forest land		518
All other land		1 624

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Taro (cocoyam)	5 002	1 822
Giant taro	2 833	594
Yams	1 773	492
Cucumbers	567	108
Cabbages	364	71
Sugar cane	268	30
Beans, green	349	49
Cassava	240	34
Maize	37	6
Melons	84	9
Eggplant	280	39

PERMANENT CROPS		
	Holdings reporting	Number of trees/plants
Avocados	787	2 581
Bananas (Fai palagi)	6 108	1 765 842
Bananas (other variet.)	5 973	1 533 017
Breadfruit	5 813	150 778
Cocoa	435	9 464
Coconut	5 436	513 660
Grapefruit	176	646
Lemons	1 953	9 626
Limes	854	7 230
Mangoes	2 942	10 641
Oranges	1 059	3 876
Papayas	2 962	83 768
Pineapples	1 276	627 317

LIVESTOCK		
	Holdings reporting	Number of head
Cattle	20	300
Pigs	3 050	64 208
Chickens	1 284	68 372

MACHINERY/EQUIPMENT		Holdings reporting
Tractors		36
Trucks		524

# ARGENTINA - Agricultural Census 2002 - Explanatory Notes

## Historical outline

The first Agricultural Census in Argentina was conducted in 1888. Since then nine censuses were carried out in 1895, 1908, 1914, 1937, 1947, 1952, 1960, 1969 and 1988; some of them as part of a general census of the country (1895, 1914, and 1947). The Agricultural Census, to which data reported here refer, was conducted in 2002.

## Organization

The Argentine Republic is a federal nation consisting of 24 autonomous provinces subdivided, in turn, into 500 units (departamentos) and the capital city of Buenos Aires. The National Institute for Statistics and Census (INDEC) is the federal agency responsible for planning and coordinating national censuses and other national level statistical surveys. Each province operates its own statistical bureau (Dirección Provincial de Estadística-DPE). INDEC and every DPE are linked into the National Statistical System (Sistema Estadística Nacional -SEN) and their activities are closely coordinated. The staff employed in the field work included 23 census coordinators (one in every province) 13 under-coordinators, 98 chief supervisors, 550 supervisors and 2 920 enumerators.

## Enumeration period

The enumeration period took place from September to December 2002.

## Reference date/period

Data on livestock, buildings, machinery and other equipment refer to 30 June 2002. All the other data refer to the agricultural year July 2001 to 30 June 2002.

## Definition

The adopted statistical unit was the Agricultural Holding (Explotación Agropecuaria), defined as a market oriented production unit over 500 square meters in area, made up of one or more parcels and having a holder assuming the economics risks and responsible for its management made formed.

## Coverage

The census covered the entire national territory excluding urban areas and desert zones with no agricultural use. All the agricultural holdings were covered regardless size, number of parcels, juridical status of the holder, land tenure and land use.

## Frame

The frame was based on the Directory of Agricultural holdings of the previous Agricultural Census, updated by the annual agricultural survey (ENA-Encuesta Nacional Agropecuaria) and mapped on the census cartography, mostly digital. The whole country was divided into "Enumerating Segments" with well delimited boundaries and an average of 180 Agricultural Holdings each.

## Method

The census was organized on a complete enumeration basis through a direct interview of holders. The census questionnaire was adapted to each of the five regions in which the country is divided. Each version contains a set of common items and some specific items for the region.

## Data source

Censo Nacional Agropecuario 2002, Resultados Preliminares. Instituto Nacional de Estadística y Censos (INDEC), Argentina.

## Contact

Instituto Nacional de Estadística y Censos (INDEC), Julio A Roca 615, Ciudad de Buenos Aires, Argentina.  
Tel.: (+54)11 434 993 24, (+54) 11 434 992 00; E-mail: dkell@indec.mecon.gov.ar.

## Website

<http://www.indec.mecon.ar>

# ARGENTINA - Agricultural Census 2002 - Main Results

<b>NUMBER AND AREA OF HOLDINGS</b>		
	<b>Number of holdings <sup>(1)</sup></b>	<b>Area (ha)</b>
<b>Total</b>	<b>295 485</b>	<b>172 105 798</b>

<sup>1</sup> Excluding 36 572 holdings with undefined boundaries

<b>TEMPORARY CROPS</b>	
	<b>Area (ha)</b>
Cereals	9 523 269
Oleaginous plants	8 896 621
Industrial crops	604 513
Other crops	13 416 033

<b>LIVESTOCK</b>	
	<b>Number of head</b>
Cattle	48 063 368
Sheep	12 395 839
Goats	4 021 917
Pigs	2 120 089

# AUSTRALIA - Agricultural Census 2001 - Explanatory Notes

## Historical outline

In some States and Territories of Australia, agricultural censuses have been conducted for 140 years. The Agricultural Census was usually conducted annually at the end of March, until 1996/97 when the Australian Bureau of Statistics (ABS), to better align with other ABS surveys, changed the collection period to 30 June. The current strategy is for a 5-year-interval census with sample surveys in inter-censal years. The Census, originally planned for the reference period year-ended June 2002, was advanced to apply to year-ended 2001. The next census will apply to year-ended 2006.

## Organization

The Australian Bureau of Statistics (ABS) is the responsible office for the collection, compilation and publication of official statistics, including the organization and implementation of the Agricultural Census.

## Enumeration period

Census Date: 30 June 2001.

## Reference date/period

Data on crops refer to the agricultural year ending 30 June 2001. Data on livestock and holdings characteristics refer to the Census Day.

## Definition

- **Establishment** is the smallest accounting unit of business within a State or Territory, controlling its productive activities and maintaining a specified range of detailed data enabling value added to be calculated. The establishment can cover all operations at *one* physical location, or may consist of a group of locations, provided they are within the same State or Territory (the majority of establishments refer to a single location).
- **Establishment with agricultural activity** is usually a single physical location which is used for crop production (including fruit and vegetables production) and/or for raising livestock or for livestock production.

## Coverage

Geographically, the census covered all States and Territories in the country.

Statistically, all establishments (see definition above) with an Estimated Value of Agricultural Operations (EVAO) of at least A\$ 5 000 (1 A\$ = 0.6 US\$) were covered.

## Frame

Information on units engaged in agricultural activity is a database known as the Integrated Register Information System (IRIS). It provides a list of names and addresses in Australia, to allow distribution of census and survey forms covering all economic statistics, agriculture statistics included.

## Method

The data on a wide range of agricultural items is collected in the census by mail. Telephone reminder action, followed if necessary by personal visits, is also taken. Upon receipt, returns are subjected to initial clerical examination for accuracy and consistency, and subsequently entered into the computer system for editing and tabulation.

## Data source

Agricultural Census 2000/01, Cat. N.o 7113.0 and 7121.0. Australian Bureau of Statistics.

## Contact

Australian Bureau of Statistics (ABS) - P.O. Box 10, Belconnen, ACT 2616. Tel.: 1900 986 400 (self help access to statistics). Melbourne, Sidney, Brisbane, Perth, Darwin. Tel.: (+61) 3 961 577 55, (+61) 2 926 84 611, (+61) 7 322 263 51, (+61) 8 936 051 40, (+61) 8 894 321 11; Fax: (+61) 3 961 577 98, (+61) 2 926 846 68, (+61) 7 322 262 83, (+61) 8 936 059 55, (+61) 8 898 112 18;  
E-mail: [client.services@abs.gov.au](mailto:client.services@abs.gov.au).

## Website

<http://www.abs.gov.au>

# AUSTRALIA - Agricultural Census 2001 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	140 516	455 723 000

LAND USE		
	Number of holdings	Area (ha)
All land	-	455 723 000
of which:		
Land under crops	-	24 520 000
Perm. meadows / pastures	-	25 607 000

TEMPORARY CROPS		
	Area (ha)	Production (mt)
Wheat	12 141 000	22 108 000
Rice	177 000	1 643 000
Maize	74 000	345 000
Barley	3 454 000	6 743 000
Oats	650 000	1 050 000
Sorghum	758 000	1 935 000
Millet	30 338	-
Triticale	389 000	841 000
Other cereals	136 357	-
Oilseeds, total	1 606 552	1 910 000
Rapeseed (Colza)	1 459 000	1 775 000
Cottonseed	536 000	666 000
Soybeans	33 262	-
Groundnuts	17 000	39 000
Sugarcane	403 000	28 117 000
Tobacco	2 000	6 000
Vegetables, total	137 137	-
Potatoes	39 622	1 302 110
Tomatoes	9 582	556 240
Carrots	7 992	320 908
Lettuce	5 758	152 742
Onions	4 991	221 921

PERMANENT CROPS		
	Number of trees	Production (mt)
Apples	6 455 000	324 599
Pears	1 373 000	168 896 000
Oranges	6 669 000	550 200
Mandarins	404 000	36 197 000
Lemons and Limes	1 356 000	78 913 000
Plums and Prunes	1 328 000	31 298 000
Peaches	1 674 000	74 142 000
Nectarines	1 072 000	33 661 000
Cherries	861 000	8 485 000
Apricots	498 000	20 639 000
Olives	145 000	2 370 000
Avocados	504 000	29 834 000
Mangoes	1 017 000	37 398 000
Almonds	955 000	9 475 000
Macadamia nuts	2 406 000	22 691 000
	Area (ha)	Production (mt)
Grapes	148 258	1 546 000
Papayas	537	9 622
Pineapples	2 733	119 618
Bananas	11 737	358 388

LIVESTOCK		
	Holdings reporting	Number of head
Cattle		
Total	78 943	27 721 000
For milk production	-	3 217 000
For meat production	-	24 504 000
Buffaloes	15	7 327
Horses	25 272	223 998
Sheep	49 817	110 928 000
Pigs	3 480	2 748 000
Chickens	-	90 973 000
Laying hens	522	14 276 000
For meat production	823	76 697 000

# AUSTRIA - Agricultural Census 1999/2000 - Explanatory Notes

## Historical outline

Until 1990 structural data on Austrian agriculture were collected through the agricultural and forestry farm censuses (complete enumeration surveys) conducted at 10-yearly intervals. Supplementary data on land use, labour force and farm machinery was collected through additional periodic surveys. Agricultural census 1999/2000 was carried out in Austria in pursuance of EU legislation.

## Organization

As per a regulation under the 1965 Federal Statistics Act adopted by Federal Ministry of Agriculture and Forestry, the responsibility for conducting the survey was assigned to Austrian Central Statistics Office. At local level the responsibility of conducting the survey was assigned to 2 360 local authorities who actually carried out the survey with the assistance of survey bodies.

## Enumeration period

For Agricultural Census from 1 – 30 June 1999. For General Livestock Census from 1 – 7 December 1999.

## Reference date/period

For Farm Structure Survey: 1 June 1999. For livestock numbers: 1 December 1999. For farm labour force: the 12 months preceding the day of the census.

## Definition

- **Operator:** Person or groups on whose behalf and on whose responsibility the farm is run (holder).
- **Keeper:** Person or groups on whose behalf and on whose responsibility the animals are kept (holder).

The concepts and definitions for the survey have been harmonized with EU standard over a period time while maintaining continuity with old data series and keeping in view the national needs.

## Coverage

Geographically, the survey covered the entire territory of the country. The legal provision for the survey required the following parties to provide statistical information:

- Operators of agricultural and forestry holdings with a utilized agricultural area of at least 1 ha;
- Operators of commercial vineyards of at least 25 ares, intensively-farmed areas of fruit trees of at least 15 ares, and areas under berries, strawberries, vegetables, flower and ornamental plants, vine and tree nurseries, or at least 10 ares under glass or foil;
- Operators producing cultivated mushrooms for the market;
- Operators of holdings exclusively geared to forestry with at least 3 ha of woodland;
- Keepers of at least three head of cattle, five pigs, ten sheep, ten goats or 100 of any kind of poultry.

## Frame

The survey frame was based on the 1995 Farm Structure Survey. For preparation of sampling frame an initial list of holdings was obtained from the farm register which is constantly updated. The holdings which ceased operation during 1999 were eliminated and the new holdings were listed. Also, the holdings which did not qualify as per raised threshold for FSS 1999 were eliminated.

## Method

Both the Agricultural Census and the General Livestock Census were conducted as complete enumeration surveys. Paper questionnaires were used for direct consultation of farmers. The forms used were machine-readable and were linked together by using a common identification code.

## Data source

Farm Structure Survey 1999/2000, 2003 Edition. European Commission Eurostat, Theme 5, Agriculture and Fisheries.

## Contact

Statistics Austria, A-1110 Vienna, Guglgasse 13. Tel.: (+43) 1 711 287 070; Fax: (+43) 1 715 6828;  
E-mail: info@statistik.gv.at.

## Website

[http://www.statistik.at/index\\_englisch.shtml](http://www.statistik.at/index_englisch.shtml)

# AUSTRIA - Agricultural Census 1999/2000 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	199 470	6 804 610

NUMBER AND TOTAL AREA OF HOLDINGS BY SIZE OF AGRICULTURAL AREA		
	Number of holdings	Area (ha)
Total	199 470	6 804 610
Holdings without agricult. land	2 420	4 040
0 - 2 ha of agricultural area	26 690	144 820
2 - 5 ha	43 440	357 340
5 - 10 ha	38 170	656 790
0 - 20 ha	44 760	1 208 900
20 - 30 ha	20 760	827 480
30 - 50 ha	14 320	808 820
50 - 100 ha	5 980	650 490
>= 100 ha	2 930	2 145 930

LEGAL STATUS		
Holdings operated by:	Number of holdings	
Civil Persons	194 910	-
Other	4 560	-

TENURE OF AGRICULTURAL LAND		
		Agricultural area (ha)
Total	-	3 388 230
Owned	-	2 567 240
Rented	-	727 820
Under other forms of tenure	-	93 170

HOLDERS (INDIVIDUALS) BY SEX		
	Number of holders	
Total	194 910	-
Male	137 370	-
Female	57 540	-

HOLDERS (INDIVIDUALS) BY AGE		
	Number of holders	
Total	194 910	-
< 35 years of age	30 870	-
35 to 44	55 880	-
45 to 54	51 200	-
55 to 64	36 700	-
65 >	20 260	-

HOLDERS AND MEMBERS OF THEIR HOUSEHOLD ENGAGED IN AGRICULTURAL WORK ON THE HOLDING		
	Number of persons	
Total	507 400	-
Male	283 540	-
Female	223 860	-
Of which, full time:		
Total	78 050	-
Male	55 730	-
Female	22 320	-

HIRED PERMANENT WORKERS		
	Number of workers	
Total	19 410	-
Of which, full time	9 720	-

LAND USE		
	Number of holdings	Area (ha)
All land	199 470	6 804 610
Agricultural land	-	3 388 230
Cropland	-	1 471 990
Arable land	125 170	1 401 370
of which: kitchen gardens	43 180	6 250
Permanent crops	37 760	70 620
Permanent mead./pastures	162 080	1 916 240
Wood / forest land	153 000	2 665 450
All other land	-	750 930

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Wheat, total	-	261 270
Soft wheat	51 790	240 790
Durum wheat	3 440	20 480
Rye	22 750	56 140
Barley	71 680	244 880
Oats	28 840	35 770
Maize	35 790	177 940
Dry pulses	20 180	49 230
Potatoes	32 080	23 490
Sugarbeets	10 940	47 080
Industrial plants	33 550	133 060
Rapeseed and Turnip	13 590	65 810
Sunflowerseed	6 270	24 260
Soybeans	4 410	18 660
Vegetables (grown in the open)	8 490	12 570

PERMANENT CROPS		
	Holdings reporting	Area (ha)
Grapes	24 560	51 200

LIVESTOCK		
	Holdings reporting	Number of head
Cattle, total	100 660	2 151 340
of which: dairy cows	77 470	697 310
Sheep	17 330	339 250
Goats	11 800	50 810
Pigs	82 200	3 425 450
Chickens, total	-	13 640 000
Broilers	2 150	7 010 000
Laying hens	79 700	6 630 000

MACHINERY		
	Holdings reporting use	Units
Tractors belonging to the holding (owned)	167 940	326 580
Tractors not belonging to the holding	15 770	-

# AZERBAIJAN - Agricultural Census 2004/05 - Explanatory Notes

## Historical outline

The first Census of Agriculture was conducted in Azerbaijan in 1921. After the creation of large Collective and State Farms, in 1932, statistical data were obtained from State Statistical Records, while information on population's own subsidiary farms were collected with sample observations and complete records. Surveys on vineyard, garden and berries plantations were conducted periodically since 1940. Cattle surveys are carried out annually, as at 1st of January. The Agricultural Census 2004/05 is the first comprehensive Agricultural Census of the Republic of Azerbaijan.

## Organization

The 2004/05 Agriculture Census was organized and conducted by the Agriculture Statistics Division of State Statistical Committee of the Republic of Azerbaijan. The census program was prepared by specialists drawn from relevant Ministries, Government Offices and other Organizations.

## Enumeration period

Data were collected from 1 – 30 June 2005.

## Reference date/period

Data on agricultural enterprises refer to 1 July 2005. Data on population and peasant farms refer to 1 June 2005.

## Definition

- **Peasant (farmer) farm** is a farm engaged in agricultural production and sales on land owned or leased, based on family work and officially registered as legal entity. Peasant farmer could be a single person or a family.
- **Family peasant farm** is one engaged in agricultural production and sales on land owned or leased, based on family work, in absence of the constitution of a legal entity.
- **Households farms** include farms of urban and rural residents not having received land share as a result of agrarian reform, and having only homesteads or livestock.
- **Summer house farms** include all farms available as summer residence-dacha in suburban areas and used as temporary summer houses.
- **Collective-joint farm** is a thrift form of engaging in selling, processing and production of agricultural products based on private property of two or more families/citizens.
- **Joint-stock companies** which can be: a) *open* when stocks can be negotiated without the consent of other stockholders or b) *close* when stocks can be expanded only among the founders or in -advance designated persons.

## Coverage

The census covered the whole country except occupied lands.

## Frame

State Records and Registers of all categories of farms are taken and updated.

## Method

Two main groups of farm categories were considered:

- **The first group** (Form No. 1) included all institutional farms (collective farms, joint-stock companies, societies, state farms). According to the registration and inventory documents, these farms have presented filled in census questionnaires to the Statistical Bodies.
- **The second group** (Form No. 2) included peasant (farmer) farms, family peasant farms and homesteads. For this group the census was conducted by sampling method.

## Data source

Agriculture Census 2005. State Statistical Committee, Agriculture Statistics Division, Republic of Azerbaijan.

## Contact

The State Statistical Committee, Agriculture Statistics Division, AZ 1136 Baku, Inshaatchilar Avenue, Republic of Azerbaijan. Tel.: (+994) 12 438 1171; Fax: (+994) 12 438 2442; E-mail: sc@azstat.org.

## Website

<http://www.azstat.org>



# AZERBAIJAN - Agricultural Census 2004/05 - Main Results

<b>NUMBER AND AREA OF HOLDINGS</b>		
	Number of holdings	Area (ha)
Total	1 287 385	2 341 000
Peasant farms	1 285 358	1 938 200
Enterprises	2 027	402 800

<b>TENURE OF LAND</b>		Agricultural area (ha)
Total		2 341 000
Owned or in ownerlike possession		1 793 100
Rented from others		402 000
Under other forms of tenure		145 900

<b>FARM POPULATION BY SEX</b>		Number of persons
Total		4 857 600
Male		2 411 000
Female		2 446 600

<b>EMPLOYMENT IN AGRICULTURE</b>		Number of workers
Total		2 591 200
Male		1 284 600
Female		1 306 600

<b>LAND USE</b>		Area (ha)
Total land		2 341 000
Agricultural land		2 163 800
Cropland		1 676 400
Arable land		1 555 700
Land under temporary crops		1 357 100
Land temporarily fallow		198 600
Land under permanent crops		120 700
Land under permanent meadows/pastures		487 400
Wood or forest land		12 300
All other land		164 900

<b>TEMPORARY CROPS</b>		Area sown(ha)
Wheat		598 100
Barley		171 400
Rice		2 400
Maize		32 300
Cotton		112 700
Tobacco		2 800
Sugarbeet		3 100
Sunflower		11 500
Potatoes		71 100

<b>PERMANENT CROPS</b>		
	Trees/plants total number	Trees/plants of productive age
Berries	364	364
Vines	8 868	1 882
Tea	1 798	1 797

<b>MACHINERY/EQUIPMENT</b>		Number of holdings reporting
Tractors		14 913
Harvesters		1 345

# BANGLADESH - Agricultural Sample Survey 2005 - Explanatory Notes

## Historical outline

The previous agricultural censuses were organized in 1960, 1977, 1983/84 and in 1996/97.

## Organization

The Agricultural Sample Survey 2005 has been organized by the Ministry of Finance and Planning, Bureau of Statistics, Planning Division.

## Enumeration period

The Agriculture Sample Survey 2005 was conducted during the period 17 – 31 May 2005.

## Reference date/period

Data collected refer the period from 14 April 2004 to 13 April 2005. About the items of information on holder, size of land holding, land tenure, operated land and farm population the reference time was the day of enumeration.

## Definition

- Household: a group of persons normally living together and eating in one mess with their dependents, relatives, servants, etc.
- **Agricultural household:** ultimate sampling unit from which agricultural data were collected.
- **Mauza:** the lowest administrative territorial unit having a separate jurisdiction and the revenue records.
- **Enumeration area (EA):** well defined and specified area of enumeration assigned to an enumerator to conduct the survey
- **Holder:** the member of the household who exercises management control over the operation of the agricultural holding
- **Mohalla:** human settlement or a part of residential segment of a city or town having its own identity

## Coverage

A fixed number of clusters (10% of the administrative subdivisions mauzas and mohallas) were selected in each zila (district)/city and the selected agricultural households were interviewed in each cluster. The Mauzas were divided in two classes: up to 500 households and more than 500 households. The enumeration areas (EAs) were delineated with about 200 households from the selected Mauzas and 300 households from the selected Mohallas. A total of 13 539 EAs were selected for the enumeration.

## Frame

The sampling is a stratified cluster one. It was developed a stratified cluster design with Mohalla and Mauza as cluster of households.

## Method

The sample includes two-level stratification:

- Localities dividing the whole country in 3 strata:
  - **Metropolitan area** consisting of municipalities of 6 Metropolitan cities;
  - **Urban area** consisting of municipalities of other Zila towns;
  - **Rural area** consisting of remaining areas of the country.
- Stratification was done within the selected localities.

## Data source

Preliminary Report, Agriculture Sample Survey, October 2005. Bangladesh Bureau of Statistics, Planning Division, Ministry of Planning, Government of the People's Republic of Bangladesh.

## Contact

Bangladesh Bureau of Statistics, Bangladesh Secretariat, Building No. 8, Dhaka 1000, Bangladesh.

## Website

<http://www.bbs.gov.bd>

# BANGLADESH - Agricultural Sample Survey 2005 - Main Results

<b>NUMBER AND AREA OF HOLDINGS</b>		
	<b>Number of holdings</b>	<b>Area (ha)</b>
Total	28 191 544	9 782 409
Holdings with land	24 236 924	-
Holdings without land	3 954 620	-
of which: Farm Holdings	14 941 500	-

<b>LAND TENURE</b>	
	<b>Area (ha)</b>
Area owned	9 529 392

<b>LAND USE</b>	
	<b>Area (ha)</b>
Cultivated area	7 537 108
of which:	
Area under temporary crops	6 866 861

<b>MACHINERY AND EQUIPMENT</b>		
	<b>Holdings reporting</b>	
Machinery owned	8 881 987	
Transport means owned	8 133 687	

## Historical outline

Belgium participated in all the rounds of World Census of Agriculture. An exhaustive Agricultural and Horticultural Census is conducted annually on 15 May and 1 December to cover summer and winter crops. The legal basis for the census is provided by the Royal Decree issued pursuant to the Law of 4 July 1962 on public statistics, as amended by the Law of 1 August 1985. Belgium also participates in Farm Structure Survey of European Community.

## Organization

The National Institute of Statistics (INS), Ministry of Economic Affairs, has the responsibility for executing periodic large-scale censuses and surveys, and for preparing official statistics. The Mayors of the municipalities are responsible for conducting and supervising both the 15 May and 1 December censuses. The Mayor appoints the enumerators for carrying out personal interviews for the census districts within each municipality.

## Enumeration period

The agricultural census is conducted in two phases:

- Between 1 and 31 May to collect information on land use, livestock and agricultural machinery.
- In December to collect information on winter wheat, livestock and farm labour force.

The municipalities have 30 days for the 15 May Census and 20 days for the 1 December Census to return the completed questionnaires to the National Statistical Institute.

## Reference date/period

Information on land use, livestock and agricultural machinery refers to 15 May, while data on farm labour force, winter wheat and livestock refer to 1 December.

## Definition

The census unit is the agricultural holding, which is defined as a techno-economic unit of agricultural production, situated in a given region, i.e. identified on the territory, under single management, having an output consisting of agricultural, horticultural or livestock products.

## Coverage

The census covered all legal and natural persons who have an agricultural holding located in Belgium and who, on the reference date of the census produced for the purpose of selling animal or vegetable products. However, all holdings which operated at least one hectare of land or had animals were included, even if they did not produce for selling.

## Frame

A Register of Holdings kept by the National Statistics Office, which provides the starting list to the census enumerators who update it during the process of census. The updated information is recorded in the Register which is used for further sample surveys.

## Method

Complete enumeration of holdings is carried out. Information is collected through direct interview; the questionnaire is filled in by the enumerator in the presence of the respondent and signed by both. The municipality supplies to the enumerators census questionnaires, and a list including addresses of holdings prepared on the basis of the Register. The new holdings which have come up in existence since the last census are also listed. The survey is conducted by the enumerator at the place of establishment of the holding in question, i.e. at the place where its main farm buildings are located. If the holding comprises several sub-holdings, relevant data are collected from each sub-holding.

## Data source

Report on Farm Structure Survey 1999/2000 of Eurostat, Recensement agricole au 1er mai. Ministère des Affaires Économiques, Institut National de la Statistique.

## Contact

Institut National de la Statistique, Rue de Louvain, 44 / 1000, Bruxelles, Royaume de Belgique.  
Tel.: (+32) 2 548 6583 ; Fax: (+32) 2 548 6670.

## Website

<http://www.statbel.fgov.be>

# BELGIUM - National Agricultural and Horticultural Census 1999/2000 - Main Results

NUMBER AND TOTAL AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	61 710	1 426 780

NUMBER AND TOTAL AREA OF HOLDINGS BY SIZE OF AGRICULTURAL AREA		
	Number of holdings	Area (ha)
Total	61 710	1 426 780
Holdings without agr. land	1 270	670
0 - 2 ha of agricultural area	9 340	11 710
2 - 5 ha	8 420	30 860
5 - 10 ha	8 300	62 870
10 - 20 ha	10 140	153 600
20 - 30 ha	7 510	190 000
30 - 50 ha	9 210	361 060
50 - 100 ha	6 230	425 130
>= 100 ha	1 290	190 880

LEGAL STATUS		
Holdings operated by:	Number of holdings	
Civil Persons	59 280	-
Other	2 430	-

TENURE OF AGRICULTURAL LAND		
		Agricultural area (ha)
Total		1 393 780
Owned		445 170
Rented		937 260
Other forms of tenure		11 350

HOLDERS (INDIVIDUALS) BY SEX		
	Number of holders	
Total	59 280	-
Male	50 380	-
Female	8 900	-

HOLDERS (INDIVIDUALS) BY AGE		
	Number of holders	
Total	59 280	-
< 35 years of age	6 640	-
35 to 44	14 550	-
45 to 54	13 660	-
55 to 64	12 690	-
65 >	11 740	-

HOLDERS AND MEMBERS OF THEIR HOUSEHOLD ENGAGED IN AGRICULTURAL WORK ON THE HOLDING		
	Number of persons	
Total	95 010	-
Male	61 600	-
Female	33 410	-
Of which, full time: Total	45 860	-
Male	35 730	-
Female	10 130	-

HIRED PERMANENT WORKERS		
	Number of workers	
Total	12 140	-
Of which, full time:	7 030	-

LAND USE		
	Number of holdings	Area (ha)
Total land	61 710	1 426 780
Agricultural land	-	1 393 780
Cropland	-	886 820
Arable land	48 360	866 080
Permanent crops	3 640	20 740
Permanent mead./pastures	43 850	506 960
Wood / forest land	1 360	4 290
All other land	-	28 710

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Soft wheat	22 780	213 140
Rye	680	1 100
Barley	10 680	48 570
Oats	2 800	5 340
Maize	6 410	35 780
Dry pulses	480	2 210
Potatoes	14 980	65 840
Sugarbeets	14 060	90 860
Industrial plants	5 230	38 350
Tobacco	250	390
Hops	60	260
Rapeseed and Turnip	1 080	7 720
Vegetables (grown in the open)	7 930	35 970

LIVESTOCK		
	Holdings reporting	Number of head
Cattle, total	38 370	3 041 570
of which: dairy cows	18 190	615 860
Sheep	4 600	160 450
Goats	950	16 250
Pigs	10 230	7 368 540
Chickens, total	-	39 920 000
Broilers	1 610	24 500 000
Laying hens	5 460	15 420 000

MACHINERY		
	Holdings reporting use	Units
Tractors belonging to the holding (owned)	46 230	92 410
Tractors not belonging to the holding	2 280	-

# BHUTAN - Agricultural Census 2000 - Explanatory Notes

## Historical outline

The mandate for generation of the Renewable Natural Resource (RNR) statistics was decentralized to the Ministry of Agriculture in 1998. Since then, the Ministry has attempted two Renewable Natural Resources surveys. The first survey based on 10 percent sample was carried out in 1999 and the next one in 2000.

## Organization

An Agricultural Census Steering Committee was established to guide the implementation of the census, comprised by the Heads of the Departments of the Ministry of Home Affairs and the Ministry of Trade and Industry. A Census Management Unit was created. The Head of the Statistics Unit along with four other Information Officers representing the three technical departments formed the core group.

## Enumeration period

The enumeration took place from 21 May to 8 June 2002.

## Reference date/period

The reference period was the year 2000.

## Coverage

The Census was conducted in the whole country including kitchen gardens, but the achieved coverage was only 87 percent. Non-response was on account of seasonal migration, and being away on pilgrimage, business trip etc..

## Frame

The RNR survey (Agricultural Census) 2000 is also expected to result in an improvement of the sample frame for the annual RNR survey.

## Method

The Census was complete enumeration with no stratification adopted. Enumerators collected information from households, considered as the ultimate census units, through a set of structured questionnaires, by direct interview. Enumeration was conducted in each one of the 20 districts (*dzongkhag*) in which the country is administratively subdivided: once a *dzongkhag* was covered, the enumerators moved to the next until the entire enumeration was completed. Second round of enumeration was necessary to improve the response rate by covering the absentees during the first round.

## Data source

Renewable Natural Resources Statistics 2000, (Volume I). Ministry of Agriculture, Royal Government of Bhutan, Thimphu, Bhutan.

## Contact

Department of Planning, Ministry of Finance, Post Box 127, Thimphu, Bhutan. Tel.: (+975) 2 325 192, (+975) 2 325 850; Fax: (+975) 2 322 928.

## Website

<http://www.dop.gov.bt/>

## BHUTAN - Agricultural Census 2000 - Main Results

<b>AGRICULTURAL AREA OF HOLDINGS</b>		
		Agricultural area (ha)
Total	-	105 938

<b>TEMPORARY CROPS</b>		
		Area (ha)
Rice	-	19 145
Maize	-	31 138
Wheat	-	4 688
Barley	-	1 498
Millet	-	6 166
Buckwheat	-	3 528
Potatoes	-	3 122
Radish	-	779
Turnip	-	349

<b>PERMANENT CROPS</b>		
	Number of trees/ plants	of which: of productive age
Apples	368 388	196 479
Oranges	1 761 005	906 703
Walnuts	36 729	5 458
Plums	8 922	5 343
Pears	12 580	8 028
Peaches	29 439	20 657
Areca nut	357 469	142 227
Guavas	26 927	17 950

<b>LIVESTOCK</b>		
		Number of head
Cattle	-	320 509
Buffaloes	-	1 800
Yak	-	34 928
Horses	-	23 329
Mules	-	4 273
Asses	-	285
Sheep	-	22 880
Goats	-	31 328
Pigs	-	41 401
Poultry	-	230 723

# BOTSWANA - Agricultural Census 2004 - Explanatory Notes

## Historical outline

The 2004 Botswana Agricultural Census (2004 BAC) was the third census of agriculture in the country. Since 1967, annual agricultural sample surveys have been providing agricultural statistics. The first livestock census was carried out in 1971, while two agricultural censuses, covering both crops and livestock, were conducted in 1982 and 1993.

## Organization

The 2004 BAC was under the responsibility of the Central Statistics Office (CSO)- Ministry of Finance and Development Planning (MFDP). The Agricultural Statistics Unit (ASU) of CSO, jointly with the Division of Agricultural Planning and Statistics in the Ministry of Agriculture (MOA) carried out the census operations. 43 teams, consisting of three enumerators and one field supervisor each were deployed in the Agricultural Districts of the six Agricultural Regions into which the country was divided.

## Enumeration period

The Survey consisted of three phases: the first and second phases (January to June and July to September 2004), investigated the Traditional (Subsistence) Sector, while the third, lasting from November to December 2004, was dedicated to enumeration of the Commercial Sector.

## Reference date/period

For structural data: the day of enumeration. For crops: the agricultural season, consisting of the planting season (October to February) and the harvesting season (May to August). For livestock: the 12 month period prior to the enumeration day.

## Definition

Holding is an economic unit of agricultural production under single management, comprising total land area, cultivated or under fallow, and livestock owned, managed, rented or operated by the holder. Pieces of land located inside or outside the selected blocks, in one or more separated areas, but inside the same Agricultural District, are considered part of the holding providing they share the same production means.

## Coverage

The Census covered the entire country. The 2004 BAC covered all agricultural holdings of both the Traditional and the Commercial Sector.

## Frame

- **The Sampling Frame for the Traditional (Subsistence) Sector** consisted of 3 112 Enumeration Areas (EAs) obtained from the 4165 EAs of the 2001 Population and Housing Census (2001 PHC) after exclusion of all EAs demarcated for cities, towns, camps, commercial farms and ranches. A total of 1 202 EAs were then selected as Primary Sampling Units (PSUs). The 2004 BAC frame constituted 211 956 agricultural holdings as Secondary Sampling Units (SSU) as enumerated in the 2001 PHC.
- **The Sampling Frame for the Commercial Sector** consisted of a list of freehold, leased and Tribal Grazing Policy Land (TGLP) farms or ranches, obtained from administrative registers..

## Method

A stratified two-stage probability sample design was used for the **Traditional (Subsistence) Sector**. In the first stage, PSUs were selected systematically and with probability proportional to the total number of agricultural holdings (pps) enumerated during 2001 PHC. The second stage consisted of systematic selection of subsistence farmers listed in the selected PSUs. The final sample consisted of 24 040 agricultural holdings. Complete enumeration of holdings was applied for the **Commercial Sector**.

## Data source

Botswana Agricultural Census Report 2004, February 2007. Central Statistics Office, Ministry of Finance and Development Planning (MFDP) Gaborone, Republic of Botswana.

## Contact

Central Statistical Office, Ministry of finance and Development Planning, Private Bag 0024, Gaborone, Botswana.  
Tel.: (+267) 39 505 68; Fax: (+267) 39 560 27; E-mail: csobots@gov.bw.

## Website

<http://www.cso.gov.bw>



# BOTSWANA - Agricultural Census 2004 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area of holdings (ha)
Total	51 264	96 840
Of which without land	23 781	-

HOLDERS BY SEX AND AGE (TRADITIONAL SECTOR)		
	Male	Female
Total	33 114	17 576
12 to 14 years	2	-
15 to 19 years	20	20
20 to 24 years	223	179
25 to 29 years	706	413
30 to 34 years	1 308	634
35 to 39 years	1 929	1 095
40 to 49 years	6 216	34 000
50 to 59 years	8 164	3 822
60 to 64 years	3 878	1 881
65 years and over	10 215	5 956
Age not stated	453	176

EMPLOYMENT IN AGRICULTURE		
	Holdings reporting	Number of workers
Total Hired workers (traditional sector)	9 990	12 885

FARM POPULATION BY AGE		Number of persons
Total		201 177
Under 6 years		32 288
6 to 9 years		18 872
10 to 14 years		24 498
15 to 19 years		19 462
20 to 24 years		18 267
25 to 29 years		12 899
30 to 34 years		10 487
35 to 39 years		8 448
40 to 49 years		16 714
50 to 59 years		14 434
60 to 64 years		6 359
65 years and over		17 680
Age not stated		769

TEMPORARY CROPS		
<b>Maize</b>		
Number of holdings reporting		22 828
Area harvested (ha)		21 187
Production (mt)		4 291
<b>Millet</b>		
Number of holdings reporting		5 011
Area harvested (ha)		2 604
Production (mt)		962
<b>Sorghum</b>		
Number of holdings reporting		16 364
Area harvested (ha)		30 214
Production (mt)		6 095
<b>Edible dry beans/ other pulses</b>		
Number of holdings reporting		18 844
Area harvested (ha)		4 325
Production (mt)		1 093
<b>Groundnuts</b>		
Number of holdings reporting		2 253
Area harvested (ha)		252
Production (mt)		119
<b>Sunflower seed</b>		
Number of holdings reporting		264
Area harvested (ha)		2 830
Production (mt)		479

LIVESTOCK		
	Holdings reporting	Number of head
Cattle, total	33 893	1 305 092
Sheep, total	9 313	144 528
Under 1 year		
Total	-	39 786
Male	-	19 160
Female	-	20 626
1 year and over		
Total	-	104 742
Male	-	23 314
Female	-	81 428
Goats, total	35 093	817 179
Under 1 year		
Total	-	266 085
Male	-	128 158
Female	-	137 927
1 year and over		
Total	-	551 094
Male	-	110 797
Female	-	440 297
Horses	6 675	29 280
Asses	25 512	198 087
Chickens	35 256	463 173
Pigs	253	2 129
Ostriches	39	1 339

# BRAZIL - Agricultural Census 1996 - Explanatory Notes

## Historical outline

Nine agricultural Censuses have been conducted in 1920, 1940, 1950, 1960, 1970, 1975, 1980, 1985 and 1996.

## Organization

The Brazilian Institute of Geography and Statistics (IBGE) is responsible for planning and conducting the Agricultural Censuses, as well as for analysis and dissemination of data. Data are collected through 7 Regional Departments, 27 Divisions (one for each Province) and 526 Agencies responsible for all operations, from collection to dissemination of data, including the selection and training of Supervisors and Enumerators. Supervision is also provided by the Department of Agricultural and Livestock Statistics (DEAGRO). The staff involved consisted of 3 000 IBGE employees, 10 000 supervisors and 50 000 enumerators.

## Enumeration period

Data were collected during the period of about 80 days (August to half October 1996).

## Reference date/period

Data on production refer to the period 1 August 1995 to 31 July 1996. Data on ownership, area and employment refer to 31 December 1995. Data on livestock, permanent workers and forestry refer to 31 July 1996.

## Definition

The definition of holding matches with the one suggested in the FAO Programme for the World Census of Agriculture (WCA) 2000.

## Coverage

The census covered the entire country. Rural and Urban areas were both included. Forest holdings were excluded. Holdings consisting of family gardens only were also excluded.

## Frame

The Municipalities were divided into Enumeration Areas (EAs) defined using an adequate cartography. Each EA included an average of 200 households (or 75 agricultural holdings) in rural areas, and 300 households in urban areas.

## Method

Complete enumeration of all holdings was carried out, using direct interview method. On average, each enumerator made 3 interviews a day, spending about 25 days per EA. In some Regions, due to difficulties to recruit qualified personnel, some enumerators collected data in two or more EAs. Data were collected for 27 Provinces, including the Federal District of Brasilia.

## Data source

Censo Agropecuario 1996, Tomo I. Instituto Brasileiro de Geografia e Estadística.

## Contact

Fundacao Instituto Brasileiro de Geografia e Estadística (IBGE), Diretoria de Pesquisa (DPE) Av. Republica do Chile 500/10, CEP 20.031, 170 Rio de Janeiro, Brazil. Tel.: (+55) 21 424 747; E-mail: [ibge@ibge.gov.br](mailto:ibge@ibge.gov.br).

## Website

<http://www.ibge.gov.br/home/default.php>

# BRAZIL - Agricultural Census 1996 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	4 859 865	353 611 246

NUMBER AND AREA OF HOLDINGS BY SIZE		
	Number of holdings	Area (ha)
Total	4 859 865	353 611 246
Under 1 ha	512 032	280 956
1 and under 2 ha	471 298	637 186
2 and under 5 ha	796 723	2 543 527
5 and under 10 ha	622 320	4 420 526
10 and under 20 ha	701 417	9 799 204
20 and under 50 ha	814 695	25 438 629
50 and under 100 ha	400 375	27 455 753
100 and under 200 ha	246 314	32 919 190
200 and under 500 ha	165 243	50 436 030
500 and under 1 000 ha	58 407	40 186 297
1 000 ha and over	49 359	159 493 948
Not classified by size	21 682	-

LEGAL STATUS		
	Number of holdings	Area (ha)
Total	4 859 865	353 611 246
Civil person	4 713 491	294 512 249
Corporation	133 563	56 382 189
Cooperative	1 143	191 022
Government	7 797	2 135 299
Other	3 871	390 487

TENURE OF LAND		
	Number of holdings	Area (ha)
Total	4 859 865	353 611 246
Owned	3 604 343	331 654 891
Rented	545 812	11 823 529
Other forms of tenure	709 710	10 132 826

HOLDER'S HOUSEHOLD MEMBERS > 14 YEARS BY SEX		
	Number of holders	
Total	23 179 212	-
Male	12 660 737	-
Female	10 518 415	-

HOLDERS AND HOUSEHOLD MEMBERS ENGAGED MAINLY IN AGRICULTURE		
	Number of persons	
Total	13 607 879	-
Male	8 416 879	-
Female	5 191 000	-

HIRED PERMANENT WORKERS		
	Number of workers	
Total	4 323 011	-
Male	3 561 632	-
Female	761 379	-

LAND USE		
	Number of holdings	Area (ha)
Total land	-	353 611 246
Agricultural land	-	227 804 956
Cropland	-	50 104 484
Arable land	-	42 562 858
Permanent crops	1 532 854	7 541 626
Permanent mead./pastures	-	177 700 472
Wood / forest land	-	94 293 598
All other land	-	31 512 692

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Wheat	63 916	893 555
Rice	927 619	2 977 019
Maize	2 539 892	10 602 850
Soybeans	242 999	9 479 893
Sugarcane	377 207	4 216 427
Edible dry beans	-	4 085 523
Cassava (manioc)	1 159 430	1 233 138
Cotton	88 749	619 627

PERMANENT CROPS		
	Holdings reporting	Area (ha)
Oranges	826 875	946 886
Tangerines	429 259	52 202
Mangoes	296 624	63 546
Coffee	368 961	1 812 250
Cocoa	77 207	679 778
Grapes	137 979	56 370
Coconuts	224 169	138 601
Cashew nuts	318 827	538 221
Sisal	5 215	50 534
Rubber	6 283	78 940

LIVESTOCK		
	Holdings reporting	Number of head
Cattle	2 698 197	153 058 275
Pigs	2 007 915	27 811 244
Sheep	450 852	13 954 555
Goats	345 906	6 590 646
Buffaloes	13 117	834 922
Horses	1 618 708	5 565 697
Mules	2 007 945	27 811 244
Asses	575 916	1 105 796
Chickens	3 163 914	718 535 000
Ducks and Geese	-	4 593 000
Turkeys	-	6 774 000
Rabbits	20 354	284 936
Quails	-	5 494 000

# CANADA - Agricultural Census 2001 - Explanatory Notes

## Historical outline

The British North America (BNA) Act of 1867 determined that a census would be conducted every 10 years starting in 1871. However, rapid expansion in Western Canada at the turn of the last century made a more frequent census necessary. A separate census was conducted every five years in Manitoba beginning 1896, and in Alberta and Saskatchewan beginning in 1906. By 1956, rapid economic growth created the need for both demographic and agricultural information at more frequent intervals. In 1956 the five-year agricultural census was extended to the entire country, and simultaneously undertaken with the Census of Population. Canada participated in all decennial World Censuses of Agriculture promoted by FAO, beginning with the one carried out in 1931, up to the most recent, undertaken in 2001, to which data presented here refer.

## Organization

Periodic censuses of agriculture and population are undertaken by the national statistics agency called Statistics Canada. Statistics Canada is made up of several Divisions, of which the Agriculture Division deals exclusively with the collection and publication of agricultural statistics.

## Enumeration period

The census day was the 15 May 2001.

## Reference date/period

Data on holder, holding, land use, livestock and machinery refer to the day of enumeration, while data on crops, employment, use of fertilizers and pesticides, refer to the 12 months preceding the census.

## Definition

In 2001 a census farm was defined as an agricultural operation that produces at least one of the following products intended for sale:

- Crops (hay, field crops, fruit or nut trees, berries or grapes, vegetables, seed);
- Livestock (cattle, pigs, sheep, horses, game animals, other livestock);
- Poultry (hens, chickens, turkeys, chicks, game birds, other poultry);
- Animal products (milk or cream, eggs, wool, furs, meat);
- Other agricultural products (Christmas trees, greenhouse or nursery products, mushrooms, sod, honey, maple syrup products).

## Coverage

The Census of Agriculture 2001 covered all census farms in Canada.

## Frame

The frame was based on the Statistics Canada's Farm Register, which is a regularly updated and provides a listing of farms in Canada.

## Method

The Agricultural Census was conducted jointly with the Population Census. The enumerators visited each household and left a Population Census Questionnaire; an Agricultural Census Questionnaire was also dropped off if anyone in the household operated a farm. Once completed the questionnaire, the respondents were asked to return them by mail for editing. If it was determined that a questionnaire had not been received, or if data were missing, a follow-up was conducted by telephone or by personal visit. Once the questionnaires were received at head office, they were registered, electronically scanned and the data automatically captured from the image using Intelligent Character Recognition technology (ICR).

## Data source

Agriculture Census 2001. Statistics Canada.

## Contact

Statistics Canada, Statistical Reference Centre (National Capital Region) H. Coats Building, Lobby Holland Avenue, 150 Tunney's Pasture Driveway, Ottawa, Ontario K1A0T6. Tel.: (+1) 613 951 8116; Fax: (+1) 613 951 0581; E-mail: [infostats@statcan.gc.ca](mailto:infostats@statcan.gc.ca).

## Website

<http://www.statcan.ca>

# CANADA - Agricultural Census 2001 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	246 923	67 503 924

TENURE OF LAND		
	Number of holdings	Area (ha)
Total	-	67 503 924
Owned	235 131	42 266 632
Rented	103 484	25 237 292

HIRED PERMANENT WORKERS		
	Number of holdings reporting	
Total	103 280	

LAND USE		
	Number of holdings	Area (ha)
All land	246 923	67 503 924
Land under crops	-	36 395 151
All other land	-	31 108 773

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Wheat, total	72 778	10 860 220
Soft wheat	57 811	8 301 605
Durum wheat	13 226	2 136 485
Alfalfa	90 690	4 504 042
Barley	60 467	4 696 911
Oats	45 817	1 890 131
Maize	27 842	1 299 506
Maize for silage	15 815	235 962
Rapeseed (colza)	33 283	3 782 989
Hay and fodder crops	65 014	2 810 386
Vegetables	9 824	133 854
Sweet corn	3 637	35 490
Green peas	1 903	17 455
Green or wax beans	2 302	12 141
Flaxseed	9 467	666 673
Soybeans	24 729	1 082 547
Sunflowerseed	935	70 561
Mustard seed	2 018	162 176
Potatoes	3 887	169 475
Lentils	5 891	703 800
Canary seed	2 168	166 529
Edible dry peas	14 324	1 340 431
Edible dry beans	7 205	663 031

PERMANENT CROPS		
	Holdings reporting	Area (ha)
Apples	4 690	2 284
Blueberries	25 825	43 982
Grapes	1 444	10 589

LIVESTOCK		
	Holdings reporting	Number of head
Cattle		
Total	122 066	15 551 449
<1 year	110 397	5 203 770
1 year >	-	10 347 679
Male	-	1 991 318
Female	-	8 356 361
Sheep	13 232	1 262 448
Goats	7 706	182 851
Pigs	15 472	13 958 772
Wild boars	505	33 131
Horses	53 925	460 569
Bison	145	15 346
Elks	1 172	74 478
Llamas/Alpacas	3 190	25 782
Deer	809	53 258
minks	218	1 349 412
foxes	1 887	145 094
Rabbits	1 859	255 762
Chickens	26 484	126 159 529
Turkeys	4 176	8 115 942
Other fowls	7 456	5 311 918

# CAPE VERDE - Agricultural Census 2004 - Explanatory Notes

## Historical outline

The first Census of Agriculture in Cape Verde was undertaken in 1963. The second was carried out in 1978, while the third was conducted in 1988. Consequently, the 2004 General Census of Agriculture (RGA) to which data here presented refer, is the fourth ever conducted in the country.

## Organization

At the central level, the Ministry of Environment Agriculture and Fisheries (MAAP), was responsible for the organization of the RGA. The MAAP executed the census through its Studies and Planning Office (GEP) which was the office responsible for the generation of Special Statistics (OPES) in collaboration with the National Institute of Statistics (INE). INE is the responsible office for technical co-ordination of official statistical operations in the context of the National Statistical System (SEN). The peripheral organizational structure of the RGA consisted of census offices at regional level called "Célula Regional do Recenseamento General de Agricultura". Technical and financial assistance for the census was provided by:

- the Food and Agriculture Organization of the United Nations (FAO) in the preparatory phase of the census lasting from 1999 to 2001,
- the Government of Sweden through the Swedish Bureau of Statistics in the central phase of the census, and
- the Government of Italy, through the National Statistical Office (ISTAT) during the phase after the census to develop a Permanent Statistical System in the country.

About 298 supervisors, controllers and enumerators carried out the field work for the census.

## Enumeration period

Data were collected during the period 3 May to 31 July 2004.

## Reference period

For the majority of census items the reference period was the agricultural year 2003/04, i.e. from 1 May 2003 to 30 April 2004. For census items like number of livestock, holding characteristics and farm population the reference time was the day of the enumerator's visit.

## Definition

- **Agricultural holding** was the statistical unit of the census – managed either by an agricultural household or a non-household entity. Non-household holdings are those managed by cooperatives, collectives, government holdings and private corporations.
- **Agricultural Holder** was defined as the person who has the moral and financial responsibility of carrying out the agricultural operations and takes the major decisions regarding use of sources.

## Coverage

The General Census of Agriculture 2004 was designed to cover both rural and urban areas all over Cape Verde Islands.

## Frame

In order to build the census frame, maps of census cartography were provided by the National Statistics Institute (INE). A list of households prepared for the Population and Housing General Census conducted in 2000 was also used to prepare the RGA frame.

## Method

Complete enumeration of all holdings was carried out. Data were collected by enumerators through direct interview.

## Data source

Recenseamento Geral da Agricultura 2004, Resultados Definitivos. Ministério do Ambiente, Agricultura e Pescas. República de Cabo Verde.

## Contact

Instituto Nacional di Estadística, Av. Amílcar Cabral, 115, CP 116, Plateau Praia, República de Cabo Verde.  
Tel.: (+238) 2 613 827; Fax: (+238) 2 611 656; E-mail: [inecv@ine.gov.cv](mailto:inecv@ine.gov.cv).

## Website

<http://www.ine.cv>

# CAPE VERDE - Agricultural Census 2004 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	44 450	44 359

AGRICULTURAL AREA OF HOLDINGS BY SIZE		
		Area (ha)
Total	-	44 359
Under 0.1 ha	-	311
0.1 and under 0.5 ha	-	15 961
0.5 < 1 ha	-	15 254
1 < 2 ha	-	7 936
2 ha and over	-	4 897

FRAGMENTATION		
	Number of parcels	
Total	85 651	-

HOLDERS BY SEX		
	Number of holders	
Total	44 450	-
Male	21 989	-
Female	22 461	-

HOLDER'S HOUSEHOLD MEMBERS BY SEX		
	Number of persons	
Total	222 254	-
Male	106 031	-
Female	116 223	-

EMPLOYMENT IN AGRICULTURE		
	Number of persons	
Holder's household members working on the holding	68 484	-
Male	34 115	-
Female	34 369	-
Hired permanent workers	1 823	-
Male	1 188	-
Female	635	-
Hired temporary workers	25 689	-
Male	17 190	-
Female	8499	-

TEMPORARY CROPS		
	Number of holdings reporting	
Millet	33 895	-

PERMANENT CROPS		
	Number of trees	
	In compact plantation	Scattered (productive age)
Avocados	67	1 151
Bananas	492 113	85 999
Breadfruit	2 102	1 056
Coconut	370	4 612
Coffee	97 479	148 967
Date-palms	-	1 809
Figs	-	2 133
Grapes	1 518	81 051
Guava	254	10 981
Jaca	-	113
Lemons	644	2 237
Mangoes	601	25 457
Oranges	115	3 909
Papaya	18 598	38 061
Peaches	-	312
Quinces	1 508	8 752
Sorrel	-	2 562

LIVESTOCK		
		Number of head
Cattle	-	22 306
Under 1 year, total	-	4 147
1 - 2 years	-	-
Total	-	5 830
Male	-	2 417
Female	-	3 413
2 years and over	-	-
Total	-	12 329
Male	-	1 929
Female	-	10 400
Sheep	-	10 400
Goats	-	148 094
Pigs	-	77 316
Horses/Mules/Asses	-	11 302
Poultry(excluding Ducks/Turkeys)	-	327 562
Ducks/Turkeys	-	15 558
Rabbits	-	4 458

MACHINERY		
	Number of units	
Tractors	56	-
Motor-pumps	818	-
Electric pumps	218	-
Other pumps	104	-
Dusters	770	-
Fertilizer distributors	225	-

# CHILE - Agricultural Census 1997 - Explanatory Notes

## Historical outline

The previous censuses were organized in 1930, 1936, 1955 and 1976.

## Organization

The "Instituto Nacional de Estadísticas" (INE) is the responsible office for the organization of the Agricultural Census. In the organization of the census Regional Commissions, *ad-hoc* created, were involved.

## Enumeration period

Total country was divided into 12 Statistical Regions. Data were collected in Statistical Regions II to X from March 31 to May 30, 1997, while in Statistical Regions I, XI, and XII; data were collected during the first 6 months of 1996.

## Reference date/period

The inventory data refer to the day of enumeration. Other data refer to the period May 1996 to April 1997.

## Definition

Agricultural holding is an agricultural unit having at least one of the following:

- 0.1 ha of permanent pastures;
- 0.1 ha under temporary or permanent crops;
- 0.1 ha of wood plantations;
- 5.0 ha of wood or forest land;
- 2 large livestock with more than 2 years of age;
- 4 large livestock with less than 2 years of age;
- 10 small livestock;
- 50 geese, ducks, rabbits;
- 100 chickens;
- 10 beehives.

## Coverage

The agricultural census covered the whole country. Information obtained from statistical regions I, XI, and XII during the previous year was used for preparing complete national estimates.

## Frame

The list of holdings to be enumerated was prepared using information available in "Servicio de Impuestos Internos" integrated with regional investigation and the cartography of INE, used in the "1992 Censo de Poblacion y Vivienda". Each enumerator was assigned an Enumeration District, or a part of it, consisting of 300 holdings or more.

## Method

The agricultural census was based on complete enumeration.

## Data source

Censo Nacional Agropecuario 1997 (VI), Total Nacional. Instituto Nacional de Estadísticas (INE), Chile.

## Contact

Instituto Nacional de Estadística (INE), Avenida Presidente Bulnes 418, Santiago de Chile.  
Tel.: (+56) 2 366 7777; Fax: (+56) 2 366 671 2169; E-mail: inesdadm@reuna.cl.

## Website

[http://www.ine.cl/canales/chile\\_estadistico/home.php](http://www.ine.cl/canales/chile_estadistico/home.php)



# CHILE - Agricultural Census 1997 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	316 492	26 502 363

NUMBER AND AREA OF HOLDINGS BY SIZE		
	Number of holdings	Area (ha)
Total	316 492	26 502 363
Holdings without land	4 190	-
Under 1 ha	42 105	20 944
1 and under 5 ha	88 124	217 361
5 and under 10 ha	50 176	355 137
10 and under 20 ha	47 936	672 098
20 and under 50 ha	43 751	1 363 334
50 and under 100 ha	18 771	1 290 506
100 and under 200 ha	9 855	1 356 763
200 and under 500 ha	6 475	1 985 089
500 and under 1000 ha	2 355	1 625 089
1000 ha and over	2 754	17 616 042

FRAGMENTATION		
	Number of holdings	Parcels
Total	312 302	-
Holdings reporting:		
1 parcel	219 344	-
2 - 3 parcels	72 680	-
4 - 5 parcels	13 207	-
6 - 9 parcels	5 510	-
10 parcels and more	1 561	-
Number of parcels	-	504 940

LEGAL STATUS		
	Number of holdings	Area (ha)
Total	316 492	26 502 363
Civil person	308 006	16 541 088
Corporation	6 655	5 118 134
Government	717	1 904 041
Other	1 114	2 939 100

TENURE OF LAND		
	Number of holdings	Area (ha)
Total	312 302	26 502 363
Under one form of tenure	276 816	22 630 362
Owned	234 803	21 266 431
Rented	13 946	793 578
Under other single forms	28 067	570 353
Under more than one form of t.	35 486	3 872 001

HOLDERS AND HOUSEHOLD MEMBERS BY SEX AND AGE		
	Number of persons	
Total	833 940	-
<15 years	214 685	-
15 >		
Total	619 255	-
Male	323 817	-
Female	295 438	-

HIRED PERMANENT WORKERS		
	Number of workers	
Total	520 823	-
Male	447 375	-
Female	73 448	-

LAND USE		
		Area (ha)
All land	-	26 502 363
Agricultural land	-	15 222 234
Cropland	-	2 297 275
Arable land	-	896 489
Permanent crops	-	1 400 786
Permanent mead./pastures	-	12 924 959
Wood or forest land	-	5 739 769
All other land	-	5 540 360

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Wheat	89 299	398 642
Rice	2 537	25 748
Maize	26 165	86 522
Barley	2 436	21 945
Potatoes	91 222	80 685
Tomatoes	5 475	17 570
Sugar beets	7 886	41 697
Oats	36 420	104 369

PERMANENT CROPS		
	Holdings reporting	Area (ha)
Apples	5 322	39 901
Pears	1 453	11 882
Peaches	4 438	11 827
Grapes	3 160	43 854
Oranges	2 434	7 294
Pineapples	16	14
Plantains	19	27
Lemons	3 551	7 663
Plums	1 265	12 398

LIVESTOCK		
	Holdings reporting	Number of head
Cattle	160 218	4 098 438
Pigs	105 665	1 716 881
Sheep	90 808	3 695 062
Goats	22 078	727 310
Horses	121 122	408 186
Mules	3 625	8 659
Asses	7 579	22 213
Chickens	195 852	39 247 593
Ducks	42 706	309 628
Geese	49 999	358 965
Turkeys	40 182	1 777 906
Alpacas	936	45 244
Llamas	1 600	79 294

# CHINA - Agricultural Census 1997 - Explanatory Notes

## Historical outline

The Agricultural Census 1997 of China was the first ever undertaken in the country.

## Organization

The responsible office for the Agricultural Census is the "National Agricultural Census Office of State Council". About 7.2 millions field workers, including enumerators and supervisors, carried out census.

## Enumeration period

Data were collected during the period 1 – 31 January 1997.

## Reference date/period

Data on inventory items refer to the day of enumeration, while all other data refer to the calendar year 1996.

## Definition

- **Rural household** refers to households living in rural areas for a long time and engaged in production and operational activities.
- **Agricultural household** refers to rural household whose members are either engaged in purely agricultural activities, or in a combination of agricultural and non-agricultural activities.  
Agricultural households could be:
  - Purely agricultural, if their household members are fully engaged in agricultural activities.
  - Mainly agricultural, if their household members are engaged mainly in agricultural activities.
  - Mainly non-agricultural, if their household members are engaged mainly in non-agricultural activities.If the household members are engaged 50 percent in agricultural and 50 percent in non-agricultural activities, the category is defined by the household's income.
- **Non-agricultural household** refers to a rural household whose household members are fully engaged in non-agricultural activities.

## Coverage

The census covered all agricultural holdings in rural areas.

## Frame

The frame consisted of the list of households as obtained from the Population Census. An Enumeration Area includes about 50 households.

## Method

The census was undertaken on a complete enumeration basis. Data were collected through personal interview. Six different questionnaires were used:

- Questionnaire for Rural Household Holdings (A601);
- Questionnaire for Non-Household Agricultural Holdings (A602);
- Questionnaire for Administrative Villages (A603);
- Questionnaire for Townships and Towns (A604);
- Card for non-agricultural town and township enterprises (A605);
- Card for agricultural land (A606).

## Data source

Abstract of the First National Agricultural Census in China, Food and Agricultural Statistics Centre, Beijing, 1999.

## Contact

National Bureau of Statistics of China, No. 57, Yuetan Nanjie, Sanlihe, Xicheng District, Beijing 100826.

Fax: (+86) 10 687 820 00; Email: info@stats.gov.cn.

## Website

<http://www.stats.gov.cn/english/index.htm>

# CHINA - Agricultural Census 1997 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	193 445 894	130 039 200

NUMBER AND AREA OF HOLDINGS BY SIZE		
	Number of holdings	
Total	193 446 000	-
Under 0.2 ha	58 597 000	-
0.2 and under 0.6 ha	102 423 000	-
0.6 and under 1 ha	18 877 000	-
1 and under 1.4 ha	6 020 000	-
1.4 and under 2 ha	3 477 000	-
2 and under 3.4 ha	2 841 000	-
3.4 and under 6.6 ha	750 000	-
6.6 and under 10 ha	75 000	-
10 and under 13.4 ha	17 000	-
13.4 ha and over	369 000	-

LEGAL STATUS		
	Number of holdings	
Total	193 445 894	
Civil person	193 088 000	-
Corporation	8 700	-
Cooperative	59 700	-
Government	10 300	-
Other	21 394	-

HOUSEHOLD MEMBERS BY SEX		
	Number of persons	
Total	799 673 000	-
Male	413 142 000	-
Female	386 531 000	-

HOLDERS AND MEMBERS OF THEIR HOUSEHOLDS ENGAGED MAINLY IN AGRICULTURE		
	Number of persons	
Total	518 961 350	-
Male	272 181 013	-
Female	246 780 337	-

HIRED PERMANENT WORKERS		
	Number of workers	
Total	6 693 648	-
Male	4 214 375	-
Female	2 479 273	-

TEMPORARY CROPS		
		Area (ha)
Wheat	-	28 210 600
Rice	-	27 954 300
Maize	-	24 364 200
Rapeseed	-	449 100
Cotton	-	3 143 400
Sugar crop	-	970 100
Tobacco	-	1 281 600
Melons	-	616 900
Groundnuts	-	2 632 500

LIVESTOCK		
	Holdings reporting	Number of head
Cattle	39 489 810	70 213 955
Pigs	13 030 486	335 344 414
Sheep	6 886 647	102 145 030
Goats	21 776 374	114 667 599
Buffaloes	15 844 784	20 865 755
Horses	5 181 085	8 069 585
Mules	4 132 882	4 535 792
Asses	7 082 929	8 597 818
Yaks	579 206	12 251 434
Camels	63 481	322 447

# COLOMBIA - Agricultural Census 2001 - Explanatory Notes

## Historical outline

Censuses of Agriculture were successfully undertaken in the country in 1960 and 1970. The First National Agricultural Sample Survey was conducted in 1988. Data presented here refer to the latest Agricultural Sample Survey conducted in Colombia, i.e. the "Encuesta Nacional Agropecuaria 2001".

## Organization

The National Agricultural Survey was conducted by the National Administrative Department of Statistics (DANE) in agreement with the Ministry of Agriculture and Rural Development, which also provided financial assistance to the project, and in collaboration with the National Department of Planning. Staffs consisting of 809 technicians and agriculture experts were involved in the field work operating as coordinators, supervisors, enumerators and coding experts.

## Enumeration period

The field work was carried out between June 2001 and April 2002.

## Reference date/period

Data on land use, temporary and permanent crops, scattered fruit trees, meadows and pastures, number of livestock, number of PSM (Pedazo de Segmento de Muestreo), refer to the day of enumeration. Area cultivated, crop production and yields refer to the calendar year 1 January to 31 December 2001. Data on milk production refer to the day preceding the interview.

## Definition

- **Primary Sample Unit (UPM):** is defined as a piece of land identified by natural boundaries, generally reported on maps, aerial photos or satellite images, into which the total area to be investigated is divided, and used to build the area frame.
- **Segmento Muestral (SM):** is a little piece of land inside the UPM.
- **Pedazo de Segmento de Muestreo (PSM):** is a piece of land inside the SM corresponding to the entire agricultural holding or to a part of it.
- **Finca:** Technical and economic unit, located within the boundaries of a Municipality, under single management.
- **Lote:** is a plot planted with a single crop or a combination of crops or temporarily fallow.
- **Potrero:** plot with grass, pastures or forages for the cattle.

## Coverage

The Encuesta Nacional Agropecuaria covered the rural area of the country, administratively consisting of 32 Departments and 1 096 Municipalities. An area of about 50.7 million hectares was covered, with the exclusion of urban and peri-urban areas and the non-agricultural regions.

## Frame

An Area frame of UPM and a frame based on lists of holdings geographically identified, kept in the municipality administrative registers, were used.

## Method

*The Survey methodology was based on a combination of the following statistical methods:*

- Complete Enumeration for special crops;
- Sampling method, consisting, in turn, of three different types: Area Cluster; Element Sampling; A combination of the two;
- Use of Administrative Registers.

Data for 1) and 2) were collected through direct interview; objective measurements were carried out. 5 787 segments out of the total sample of 6 216 (93.1 percent), were covered.

## Data source

Encuesta Nacional Agropecuaria, Resultados 2001, Ministerio de Agricultura y Desarrollo Rural, Departamento Administrativo Nacional de Estadística (DANE), República de Colombia.

## Contact

Ministerio de Agricultura y Desarrollo Rural, Departamento Administrativo Nacional de Estadística, (DANE), Avenida Jiménez N 7-65, Bogotá DC República de Colombia. Tel.: (+57) 1 334 1199; E-mail: ena@dane.gov.co.

## Website

<http://www.dane.gov.co>

# COLOMBIA - Agricultural Census 2001 - Main Results

NUMBER AND AREA OF PSMs BY SIZE OF PSM		
	Number of holdings	Area (ha)
Total	2 021 895	50 705 453

NUMBER AND AGRICULTURAL AREA OF PSM BY SIZE		
	Number of holdings	Area (ha)
Total	2 021 895	50 705 453
<1 ha	366 244	191 820
1 - 3 ha	465 025	844 523
3 - 5 ha	236 633	899 925
5 - 10 ha	291 752	2 042 050
10 - 20 ha	225 238	3 127 283
20 - 50 ha	219 912	6 884 453
50 - 100 ha	108 715	7 487 517
100 - 200 ha	55 906	7 566 533
200 - 500 ha	40 797	11 598 122
500 ha >	11 669	10 063 221

LAND USE		
	Number of holdings	Area (ha)
All land	-	50 705 453
Agricultural land	-	41 744 816
Cropland	-	4 135 021
Arable land	-	2 012 961
Permanent crops	-	2 122 060
Permanent mead./pastures	-	37 609 795
Wood / forest land	-	7 678 204
All other land	-	1 282 433

TEMPORARY CROPS		
	Area harvested (ha)	Production (mt)
Barley	4 030	5 625
Beans	69 242	73 392
Broad beans	7 483	18 879
Carrot	7 135	152 529
Cassava	197 342	1 370 572
Cottonseed	39 856	80 633
Maize	498 126	1 068 446
Onions	20 720	364 146
Other vegetables	16 330	159 504
Peas	32 543	74 104
Potatoes	122 755	1 764 505
Rice	463 656	2 556 299
Sorghum	57 269	163 269
Soybeans	23 546	62 619
Tobacco	15 688	26 604
Tomatoes	8 534	157 603
Wheat	21 047	31 793

TEMPORARY CROPS		
	Area harvested (ha)	Production (mt)
Bananas	34 613	1 375 315
Cacao	75 963	25 698
Coffee	762 192	610 630
Mangoes	4 413	35 043
Oil palm	143 899	547 571
Plantains	488 568	2 175 871
Sugarcane	178 569	2 241 559
Total number of scattered trees		Of which: of productive age
Avocados	1 392 096	1 197 977
Guajaba	4 825 713	4 664 202
Oranges	4 313 781	3 920 242
Papaya	600 254	498 978

LIVESTOCK		
	Holdings reporting	Number of head
Cattle		
Total	-	24 789 875
<1 year	-	4 940 886
1-2 years	-	5 479 535
>2 years	-	14 369 454
Male	-	9 263 885
<1 year	-	2 212 164
1-2 years	-	2 750 453
>2 years	-	4 301 268
Female	-	15 525 990
<1 year	-	2 728 722
1-2 years	-	2 729 082
>2 years	-	10 068 186
Pigs		
Total	-	1 935 287
< 6 month	-	1 218 957
6 month and >	-	716 333
Male	-	894 091
< 6 month	-	622 303
6 month and >	-	271 794
Female	-	1 041 196
< 6 month	-	596 654
6 month and >	-	444 539
Sheep		
Total	-	1 044 445
Male	-	327 022
Female	-	717 423
Goats		
Total	-	515 348
Male	-	167 495
Female	-	347 853
Rabbits		
Total	-	298 407
Male	-	115 752
Female	-	182 655
Guinea pigs		
Total	-	922 908
Male	-	218 037
Female	-	704 871
Horses		
Total	-	2 890 844
Male	-	1 602 927
Female	-	1 287 917
Mules		
Total	-	487 194
Male	-	241 476
Female	-	245 718
Asses		
Total	-	266 814
Male	-	160 992
Female	-	105 822
Chickens		33 553 506
Ducks		910 929

# COMOROS - Agricultural Census 2004 - Explanatory Notes

## Historical outline

The Census of Agriculture conducted in the Union of the Comoros in 2004 is the first ever undertaken in the country. Before this, only a survey was conducted, on the structure of the agricultural sector, in 1987.

## Organization

The Comoros Government Bodies involved in the project were the Ministry of Rural Development, Fisheries, Craft and Environment (Ministère du développement rural, de la pêche, de l'artisanat et de l'environnement), and the Statistics Bureau of the General Planning Commission (Commissariat Général au Plan, Direction de la Statistique). The Food and Agriculture Organization of the United Nations (FAO of the UN) provided technical and financial assistance under the Technical Cooperation Programme (TCP) Project TCP/COI/2903 (A): "Appui au Recensement Général de l'Agriculture (RGA)".

## Enumeration period

Information was not available at the time of publication.

## Reference date/period

Information was not available at the time of publication.

## Definition

The agricultural holding was as defined in the FAO Programme for the World Census of Agriculture 2000, viz., an economic unit of agricultural production under single management, comprising all livestock kept and all land used wholly or partly for agricultural production purposes, without regard to title and legal form. It could be managed by civil persons, corporations, collectives, cooperatives or government agencies. It may consist of one or more parcels, if sharing the same production means.

## Coverage

The census covered the whole territory of the Union of the Comoros, i.e. the three islands of Ngazidja, Ndzouany and Mwali.

## Frame

The frame used for the Agricultural Census consisted of a list of all the localities/villages (localités) of the country, updated during the 2003 Census of Population and Dwellings (Recensement Général de la Population et de l'Habitat - RGPH 2003).

## Method

Due to limits in financial and human resources, it was decided to undertake the census by sample. A stratified two-stage sampling design was applied as follows:

- **At the first stage:** the Localities/Villages, classified into three strata, were selected as Primary Sampling Units (PSUs) with probability proportional to size. The sample size consisted of 152 Localities/Villages, (about 50% of the total number of Localities/Villages in the country) selected in the three islands forming the territory of the Comoros as follows: 78 in Ngazidja, 66 in Ndzouani and 8 in Mwali.
- **At the second stage:** 12 agricultural holdings were selected as Secondary Sampling Units (SSUs), with equal probability, from each of the 152 PSUs, for a total of 1 824 agricultural holdings. The enumeration took place in two passages: in the first passage data were collected by enumerators through direct interview, on the demographic and socio-economic characteristics of the agricultural holdings. In the second passage 912 (i.e. a half of the selected SSUs) agricultural holdings were investigated with objective measurements of area of parcels and crop density and yields.

## Data source

Union des Comores, Recensement Général de l'Agriculture 2004 (CD-ROM prepared by Statistician/SAFM, FAO Sub-Regional Office for Southern and Eastern Africa, containing the Preliminary Results of the 2004 General Agricultural Census of Comoros, May 2005).

## Contact

Direction de la Statistique, BP 131, Moroni, the Comores. Tel.: (+269) 74 4234; E-mail: dir.statistique@snpt.km.

## Website

<http://www.fao.org/es/ess>

# COMOROS - Agricultural Census 2004 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Cultivated Area (ha)
Total	52 464	3 570

FRAGMENTATION		
		Number of parcels
Total number of parcels	-	95 695

LEGAL STATUS		
	Number of holdings	Area (ha)
Total number of holdings	52 464	-
Holdings operated by:		-
Civil persons	49 606	-
Cooperatives	737	-
Government	377	-
Others	1 503	-

HOLDERS BY SEX AND AGE		
	Number of holders	
Total	52 464	-
Male	35 369	-
Female	17 094	-
up to 20 years of age	852	-
21 to 39	7 049	-
40 to 60	7 462	-
61 and over	1 731	-

HOLDER'S HOUSEHOLD MEMBERS BY SEX		
	Number of persons	
Total	335 842	-
Male	165 693	-
Female	170 149	-

HOLDER'S HOUSEHOLD MEMBERS BY AGE		
	Number of persons	
Total	335 406	-
Up to 5 years of age	50 448	-
6 to 9	42 003	-
10 to 19	89 337	-
20 to 39	89 118	-
40 to 60	48 991	-
61 and over	15 509	-

EMPLOYMENT		
	Number of persons	
Holder's household members active in agriculture	78 995	-
Permanent paid workers	3 541	-

MAIN PERMANENT CROPS		
Bananas		
Holdings reporting	27 111	-
Area (ha)	1075	-
Production (mt)	43 065	-
Vanilla		
Holdings reporting	5 092	-
Area (ha)	168	-
Production (mt)	22 257	-
Cloves		
Holdings reporting	10 613	-
Area (ha)	170	-
Production (mt)	25 539	-
Mangoes - Production (mt)	24 144	-
Pineapples - Production (mt)	16 525	-
Oranges - Production (mt)	18 095	-
Avocados - Production (mt)	3 240	-
Papaya - Production (mt)	9 547	-
Coconut - Production (mt)	32 119	-
Breadfruit - Production (mt)	28 879	-

TEMPORARY CROPS		
Cassava (Manioc)		
Holdings reporting	27 714	-
Area (ha)	1 071	-
Production (mt)	42 804	-
Yams		
Holdings reporting	3 959	-
Area (ha)	72	-
Production (mt)	19 979	-
Cocoyams (Taro)		
Holdings reporting	5 579	-
Area (ha)	160	-
Production (mt)	19 283	-
Sweet Potatoes		
Holdings reporting	6 095	-
Area (ha)	44	-
Production (mt)	16 688	-
Maize		
Holdings reporting	6 128	-
Area (ha)	720	-
Production (mt)	9 258	-
Potatoes		
Holdings reporting	173	-
Area (ha)	23	-
Production (mt)	1 253	-
Carrots		
Holdings reporting	279	-
Area (ha)	-	-
Production (mt)	837	-
Chili		
Production (mt)	6 825	-
Rice		
Production (mt)	1 145	-
Onions		
Production (mt)	858	-
Ambèrique		
Production (mt)	1 792	-
Vohèm		
Production (mt)	1 787	-
Gingembe		
Production (mt)	3 161	-
Groundnuts		
Production (mt)	2 544	-
Couilliflowers		
Production (mt)	916	-
Lettuce		
Production (mt)	978	-
Cucumbers		
Production (mt)	810	-
Tomatoes		
Production (mt)	5 961	-

LIVESTOCK		Head/Units
Cattle, total		24 513
Male		17 810
Female		6 702
Sheep, total		4 347
Male		2 952
Female		1 395
Goats, total		23 418
Male		16 357
Female		7 061
Asses		246
Chickens		16 533
Ducks		518
Rabbits		469
Bee-hives		90

# COOK ISLANDS - Agricultural Census 2000 - Explanatory Notes

## Historical outline

The 2000 Census of Agriculture and Fisheries (CAF) is the second conducted nationwide in the Cook Islands. The first one was conducted in 1988. There was a previous attempt to conduct an agricultural census in 1975, but the coverage was limited to the island of Rarotonga.

## Organization

The 2000 CAF was jointly undertaken by the Ministry of Agriculture (MOA) and the Statistics Office. A National Agricultural Census Committee was formed, including the Ministry of Agriculture, the Statistics Office, the Ministry of Land Administration, the Ministry of Marine Resources and the FAO Sub-Regional Office (SAPA). A National Project Coordinator was appointed from the MOA to coordinate the activities of the census project. A Census Planning Unit (CPU) was also established, responsible for the preparatory phase, the enumeration, data processing, tabulation, analysis and publication of the census. Financial and technical support was provided by the FAO of the UN. About 110 enumerators were assigned to one or more EAs, and provided with maps and household lists. The supervision was exercised by 30 supervisors.

## Enumeration period

The enumeration period lasted one month, from 13 November to 13 December 2001.

## Reference date/period

Data on household composition and livestock refer to the day of enumeration. Data on labour inputs refer to the month prior to enumeration. Data on agricultural activity, farm details, crops, agricultural income, equipment, livestock disposal and fishing activities, refer to the 12 months prior to enumeration.

## Definition

A household is defined as: Agriculturally Active if it manages at least 0.05 ha of land under garden crops or at least 10 coconuts or other crop trees. An Agriculturally Active household could be either: Subsistence Only, Subsistence with Cash Cropping, Commercial Producer. Minor Agricultural if it manages less than 0.05 ha of land under garden crops or less than 10 coconuts or other crop trees. Non-Agricultural if it is not engaged in crop production.

## Coverage

The 2000 CAF covered all households and holdings in the Cook Islands but excluded institutions and agricultural lands operated by the community or government.

## Frame

The frame used in the 2000 CAF was the listing of households by enumeration area (EA) compiled during the 1996 Census of Population and Dwellings (CPD) and the 1988 Household Income and Expenditures Survey (HIES). During the enumeration these lists were updated. For census purposes, each island was divided into Census Districts (CDs) in turn subdivided into EAs.

## Method

The CPU did a simple pre-test of questionnaires two weeks before the start of the census training. Aside from the regular census questionnaires, the enumerators completed also the Census Household Listing and the Field Sheet for each EA. This was done to update the Listing of Households, to enter the level of agricultural activity of the household (see "definitions") and to record the number of questionnaires used.

## Data source

Census of Agriculture and Fisheries 2000, September 2001. Ministry of Agriculture and Statistics Office, Rarotonga Cook Islands.

## Contact

- Ministry of Agriculture, PO Box 96, Rarotonga, Cook Islands. Tel.: (+682) 287 11. Fax: (+682) 218 81; Email: cimoa@oyster.net.ck.
- Statistics Office, PO Box 41, Rarotonga, Cook Islands. Tel.: (+682) 295 11; Fax: (+682) 215 11; E-mail: info@stats.gov.ck.

## Website

<http://www.stats.gov.ck>



# COOK ISLANDS - Agricultural Census 2000 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	1 721	1 029

NUMBER AND AREA OF HOLDINGS BY SIZE		
	Number of holdings	Area (ha)
Total	1 721	1 029
< 0.1 ha	53	3
0.1 - 0.2 ha	344	35
0.2 - 0.4 ha	491	115
0.4 - 0.8 ha	393	196
0.8 - 1.2 ha	204	179
1.2 - 2 ha	154	219
2 - 4 ha	65	163
4 ha >	17	120

FRAGMENTATION		
	Number of parcels	
Total	3 467	-

TENURE OF LAND		
		Area (ha)
Total	-	1 029
Owned	-	821
Rented	-	194
Under other forms of tenure	-	15

HOLDERS BY AGE		
	Number of holders	
Total	1 700	-
15-19 years of age	18	-
20-39	399	-
40-59	574	-
60>	333	-
not specified	376	-

HIRED WORKERS		
	Number of workers	
Total	46	-
Male	42	-
Female	4	-

LAND USE		
	Number of holdings	Area (ha)
All land	-	1 029
Cropland	-	989
All other land	-	40

TEMPORARY CROPS		
	Area harvested (ha)	Number of trees/plants
Beans	1	112 326
Capsicum	1	31 188
Cassava	43	2 835 856
Chili	-	3 216
European cabbages	4	103 055
Kumara	11	672 979
Lettuce	2	414 524
Melons	10	49 654
Puraka	-	37 987
Taro	71	3 863 216
Tarua	12	1 073 389
Tomatoes	5	214 345

PERMANENT CROPS		
	Area harvested (ha)	Number of trees/plants
Avocados	1	924
Bananas	22	166 536
Breadfruit	3	2 223
Chestnuts	-	758
Coconut	50	43 023
Coffee	13	13 561
Lemons	2	2 757
Mangoes	7	6 554
Nono	26	28 337
Oranges	15	9 609
Pawpaw	16	63 515
Pineapples	4	367 799

LIVESTOCK		
	Holdings reporting	Number of head
Cattle	82	301
Pigs	1 814	15 876
Goats	609	3 595
Horses	29	71
Rabbits	405	1 272
Chickens	590	24 277

# COTE D'IVOIRE - Agricultural Census 2001 - Explanatory Notes

## Historical outline

The 2001 Census of Agriculture is the second ever conducted in the country. The previous National Agricultural Census was carried out in 1974.

## Organization

The sample survey has been organized by the Ministry of Agriculture, Direction of Statistics, Documentation and Information Technology (Ministère de l'Agriculture, Direction des Statistiques, de la Documentation et de l'Informatique). Technical and financial assistance were provided by FAO, the World Bank, the European Union and the Government of the Côte d'Ivoire.

## Enumeration period

The 2001 National Agricultural Census (RNA) was conducted during the period 14 January to 16 August 2002.

## Definition

- **Agricultural holding:** is a household including at least one agricultural holder. Agricultural holdings are grouped as follows:
  1. *Large holdings of the Modern Sector:* satisfying criteria typical of a modern agriculture.
  2. *Large holdings of the Traditional Sector:* having minimum specified area under a specific crop
  3. *Small holdings of the Traditional Sector:* all those not matching the criteria 1) and 2).  
Different methods of enumeration were applied to groups (1) and (2) & (3).
- **Localité:** Could be a town or a village or a settlement.
- **Census District (District de Recensement - DR):** is a "Localité" or part of it, retained in order to include about 1000 inhabitants. DRs were identified during the 1998 Population and Housing Census (RGPH 98) in number of 16023. Those DR including at least one agricultural holding were adopted for the RNA 2001 and called Agricultural Census Districts (District de Recensement Agricole - DRA)
- **Field:** a piece of land in a parcel (block), separated from the rest of the parcel by easily recognizable demarcation lines, like a natural obstacle (hedges, ravines etc), a path or cadastral boundaries. The field can correspond also to the entire parcel (*block*).
- **Parcel:** a field or a portion of the field carrying one culture or an association of cultures (*parcel plot*).
- **Agricultural manager:** the man or woman who, in the household, makes the important decisions concerning the management of the agricultural holding (exploitation agricole). The manager can be or not the head of the household.

## Coverage

The census covered all the 19 Administrative Regions of the country, subdivided in turn into 58 Departments (then used as the 58 strata for stratification). Rural and Urban areas were both covered.

## Frame

During the 1998 Population and Housing Census (RGPH 98), through appropriate questions inserted in the RGPH Form, households reporting such characteristics to be classified as agricultural were identified and listed. The list was subsequently refreshed during the phase of definition of the Agricultural Census Districts.

## Method

Large Farms of the Modern Sector and the Traditional Sector were fully enumerated, while sampling method was applied to the Small Holdings of the Traditional Sector. The sample design applied for the census of traditional farms was a two-stage sample survey, with systematic selection with probabilities proportional to the number of households at first stage and with simple systematic selection at the second stage. Primary sampling unit was Agricultural Census District (DRA) and second stage unit was the household having at least one agricultural holder.

## Data source

Recensement National de l'Agriculture (R.N.A.), Ministère d'Etat, Ministère de l'Agriculture, Direction des Statistiques, de la Documentation et de l'Informatique. République de la Côte d'Ivoire.

## Contact

Institut National de la Statistique, BP V 82 Abidjan, République de Cote d'Ivoire. Tel: (+225) 20 215 863, (+225) 20 212 285; Fax: (+225) 20 210 443; E-mail: rnaci@aviso.ci.

## Website

<http://www.ins.ci>

# COTE D'IVOIRE - Agricultural Census 2001 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Cultivated land (ha)
Total	1117667	4 351 663

NUMBER AND AREA OF HOLDINGS BY SIZE		
	Number of holdings	Cultivated land (ha)
Total	1 117 667	4 351 663
under 0.5 ha	311 608	84 162
0.5 and under 1 ha	158 825	118 321
1 and under 3 ha	249 072	444 702
3 and under 5 ha	125 835	463 745
5 and under 10 ha	148 516	967 115
10 and under 20 ha	91 416	1 178 444
20 ha and over	32 395	1 095 174

TENURE OF LAND (SMALL AND LARGE FARMS OF THE TRADITIONAL SECTOR)		
		Cultivated land (ha)
Total	-	4 162 157
Owned	-	3 877 030
Other forms of tenure	-	285 127

HOLDERS BY SEX		
	Number of holders	
Total	1 117 667	-
Male	1 004 355	-
Female	113 312	-

FARM POPULATION BY SEX		
	Number of holders	
Total	8 238 930	-
Male	4 185 134	-
Female	4 053 796	-

TEMPORARY CROPS		
	Area under crop (ha)	Production (mt)
Cassava (manioc)	269 429	2 086 903
Cotton	296 126	287 118
Cucumber	2 518	-
Eggplant	23 491	-
Fonio	21 699	-
Gourds	13 048	-
Green peas	5 350	-
Groundnuts	77 257	-
Maize	278 680	-
Millet	60 379	-
Okra (gombo)	53 270	-
Potatoes	24 664	-
Rice	340 756	-
Sorghum	58 894	-
Soybeans	649	-
Sugarcane	24 405	-
Taro root	44 859	-
Tobacco	1 889	-
Tomatoes	3 053	-
Yams	515 618	4 579 723

PERMANENT CROPS		
	Area under crop (ha)	Production (mt)
Bananas poyo	21 594	-
Cashew nuts	264 795	88 593
Citrus fruits	38 949	-
Cocoa	1 924 056	1 335 970
Coconut	53 460	-
Coffee	1 039 588	251 620
Ginger	3 242	-
Guavas	9 576	-
Mangoes	58 317	-
Oil palm	213 604	-
Papaya	4 084	-
Passion fruit	31 419	-
Pineapples	29 774	-
Plantains	433 177	-
Rubber	118 550	-

LIVESTOCK		
		Number of head
Cattle		1 135 196
Sheep		901 135
Goats		884 603
Pigs		476 708
Poultry		17 125 712
of which:		
Laying hens		1 648 954

MACHINERY AND EQUIPMENT		
	Number of units	
Dusters	148 768	-
Electric generators	6 302	-
Grain mills	10 443	-
Motor-pumps	2 360	-
Ploughs	64 922	-
Power-tillers	4 360	-
Rice harvesters	2 282	-
Seed drills	26 259	-
Sprayers	81 864	-
Tractors	8 981	-

# CROATIA - Agricultural Census 2003 - Explanatory Notes

## Historical outline

The first Agriculture Census in the Republic of Croatia since independence was conducted in 2003. Previously, a comprehensive and independent full census of agriculture was undertaken in 1960, while in 1969 the census of agriculture was conducted by using the sample method. In 1971, 1981, 1991 and 2001, enumeration of agricultural holdings was included in the Population Censuses.

## Organization

The Croatian Bureau of Statistics (CBS), whose activity is based on the Act on National Statistics, is in charge for developing the Statistical Survey Programme. The CBS brings forward the National Statistical Surveys defining their coverage, space and time schedule, data processing methodologies, reporting units and their duties.

## Enumeration period

The 2003 Agricultural Census was carried out during 1 – 15 June 2003.

## Reference date/period

For Land utilization and Livestock numbers, the reference date is 1 June 2003, while for characteristics of holders, holder's household members, labour force and use of machinery data refer to the agricultural year 1 June 2002 to 31 May 2003.

## Definition

- **Agricultural holding** was defined as an independent unit under single management, using the common means of production for crop production and for rearing cattle, keeping poultry, bees and other animals. Census Units were: Households engaged in agricultural production, and Business Entities and part of Business Entities engaged in agricultural production.
- **Households with agricultural production** was defined as any family or other community of persons living together and spending their income together for meeting the basic life needs; or any person living alone (single-person household), engaged in agricultural production, or having an agricultural holding under single management, and using jointly the production means (land, machinery and other facilities), and the work of members of the households, regardless of whether its production is for home consumption only or also for sale.
- **Business Entities** engaged in agricultural production comprised the legal and physical persons registered to perform agricultural activities, or registered in another activity but engaged in agricultural production.

## Coverage

The census covered the whole territory of the Republic of Croatia.

## Frame

The frame (list of agricultural holdings) was prepared and defined during the Population Censuses conducted in 1971, 1981, 1991, and 2001, which included identification and enumeration of agricultural holdings.

## Method

Data on Households with Agricultural Production were collected by using the direct interview method; Census Forms were filled out by the Enumerators. Data collected from Business Entities, and part of Business Entities engaged in agricultural production, were collected by using the reporting (postal) method. The Census Questionnaire and the Survey Methodology are fully consistent with the requirements of the European Union, and data are comparable with data of all Member States and EU Candidates of the European Union.

## Data source

Agricultural Census 2003. Central Bureau of Statistics (CBS), Republic of Croatia.

## Contact

Central Bureau of Statistics (CBS), Ilica 3, 10000 Zagreb, Republic of Croatia. Tel.: (+385) 1 481 4791; Fax: (+385) 1 480 6199; E-mail: [webmaster@dzs.hr](mailto:webmaster@dzs.hr), [stat.info@dzs.hr](mailto:stat.info@dzs.hr).

## Website

<http://www.dzs.hr/default.htm>

# CROATIA - Agricultural Census 2003 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	449 896	1 391 622
Agricultural Households	448 532	1 162 612
Business Entities	1 364	229 010

NUMBER AND AREA OF AGRICULTURAL HOUSEHOLDS BY SIZE		
	Number of holdings	Area (ha)
Total	448 532	1 162 612
Up to 0.1 ha	40 361	2 471
0.11 - 0.5 ha	121 734	32 035
0.51 - 1 ha	65 339	47 382
1.01 - 2 ha	71 933	103 382
2.01 - 3 ha	40 129	98 580
3.01 - 5 ha	45 732	177 712
5.01 - 10 ha	42 426	293 247
10.01 - 20 ha	15 628	208 337
20.01 and over	5 250	199 466

NUMBER AND AREA OF BUSINESS ENTITIES BY SIZE		
	Number of holdings	Area (ha)
Total	1 364	229 010
Up to 1 ha	327	94
2 ha	51	102
3 ha	45	135
4 - 5 ha	79	353
6 - 10 ha	127	1 006
11 - 20 ha	137	2 064
21 - 30 ha	90	2 208
31 - 50 ha	132	5 186
51 - 100 ha	145	10 008
Over 100 ha	231	207 854

FRAGMENTATION		
	Agricultural Households	Business Entities
Number of parcels	1 918 358	17 712

TENURE OF AGRICULTURAL LAND (Area ha)		
	Agricultural Households	Business Entities
Agricultural land, total	860 195	217 208
Area (ha) owned	720 074	29 053
Area (ha) rented	140 121	188 155

MEMBERS OF HOLDER'S HOUSEHOLD		
	Agricultural Households	Business Entities
Household members		
Holdings reporting	448 532	-
Number of persons	1 493 892	-

LAND USE		
	Agricultural Households	Business Entities
Total land		
Area (ha)	1 162 612	229 010
Agricultural land		
Number of holdings	437 247	1 079
Area (ha)	860 195	217 208
Cropland		
Area (ha)	659 105	207 654
Arable land		
Number of holdings	295 179	929
Area (ha)	607 619	199 910
Permanent crops		
Area (ha)	51 486	7 744
Perm. Meadows & Pastures		
Area (ha)	201 090	9 554
All other land		
of which:	302 417	11 802
Wood or forest land		
Number of holdings	173 920	225
Area (ha)	155 059	874
Unused agricultural land		
Number of holdings	105 094	123
Area (ha)	95 932	6 491

MAIN TEMPORARY CROPS			
		Agricultural Households	Business Entities
Cereals:	Holdings reporting	244 439	794
	Area (ha)	455 854	119 062
Potatoes:	Holdings reporting	95 498	70
	Area (ha)	10 975	793
Leguminous plants for grain	Holdings reporting	19 833	53
	Area (ha)	2 101	962
Oil seeds crops	Holdings reporting	12 086	393
	Area (ha)	42 003	47 345
Tobacco:	Holdings reporting	2 077	28
	Area (ha)	5 232	1 057
Forage crops	Holdings reporting	59 179	247
	Area (ha)	43 689	11 182

MAIN PERMANENT CROPS			
		Agricultural Households	Business Entities
Plums	Holdings reporting	277 373	36
	Area (ha)	721	33
	Number of trees	404 703	17 305
Apples	Holdings reporting	287 107	81
	Area (ha)	1 640	1 339
	Number of trees	2 177 570	1 872 649
Pears	Holdings reporting	220 948	25
	Area (ha)	246	73
	Number of trees	232 884	96 288
Sour cherries	Holdings reporting	145 620	10
	Area (ha)	210	202
	Number of trees	136 093	115 838
Peaches / Nectarines	Holdings reporting	110 842	25
	Area (ha)	110 842	52
	Number of trees	356 482	36 031
Apricots:	Holdings reporting	71 614	5
	Area (ha)	40	10
	Number of trees	19 790	4 129
Citrus fruits	Holdings reporting	15 344	5
	Area (ha)	1 100	10
	Number of trees	1 017 300	10 200
Walnuts	Holdings reporting	233 564	7
	Area (ha)	354	4
	Number of trees	87 672	357
Hazelnuts	Holdings reporting	42 616	6
	Area (ha)	150	292
	Number of trees	99 081	158 178
Olives	Holdings reporting	40 105	38
	Area (ha)	1 724	411
	Number of trees	2 020 699	114 579
Grapes	Area (ha)	10 169	4 925
	Number of trees	102 505 000	19 016 000

LIVESTOCK			
		Agricultural Households	Business Entities
Cattle:	Holdings reporting	85 930	339
	Number of head	398 037	90 609
Pigs:	Holdings reporting	214 814	426
	Number of head	1 726 895	197 777
Sheep:	Holdings reporting	29 320	76
	Number of head	75 087	17 305
Goats:	Holdings reporting	31 039	33
	Number of head	203 340	639
Horses:	Holdings reporting	3 988	40
	Number of head	11 114	473
Rabbits:	Holdings reporting	43 475	45
	Number of head	459 767	3 291
Poultry:	Holdings reporting	346 530	498
	Number of head	10 477 514	5 511 851

# CYPRUS - Agricultural Census 2003 - Explanatory Notes

## Historical outline

The 2003 Census of Agriculture was the fifth conducted in the Republic of Cyprus after its independence. The previous ones were undertaken in 1960, 1977, 1985 and 1994.

## Organization

The Census was organized by the Statistical Service (Agricultural Statistics Unit of the Ministry of Finance (MoF), in collaboration with the Ministry of Agriculture and other Government Departments, Farmers Associations, Community Authorities, etc.. Data collection was performed by the District Offices of the Statistical Service. The staff for field work comprised 216 enumerators, 35 regional supervisors and 19 data processors.

## Enumeration period

The census was conducted during the period from 6 October 2003 to the end of March 2004.

## Reference date/period

For crop production, employment, etc.: 1 October 2002 to 30 September 2003

For livestock numbers: 1 October 2003.

## Definition

The unit of enumeration was the agricultural, livestock, or agricultural-livestock holding, defined as a techno-economic unit, under single management, producing agricultural-livestock products.

### **Minimum size of holding**

For census purposes, a unit was considered and enumerated as agricultural holding only if it met at least one of the following conditions:

- An agricultural area equal or greater than one decare (*i.e. 0.1 ha or 1000 square meters*) of agricultural land,
- Half a decare in greenhouses,
- One cow or two other large animals (cattle, horses, donkeys),
- Five small animals (sheep, goats, pigs),
- Fifty head of poultry,
- Twenty bee-hives.

## Coverage

The census covered all holders of agricultural land and/or livestock in the Government controlled part of Cyprus. The census included nurseries and greenhouses.

## Frame

The basic lists of holders residing in the villages was prepared with the help of local authorities, while the lists of holders residing in urban and suburban areas was obtained from the Census of Population (2001) and from other sources.

## Method

The census was carried out on a complete enumeration basis. Data were collected through personal interviews with holders. The enumeration in rural areas was done on a door-to-door basis, while in urban areas coverage was based on information obtained from various registers prepared by the Ministry of Agriculture and other administrative sources like the previous Agricultural Census (1994).

## Data source

Census of Agriculture 2003, Series 1, Report n.7, July 2006. Statistical Service, Agricultural Statistics, Republic of Cyprus.

## Contact

Statistical Service of the Republic of Cyprus, M. Karaolis Str 1444 Nicosia, Republic of Cyprus. Tel.: (+357) 226 021 29; Fax: (+357) 226 613 13; E-mail: [enquiries@cystat.mof.gov.cy](mailto:enquiries@cystat.mof.gov.cy)

## Website

<http://www.pio.gov.cy/mof/cystat>

# CYPRUS - Agricultural Census 2003 - Main Results

TOTAL NUMBER AND TOTAL AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	45 199	197 128

NUMBER AND UTILIZED AGRICULTURAL AREA OF HOLDINGS BY SIZE OF HOLDING		
	Number of holdings	Area (ha)
Total	45 199	156 380
Holdings without land	588	-
Holdings with land	44 611	156 380
Under 0.5 ha	15 561	3 855
0.5 and under 1 ha	8 631	6 099
1 and under 2 ha	7 544	10 629
2 and under 3 ha	3 741	9 072
3 and under 5 ha	3 499	13 476
5 and under 8 ha	2 156	13 489
8 and under 10 ha	696	6 173
10 and under 15 ha	1 011	12 355
15 and under 20 ha	511	8 842
20 and under 25 ha	260	5 755
25 and under 30 ha	213	5 808
30 and under 40 ha	231	7 888
40 and under 50 ha	141	6 272
50 and under 100 ha	256	17 951
100 ha and over	160	28 717

FRAGMENTATION		
	Number of holdings	
Holdings reporting parcels, total	44 611	-
Holdings with:		
1 parcel	15 523	-
2 to 3 parcels	14 045	-
4 to 5 parcels	6 167	-
6 to 9 parcels	4 824	-
10 to 19 parcels	2 629	-
20 to 49 parcels	959	-
50 parcels and over	464	-
Total number of parcels	-	221 916
Average number of parcels per holding	-	5
Average area (SAU) (ha) per parcel	-	0,7

HOLDERS BY SEX		
		Number of persons
Total number (civil persons)		44 752
Male		33 323
Female		11 429

HOLDERS BY AGE		
		Number of persons
Total number (civil persons)		44 752
Under 25 years of age		179
25 - 34		2 238
35 - 44		8 324
45 - 54		12 329
55 - 64		11 434
65 years of age and over		10 248

LEGAL STATUS		
	Number of holdings	Area (ha)
Total holdings	45 199	156 380
Civil persons	44 752	145 343
Legal persons, total	447	11 037
Corporation	381	8 719
Government	45	1 866
Other legal persons	21	452

TENURE OF UTILIZED AGRICULTURAL AREA (SAU) OF HOLDINGS		
	Number of holdings	Area (ha)
Total	-	156 380
Area Owned	40 995	70 401
Area Rented	8 506	80 885
Other forms of tenure	2 637	5 094

LAND USE		
	Number of holdings	Area (ha)
Total land	45 199	197 128
Utilized agricultural land (SAU)	44 611	156 380
Land under temporary crops	-	109 813
Land under permanent crops	-	40 785
Permanent meadows/pastures	-	387
Fallow land	-	5 395
Unutilized agricultural land	-	36 112
Wood or forest land	-	2 482
All other land	-	2 154

IRRIGATION		
	Holdings reporting	Area irrigated (ha)
Holdings with irrigated area	33 064	35 928

EMPLOYMENT IN AGRICULTURE		
		Number of persons
Persons engaged full-time in agriculture, total		1 524
Male		1 405
Female		119
Persons engaged part-time in agriculture, total		12 589
Male		10 757
Female		1 832

MAIN TEMPORARY CROPS		
	Holdings reporting	Area under crops (ha)
Cereals for grain, total	7 593	73 844
Wheat, soft/durum	1 384	7 223
Barley	6 699	65 007
Other cereals	233	1 614
Dried pulses, total	643	724
Potatoes	3 758	5 511
Industrial crops	263	486
Vegetables, Melons, Strawberries	5 118	4 954

MAIN PERMANENT CROPS		
	Holdings reporting	Number of trees
Olives	33 181	2 574 168
Peaches/ Nectarines	-	245 228
Plums	-	87 309
Figs	-	97 611
Apples	-	376 396
Bananas	-	258 658
Walnuts	5 767	71 086
Pistachios	1 013	35 764
Almonds	12 106	1 200 466
Oranges	6 847	525 086
Lemons	5 304	222 777
Mandarines	5 028	233 094
Mantores	1 862	372 799

LIVESTOCK		
	Holdings reporting	Number of head
Cattle, total	320	61 053
Sheep	1 782	262 243
Goats	6 179	360 206
Pigs	883	433 040
Asses	696	1 417
Rabbits	4 731	154 239
Chickens	9 450	4 477 103
Turkeys	982	62 711

MACHINERY		
	Number of holdings	Number of units
Tractors	9 774	11 717
Combines (harvester-threshers)	441	489
Cultivators, hoeing machines	10 748	12 241
Motor mowers, hay machines	463	505

# CZECH REPUBLIC - Agricultural Census 2000 - Explanatory Notes

## Historical outline

The Czech Republic participated in the World Census of Agriculture (WCA) in 1970, 1980 and 1990 as part of the federal state formed by the Czech and the Slovak Republics. Data presented here refer to the agricultural census conducted in the Czech Republic in 2000.

## Organization

The census was organized and conducted by the Czech Statistical Office (CSO), an independent state organization and, in a subsidiary role, in collaboration with the Chamber of Agricultural Unions, the Ministry of Agriculture of the Czech Republic and the Research Institute for Agricultural Economics. About 6 800 enumerators, directed by 92 supervisors, carried out the field work.

## Enumeration period

The census day was 30 September 2000. Bulk of enumeration took place during the period October to December 2000.

## Reference date/period

Data mainly refer to the day of enumeration or to the calendar year. For the item "working hours of labour" the reference period was October 1999 to September 2000.

## Definition

- **Agricultural Holding** is an economic unit of agricultural production under single management comprising all livestock kept and all land used wholly or partly for agricultural production in spite of legal form or size. Holding's land may consist of one or more parcels located in one or more separate areas.
- **Minimum size of holding:** Holdings were enumerated if they crossed the following thresholds: Basic: one hectare or more of farming agricultural land, Additional: 0.15 ha of vineyards, horticulture plantations (intensive crops); 0.05 ha of greenhouses or hot-beds; 1 head of cattle or 2 pigs or 4 sheep or goats or 50 poultry or 100 fur-bearing animals; Aquaculture installations. Parts of holdings located in different administrative areas were surveyed independently as single units.

## Coverage

All holdings in the 14 Administrative Regions and 76 Districts of the Czech Republic, matching with the threshold criteria, were covered by the census.

## Frame

The census frame was prepared using the following sources:

- The farm register;
- The business register;
- The cadastral Office register;
- The register of applicants for agricultural subsidies;
- The lists of inhabitants kept in the municipal offices;
- Terrain location.

## Method

The census was conducted by complete enumeration. Each enumerator covered an enumeration area of about 240 hectares. Data for small holdings were collected through personal interview, while a few thousands of major holdings were surveyed by mail. Objective measurements of areas were used: data on areas collected were checked in comparison with data in real estate register.

## Data source

Agrocensus 2000, 1st Part: Czech Republic Basic Characteristics; 2nd Part: Characteristics by Territorial Division; 3rd Part: Analytical Evaluation. Czech Statistical Office.

## Contact

Czech Statistical Office, Department of Agriculture, Sokolovska 142, 100 81 Prague 10, Czech Republic. Tel.: (+42) 2 740 522 91; Fax: (+42) 2 663 100 11; E-mail: [prodejna@czso.cz](mailto:prodejna@czso.cz); [hrbek@gw.czso.cz](mailto:hrbek@gw.czso.cz).

## Website

<http://www.czso.cz>



# CZECH REPUBLIC - Agricultural Census 2000 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	56 487	5 607 935

NUMBER AND AGRICULTURAL AREA OF HOLDINGS BY SIZE OF AGRICULTURAL AREA		
	Number of holdings	Agricultural area (ha)
Total	56 487	3 643 168
<1 ha of agricultural area	16 328	5 137
1 - 2 ha	8 697	11 924
2 - 5 ha	9 722	29 879
5 - 10 ha	6 225	43 318
10 - 20 ha	5 345	74 474
20 - 50 ha	4 379	134 779
50 - 100 ha	1 844	128 596
100 - 200 ha	1 105	154 665
200 - 500 ha	902	289 745
500 - 1 000 ha	752	555 147
1 000 ha >	1 148	2 215 544

LEGAL STATUS		
Holdings operated by:	Number of holdings	Area (ha)
Total	56 487	3 643 168
Civil persons	53 460	962 325
Corporation	2 107	1 579 009
Cooperative	746	1 059 453
Government	87	31 542
Other	87	10 839

HOLDINGS BY TENURE		
	Number of holdings	
Total	56 487	-
Under one form of tenure	40 316	-
Owned	31 870	-
Rented	8 446	-
More than one form of t.	16 171	-

LAND USE		
	Number of holdings	Area (ha)
All land	-	5 607 935
Agricultural land	-	3 643 168
Wood / forest land	-	1 767 677
All other land	-	197 090

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Wheat	25 516	924 686
Barley	-	448 891
Maize	1 599	44 602
Potatoes	-	40 502
Sugarbeets	1 241	59 936
Soybeans	82	1 949
Rapeseed (colza)	4 748	328 638

PERMANENT CROPS		
	Holdings reporting	Number of trees
Apples	25 613	9 004 318
Pears	18 674	263 193
Peaches	4 119	617 754
Grapes	17 589	1 428 218
Cherries	18 106	1 135 526
Apricots	5 636	555 773

LIVESTOCK		
	Holdings reporting	Number of head
Cattle	26 395	1 565 418
Sheep	5 277	76 194
Goats	5 522	14 306
Pigs	25 080	3 461 611
Horses	5 705	22 991
Asses	84	651
Chickens	28 000	29 043 476
Ducks	5 529	513 958
Geese	1 663	120 992
Turkeys	2 207	878 841

# DENMARK - Agricultural Census 1999/2000 - Explanatory Notes

## Historical outline

Denmark has been participating in WCA since 1930. Until 1983 the Agriculture and Horticulture Survey was carried out once a year as complete census. From 1984 to 1989 a complete enumeration surveys were carried out in even numbered years and sample surveys were carried out in intervening years. From 1990 to 1998 the annual survey was conducted on sample basis only. In 1996 it was decided to delete crop related questions from the survey and it was decided to collect such data from the registers of Integrated Administration and Control System (IACS) which contains information relating to area under major crops for all the farms which applied for crop subsidies.

## Organization

The census is organized by Agriculture Division of Statistics Denmark which is an independent institution under the supervision of a board consisting of experts drawn from different sectors of the economy. There is no separate act governing the census but under the Act on Statistics Denmark all firms are obliged to answer questionnaires from the statistical office.

## Enumeration period

Usually, the census day is the 2nd of June.

## Reference date/period

Data refer to the census day or to the 12 month period preceding the survey.

## Definition

Agricultural holdings (farms) are defined as holdings comprising an area of land, associated buildings, machinery and livestock which the owner regards as belonging to the same holding. A holding can comprise land, buildings, etc. which belong to one or more independent owners or to one or more natural or legal persons constituting the owner. Leased land is attributed to the holding that utilizes it.

## Coverage

The 1999/2000 census covered all farms which have at least 5 ha of agricultural area or attain a specified economic size (Standard Gross Margin at 4 000 euro at 1 990 prices). The holdings falling below the thresholds are about 8 percent of total holdings and roughly contribute to less than 0.5 percent of the agricultural production.

## Frame

Statistics Denmark maintains a special register of farms for collection of data on agriculture sector prepared with information from the Danish administrative register used for the land tax system. The typology of farms listed in the register of farms helps identify holdings according to their land ownership status. Before the survey the register on farms is updated on the basis of information available from general business register, crop subsidy system and livestock subsidy system.

## Method

For obtaining data on major crops the information available in Integrated Administration and Control System (IACS) registers is tabulated. The statistics on horticultural crops, potatoes, seeds for sowing, permanent grassland and grasses in rotation which are not clearly differentiated in the IACS, are collected through statistical questionnaire. A questionnaire on crops, livestock, labour force etc. is mailed to every owner of agricultural property with a request to provide data on all the properties which are run as one farm unit. Owners are also asked particulars of the tenant to whom they have leased all or part of their property. Questionnaires are then sent to tenant unless he could be identified as owner of another property, in which case he will include information on tenanted area in his questionnaire.

## Data source

Farm Structure Survey 1999/2000, 2003 Edition, Theme 5, Agriculture and Fisheries European Commission, Eurostat.

## Contact

Danmarks Statistik, Sejrogade 11, 2100 Kobenhavn. Tel.: (+45) 39 173 917; Fax: (+45) 39 173 999;  
E-mail: dst@dst.dk.

## Website

<http://www.statistikbanken.dk>

# DENMARK - Agricultural Census 1999/2000 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Agricultural Area (ha)
Total	57 830	2 878 730

NUMBER AND TOTAL AREA OF HOLDINGS BY SIZE OF AGRICULTURAL AREA		
	Number of holdings	Agricultural Area (ha)
Total	57 830	2 878 730
Holdings without agric.land	240	370
0- 2 ha of agric.area	740	2 770
2- 5 ha	1 020	5 350
5- 10 ha	9 460	79 990
10- 20 ha	11 530	185 360
20- 30 ha	7 560	200 350
30-50 ha	9 610	399 130
50-100 ha	11 510	853 950
over 100 ha	6 160	1 151 460

LEGAL STATUS		
Holdings operated by:	Number of holdings	
Civil persons	57 310	-
Other	520	-

TENURE OF AGRICULTURAL LAND		
		Agricultural Area (ha)
Total		2 664 580
Owned		1 978 980
Rented		665 600

HOLDERS (INDIVIDUALS) BY SEX		
	Numbers of holders	
Total	57 310	
Male	52 350	
Female	4 960	

HOLDERS (INDIVIDUALS) BY AGE		
	Numbers of holders	
Total	57 310	
<35 years of age	5 440	
35 to 44	13 510	
45 to 54	14 060	
55 to 64	12 990	
65>	11 310	

HOLDERS AND MEMBERS OF THEIR HOUSEHOLD ENGAGED IN AGRICULTURAL WORK ON THE HOLDING		
	Number of persons	
Total	84 270	
Of which, full time :	29 870	

HIRED PERMANENT WORKERS		
	Number of workers	
Total	18 780	
Of which, full time	15 580	

LAND USE		
	Number of holdings	Area (ha)
All land	57 830	2 878 730
Agricultural land	-	2 644 580
Cropland	-	2 483 560
Arable land	55350	2 473 930
Permanent crops	1260	9 630
Permanent mead./pasture	21480	161 020
Wood/forest land	14 000	131 710
All other land	-	102 440

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Soft wheat	32 550	619 380
Rye	6 010	49 180
Barley	45 740	701 190
Oats	5 250	25 780
Dry pulses	8 410	65 760
Potatoes	3 290	37 950
Sugarbeets	6 410	62 900
Industrial plants	14 470	150 520
Rapeseed and Turnip	14 470	150 510
Vegetables (grown in the open)	1 560	11 320

LIVESTOCK		
	Holdings reporting	Number of head
Cattle, total	24 190	1 887 060
Of which: dairy cows	11 160	640 190
Sheep	3 590	142 880
Pigs	15 480	11 626 040
Chickens, total	-	19 930 000
Broilers	460	14 920 000
Laying hens	6 370	5 010 000

MACHINERY		
	Holdings reporting	Units
Tractors belonging to the holding (owned)	54 310	129 500

# ECUADOR - Agricultural Census 1999/2000 - Explanatory Notes

## Historical outline

The first census of agriculture in Ecuador was conducted in 1954 on sampling basis. In 1968 a national agricultural sample survey was carried out; then in 1974 a complete enumeration census was undertaken: The latest agricultural census, to which data reported here refer, was conducted in 1999/2000.

## Organization

The census was conducted by the National Institute of Statistics and Censuses (Instituto Nacional de Estadística y Censos, INEC) in collaboration with the Ministry of Agriculture and Livestock (Ministerio de Agricultura y Ganadería, MAG). Technical and Financial support was provided by the Information and Agricultural Census Service Project (SICA) funded by the World Bank. International technical assistance was provided by the National Agricultural Statistics Service (NASS) of the Department of Agriculture of the United States (USDA). About 2 575 persons were involved in activities relating to planning and field work, of which about 250 were from INEC and MAG; the others were hired from outside after a selection process.

## Enumeration period

Data were collected during the period 1 October 1999 to 30 September 2000.

## Reference date/period

Is the day of enumeration for general characteristics of holdings, land use, tenure, irrigation machinery, livestock number, farm population and employment. For temporary and permanent crops production, livestock production and technical assistance, is the census year.

## Definition

**Agricultural production unit** (Unidad de Producción Agropecuaria viz. UPA) was defined as a piece of land of at least 500 square meters, totally or partially used for agriculture, considered as an economic unit under single management, regardless to title or legal form. Those less than 500 square meters were considered UPAs only if they produced one or more products for sale during the census year.

## Coverage

The census covered the entire country.

## Frame

The census was based on a multiple purpose frame. An exhaustive, ordinate register of enumeration units, called Marco Muestral de Lista (MML) was prepared for large and specialized holdings. For remaining UPAs, the area to be covered was divided into first stage units called: UPM (Unidades Primarias de Muestreo) and each UPM into second stage units called SMs (segmentos de muestreo).

## Method

For large and specialized UPAs, complete enumeration was carried out. For remaining UPAs, an area sampling method was applied and 12 277 SMs were selected and totally covered. Aerial photos and satellite images were used.

## Data source

III Censo Nacional Agropecuario, Resultados Nacionales, Vol. I. Instituto Nacional de Estadística y Censos (INEC), Ecuador.

## Contact

Ministerio de Agricultura y Ganadería, Proyecto Sistema de Información y Censo Agropecuario – Av. Amazonas y Eloy Alfaro, Quito, Ecuador. Tel.: (+593) 2 256 6757, (+593 2) 256 9172; Fax: (+593) 2 256 4972; E-Mail: damianj@sica.gov.ec, rtipan@sica.gov.ec.

## Website

<http://www.sica.gov.ec/ingles/index.html>

# ECUADOR - Agricultural Census 1999/2000 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area of holdings (ha)
Total	842 882	12 355 831

NUMBER AND AREA OF HOLDINGS BY SIZE		
	Number of holdings	Area of holdings (ha)
Total	842 882	12 355 831
<1 ha	248 398	95 834
1-2 ha	117 660	156 016
2-3 ha	78 850	183 354
3-5 ha	90 401	339 021
5-10 ha	101 066	688 987
10 - 20 ha	75 660	1 017 807
20-50 ha	76 792	2 372 027
50-100 ha	34 498	2 242 409
100-200 ha	12 941	1 666 879
200 ha >	6 616	3 593 496

LEGAL STATUS		
	Number of holdings	Area (ha)
Holdings, total	842 882	12 355 831
Civil persons	832 749	10 675 018
Corporation	4 686	1 418 371
Government	1 229	73 261
Other	4 218	189 181

TENURE OF LAND		
	Number of holdings	Area (ha)
Holdings, total	842 882	12 335 831
Under one form of tenure	709 048	11 157 838
Owned	577 195	8 881 506
Rented	10 135	93 189
Other single forms of ten.	121 718	2 183 143
More than one form of ten.	133 834	1 197 993

HOLDERS BY SEX		
	Number of holders	
Total	842 882	-
Male	629 151	-
Female	213 731	-

HIRED PERMANENT WORKERS		
	Holdings reporting	Number of workers
Total	57 440	250 305

LAND USE		
	Number of holdings	Area (ha)
All land	842 882	12 355 831
Agricultural land	-	8 063 511
Cropland	-	2 976 379
Arable land	-	1 612 979
I. under temp. crops	629 055	1 231 675
I. temporarily fallow	136 815	381 304
Permanent crops	304 206	1 363 400
Permanent mead./pastures	-	5 087 132
Wood / forest land	242 912	3 881 140
All other land	717 328	411 180

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Rice	75 814	343 936
Dry peas	15 780	19 438
Maize, total	-	323 803
Maize (hard)	81 943	240 201
Maize (sweet)	104 513	83 602
Maize choclo, total	-	25 543
Maize choclo (hard)	4 351	3 745
Maize choclo (sweet)	45 675	21 798
Potatoes	82 759	47 494
Soybeans	4 226	54 350

PERMANENT CROPS		
	Holdings reporting	Area (ha)
Bananas	28 619	180 331
Cocoa	58 466	243 146
Coffee	57 153	151 941
Maracuya	9 088	28 747
Oil palm	3 591	146 314
Plantains	50 483	82 341
Sugarcane for other uses	35 508	42 606
Sugarcane for sugar	1 700	82 749

LIVESTOCK		
	Holdings reporting	Number of head
Cattle	427 514	4 486 020
Sheep	178 995	1 127 468
Goats	16 405	178 367
Pigs	440 475	1 527 114
Horses	189 289	375 760
Mules	73 494	130 091
Asses	128 006	176 390
Alpacas	206	2 024
Llamas	7 610	21 662
Rabbits	71 951	515 809
Chickens (courtyard)	582 492	9 172 193
Broilers (intensive)	2 270	19 595 058
Laying hens (intensive)	712	6 714 654
Ducks	74 309	404 672
Turkeys	30 931	117 758

# EGYPT - Agricultural Census 1999/2000 - Explanatory Notes

## Historical outline

Data presented here refer to the seventh Agricultural Census in Egypt, conducted during the year 1999/2000. Prior to this one, Egypt participated in the World Census of Agriculture by conducting six censuses, all by complete enumeration, in the years 1929, 1939, 1950, 1961, 1982 and 1990.

## Organization

The census was organized by the Ministry of Agriculture and Land Reclamation (MALR), Economic Affairs Sector (EAS), Central Administration for Agricultural Economics, General Department of Agricultural Census.

## Reference date/period

For inventory items like livestock numbers and stock of farm machinery owned by the holder, the reference date is 25 October 2000. For all other items the data refer to the agricultural year 1999/2000.

## Definition

The agricultural holding, as the enumeration unit, includes agricultural assets, with or without land.

- **Holdings with land** must have at least 12 Sahn (87.5 square meters) land used wholly or partly for agricultural production (i.e. plants, livestock, poultry and fisheries). All land operated by a holder in any village or town within the boundaries of the same district is considered a holding as one financial and technical unit. The land could be under any tenure form. It includes livestock, un-reclaimed areas (waste land), buildings and aquacultures.
- **Holdings without land** are considered as holdings if they have a minimum of one head of cattle, buffaloes or camels; or five heads of sheep or goats, or a combination of them; or hundred poultry; or ten beehives; or one fishery cage; or the ownership of one agricultural machine, or sharing it, used in agriculture. Units possessing only pigs or draught animals such as donkeys and mules are not considered as agricultural holdings.

## Coverage

The census covered all sectors of agriculture in the entire country.

## Frame

The frame for the Censuses of Agriculture in Egypt is usually prepared during the first phase of the census, which takes place at the beginning of the agricultural year. The country is administratively divided into 13 Governorates: nine for Lower Egypt, five for Upper Egypt and five Desert Governorates. Each Governorate consists of Districts, and Districts, in turn, consist of villages (hamlets) and cities.

## Method

The Censuses of Agriculture in Egypt are carried out on a complete enumeration basis in two phases. In the first phase, a list of all agricultural holdings is prepared. The main purpose of this phase is to provide an updated list of all buildings, households and agricultural holdings. Sketch maps of villages and cities are also prepared in this phase. The second phase is the main census and consists of the interview of all holders using a detailed questionnaire.

## Data source

The Seventh Agricultural Census in Egypt 1999/2000. Ministry of Agriculture and Land Reclamation, Economic Affairs Sector, Central Administration for Agricultural Economics, General Department of Agricultural Census. Arab Republic of Egypt.

## Contact

Adviser for Agricultural Census of the Ministry of Agriculture, 7 Nadi El Seed St. Dokki, Cairo, Egypt.

E-mail: [Sea@agri.gov.eg](mailto:Sea@agri.gov.eg)

## Website

<http://www.agri.gov.eg>

# EGYPT - Agricultural Census 1999/2000 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	4 541 884	3 750 699

NUMBER AND AREA OF HOLDINGS BY SIZE		
	Number of holdings	Area (ha)
Total	4 541 884	3 750 699
Without land	823 893	-
Under 0.4 ha	1615590	303 428
0.4 and under 0.8 ha	1 398 011	954 155
0.8 and under 1.3 ha	239 106	322 954
1.3 and under 1.7 ha	107 389	190 511
1.7 and under 2.1 ha	169 064	386 528
2.1 and under 4.2 ha	122 598	494 061
4.2 and under 8.4 ha	45 983	373 126
8.4 and under 12.6 ha	11 910	180 599
12.6 ha and over	8340	545 338

FRAGMENTATION		
	Number of holdings	Number of parcels
Total holdings with land	3 717 991	6 315 592

LEGAL STATUS		
	Number of holdings	Area (ha)
Total number of holdings	4 541 884	3 750 699
Holdings operated by:		
Civil persons	4 537 319	3 532 780
Corporation	560	150 315
Cooperatives/Governments	3 748	63 381
Others	257	4 223

TENURE OF LAND		
	Number of holdings	Area (ha)
Total holdings with land	3 717 991	3 750 699
Under one form of tenure	3 525 911	3 478 653
Owned	3 256 384	3 077 293
Rented from others	223 118	159 935
for fixed amount of money	189 355	131 821
other rental arrangements	33 763	28 114
Other single forms of tenure	46 409	241 425
More than one form of ten.	192 080	272 046

HOLDERS BY SEX		
	Number of holders	
Total (Civil persons)	4 537 319	-
Male	4 300 687	-
Female	236 632	-

HOLDER'S HOUSEHOLD MEMBERS		
	Number of persons	
Total	25 555 484	-

EMPLOYMENT		
	Number of persons	
Holder's household members working on their holding, total	12 647 254	-
Permanent, total	3 379 431	-
Male	2 945 690	-
Female	433 741	-
Temporary, total	9 267 823	-
Male	5 281 295	-
Female	3 986 528	-

LAND USE		
	Number of holdings	Area (ha)
All land	3 717 991	3 750 699
Cropland	3 708 797	3 489 692
Arable land	-	2 995 793
Permanent crops	-	486 823
Wood or forest land	-	7 073
All other land	-	253 934

MAIN TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Broad beans	394 553	183 176
Clover <sup>(*)</sup>	2 239 369	1 010 262
Cotton	659 254	330 353
Cucumbers	98 320	29 535
Green for silage	374 034	89 859
Groundnuts	114 644	84 511
Maize	2 212 915	900 797
Rice	1 316 898	801 177
Sugar cane (Ratooning)	170 467	126 542
Sunflower	67 557	30 786
Tomatoes (winter)	150 360	88 460
Wheat	2 619 997	1 191 383

(\*) Holdings reporting permanent clover

MAIN PERMANENT CROPS			
		Compact plantation	Scattered trees
Oranges:	Holdings reporting	77 464	76 670
	Number of trees	344 003 405	230 269
Mandarins:	Holdings reporting	37 448	88 080
	Number of trees	17 313 021	421 605
Lemons:	Holdings reporting	21 672	208 353
	Number of trees	5 400 872	697 423
Date palm:	Holdings reporting	32 440	109 297
	Number of trees	4 601 201	6 376 232
Grapes:	Holdings reporting	39 665	214 163
	Number of vines	90 163 786	402 030
Bananas:	Holdings reporting	22 788	74 618
	Number of plots	19 937 960	318 900
Olives:	Holdings reporting	31 935	58 790
	Number of trees	18 919 176	352 701
Apricots/Plums/Peaches	Holdings reporting	26 092	19 214
	Number of trees	11 279 071	125 223
Nuts:	Holdings reporting	4 883	1 037
	Number of trees	986 850	6 499

IRRIGATION		
Source of supply	Number of holdings reporting irrigation	Area irrigated (ha)
Nile water	3 494 641	2 879 566
Ground water	181 777	379 612
Agricultural drainage water	41 383	81 354

LIVESTOCK		
	Holdings reporting	Number of head
Cattle <sup>(*)</sup>	1 769 115	4 207 733
Buffaloes	2 356 208	4 052 205
Sheep	722 216	2 748 904
Goats	504 215	1 476 424
Camels	80 021	162 730
Horses	42 898	48 507
Asses	2 781 960	2 991 159
Mules	15 518	16 436
Pigs	5	24
Chickens	3 765 009	62 040 389
Rabbits	1 221 070	9 349 663

(\*) Holdings reporting local cattle

MACHINERY		
Machines	Holdings reporting	Units
Tractors < 25 Hp		
Owned or shared by the holder	8 362	8 654
Rented from private and public sector	63230	-
Tractors 25 to 75 Hp		
Owned or shared by the holder	103 070	98 928
Rented from private and public sector	2 751 261	-
Tractors > 75 Hp		
Owned or shared by the holder	31 807	32 009
Rented from private and public sector	673 160	-

# ESTONIA - Agricultural Census 2001 - Explanatory Notes

## Historical outline

The 2001 agricultural census is the first conducted in the re-independent Estonia. The last agricultural census was conducted in 1939.

## Organization

The 2001 Agricultural Census was organized and conducted by the Statistical Office of Estonia. A Census Expert Committee was established with advisory functions.

## Enumeration period

The census was carried out during the period 15 – 29 July 2001.

## Reference date/period

Preliminary data on area sown of field crops was collected at the beginning of June. Final data on harvested area and crop production, use of fertilizers, agricultural product sales, livestock numbers, animal production, machinery and farm buildings are usually collected in January.

## Definition

- **Agricultural holding:** a production unit under single management, both technically and economically, with agriculture as main activity and with the following characteristics:
  - At least one hectare of agricultural or forest land, or at least 0.3 ha of fish ponds, or
  - At least one hectare of agricultural or forest land or less than 0.3 ha of fish ponds or
  - No agricultural or forest land or fish ponds but produces agricultural products mainly (more than one half) for sale.
- **Household plot:** a production unit with less than one hectare of agricultural or forest land, or with no agricultural or forest land but produces agricultural products mainly (more than one half) for home consumption and reporting:
  - 50 or more square meters of kitchen garden or three fruit trees or six berry bushes, or
  - At least 10 rabbits, 10 domestic fowls or other farm animals, or
  - At least three beehives.

## Coverage

The census covered the agricultural holdings and the household plots in the entire country.

## Frame

Local Government Offices compiled, in co-operation with the census staff and the employees of the Statistical Office, the lists of enumeration units, which was updated in June 2001. A Statistical Farm Register, established in 1993, was already operative in the country.

## Method

Enumerators questioned the holders of agricultural holdings and the persons operating household plots, by personal interview. The enumerator filled in the census questionnaire on each unit of enumeration (agricultural holding or household plot), in the same way as in the Population and Housing Census.

## Data source

ESA, Statistikaamet, Põllumajandus-Loendus 2001 (Statistical Office of Estonia, 2001 Agricultural Census).

## Contact

Statistical Office of Estonia, Endla Street 15, Tallin EE-0100, Estonia. Tel.: (+372) 2 625 9300; Fax: (+372) 2 625 9370; E-mail: stat@stat.ee

## Website

<http://www.stat.ee>



# ESTONIA - Agricultural Census 2001 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	83 808	1 705 136

NUMBER AND AGRICULTURAL AREA OF HOLDINGS BY SIZE OF AGRICULTURAL AREA		
	Holdings with agricultural area	Agricultural area (ha)
Total	68 869	875 799
<1 ha	13 450	4 694
1-2 ha	14 065	19 631
2 - 5 ha	16 545	52 658
5-10 ha	10 818	76 356
10 - 20 ha	7 759	107 814
20-50 ha	4 239	125 751
50-100 ha	973	66 346
100 ha >	1 020	422 549

LEGAL STATUS		
	Number of holdings	Area (ha)
Holdings, total	83 808	1 705 136
Civil persons	82 159	1 292 975
Others	1 649	412 161

TENURE OF AGRICULTURAL LAND		
	Holdings with agricultural area	Agricultural area (ha)
Holdings, total	68 869	875 799
Under one form of tenure	63 737	541 842
Owned	52 620	286 790
Rented	11 117	255 052
More than one form of t.	5 132	333 957

EMPLOYMENT		
		Number of workers
Persons working in agriculture	-	164 366
Holders and household members	-	133 278
Hired workers	-	31 088
Permanent	-	17 741
Male	-	9 775
Female	-	7 966
Occasional	-	13 347

TEMPORARY CROPS		
	Holdings reporting	Area sown (ha)
Wheat, total	-	57 099
Wheat (winter)	2 910	23 347
Wheat (spring)	5 129	33 752
Rye	2 745	20 375
Barley	13 900	136 330
Oats	6 957	49 435
Other cereals	2 175	10 262
Tomatoes(greenhouse)	519	41
Turnips	766	27 560
Flax	28	190
Peas	719	3 227
Field beans	242	116
Beetroot	380	148
Cabbage	710	427
Cauliflower	79	35
Cucumbers (greenhouse)	513	38
Cucumbers (in the open)	288	53
Carrot	602	323
Onion	311	45
Garlic	77	9
Potatoes	44 213	17 153

LAND USE		
	Number of holdings	Area (ha)
All land	-	1 705 136
Agricultural land	-	875 799
Cropland	-	610 599
Arable land	-	607 324
Permanent crops	-	3 275
Permanent mead./pastures	-	265 200
Wood / forest land	-	547 231
All other land	-	282 106

PERMANENT CROPS		
	Holdings reporting	Area (ha)
Apple	681	792
Pears	67	10
Plums	216	77
Cherries	126	20
Raspberry	277	113
Black currant	575	330
Red & white currant	402	194
Gooseberry	143	12
Strawberry	1 083	590

LIVESTOCK		
	Holdings reporting	Head/units
Cattle, total	20 281	280 884
Sheep		
Total	5 054	44 567
Male	-	17 755
Female	-	26 812
Goats		
Total	1 267	4 308
Male	-	1 816
Female	-	2 492
Pigs	12 136	329 785
Horses		
Total	2 050	5 261
Male	-	2 827
Female	-	2 434
Rabbits		
Total	3 916	34 901
Male	-	24 832
Female	-	10 069
Chickens, total	-	1 612 481
Broilers	663	616 930
Laying hens	23 002	995 551
Geese	1 302	6 015
Ducks	1 922	13 716
Turkeys	82	595
Other poultry	270	16 423
Fur-bearing animals	74	103 421
Beehives	5 443	37 131

## Historical outline

An agricultural census has not been conducted in Ethiopia so far. However, annual agricultural sample surveys have been carried out since 1980/81 by the Central Statistical Authority (CSA). In September 2001 the CSA launched the field work of the first ever Ethiopian Agricultural Sample Enumeration. The United States Agency for International Development (USAID), the European Union and the British Department for International Development gave financial and technical assistance,

## Organization

The 2001/02 Ethiopian Agricultural Sample Enumeration (EASE) was launched under the auspices of the Ethiopian Agricultural Census Commission chaired by the Prime Minister. The Central Statistical Authority serves as the Secretariat for the Office of the Commission.

## Enumeration period

The enumeration period took place from September 2001 to September 2002.

## Reference date/period

Data on basic economic characteristics of the population in agricultural households refer to October 2001. The reference period was from 10 February 2001 to 9 February 2002.

## Definition

- **Holding:** Is all the land and/or livestock kept, which is used wholly or partly for agricultural production and is operated as one legal entity by one person alone, or with others regardless to management, organization, size or location.
- **Agricultural household:** A household is considered an agricultural household when at least one member of the household is engaged in growing crops and/or raising livestock in private or in combination with others.

## Coverage

The Agricultural Sample Enumeration was designed to cover the rural and urban parts of all woredas in the country on a large-scale basis. The coverage included 470 (460 rural and 10 urban) woredas in 60 administrative zones of the country excluding the pastoralist areas of the Afar and Somali Regional States.

## Frame

The list of enumeration areas for each woreda (stratum) was compiled from the 1994 Ethiopian Population and Housing Census cartographic work, and was used as the frame for selection of the Primary Sampling Units (PSU). The enumeration maps of the region for the sample of Enumeration Areas were updated and the boundaries and descriptions were clarified to reflect the current physical situation. The sampling frame used for the selection of ultimate sampling units (agricultural households) was a fresh list of households prepared by the enumerator.

## Method

The enumeration was based on a house-to-house interviewing of holders and objective measurements of their holdings and crop yields, in three phases. The first phase was the collection of data on demographic and economic characteristics of the rural peasant households; the second one was the data collection on farm management practices of these rural peasant households, using an interview method for both seasons. Data on crop and yield of temporary and permanent crops was collected in the third phase by visiting the farm operators and physically measuring the crop fields since the farmers are not familiar with standard units.

## Data source

Ethiopian Agricultural Sample Enumeration, Statistical Report, Part I and II Addis Ababa, July 2003.  
Central Agricultural Census Commission, Central Statistical Agency of Ethiopia.

## Contact

Central Statistical Agency of Ethiopia, P.O.Box 1143 Addis Ababa, Ethiopia. Tel.: (+251) 11 155 3011;  
E-mail: csa@ethionet.et.

## Website

<http://www.harvestchoice.org/production/data>, <http://www.csa.gov.et/Census>

# ETHIOPIA FEDERAL DEMOCRATIC REPUBLIC - Agr. Census 2001/02 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	10 758 597	11 047 249

NUMBER AND AREA OF HOLDINGS BY SIZE		
	Number of holdings	Area (ha)
Total	10 758 597	11 047 249
< 0.1 ha	819 394	38 418
0.1 - 0.5 ha	3 175 027	933 428
0.5 - 1 ha	2 767 746	2 021 798
1 - 2 ha	2 612 288	3 682 947
2 - 5 ha	1 276 773	3 605 515
5 - 10 ha	97 037	612 070
10 ha >	10 333	153 072

FRAGMENTATION		
	Number of parcels	
Total	35 340 605	-

HOLDINGS BY TENURE		
	Number of holdings	Area (ha)
Total	10 758 597	11 047 249
Owned	10 547 597	9 535 456
Rented	2 134 137	1 110 878
Other forms of tenure	1 000 815	400 915

HOLDERS BY SEX		
	Number of holders	
Total	11 507 442	-
Male	9 357 767	-
Female	2 149 675	-

HOLDER'S HOUSEHOLD MEMBERS BY SEX		
	Number of persons	
Total	43 040 637	-
Male	18 175 951	-
Female	24 864 686	-

LAND USE		
	Number of holdings	Area (ha)
All land	10 758 597	11 047 249
Agricultural land	-	10 658 964
Land under crops	-	8 861 159
Temporary crops	10 151 839	8 193 391
Permanent crops	5 805 161	667 768
Fallow land	3 278 341	839 949
Permanent mead./pastures	3 727 319	957 856
Wood / forest land	1 486 960	87 053
All other land	10 226 668	301 232

PERMANENT CROPS		
	Holdings reporting	Area (ha)
Avocados	324 489	2 919
Bananas	1 327 486	21 938
Guavas	140 261	1 427
Lemons	111 884	796
Mangoes	298 303	4 001
Oranges	309 219	2 559
Papayas	404 188	2 983
Pineapples	10 974	172
Chat	1 545 861	97 604
Coffee	2 386 686	256 545
Enset	3 057 656	237 959
Sugarcane	563 310	13 008

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Wheat	3 206 902	1 029 100
Millet	1 017 008	284 823
Rice	30 622	8 471
Sorghum	3 450 397	1 150 742
Barley	3 230 115	781 955
Oats	263 863	30 639
Maize	5 868 190	1 350 845
Teff	4 496 329	1 846 082
Chick peas	753 578	186 260
Fenugreek	201 040	15 324
Field peas	1 138 384	176 880
Haricot beans	1 209 804	122 643
Horse beans	2 635 614	372 478
Lentils	451 773	60 801
Groundnuts	92 442	16 483
Linseed	581 725	100 142
Neug	800 257	234 142
Rapeseed (colza)	342 063	15 110
Sesame	223 464	62 693
Sufflower	91 214	5 486
Green peppers	407 900	3 786
Ethiopian cabbage	1 439 965	15 058
Onions	485 573	11 145
Potatoes	820 487	38 028
Sweet potatoes	742 496	34 575

LIVESTOCK		
		Head/units
Cattle		
Total	-	41 527 142
Male	-	18 190 980
Female	-	23 336 163
Sheep		
Total	-	14 655 565
Male	-	3 901 054
Female	-	10 754 512
Goats		
Total	-	13 661 561
Male	-	4 264 352
Female	-	9 397 210
Horses	-	1 504 208
Mules	-	354 120
Asses	-	3 962 969
Camels	-	447 842
Poultry	-	42 915 629
Beehives	-	4 601 806

# FINLAND - Agricultural Census 1999/2000 - Explanatory Notes

## Historical outline

Beginnings with 1910 agricultural censuses have been conducted in Finland almost at every ten years. The last ones were in 1959, 1969, 1990 and in 1999/2000. The information for inter-censal years has been collected through administrative sources like Rural Business Register, or by means of annual sample survey.

## Organization

The Information Centre of Ministry of Agriculture and Forestry (IC/MAF) carried out the agricultural census according to FAO guidelines and EU regulations. Legal framework for the census was provided by Finland's Statistics Act, Act on IC/MAF and Act of Rural Business Statistics. About 450 municipalities played the essential role regarding data collection in the field. Services of a private company were utilized for conducting telephonic interviews. The census was led by a project team comprising agricultural, automated data processing and statistical experts.

## Enumeration period

In addition to data already available from administrative sources, enumeration was carried out in three phases. Data on machinery, computers, irrigation area, storage facilities and other activities on the holdings were collected during February to July 2000, The data on livestock and arable land on farms which had not availed subsidies, were collected during July to August 2000. From September to December 2000, computer aided interviews were carried out to collect data on labour force.

## Reference date/period

For crop and land use: 26 May 2000. For livestock: 1 May 2000. For machinery, storage facilities and rural development: year 2000. For the labour force survey: 1 September 1999 to 30 August 2000.

## Definition

- **Farm/Agricultural holding:** a production unit, which is technically and economically a single production unit. It could be operated by a single natural or legal person or a group of natural or legal person.
- **Utilized Agricultural Area (UAA):** is the holding's area consisting of arable land, kitchen gardens, land under permanent crops and land under permanent meadows and pastures.
- **Standard Gross Margin (SGM):** The SGM determines the techno-economic orientation and techno-economic size of the holding. It is calculated, for each crop or animal production, as the difference between the standard value of the production and the standard amount of certain specific costs (mainly proportional specific costs). For easy comparison it is measured in European Size Units.

## Coverage

Geographically, the survey covered the entire territory of Finland. Statistically, for the purpose of agricultural census, target population was agricultural holding with: (1) A utilized agricultural area (UAA) of at least 1 ha or (2) A total standard gross margin of 1.00 European Size Units.

## Frame

Four different registers, viz. the Rural Business Register, the Register of Horticultural Holdings, the Register of Bovine Animals and the Register of Organic Farming were used to build census frame. The information on new holdings which were not yet part of the registers was collected by municipalities.

## Method

The census was carried out as complete enumeration, avoiding duplication of data available from registers. The Bovine Animal Register is concurrently updated as there exists an obligation to report birth, death and slaughter of animals within two weeks of the event. Other registers are updated once a year. Questionnaires were sent by post and telephonic interviews were carried out.

## Data source

Farm Structure Survey 1999/2000, 2003 Edition, Agriculture and Fisheries Theme 5, European Commission, Eurostat.

## Contact

Statistics Finland, Työpajankatu 13, Helsinki, FIN-00022 Statistics Finland. Tel.: (+358) 9 173 41 (switchboard); Fax: (+358) 9 173 427 50; E-mail:stat@stat.fi.

## Website

[http://www.tilastokeskus.fi/index\\_en.html](http://www.tilastokeskus.fi/index_en.html)

# FINLAND - Agricultural Census 1999/2000 - Main Results

NUMBER AND TOTAL AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	81 190	5 865 530

NUMBER AND TOTAL AREA OF HOLDINGS BY SIZE OF AGRICULTURAL AREA		
	Number of holdings	Area (ha)
Total	81 190	5 865 530
without agricultural land	510	15 070
0 - 2 ha of agricultural area	2 240	47 730
2 - 5 ha	5 780	168 550
5 - 10 ha	11 120	416 110
10 - 20 ha	20 220	1 092 980
20 - 30 ha	14 700	1 061 420
30 - 50 ha	15 660	1 438 800
50 - 100 ha	9 270	1 196 790
>= 100 ha	1 700	428 080

LEGAL STATUS		
Holdings operated by:	Number of holdings	
Civil Persons	75 740	-
Other	5 450	-

TENURE OF AGRICULTURAL LAND		
		Agricultural area (ha)
Total	-	2 218 670
Owned	-	1 532 790
Rented	-	685 880
Other forms of ten.	-	-

HOLDERS (INDIVIDUALS) BY SEX		
	Number of holders	
Total	75 740	-
Male	67 530	-
Female	8 210	-

HOLDERS (INDIVIDUALS) BY AGE		
	Number of holders	
Total	75 740	-
< 35 years of age	8 670	-
35 to 44	20 480	-
45 to 54	27 320	-
55 to 64	14 680	-
65 >	4 590	-

HOLDERS AND MEMBERS OF THEIR HOUSEHOLD ENGAGED IN AGRICULTURAL WORK ON THE HOLDING		
	Number of persons	
Total	164 610	-
Male	104 650	-
Female	59 960	-
Of which, full time:		
Total	53 380	-
Male	35 110	-
Female	18 270	-

HIRED PERMANENT WORKERS		
	Number of workers	
Total	19 260	-
Of which, full time:	6 640	-

HOLDERS AND MEMBERS OF THEIR HOUSEHOLD ENGAGED IN AGRICULTURAL WORK ON THE HOLDING		
	Number of persons	
Total	164 610	-
Male	104 650	-
Female	59 960	-

HIRED PERMANENT WORKERS		
	Number of workers	
Total	6 640	-

LAND USE		
	Number of holdings	Area (ha)
All land	81 190	5 865 530
Agricultural land	-	2 218 660
Cropland	-	2 192 520
Arable land	80 370	2 188 180
Permanent crops	3 050	4 340
Permanent mead./pastures	6 990	26 140
Wood / forest land	75 630	3 628 680
All other land	-	18 190

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Soft wheat	10 190	149 590
Rye	8 010	44 620
Barley	44 100	559 090
Oats	47 850	411 660
Dry pulses	2 210	10 670
Potatoes	29 420	32 220
Sugarbeets	2 780	32 170
Industrial plants	6 040	58 640
Rapeseed and Turnip	4 970	52 530
Sunflowerseed	270	300
Vegetables (grown in the open)	7 240	14 370

LIVESTOCK		
	Holdings reporting	Number of head
Cattle, total	30 010	1 056 480
of which: dairy cows	23 910	364 120
Sheep	2 170	99 530
Goats	710	8 560
Pigs	4 380	1 295 800
Chickens, total	-	12 330 000
Broilers	220	7 920 000
Laying hens	2 190	4 410 000

MACHINERY		
	Holdings reporting use	Units
Tractors belonging to the holding (owned)	77 820	171 550
Tractors not belonging to the holding	16 230	-

# FRANCE - Agricultural Census 1999/2000 - Explanatory Notes

## Historical outline

The 2000 Agricultural Census in France is the fifth taken since the end of the Second World War, and follows those of 1955, 1970, 1979 and 1988. The results obtained through 1988/89 census were updated through farm structure sample surveys of 1990, 1993, 1995 and 1997.

## Organization

The census was organized by the Central Service of Statistical Surveys and Studies (SCEES) which is the Central Statistics Department of the Ministry of Agriculture. Legal basis was provided by a decree signed by National Statistical Information Council (CNIS).

## Enumeration period

Eligible holdings were surveyed during 1 October 2000 to 31 January 2001.

## Reference date/period

Livestock data refer to the day of enumeration. Data on poultry numbers to be slaughtered for Christmas are those present on the holding on 1<sup>st</sup> December 2000. Crops data refer to the agricultural year 2000 (from 1 November 1999 to 31 October 2000). Data on seasonal or occasional employment refer to those persons who worked during the agricultural year 1999/2000.

## Definition

- **Superficie agricole utilisée:** includes arable land, land under permanent crops, and land under permanent meadows and pastures.
- **Agricultural Holding** is an economic unit of agricultural production satisfying at the same time the following three conditions: it produces an agricultural product; it is equal to or above the threshold size (1 ha or more of "superficie agricole utilisée", or 0.2 ha of specialized crops, or a certain number of livestock, or a certain level of agricultural output etc; it is subject to independent everyday management).

## Coverage

The census was carried out through out the country including overseas areas. However, the results reported here relate to the territory of France in Europe (France Metropolitaine).

## Frame

During the winter of 1999/2000 the list of agricultural holdings was drawn up on the basis of updated version of 1988 survey list. The 1988 list was matched with the data derived from social security documentation in respect of farmer. The data maintained by the National Statistical Institute (INSEE) in business index of registered farmers was pooled to get a common identifier for using different list at local level. The list so prepared was reviewed at municipality level with help of other locally available files and information to include all holdings covered by the census and avoids duplication.

## Method

The survey was a complete enumeration census conducted through direct interview of farmers. The census took place in seven major stages: preparation, compilation of list of holdings to be surveyed, recruitment of temporary staff, training, data collection, validation and dissemination. To cope up with the additional workload about 4 700 non-permanent workers were recruited and trained. A field testing of questionnaires was carried out during February to March 1999 through out France. 22 different versions of the census questionnaire were used to meet the requirements of 19 regions and the 4 overseas areas. Each version, however, had a common core. The data on two additional questionnaires on viticulture and aromatic and medicinal plants were also collected with the census.

## Data source

Farm Structure Survey 1999/2000, 2003 Edition, Agriculture and Fisheries Theme 5, European Commission, Eurostat.

## Contact

Centre de documentation et d'information Agreste, 251 rue de Vaugirard 75732 Paris cedex 15.  
Tél.: (+33) 1 495 585 85; Fax: (+33) 1 495 585 03; E-mail: scees-cdia@agriculture.gouv.fr.

## Website

[http:// www.agreste.agriculture.gouv.fr](http://www.agreste.agriculture.gouv.fr)

# FRANCE - Agricultural Census 1999/2000 - Main Results

NUMBER AND TOTAL AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	663 810	29 897 670

NUMBER AND TOTAL AREA OF HOLDINGS BY SIZE OF AGRICULTURAL AREA		
	Number of holdings	Area (ha)
Total	663 810	29 897 670
without agricultural land	10 720	14 330
0 - 2 ha of agricultural area	101 020	197 670
2 - 5 ha	81 620	395 120
5 - 10 ha	60 510	564 790
10 - 20 ha	71 240	1 250 550
20 - 30 ha	51 970	1 473 740
30 - 50 ha	85 830	3 703 230
50 - 100 ha	122 150	9 148 280
>= 100 ha	78 750	13 149 960

LEGAL STATUS		
Holdings operated by:	Number of holdings	
Civil Persons	538 000	-
Other	125 810	-

TENURE OF AGRICULTURAL LAND		
		Agricultural area (ha)
Total	-	27 856 310
Owned	-	10 110 030
Rented	-	17 457 160
Other forms of tenure	-	289 120

HOLDERS (INDIVIDUALS) BY SEX		
	Number of holders	
Total	538 000	-
Male	411 720	-
Female	126 280	-

HOLDERS (INDIVIDUALS) BY AGE		
	Number of holders	
Total	538 000	-
< 35 years of age	53 270	-
35 to 44	120 150	-
45 to 54	161 690	-
55 to 64	105 540	-
65 >	97 350	-

HOLDERS AND MEMBERS OF THEIR HOUSEHOLD ENGAGED IN AGRICULTURAL WORK ON THE HOLDING		
	Number of persons	
Total	857 620	-
Male	558 140	-
Female	299 480	-
Of which, full time:		
Total	306 150	-
Male	226 810	-
Female	79 340	-

HIRED PERMANENT WORKERS		
	Number of workers	
Total	461 970	-
Of which, full time:	290 280	-

LAND USE		
	Number of holdings	Area (ha)
All land	663 810	29 897 670
Agricultural land	-	27 856 310
Cropland	-	19 540 380
Arable land	452 000	18 419 340
Permanent crops	184 240	1 121 040
Permanent mead./pastures	410 320	8 315 930
Wood / forest land	214 710	1 303 420
All other land	-	737 940

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Wheat, total	-	-
Soft wheat	263 770	4 896 510
Durum wheat	20 410	338 600
Rye	8 450	30 480
Barley	171 360	1 521 930
Oats	38 380	101 390
Maize	142 700	1 753 870
Dry pulses	48 670	475 390
Potatoes	30 500	157 820
Sugarbeets	31 800	409 060
Industrial plants	128 720	2 105 200
Tobacco	5 100	9 560
Hops	120	830
Rapeseed and Turnip	74 300	1 176 100
Sunflowerseed	59 940	722 870
Soybeans	7 910	76 790
Vegetables (grown in the open)	42 040	240 810

PERMANENT CROPS		
	Holdings reporting	Area (ha)
Citrus fruits	500	2380
Olives	11730	14240
Grapes	143 750	883 660

LIVESTOCK		
	Holdings reporting	Number of head
Cattle, total	282 010	20 258 920
of which: dairy cows	128 340	4 193 270
Sheep	95 670	9 416 240
Goats	27 290	1 201 940
Pigs	59 550	14 869 720
Chickens, total		203 370 000
Broilers	125 630	126 300 000
Laying hens	231 820	77 070 000

MACHINERY		
	Holdings reporting use	Units
Tractors belonging to the holding (owned)	550 080	1 249 600
Tractors not belonging to the holding	218 780	-

# FRENCH GUIANA - Agricultural Census 2000 - Explanatory Notes

*French Guiana, the largest Department of the French Territory, is recorded in the World Census of Agriculture Database at country level in the South American Region for statistical purposes only. Consequently, results related to France bear only upon the territory of France in Europe (France Metropolitaine).*

## Historical outline

The 2000 Agricultural Census is the third conducted in French Guiana; the first was carried out in 1980/81 while the second in 1988/89.

## Organization

The 2000 Agricultural Census was organized by the Central Service of Statistical Surveys and Studies (SCEES) of the Ministry of Agriculture and Fisheries of France. Field work was carried out through the Statistics Services of the French Guiana's Direction of Agriculture and Forestry (DAF).

## Enumeration period

The enumeration period lasted from June 2000 to January 2001.

## Reference date/period

For livestock numbers: the day of enumeration. For use of land and most other census items: the agricultural year 1999/2000.

## Definition

- **Agricultural holding** is an economic unit of agricultural production satisfying the following conditions:
  - Managing at least one hectare of "superficie agricole utilisée", or
  - 2 000 square meters of specialized cultures, or
  - overstepping a certain production activity (e.g. having at least one cow).The holding should be located in a municipality and identified by the most important building or the largest parcel.
- "**Superficie agricole utilisée**" includes arable land, land under permanent crops, land under permanent meadows and pastures, kitchen gardens and land temporarily fallow.

## Coverage

The census covered the entire Department (Département-d'Outre-Mer) of French Guiana.

## Frame

The list of agricultural holdings to be investigated was prepared by municipality boards and used as the frame.

## Method

Complete enumeration of all agricultural holdings was carried out through direct interview.

## Data source

Recensement Agricole 2000, Principaux Résultats. Ministère de l'Agriculture et de la Pêche, French Guiana.

## Contact

Ministry of Food, Agriculture and Fisheries, Regional Service Information Statistics and Economic, Cité Rebard - 97305 Cayenne; Tél.: (+594) 296 361; Fax: (+594) 296 363; E-mail: sdsa.daf973@agriculture.gouv.fr.

## Website

<http://www.agreste.agriculture.gouv.fr/>



# FRENCH GUIANA - Agricultural Census 2000 - Main Results

## NUMBER AND AREA OF HOLDINGS

	Number of holdings	Area of holdings (ha)
Total	5 318	34 655

## NUMBER OF HOLDINGS BY SIZE

	Number of holdings	Area of holdings (ha)
Total	5 318	-
<1 ha	1 108	-
1-2 ha	1 886	-
2-5 ha	1 850	-
5-10 ha	293	-
10 - 20 ha	94	-
20 ha >	87	-

## HOLDER'S HOUSEHOLD MEMBERS

	Number of persons	
Total	20 000	-

## HOUSEHOLD MEMBERS ENGAGED IN AGRICULTURAL WORK ON THE HOLDING

	Number of persons	
Total	9 360	-

## HIRED PERMANENT WORKERS

	Holdings reporting	Number of workers
Total	174	442

## TEMPORARY CROPS

	Holdings reporting	Area (ha)
Root, tuber crops	4 033	4 805
Leguminous plants	2 823	433

## PERMANENT CROPS

	Holdings reporting	Area (ha)
Bananas	2 232	295
Pineapples	738	130

## LIVESTOCK

	Holdings reporting	Head/units
Cattle	326	9 559
Sheep	100	1 600
Goats	116	1 026
Pigs	341	8 100
Horses	70	500
Rabbits	30	1 500
Chickens	1 684	99 395
Ducks	391	11 027
Geese	108	772
Turkeys	84	1 212
Pigeons	63	2 908
Guinea fowls	136	4 162
Beehives	7	166

# GAMBIA - Agricultural Census 2001/02 - Explanatory Notes

## Historical outline

The 2001/02 Agricultural Census was the first comprehensive agricultural census exercise conducted in the country.

## Organization

The census was organized and implemented by the Agricultural Statistics and Resources Economics Unit (ASRE) of the Department of Planning (DOP) of the Department of State for Agriculture (DOSA). Technical and financial assistance was provided by the Food and Agriculture Organization of the United Nations (FAO), the Catholic Relief Services, the United Nations Development Programme (UNDP), the Action Aid in the Gambia, the Commonwealth Fund for Technical Co-operation, the European Development Fund, and the Republic of China.

## Enumeration period

The enumeration took place from July to September 2002.

## Definition

- **Dabada/Household:** A group of individuals usually related, conducting farming or non farming activities as a unit and pooling their resources from their activities. In line with the WCA Programme, it is defined to include all land that is used wholly or partially for agricultural production under one technical or operational unit, single management by one person alone or with others, regardless to title, legal form, size or location.
- **Enumeration Area (EA):** Is the area assigned to an enumerator. For census purposes, the pre-determined number of sample EAs for the country is allocated to the Administrative Districts in proportion to their agricultural population.
- **Field:** It is a piece of land inter-cropped or planted with one or more crops.
- **Plot:** Is a piece of land demarcated on a field for yield and density studies.

## Coverage

The census covered the entire country.

## Frame

The responsible agency for the Population Censuses, the Central Statistics Department (CSD), provided a statistical frame comprising a list, compiled from the results of the 1993 Population Census, of small geographic segmentations of the territory called Enumeration Areas (EAs) used as primary sampling units, each one with relevant demographic information and a map for proper identification. The secondary sampling units were dabadas (i.e. clusters of household) found within the EAs.

## Method

The census is considered an Expanded Agricultural Sample Survey, expected to be conducted at ten-year intervals, with annual sample surveys to be carried out in the years between the decennial censuses.

**The sample design:** All EAs within a District were listed in the frame as first stage units and a sample of 25 percent was selected with probability proportional to size. As second stage units a systematic random sample of five households (Dabadas), was selected for enumeration within the EAs. This resulted in a total of 405 EAs corresponding to the 3 percent of total EAs in the country and 1 400 households corresponding to the 25 percent of total number of households in the country. Data was obtained by the interview method and physical measurements of fields and yields. Sixty enumerators, under the supervision of thirteen supervisors, performed the field work.

## Data source

Report of the Agricultural Census of the Gambia 2001/02, Vol. 1 and 2, Banjul. Government of the Gambia, Agricultural Statistics and Resources Economics Unit (ASRE), Department of Planning (DOP), Department of State for Agriculture (DOSA), the Gambia.

## Contact

- Department of Planning (DOP), Department of State for Agriculture (DOSA) Banjul, the Gambia.  
Tel.: (+220) 228 752; Fax: (+220) 224 85; Telex: 2204 PRESOF GV.
- Central Statistics Department, Ministry of Finance, Central Bank Building, ½ Buckle Street, Banjul, the Gambia.  
Tel.: (+220) 228 364; Fax: (+220) 228 903.

# GAMBIA - Agricultural Census 2001/02 - Main Results

NUMBER OF HOLDINGS		
	Number of holdings	Area cultivated (ha)
Total	69 140	304 856

HOLDERS BY SEX AND AGE		
	Number of holders	
Total	69 140	-
Male	63 409	-
< 25 years	561	-
25 - 44	18 390	-
45 - 64	29 038	-
65 >	15 419	-
Female	5 731	-
< 25 years	71	-
25 - 44	1 000	-
45 - 64	2 707	-
65 >	1 953	-

HOLDER'S HOUSEHOLD MEMBERS BY SEX AND AGE		
	Number of persons	
Total	734 431	-
Male	368 592	-
< 10 years	106 249	-
10 - 14	52 129	-
15 - 24	78 934	-
25 - 44	74 027	-
45 - 64	38 757	-
65 >	18 757	-
Female	365 839	-
< 10 years	106 433	-
10 - 14	46 141	-
15 - 24	73 051	-
25 - 44	97 573	-
45 - 64	32 679	-
65 >	9 963	-

TEMPORARY CROPS		
	Holdings reporting	Area planted (ha)
Millet (early)	35 681	81 273
Millet (late)	8 138	16 087
Maize	33 338	17 202
Sorghum	21 847	26 175
Rice (upland)	24 837	8 915
Rice (swamp)	25 438	6 953
Groundnuts (improved variety)	19 515	36 109
Groundnuts (old variety)	37 279	102 779
Sesameseed	17 153	6 968
Cabbages	13 515	-
Tomatoes	43 198	-
Carrots	2 282	-
Onions	19 674	-
Eggplants	26 063	-
Lettuce	7 834	-
Okra	40 221	-
Pepper (hot)	35 818	-
Pepper (sweet)	11 931	-
Talinum	7 184	-
Melon egusi	520	-
Watermelon	7 252	-
Chillies	7 900	-
Shallots	1 703	-
Nutmeg	335	-
Pumpkins	13 880	-
Ginger	1 553	-
Flowers	774	-

PERMANENT CROPS		
	Holdings reporting	
Avocado	399	-
Papaya	11 346	-
Oranges	18 406	-
Mangoes	41 125	-
Bananas	11 047	-
Cashew nuts	16 325	-
Coconut	2 984	-
Oil palm	1 252	-
Cola	385	-
Limes	4 179	-
Shea-nut	187	-
Pineapples	120	-

LIVESTOCK		
	Holdings reporting	Number of head
Cattle, total	27 799	323 167
Male	-	97 204
Female	-	225 963
< 2 year		
Total	-	99 748
Male	-	36 305
Female	-	63 443
2 years >		
Total	-	223 419
Male	-	60 899
Female	-	162 520
Sheep, total	26 460	129 232
Male	-	36 397
Female	-	92 835
< 1 year		
Total	-	41 622
Male	-	16 184
Female	-	25 438
1 year >		
Total	-	87 610
Male	-	20 213
Female	-	67 397
Goats, total	40 370	228 404
Male	-	62 815
Female	-	165 589
< 1 year		
Total	-	86 729
Male	-	34 675
Female	-	52 053
1 year >		
Total	-	141 676
Male	-	28 140
Female	-	113 536
Pigs, total	849	7 962
Male	-	3 774
Female	-	4 188
< 6 month		
Total	-	3 459
Male	-	1 881
Female	-	1 578
6 month >		
Total	-	4 553
Male	-	1 893
Female	-	2 660
Chickens, total	50 786	586 331
<6 month	-	318 088
6 month >	-	268 243

# GEORGIA - Agricultural Census 2003/04 - Explanatory Notes

## Historical outline

The 2004 Agricultural Census of Georgia was the first that took place in Georgia since independence.

## Organization

The Census was conducted by Department of Statistics under Ministry of Economic Development of Georgia, with close cooperation of Ministry of agriculture.

## Enumeration period

The Census was conducted in two stages: from 25 September to 4 October 2004 in the rural area and from 14 – 23 April 2005 in district centres and small towns.

## Reference date/period

From 25 September 2003 to 24 September 2004.

At the first stage, the enumeration day; at the second stage 1 October 2004.

## Reference date/period

At the first stage, the enumeration day; at the second stage 1st October 2004.

## Definition

- **Person operating a holding** is a natural person (a household member or the top manager of an enterprise) which is directly responsible for operating the holding.
- **Holder** is a natural person, group of natural persons or other subjects which takes basic decisions on use of resources of the holding, operates the holding directly or controls its operations by a specially assigned person and has financial and economic rights and responsibility for the holding.
- **Holding** is an economic unit engaged in agricultural production under single management without regard to its size and legal status.

## Coverage

At the first stage, the census was conducted in 912 rural sakrebulo (communities) of 60 districts of Georgia, and at the second stage in 92 small towns (among them 60 district centres). Five large cities (Tbilisi, Kutaisi, Batumi, Rustavi, Poti) were not covered. The census was not conducted in uncontrolled territory of Abkhazia (except Kodori gorge) and Tskhinvali Region (former South Ossetia).

## Frame

The territory covered by the census was divided into 1 316 supervisor areas (1 062 in the rural and 254 in the urban area). Each supervisor area was divided into enumeration areas (on average 6 enumeration areas per supervisor area in villages and 5 enumeration areas in small towns). In total, 7 200 enumeration areas were created in Georgia (5 904 in the rural area and 1 296 in the urban area). Each enumeration area was working grounds for one enumerator. One supervisor was responsible for each supervisor area. In each district, the census was supervised by the head of district statistical office and a special representative of Department of Statistics.

## Method

Due to the fact that sufficient resources for the full scope census could not be allocated in the State budget of 2004, the field work of the census was conducted in two stages. The second stage was indispensable because small towns of Georgia by their lifestyle are very similar to the rural area and more than two thirds of their households are engaged in agriculture.

## Data source

Agricultural Census of Georgia 2004. Ministry of Economic Development of Georgia, Department of Statistics, Georgia.

## Contact

Ministry of Economic Development of Georgia, Department of Statistics, 4 Beijing str., Tbilisi 0115, Georgia.

Tel.: (+995) 32 367 210 ext. 011; Fax: (+995) 32 367 213;

E-mail: info@statistics.gov.ge.

## Website

<http://www.statistics.ge>

# GEORGIA - Agricultural Census 2003/04 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	729 542	886 766

NUMBER AND AREA OF HOLDINGS BY SIZE		
	Number of holdings	Area (ha)
Total	729 542	886 766
without land	3 776	-
under 0.06 ha	35 464	1 274
0.06 to 0.09 ha	34 660	2 406
0.1 to 0.19 ha	68 107	9 696
0.2 to 0.49 ha	153 448	48 652
0.5 to 0.99 ha	216 990	151 240
1.0 to 1.99 ha	167 656	207 570
2 to 2.99 ha	23 381	54 970
3 to 3.99 ha	10 018	33 994
4 to 4.99 ha	4 473	19 620
5 to 9.99 ha	6 541	42 663
10 to 19.99 ha	2 685	35 453
20 to 49.99 ha	1 217	35 833
50 to 99.99 ha	497	33 029
100 to 199.99 ha	315	42 393
200 to 499.99 ha	236	71 796
500 ha and over	78	96 179

FRAGMENTATION		
	Number of holdings	Number of parcels
Total holdings	729 542	1 694 758
Holdings consisting of:		
1 parcels	247 312	247 312
2 to 3 parcels	356 032	847 237
4 to 5 parcels	94 482	408 199
6 to 9 parcels	28 372	190 978
10 parcels and over	89	1 032
not indicated	3 255	-

LEGAL STATUS		
	Number of holdings	Area (ha)
Total number of holdings	729 542	886 766
Holdings operated by:		
Family holdings	728 247	757 908
Agricultural enterprises	820	89 534
Other type of holdings	475	39 325

HOLDERS BY SEX		
	Number of holders	Area (ha)
Total (civil persons)	729 542	886 766
Male	517 150	646 688
Female	211 800	190 472
Not indicated	592	49 607

HOLDINGS BY PURPOSE OF PRODUCTION		
	Number of holdings	Area (ha)
Total	729 542	886 766
Producing mainly for self consumption	594 858	580 147
Producing mainly for sale	129 498	274 266
Not indicated	5 186	32 353

TENURE OF LAND		
	Area (ha)	
Total	886 766	
Owned land	578 282	
Rented from state	295 911	
Rented from a private person	12 573	

LAND USE		
	Area (ha)	
All land	886 766	
Agricultural land	839 709	
Cropland	572 646	
Arable land	472 431	
Temporary crops	391 058	
Fallow land	81 062	
Land under protective cover	311	
Permanent crops	100 215	
Permanent meadows and pastures	267 063	
All other land	47 057	

TEMPORARY CROPS		
	Area (ha)	
Fodder crops	20 272	
Maize for grain	162 875	
Melons	4 958	
Poatoes	28 743	
Sunflower	23 838	
Vegetable	30 728	
Wheat	94 685	

MAIN PERMANENT CROPS			
		Compact plantation	Scattered trees
Orchard	Area (ha)	36 988	
	Number of trees	14 354 470	10 705 034
Cherry (including sour)	Area (ha)	588	
	Number of trees	180 642	661 406
Plums	Area (ha)	1 399	
	Number of trees	398 122	1 085 594
Pears	Area (ha)	1 324	
	Number of trees	359 271	1 007 432
Peaches	Area (ha)	3 123	
	Number of trees	1 295 345	628 220
Apples	Area (ha)	11 010	
	Number of trees	2 357 299	1 400 677
Walnuts	Area (ha)	1 022	
	Number of trees	153 287	833 223
Halzenuts	Area (ha)	15 547	
	Number of trees	8 583 715	1 586 765

LIVESTOCK		
	Holdings reporting	Head/units
Cattle	399 943	1 157 781
Buffaloes	15 401	29 541
Sheep	48 969	648 717
Goats	26 493	97 824
Pigs	244 986	489 936
Horses	32 437	38 165
Mules and Asses	11 439	12 792
Rabbits	2 880	15 413
Nutrias	104	649
Beehives	16 272	152 364
All holdings (total poultry)	501 985	9 520 185
Family holdings (total poultry)	501 895	8 615 309
Agricultural enterprises (total poultry)	71	904 607

MACHINERY		
Machines	Number of owning holdings	Units
Tractors	14 581	15 096
Single-axle tractors	19 791	20 537
Harvester -threshers (combines)	1 088	1 181
Lorries	18 526	18 778
Cars	61 101	61 324

# GERMANY - Agricultural Census 1999/2000 - Explanatory Notes

## Historical outline

Beginning with 1949, agricultural censuses have been carried out in Federal Republic of Germany in 1960, 1971, 1979. Since 1975 an agricultural report, based on agriculture structure survey, was also prepared regularly at two-yearly interval. The agricultural census of 1999 followed the 1991 census which was the first carried out in the unified Germany.

## Organization

The agricultural census was carried out as per notification of June 1998 issued under amended Agricultural Statistics Law. The amended law envisaged harmonizing definition of thresholds for holding for integrating important surveys, reducing the respondent burden, greater use of representative surveys and administrative data. The Federal Statistical Office undertook the methodological preparation, processing of results, and coordination with the Landers (regions) who in turn carried out the census with the support of municipalities.

## Enumeration period

The questionnaire for the main survey were despatched in May 1999 and were followed up to November 1999. The wine-growing survey, which was based on vineyard register, was carried out in 1999.

## Reference date/period

- **Crops:** normally the day of the questioning, between January and May 1999.
- **Livestock:** 3rd May 1999
- **Farm labour:** Family labour and permanently employed non-family workers: 4 weeks from 29 March to 25 April 1999, Non-permanently employed workers, including seasonal workers: 12 months before the questioning, from May 1998 to end of April 1999, Family labour, permanently employed workers and non-permanently employed workers: 12 months before the questioning, from May 1998 to end of April 1999, divided into 4 working-time-groups.

## Definition

**Holding:** A holding is a single economic unit having a single management and producing agricultural, forestry and fish products and its scale of operation is above a specified size. The general survey (total) included following groups of holdings: with an area used for agriculture of two hectares or more or a minimum stock of animals (8 bovines, 8 pigs, 20 sheep, 200 laying hens/ broilers/ geese) or producing special crops (0.3 ha of vineyards/ hops/tobacco/tree nurseries/ outdoor flowers/market gardening and cultivation under glass cover/ medicinal plants); holdings with a wooded area of at least 10 ha. The cut-offs applied for 1999 census are higher for cropped land area, wooded land area, area under special crops, and lower for number of sheep as compared to those applied to 1991 census.

## Coverage

Geographically, the survey covered the entire territory of the unified Germany.

## Frame

The list of holding prepared for 1995 agricultural structure survey was updated on the basis of Farm Register and information from agricultural association.

## Method

Agricultural census programme was subdivided into a **general survey** which covered all the agricultural, forestry, market gardening and wine-growing holdings, and **special sample surveys** focused on activities like wine-growing, market gardening, and inland water fishing. In the May 1999 survey programme, the two component of census programme were implemented together. The information on land use, crops, livestock, socio-economic conditions of holding, labour force, tenancy, ownership and succession etc. was collected by 100 percent coverage.

## Data source

Farm Structure Survey 1999/2000, 2003 Edition, Agriculture and Fisheries Theme 5. European Commission, Eurostat.

## Contact

Statistisches Bundesamt, Gustav, Stresemann, Ring 11, D-65189 Wiesbaden, Germany. Tel.: (+49) 611 752 405;

Fax: (+49) 611 753 330;

E-Mail: Info@Statistik-Bund.de.

## Website

<http://www.destatis.de>

# GERMANY - Agricultural Census 1999/2000 - Main Results

NUMBER AND TOTAL AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	471 960	19 097 900

NUMBER AND TOTAL AREA OF HOLDINGS BY SIZE OF AGRICULTURAL AREA		
	Number of holdings	Area (ha)
Total	471 960	19 097 900
without agricultural land	2 070	9 290
0 - 1.99 ha of agricultural area	35 760	54 500
2 - 4.99 ha	79 800	410 020
5 - 9.99 ha	73 950	714 450
10 - 19.99 ha	87 360	1 578 670
20 - 29.99 ha	51 770	1 514 570
30 - 49.99 ha	62 580	2 755 890
50 - 99.99 ha	54 310	4 078 210
>= 100 ha	24 360	7 982 300

LEGAL STATUS		
Holdings operated by:	Number of holdings	
Civil Persons	440 060	-
Other	31 900	-

TENURE OF AGRICULTURAL LAND		
		Agricultural area (ha)
Total	-	17 151 560
Owned	-	6 224 280
Rented	-	10 766 640
Other forms of tenure	-	160 640

HOLDERS (INDIVIDUALS) BY SEX		
	Number of holders	
Total	440 060	-
Male	401 130	-
Female	38 930	-

HOLDERS (INDIVIDUALS) BY AGE		
	Number of holders	
Total	440 060	-
< 35 years of age	72 530	-
35 to 44	128 940	-
45 to 54	113 800	-
55 to 64	99 110	-
65 >	25 680	-

HOLDERS AND MEMBERS OF THEIR HOUSEHOLD ENGAGED IN AGRICULTURAL WORK ON THE HOLDING		
	Number of persons	
Total	940 810	-
Male	588 130	-
Female	352 680	-
Of which, full time:		
Total	231 490	-
Male	202 520	-
Female	28 980	-

HIRED PERMANENT WORKERS		
	Number of workers	
Total	195 730	-
Of which, full time:	150 880	-

LAND USE		
	Number of holdings	Area (ha)
All land	471 960	19 097 900
Agricultural land	-	17 151 560
Cropland	-	12 037 760
Arable land	356 510	11 830 080
Of which: kitchen gardens	57 970	8 600
Permanent crops	67 890	207 680
Permanent mead./pastures	371 170	5 113 800
Wood / forest land	246 520	1 496 790
All other land	-	449 550

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Wheat, total	-	2 601 120
Soft wheat	200 160	2 589 100
Durum wheat	1 930	12 020
Rye	57 460	756 920
Barley	239 840	2 210 350
Oats	162 440	695 550
Maize	41 690	370 740
Dry pulses	20 900	212 200
Potatoes	96 170	308 500
Sugarbeets	48 250	489 160
Industrial plants	88 020	1 466 530
Rapeseed and Turnip	78 970	1 198 040
Tobacco	660	4 310
Hops	2 330	18 490
Sunflowerseed	3 610	33 350
Vegetables (in the open)	20 690	101 020

LIVESTOCK		
	Holdings reporting	Number of head
Cattle, total	237 960	14 895 810
of which: dairy cows	152 650	4 765 140
Sheep	33 980	2 723 660
Pigs	141 450	26 101 030
Chickens, total	-	68 970 000
Broilers	115 120	58 330 000
Laying hens	15 460	10 640 000

# GREECE - Agricultural Census 1999/2000 - Explanatory Notes

## Historical outline

First census of agriculture and livestock was carried out in 1860. First systematic agricultural census was carried out in 1911. Greece also participated in the 1929 World Census organized by International Institute of Agriculture and the 1950 World Census of Agriculture organized by FAO. From 1961 to 1991 decennial censuses of agriculture and livestock farming were organized parallel with the population censuses. In 1996 a special survey was carried out for updating the register of agricultural and livestock holdings. In order to synchronize the timings of agricultural census with the EU Farm Structure Survey the 1999/2000 census was organized ahead of population census.

## Organization

Census was carried out on the basis of a Presidential Decree issued under the law establishing National Statistics service of Greece (NSSG). The Division for Structural Statistics of NSSG in the Ministry of Economy and Finance was responsible for carrying out the census in conjunction with co-responsible departments of NSSG. The division played the lead role in the overall planning of the survey and the data collection and processing was carried out by Statistical Services of 51 prefectures of Greece. Field work was carried out by the municipalities and rural districts by 10 000 enumerators.

## Enumeration period

The updating of list of holdings was carried out during September to November 1999. The actual taking of census was carried out during December 1999 to February 2000.

## Reference date/period

The livestock numbers refer to 1 November 1999. The stock of farm-owned machinery was 30 September 1999. The data on crops relate to the period from 1 September 1998 to 30 September 1999.

## Definition

**Holding** - A holding is a single unit, both technically and economically, having a single management and producing agricultural products. The survey covered holdings above the threshold of:

- at least 0.1 ha of utilized land or 0.05 ha of green houses; or owning one or more cows or two more large animals (oxen, horses, donkeys, mules) or 5 or more small animals (sheep, goat, pigs) or fifty or more poultry or 20 or more hives.

## Coverage

The census was carried out in all the municipalities and rural districts of Greece, and the agricultural and livestock holdings which qualified the coverage criteria were covered. Statistically, the survey covered all agricultural, livestock and mixed holding which satisfied the following criteria:

- made use of at least 0.1 ha of utilized land or 0.05 ha of green houses; or
- owns one or more cows or two more large animals (oxen, horses, donkeys, mules) or 5 or more small animals (sheep, goat, pigs) or fifty or more poultry or 20 or more hives.

## Frame

The census was carried out on the basis of a Register of Agricultural and Livestock Holdings as it stood following the special updating survey conducted in 1996. This register was updated by door-to-door enquiry from dwellings located in each census section to prepare a nominative list of holdings (frame) to be surveyed for obtaining the detailed information. Cartographic material was used to ensure that the no part of the territory is excluded.

## Method

The census was a complete enumeration of all holdings which satisfied the threshold criteria. Face to face interviews of occupiers of holdings were conducted by trained enumerators (10 000 persons) to obtain data on the main census questionnaire. Working groups at national, prefecture and municipal/district level were constituted with specific responsibilities for smooth conduct of census. Data quality checks were applied at all stages of data collection, inputting and processing.

## Data source

Farm Structure Survey 1999/2000, 2003 Edition, Agriculture and Fisheries Theme 5. European Commission, Eurostat.

## Contact

National Statistical Office, Division of Structural Statistics, Lycourgon St., Athens, 10166, Greece.

Tel.: (+30) 210 485 2022, (+30) 210 485 2307; Fax. (+30) 210 485 2312; E-mail: data.dissem@statistics.gr.

## Website

<http://www.statistics.gr>



# GREECE - Agricultural Census 1999/2000 - Main Results

NUMBER AND TOTAL AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	817 060	3 875 180

NUMBER AND TOTAL AREA OF HOLDINGS BY SIZE OF AGRICULTURAL AREA		
	Number of holdings	Area (ha)
Total	817 060	3 875 180
Holdings without agric. land	5 740	2 020
0 - 2 ha of agricultural area	394 950	440 020
2 - 5 ha	226 500	797 380
5 - 10 ha	109 000	791 000
10 - 20 ha	52 670	739 860
20 - 30 ha	14 490	352 400
30 - 50 ha	9 430	355 580
50 - 100 ha	3 350	225 720
>= 100 ha	930	171 200

LEGAL STATUS		
Holdings operated by:	Number of holdings	
Civil Persons	816 530	-
Other	530	-

TENURE OF AGRICULTURAL LAND		
		Agricultural Area (ha)
Total	-	3 583 190
Owned	-	2 518 970
Rented	-	993 640
Other forms of tenure	-	70 580

HOLDERS (INDIVIDUALS) BY SEX		
	Number of holders	
Total	816 530	-
Male	611 390	-
Female	205 140	-

HOLDERS (INDIVIDUALS) BY AGE		
	Number of holders	
Total	816 530	-
< 35 years of age	71 250	-
35 to 44	125 550	-
45 to 54	164 980	-
55 to 64	201 290	-
65 >	253 460	-

HOLDERS AND MEMBERS OF THEIR HOUSEHOLD ENGAGED IN AGRICULTURAL WORK ON THE HOLDING		
	Number of persons	
Total	1 420 790	-
Male	828 420	-
Female	592 370	-
Of which, full time:		
Total	142 000	-
Male	105 670	-
Female	36 340	-

HIRED PERMANENT WORKERS		
	Number of workers	
Total	10 470	-
Of which, full time:	5 920	-

LAND USE		
	Number of holdings	Area (ha)
All land	817 060	3 875 180
Agricultural land	-	3 583 190
Cropland	-	2 977 910
Arable land	431 220	1 976 290
of which: kitchen gardens	204 020	10 820
Permanent crops	596 860	1 001 620
Permanent mead./pastures	79 580	605 280
Wood / forest land	11 260	35 280
All other land	-	256 710

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Wheat, total	-	744 610
Soft wheat	59 400	157 420
Durum wheat	128 370	587 190
Rye	8 730	19 210
Barley	52 910	98 000
Oats	35 790	60 840
Maize	93 900	183 320
Dry pulses	22 440	12 020
Potatoes	49 710	20 080
Sugarbeets	17 390	32 880
Industrial plants	132 350	476 360
Tobacco	51 610	56 230
Cotton	78 370	382 800
Sunflowerseed	10 310	34 840
Soybeans	40	100
Vegetables (grown in the open)	59 110	57 540

PERMANENT CROPS		
	Holdings reporting	Area (ha)
Citrus fruits	79 090	47 200
Olives	491 630	737 160
Grapes	171 270	97 570

LIVESTOCK		
	Holdings reporting	Number of head
Cattle, total	28 330	652 390
of which: dairy cows	12 060	153 790
Sheep	128 550	8 752 670
Goats	138 250	5 327 200
Pigs	36 250	969 850
Chickens, total	-	38 320 000
Broilers	133 230	26 100 000
Laying hens	310 550	12 220 000

MACHINERY		
	Holdings reporting	Units
Tractors belonging to the holding (owned)	199 750	218 990
Tractors not belonging to the holding	391 100	-

# GUADELOUPE - Agricultural Census 2000 - Explanatory Notes

*Guadeloupe is part of the French Territory and it is only for statistical purposes that it is recorded as a separate entity in the North and Central American Region. Consequently, results related to France bear only to the territory of France in Europe (France Metropolitaine).*

## Historical outline

The 2000 Agricultural Census is the third conducted in Guadeloupe after the ones in 1980/81 and 1988/89.

## Organization

The census was organized by the Statistical Service of the French Ministry of Agriculture and Fisheries through the Departmental Services of Agriculture and Forestry, the Regional Services of Agriculture and Forestry, and the Central Service of Statistical Surveys and Studies.

## Enumeration period

The enumeration period was October 2000 to January 2001.

## Reference date/period

Livestock numbers refer to all animals present on the holding on the day of enumeration. Land use refers to the period during 1 November 1999 to 31 October 2000.

## Definition

- **Exploitation Agricole** (Agricultural holding): An economic unit of agricultural production under single management, reaching minimum limits in terms of size or agricultural production, such as:
  - 1 ha of agricultural area in use, or
  - 20 acres (1 acre = 0.40469 ha) of specialized crops, or
  - threshold level of agricultural production, estimated either in terms of productive area (e.g. 10 acres of bananas of export varieties, 10 acres of sugarcane etc.) or in terms of number of animals (e.g. 10 cows, 10 bee-hives etc.).
- **Le Siège de l'exploitation** (Holding's headquarters): The place where the holding is located, consisting of holding's main buildings or, its largest parcel.
- **Les Actifs Agricoles** (Agricultural workers): Consist of family workers and of paid permanent and temporary/seasonal workers.
- **Les Actifs Familiaux** (Family workers): Include the holding's head of household and household members engaged in agricultural activity on the holding.

## Coverage

The census covered the entire country.

## Frame

In a first stage, a list of holdings to be interviewed was built by the Statistical Service of the Ministry of Agriculture and Fisheries, based on already existing files. In a second stage, the list was validated in collaboration with the mayors of each municipality (commune) at the Municipal Commission office.

## Method

Complete enumeration of all holdings was conducted through direct interviews.

## Data source

Agreste n.1 Juillet 2001, France Recensement Agricole 2000. Les Départements d'Outre-Mer (DOM) – Guadeloupe, Premiers Résultats.

## Contact

- Direction de l'Agriculture et de la Forêt. Service de Statistique Agricole. Jardin botanique Circonvallation.  
Tel.: (+33) 590 990 908 ; Fax: (+33) 590 990 920; E-mail: daf971@agriculture.gouv.fr.
- Ministère de l'Agriculture et de la Pêche. Centre de documentation et d'information agricole (CDIA).  
Tel.: (+33) 1 495 585 85; Fax: (+33) 1 495 585 03; E-mail: scees-cdia@agriculture.gouv.fr.

## Website

<http://www.agreste.gouv.fr>

# GUADELOUPE - Agricultural Census 2000 - Main Results

<b>NUMBER AND AREA OF HOLDINGS</b>		
	Number of holdings	Area (ha)
Total	12 160	41 700

<b>EMPLOYMENT IN AGRICULTURE</b>	
	Number of workers
Hired permanent workers	5 130

<b>LAND USE</b>	
	Area (ha)
Agricultural land	41 700
of which irrigated	5 500

<b>TEMPORARY CROPS</b>		
	Holdings reporting	Area (ha)
Sugarcane	7 591	14 060
Flowers	113	180

<b>PERMANENT CROPS</b>		
	Holdings reporting	Area (ha)
Bananas	2 888	5 010
Pineapples	459	240

<b>LIVESTOCK</b>	
	Head/units
Cattle	65 000
Pigs	26 420
Sheep	3 690
Goats	33 880
Chickens	427 660
Beehives	1 850

# GUAM - Agricultural Census 2002 - Explanatory Notes

## Historical outline

For more than 150 years the U.S. Department of Commerce, Bureau of the Census, was in charge of conducting the Census of Agriculture in the United States and, consequently, in the Outlying Areas (*i.e. The Virgin Islands of the U.S., Guam, American Samoa and Northern Mariana Islands*). This responsibility was transferred in 1997 to the National Agricultural Statistics Service (NASS) of the U.S. Department of Agriculture (USDA). The first agricultural census of Guam was taken by the US Secretary of Commerce in 1920. The second was taken in 1930 in conjunction with the decennial census, a practice that continued every 10 years through 1960. In 1964 the first Census of Agriculture in the series of quinquennial (*five-year*) censuses in Guam was carried out. Next censuses were conducted in 1978 and 1982 in order to adjust the data-reference year to coincide with other economic censuses. After 1982, the agriculture census reverted to a 5-year cycle for the years ending in 2 and 7. The 2002 census of agriculture, to which data here refer, is the 14th taken in Guam and the second conducted by NASS in Guam.

## Organization

Census data were collected in accordance with a Memorandum of Understanding approved by the Administrator of NASS, and by the Commissioner of Agriculture of Guam. It was conducted with the cooperation and assistance of Guam Department of Agriculture.

## Enumeration period

Data were collected during the spring season of 2003.

## Reference date/period

Inventories of livestock, poultry, machinery and equipment were the numbers on hand at the time of enumeration. Crop production, crop and livestock sales and expense data were those belonging to the 12- months period between 1 January and 31 December 2002.

## Definition

"Farms and Operations" were the agricultural holdings from which \$ 1 000 and more of agricultural products were produced and sold, or normally would have been sold, during the reference year.

## Coverage

The census covered the entire island of Guam.

## Frame

Enumeration was based on a list of farm operators compiled by the Guam Department of Agriculture.

## Method

Complete enumeration of all holdings qualifying as farms according to the census definition was carried out. Direct interview of farm operators were conducted. If the person listed in the frame was no more operating his/her farm, the enumerator recorded whether the land had been sold or rented to someone else, and if it was still being used for agriculture. If the land was sold or rented out, the enumerator got the name of the new operator and contacted that person in order to ensure that he/she was included in the census.

## Data source

Census of Agriculture 2002, Vol.1, Geographic Area Series, Part 53 September 2004. United States Department of Agriculture (USDA), National Agricultural Statistics Service (NASS), Guam.

## Contact

- United States Department of Agriculture (USDA), or National Agricultural Statistics Service (NASS), 1400 Independence Ave, S.W. Washington, DC 20250. E-mail: [nass@nass.usda.gov](mailto:nass@nass.usda.gov).
- Department of Agriculture, 163 Dairy Road Mangilao, Guam 96913. Tel.: (+1) 671 735 3942; Fax: (+1) 671 734 6569.

## Website

<http://www.nass.usda.gov/census>

# GUAM - Agricultural Census 2002 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area of holdings (ha)
Total	153	667

  

NUMBER AND AREA OF HOLDINGS BY SIZE		
	Number of holdings	Area of holdings (ha)
Total	153	667
Under 0.4 ha	16	3
0.4 - 1.2 ha	38	21
1.2 - 2 ha	16	21
2 - 3.2 ha	21	47
3.2 - 4 ha	11	37
4 - 8.1 ha	27	127
8.1 - 16.2 ha	17	168
16.2 - 20.2 ha	-	-
20.2 and over	7	243

HOLDERS BY AGE		Number of holders
Total		153
under 35 years		3
35 to 44 years		19
45 to 54 years		49
55 to 64 years		43
65 years and over		39

HOLDERS BY MAIN TYPE OF ACTIVITY		Number of holders
Total holders		153
Engaged in:		
Agricultural work on the holding		134
Work off the holding		19

HIRED PERMANENT WORKERS		
	Holdings reporting	Number of workers
Total	34	94

LEGAL STATUS		Holdings
Total		153
One individual		135
2 or more individuals		11
Corporation		7

AREA BY TENURE		Area (ha)
Total		667
Area owned		287
Area rented		380

LAND USE		Area (ha)
Total land		667
Agricultural land		589
Cropland		498
Harvested cropland		302
Other cropland		196
Land under permanent meadows and past.		91
All other land		78

IRRIGATION		Area (ha)
Area irrigated		312

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Watermelons	19	71
Okra	35	10
Cucumbers	51	41
Cantaloupes	3	6
Eggplant	85	27
Hot peppers	52	6
Maize	8	8
Taro (cocoyam)	30	6
Tomatoes	44	8
Chinese cabbage	22	8
Yams	11	2
Cassava	15	4
Sweet potatoes	25	15
Pumpkins & Squash	34	11

PERMANENT CROPS		
	Holdings reporting	Number of trees
Avocados	6	82
Bananas	51	28 144
Betelnuts	15	1 625
Breadfruit	5	140
Guavas	8	159
Coconut	8	1 241
Lemons/Limes	26	3 449
Starfruit	5	30
Mangoes	9	275
Oranges	1	-
Papayas	25	3 963
Soursops	5	99
Sweetsoups	11	272

LIVESTOCK		
	Holdings reporting	Number of head
Cattle	12	154
Pigs	34	654
Goats	6	81
Horses	1	4
Chickens	-	2 703
Ducks	11	450
Pigeons	1	7
Carabaos	8	97

MACHINERY/EQUIPMENT		
	Holdings	Units
Tractors	86	138
Trucks	143	213

# GUATEMALA - Agricultural Census 2003 - Explanatory Notes

## Historical outline

The first National Census of Agriculture (I Censo Nacional Agropecuario [CENAGRO]) was conducted in Guatemala in 1950. The second and third CENAGRO were carried out in 1964 and 1979. CENAGRO 2003 was the fourth agriculture census in the country.

## Organization

The National Statistical Institute (INE) of Guatemala was the responsible office for development of the Integrated Project for National Censuses, which included, in addition to the 4th National Census of Agriculture (IV CENAGRO), presented here also the 9th Population Census and the 6th Housing Census. Other government agencies and institutions collaborated at national and local level with INE in the organization and conducting of the Census of Agriculture; the principal partner being the Ministry of Agriculture, Livestock and Food (MAGA). Food and Agriculture Organization of the United Nations (FAO) provided technical assistance.

## Enumeration period

The Enumeration was conducted during 4 – 31 May 2003.

## Reference date/period

- **The day of the interview** (one day between 4 and 31 of May 2003): for items like general characteristics of holding, fragmentation, legal status, tenure, land use, number of large and medium livestock, poultry, rabbits, bee-hives, machinery and equipment present on the holding.
- **The day before the interview:** for number of pregnant cows, sheep and goats and for milk and egg production.
- **The agricultural year** (1 May to 30 April) 2002/03: for area harvested and production of temporary crops; area planted, harvested and production of permanent and semi-permanent crops; use of fertilizers; cattle births and deaths; honey and wax production; technical and financial assistance to holders; machinery and equipment used on the holding; employment on the holding during the agricultural year.

## Definition

**Finca Censal:** All land owned or rented totally or partially by the holder and kept for agricultural production. It may consist of one or more parcels, if located in the same municipality and managed by one or more individuals or juridical persons sharing the same production means.

## Coverage

The IV CENAGRO covered the entire country, excluding some areas, like in the Municipality of Andrés Sajcabajá, Department of Quiché, where insecurity problems arose. 90.2 percent of all agricultural holdings and 89.9 percent of holders were covered.

## Frame

On the occasion of the complete census, the existing lists of agricultural holdings are refreshed and kept updated. This was a basic exercise to build a sampling frame for inter-censal agricultural surveys.

## Method

Prior to start of main census operations, a Pilot Census was conducted during 27 to 29 January 2003 in six municipalities, in order to test the quality of census preparations. Then, complete enumeration of agricultural holdings was carried out through a direct interview.

## Data source

VI Censo Nacional Agropecuario, Características Generales de las Fincas Censales y de Productoras y Productores Agropecuarios, Resultados Definitivos, Tomo I Enero 2004. Guatemala.

## Contact

Instituto Nacional de Estadística (INE), Oficinas Centrales y Centro de Información Dirección, 8a calle 9-55 z.1, Ciudad de Guatemala. Tel.: (+502) 223 228 70, (+502) 223 231 88.

## Website

<http://www.ine.gob.gt/index.php/agricultura>

# GUATEMALA - Agricultural Census 2003 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area of holdings (ha)
Total	830 684	3 750 855

NUMBER AND AREA OF HOLDINGS BY SIZE		
	Number of holdings	Area (ha)
Total	830 684	3 750 855
0.4 - 0.7 ha	375 708	121 655
0.7 - 1.4 ha	185 196	170 976
1.4 - 3.5 ha	157 681	317 124
3.5 - 7.1 ha	46 099	210 296
7.1 - 22.6 ha	39 599	475 998
22.6 - 45.2 ha	10 929	332 138
45.2 - 452 ha	14 593	1 299 209
452 - 903.2 ha	610	361 983
903.2 - 2258 ha	222	284 784
2258 - 4516 ha	37	114 187
4516 - 9032 ha	9	50 973
9032 ha and over	1	11 530

LEGAL STATUS		
	Number of holdings	Area (ha)
Total	830 684	3 750 855
Civil person	815 456	3 221 226
Corporation	1 391	410 951
Cooperative	6 274	68 145
Government	4 632	28 928
Others	2 931	21 605

HOLDINGS BY TENURE		
	Number of holdings	Area (ha)
Total	830 684	3 750 855
Under one form of ten.	717 620	3 416 853
Owned	610 691	3 122 942
Rented	81 744	190 304
Other single forms	25 185	103 607
More than one form of t.	113 064	334 002

HOLDERS BY SEX		
	Number of holders	
Total	819 162	
Male	755 535	
Female	63 627	

HOLDERS BY AGE		
	Number of holders	
Total holders reporting	654 441	
Under 18 year	1 538	
18 to 24 years	46 490	
25 to 34 years	144 763	
35 to 44 years	167 812	
45 to 54 years	133 680	
55 to 64 years	85 135	
65 years and over	75 023	
Holders not reporting age	164 721	

LAND USE		
	Number of holdings	Area (ha)
All land	830 796	3 748 037
Agricultural land		2 949 325
Cropland		2 051 313
Arable land	767 798	1 426 698
Permanent crops	209 979	624 615
Perm. mead./past.	54 330	898 012
Wood/forest land	104 184	606 987
All other land	272 736	191 725

TEMPORARY CROPS		
	Holdings reporting	Area harvested (ha)
Maize (white)	589 377	565 108
Maize (yellow)	190 622	90 474
Maize (other)	18 495	5 068
Sorghum	21 266	26 248
Sorghum for silage	27	381
Wheat	4 870	1 442
Rice	2 756	4 773
Potatoes	26 984	6 813
Sesame seed	7 018	16 906
Groundnuts	2 830	1 829
Black beans	292 961	210 435
Broad beans	19 052	6 758
Tobacco	732	2 477
Ayote (Cucurbita Pepo)	14 659	7 240
Onions	4 997	1 346
Melons	108	5 593
Cucumbers	552	421
Beets	1 467	287
Chinese Cabbage	2 450	576
Watermelons	713	1 475
Tomatoes	5 398	3 438
Carrots	4 098	917

PERMANENT CROPS		
	Holdings reporting	Area (ha)
Avocados	57 876	5 595
Bananas	68 948	23 695
Cocoa	9 172	2 719
Coffee	171 334	270 049
Sugarcane	14 092	189 459
Cardamon	57 434	46 647
Plums and prunes	11 394	1 189
Peaches	53 059	3 095
Flowers/Ornamental plants	4 705	2 411
Chayote (Sechium edule)	4 144	1 235
Rubber	987	38 609
Lemons	40 773	5 451
Macadamia nuts	350	3 043
Mangoes	42 426	8 605
Apples	29 599	3 184
Oranges	60 280	5 363
Oil palm	49	31 299
Papayas	5 678	1 005
Pineapples	7 560	2 379
Plantains	14 879	11 992

LIVESTOCK		
	Number of holdings reporting	Head/units
Cattle	106 789	1 627 522
Buffaloes	95	1 948
Sheep	39 080	313 504
Goats	9 673	50 152
Vicuñas, Guanacos, Alpacas, Llamas, Total	3 233	27 178
Pigs	110 861	419 170
Horses	87 608	160 813
Mules	31 995	47 624
Asses	7 127	10 238
Chickens, Cocks, Pullets	229 379	21 518 212
Quails	1 203	91 701
Ducks	54 428	296 148
Turkeys	83 572	338 743
Rabbits	6 905	37 125
Beehives	4 608	60 039

# GUINEA - Agricultural Census 2000/01 - Explanatory Notes

## Historical outline

Data presented here refer to the second Agricultural Census in Guinea, conducted during the year 2000/01. Prior to this one, Guinea had conducted another census during the year 1988/89.

## Organization

The Census has been organized by the "Ministère de l'Agriculture, de l'Elevage, des Eaux et Forêts, Services National de Statistiques Agricoles".

## Reference date/period

For data on population, agricultural exploitation and parcels the reference period is January to March 2003. For data on land, agricultural production, agricultural materials and labour the reference period is from June to August 2003. For data on modern sector, the reference period is from November to December 2003.

## Definition

- **Traditional holdings:** traditional or individual holdings correspond to management or agricultural families working in agricultural sector using traditional factors of production usually used in the zone.
- **Modern holdings (or "large holdings")** one section or the units of agricultural, breeding, forest or fishing production using production factors which allow them to reach important production volumes.
- **Parcel:** an isolated part of a holding land, managed by a single holder, corresponding to a field or to a field section in which is produced a single culture or an association of cultures.

## Coverage

The second Agricultural Census in Guinea has covered the different components of the agriculture sector in the country, including:

- The rural sector and the urban sector;
- The traditional sector (both individual and collective holdings);
- The modern sector and the large holdings sector.

## Frame

The sampling was based on enumeration zones as primary units established by the 1996 General Census of Population and Environment. For any primary unit, a system of regions and prefectures was used as a frame, including the urban and rural areas. The number of the households, the total number of inhabitants of which the total number of the women were also considered for establishing primary units.

## Method

Due to the difficulties involved in an exhaustive enumeration of the Guinean agriculture, the National Agricultural Census was taken as a sample-census. Therefore, it is considered as a widening of the Permanent Agricultural Inquiry, at both at the level of sampling fractions and variables covered. The survey method involved random sampling. A prefecture was considered as belonging to only one administrative area. The survey plan considered prefectures as layers or basic administrative subdivisions for the collection of data.

## Data source

Recensement National de l'Agriculture, Campagne agricole 2000/01, Mai 2004. Ministère de l'Agriculture, de l'Elevage, des Eaux et des Forêts, Service National des Statistiques Agricoles, République de Guinée.

## Contact

Direction Nationale de la Statistique, Boulevard du Commerce B.P. 221 Conakry, République de Guinée.  
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## Website

<http://www.stat-guinee.org>



# GUINEA - Agricultural Census 2000/01 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Cultivated area (ha)
Total	840 454	1 370 145
Of which irrigated	-	28 325

CULTIVATED AREA BY SIZE OF PLOT (PARCELLE)		
	Number of holdings	Cultivated area (ha)
Total cultivated area	-	1 370 145
Under 0.1 ha	-	14 498
0.1 and under 0.2 ha	-	56 124
0.2 and under 0.3 ha	-	73 408
0.3 and under 0.5 ha	-	161 610
0.5 and under 0.75 ha	-	208 388
0.75 and under 1 ha	-	174 976
1 and under 1.5 ha	-	247 814
1.5 and under 2 ha	-	135 876
2 and under 3 ha	-	133 254
3 and under 5 ha	-	104 816
5 ha and over	-	59 381

HOLDERS BY SEX		
	Number of holders	
Total	840 454	-
Male	792 892	-
Female	47 562	-

HOLDER'S HOUSEHOLD MEMBERS BY SEX		
	Number of persons	
Total	6 364 790	-
Male	3 080 251	-
Female	3 284 539	-

HOLDER'S HOUSEHOLD MEMBERS BY AGE		
	Number of persons	
Total	6 364 790	-
Under 5 years of age	984 272	-
5 to 9	1 184 191	-
10 - 14	801 733	-
15 - 24	988 938	-
25 - 34	777 926	-
35 - 44	626 351	-
45 - 54	455 788	-
55 - 64	294 565	-

HOLDINGS BY NUMBER OF HIRED WORKERS EMPLOYED		
	Number of holdings	
Total number	840 454	-
with hired workers, total	47 135	-
less than 5 workers	6 738	-
5 to 9 workers	23 788	-
10 to 19 workers	14 921	-
20 workers and more	1 688	-

HIRED PERMANENT WORKERS		
	Number of holdings	
Total	73 448	-
Male	68 582	-
Female	4 866	-

HOLDINGS BY NUMBER OF HOLDER'S HOUSEHOLD MEMBERS		
	Number of holdings	
Total number	840 454	-
Holdings with:		
Less than 5 persons	192 890	-
5 to 9 persons	440 981	-
10 to 19 persons	189 159	-
20 persons and more	17 424	-

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Rice		665 638
Fonio		162 224
Sorghum		30 470
Millet		117 362
Maize		231 220
Groundnuts		153 427
Niébé/Beans/Voandzou		6 578
Cassava (Manioc)		123 793
Yams		3 143
Potatoes		45 524
Potatoes		28 147
Potatoes		19 819

PERMANENT CROPS		
	Holdings reporting	Area (ha)
Mangoes	-	28 163
Oranges	-	9 152
Bananas	-	4 488
Avocados	-	1 424
Citrus fruits	-	788
Guavas	-	3 806
Coffee	-	77 503
Cocoa	-	3 063
Oil Palm	-	11 548
Rubber (Hevea)	-	2 017
Cashew nuts	-	15 065
Cashew nuts	-	6 557
Cashew nuts	-	649
Cashew nuts	-	485

LIVESTOCK		
	Holdings reporting	Number of head
Cattle	-	4 019 583
Sheep	-	1 874 520
Goats	-	2 428 759
Pigs	-	252 306
Horses	-	650
Asses	-	3 878
Poultry, total	-	6 218 649

MACHINERY		
	Holdings reporting	Units
Tractors	-	5 388
Single-axle tractors	-	65
Seed drills, animal operated	-	858
Dusters, hand operated	-	8 207
Dusters, power operated	-	733
Harrows, animal operated	-	42 767
Harrows, power operated	-	5 388
Motor-pumps	-	1 703

USE OF FERTILIZERS AND PESTICIDES		
		Cultivated area (ha)
Total Cultivated Area	-	1 370 145
Fertilizers		
Area fertilized with:		
Organic manure	-	107 580
Nitrogenous fertil.	-	26 724
Phosphate fertil.	-	6 786
Potash fertil.	-	5 508
Complex fertil. (N+Ph+P)	-	68 380
Pesticides	-	45 233

# HUNGARY - Agricultural Census 2000 - Explanatory Notes

## Historical outline

The 2000 Agricultural Census was the sixth census conducted in Hungary, including those in 1972, 1981, 1991.

## Organization

The 2000 Agricultural Census was organized and conducted by the Agricultural Statistics Department of Hungarian Central Statistical Office (HCSO) in compliance with the Act XLVI of 1999.

## Enumeration period

The enumeration took place during 1 – 21 April 2000.

## Reference date/period

Reference date for land use, crops and livestock was 31 March 2000, while for agricultural services and intensive horticultural activities the reference period was the 12 months preceding the census date.

## Definition

- **Agricultural holding:** An independent unit, both technically and economically, engaged in agricultural activity, having a single management and on 31 March 2000:
  - Cultivating at least 1 500 square meters of each or any combination of arable land, kitchen garden, orchard, vineyard, meadows and pastures, forest, fish pond or reed; or
  - Keeping at least one head of large livestock (cattle, pig, horse, sheep, goat, donkey, mule or ostrich) or a stock of 50 hens or other poultry (geese, ducks, turkeys or guinea fowls) or a stock of 25 rabbits, fur-bearing animals or pigeons for meat; or
  - Having performed, during the 12 months previous to census date, agricultural services or intensive horticultural activities (production under glass or plastic cover).

## Coverage

The census covered the entire country. All enterprises and state farms as well as small scale producers and private farms reaching the threshold were included. Households under the threshold were excluded; however, the data regarding their utilization of productive land area, irrespective of land use categories, were collected and disseminated by municipality. The kitchen gardens around houses or in resort areas were considered as non-significant agricultural activities.

## Frame

The number of households to be investigated was defined by the 1990 Census of Population and Dwellings. For census purposes all the statistical planning regions, the counties and the statistical small districts were defined in accordance with the Nomenclature for Territorial Units for EUROSTAT Statistics (NUTS): comprising Regions (7); Counties (19 plus the Capital); the Agricultural Small Regions (150); the Municipalities (3 131).

## Method

In the frame of the census 2.1 million households, more than 60 percent of the total, were visited by enumerators. Nearly 960 000 reached the threshold and were considered on a representative sample base. 835 000 utilized less land area and/or kept less livestock than defined by the threshold and 300 000 were not engaged in any agricultural activity. In the sector of enterprises, i.e. cooperatives, share companies and other units with legal entity, 8 200 were engaged in some kind of agricultural activity. These organizations were investigated by mail.

## Data source

Land Use in Hungary, data by settlements (Vol. I), Budapest 2000; Livestock in Hungary, 31 March 2000, data by settlement (Vol. II), Budapest 2000; Agriculture in Hungary 2000, summary data (Vol. III), Budapest 2002. Hungarian Central Statistical Office, Agricultural Statistics Department.

## Contact

Hungarian Central Statistical Office, Information Section: 1024 Budapest, Fényes Elek Str. 14-18. Groundfloor, 1525 Budapest, P.O. Box 51, Hungary. Tel.: (+36) 1 345 6789; Fax: (+36) 1 345 6788; E-mail: erzsebet.veto@office.ksh.hu.

## Website

<http://portal.ksh.hu/portal>

# HUNGARY - Agricultural Census 2000 - Main Results

<b>NUMBER AND AREA OF HOLDINGS</b>		
	Number of holdings	Area of holdings (ha)
Total	966 916	6 448 000

<b>NUMBER AND AREA OF HOLDINGS BY SIZE OF PRODUCTIVE LAND</b>		
	Number of holdings	
Total	966 916	-
< 10 ha	260 987	-
10 - 50 ha	313 625	-
50 - 100 ha	108 278	-
100 - 300 ha	185 748	-
300 - 500 ha	44 512	-
500 - 1 000 ha	45 738	-
1 000 - 5 000 ha	6 011	-
5 000 - 10 000 ha	1 967	-
10 000 ha >	50	-

<b>HOLDERS BY SEX</b>		
	Number of holders	
Total	958 534	-
Male	729 373	-
Female	229 161	-

<b>HOLDERS AND HOUSEHOLD MEMBERS</b>		
	Number of persons	
Total	2 648 400	-

<b>HOUSEHOLD MEMBERS ENGAGED IN AGRICULTURAL WORK ON THE HOLDING</b>		
	Number of persons	
Total	1 982 679	-

<b>LAND USE</b>		
		Area (ha)
All land	-	6 448 000
Agricultural land	-	4 655 166
Cropland	-	4 051 005
Permanent mead./pastures	-	604 161
Wood / forest land	-	1 766 854
All other land	-	25 980

<b>LIVESTOCK</b>		
	Holdings reporting	Number of head
Cattle	52 182	850 442
Sheep	25 094	1 287 324
Pigs	484 527	5 050 510
Horses	38 079	80 555
Chickens	596 988	42 418 987

# INDIA - Agricultural Census 2000/01 & Livestock Census 2003 - Expl. Notes

## Historical outline

India participated in the World Census of Agriculture Programme (WCA) in 1930, 1950 and 1960 through sample surveys carried out by the Directorate of National Sample Survey. The 1970/71 Census is considered the first comprehensive Census of Agriculture conducted in the country. Agricultural censuses were successively undertaken in: 1976/77, 1980/81, 1985/86, 1990/91, 1995/96, and the one here reported, 2000/01. Data on livestock presented here refer to the 17th Livestock Census conducted in 2003.

## Organization

The national Agriculture Census was planned and financed by the Agricultural Census Division of the Department of Agriculture and Cooperation (DAC), in the Ministry of Agriculture (MOA). Each State and Union Territory (provinces) implemented census operations through their technical units.

The government officials responsible for land administration in about 600 thousand villages carried the enumeration for the agricultural census in their own official language. The 17<sup>th</sup> Livestock Census was performed through the Dept. of Animal Husbandry & Dairying of MOA.

## Reference date/period

For Livestock Census: 15 October 2003. For Agricultural Census: from July 2000 to June 2001.

## Definition

**Operational Holding** (the statistical unit): is defined as all land wholly or partly used for agricultural (crop) production and operated as one technical unit by one person, alone or with others, without regard to title, legal form, size or location.

## Coverage

Agriculture Census 2000/01 was not conducted in the States of Bihar, Jharkhand and Meghalaya. An estimate for important parameters was done for missing states based on previous census. For the 17th Livestock Census data from two districts of the State of Bihar, were not available by the time of the publication of this report and, consequently, statistical projections were used to prepare national estimates.

## Frame

In the States where the Revenue Agency maintains the records of ownership of land and seasonal crop inquiries are carried out, such records are used to prepare the frame of agricultural holdings for the census. In States and UTs where land records do not exist, a list of households holding land is prepared in 20 percent of the villages which represent the sample for the agricultural census.

## Method

- The **Agriculture (crop) Census** was carried out in three phases. During **Phase-1**, a list of all holdings with general information on primary characteristics like area, gender, social group of the holder and location code, was prepared; Phase-1 was carried out for all agricultural operational holdings of the country. During **Phase-2**, only 20 percent of the villages in each Tehsil were selected and detailed information on aspects such tenancy, land use, irrigation, cropping pattern of all the operational holdings in the selected villages was collected from all holdings. **Phase-3**, known as Input Survey, relates to use of inputs across various crops, regions and size groups of holdings. A stratified two-stage sampling design was applied, with the **village** at first stage and the **holding** at second stage unit for the survey.
- The **Livestock Census** was a complete enumeration exercise.

## Data sources

- All India Report on Agriculture Census 2000/01. Government of India, Ministry of Agriculture, Department of Agriculture & Co-operation, New Delhi 2008, India.
- 17th Livestock Census 2003, Release of the 17<sup>th</sup> Livestock Census Data by Hon'ble Minister of Agriculture (19 January 2005) from the website, India.

## Contact

Agricultural Census Division, Department of Agriculture and Co-operation, Krishi Bhawan, New Delhi 110 001, India.  
Tel.: (+91) 11 233 827 58, (+91) 11 233 832 30; Fax: (+91) 11 233 825 23;  
E-mail: agcensus@krishi.delhi.nic.in.

## Website

<http://www.daht.nic.in> (for livestock census) and <http://agricoop.nic.in> (for agriculture census)

# INDIA - Agricultural Census 2000/01 & Livestock Census 2003 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	119 894 000	159 394 000

NUMBER AND AREA OF HOLDINGS BY SIZE		
	Number of holdings	Area (ha)
Total	119 894 000	159 394 000
Under 0.5 ha	51 243 000	12 329 000
0.5 and under 1 ha	24 147 000	17 477 000
1 and under 2 ha	22 687 000	32 129 000
2 and under 3 ha	9 545 000	22 854 000
3 and under 4 ha	4 469 000	15 320 000
4 and under 5 ha	2 625 000	11 614 000
5 and under 7.5 ha	2 827 000	17 039 000
7.5 and under 10 ha	1 121 000	9 540 000
10 and under 20 ha	1 004 000	13 220 000
20 ha and over	226 000	7 872 000

HOLDERS BY SEX		
	Number of holders	
Total	119 894 000	
Male	106 634 000	
Female	12 987 000	

LEGAL STATUS		
	Number of holdings	Area (ha)
Total	119 894 000	159 394 000
An individual or an household	103 910 000	132 378 000
Two or more individ./household	15 712 000	25 211 000
Institutions	272 000	1 805 000

TENURE OF LAND		
	Number of holdings	Area (ha)
Holdings with land, total	108 105 000	152 369 000
Under one form of tenure	105 700 000	148 465 000
Owned	105 039 000	147 753 000
Rented from others	363 000	470 000
For fixed money	-	232 000
For fixed produce	-	54 000
For share of produce	-	139 000
For usufructuary mortgage	-	9 000
Under other terms	-	36 000
Other single forms of tenure	298 000	243 000
More than one form of ten.	2 405 000	3 903 000
Area owned	-	2 589 000
Area rented from others	-	911 000
For fixed money	-	181 000
For fixed produce	-	92 000
For share of produce	-	580 000
For usufructuary mortgage	-	21 000
Under other terms	-	37 000
Area under other forms of tenure	-	403 000

LAND USE		
	Number of holdings	Area (ha)
Holdings with land, total	108 105 000	152 369 000
Arable land	-	143 978 000
Temporary crops	-	132 641 000
Temporarily fallow	-	11 337 000
Uncultivated but potentially productive land	-	6 530 000
Unproductive land	-	1 861 000

IRRIGATION		
	Number of holdings	Area (ha)
Holdings with land, total	108 105 000	152 369 000
Holdings irrigated	52 562 000	51 610 000
Fully irrigated	39 658 000	40 592 000
Partly irrigated	12 907 000	24 467 000
Of which irrigated area	-	11 018 000
Fully unirrigated	50 176 000	67 581 000

MAIN TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Cereals, total	-	97 977 000
Area irrigated	-	48 491 000
Paddy rice	46 810 000	43 116 000
Area irrigated	-	23 606 000
Jowar (Sorghum)	10 590 000	10 230 000
Area irrigated	-	836 000
Bajra (Millet)	8 172 000	10 889 000
Area irrigated	-	1 085 000
Maize	10 470 000	6 277 000
Area irrigated	-	1 170 000
Ragi (Finger millet)	2 953 000	1 707 000
Area irrigated	-	108 000
Wheat	26 258 000	23 962 000
Area irrigated	-	21 178 000
Pulses, total	-	16 618 000
Area irrigated	-	2 476 000
Gram	4 571 000	4 533 000
Area irrigated	-	1 381 000
Tur	8 023 000	3 620 000
Area irrigated	-	268 000
Urad	4 262 000	2 235 000
Area irrigated	-	98 000
Sugarcane	5 799 000	4 466 000
Area irrigated	-	4 103 000
Spices, total	-	2 009 000
Area irrigated	-	1 061 000
Vegetables, total	-	3 548 000
Area irrigated	-	2 197 000
Groundnut	5 714 000	6 060 000
Area irrigated	-	717 000
Oilseed, total	-	21 145 000
Area irrigated	-	4 613 000
Castorseed	867 000	926 000
Area irrigated	-	248 000
Sesame seed	1 945 000	1 212 000
Area irrigated	-	160 000
Rapeseed, Mustardseed	5 078 000	3 497 000
Area irrigated	-	2 593 000
Soybeans	4 443 000	6 689 000
Area irrigated	-	135 000
Fibers, total	-	10 187 000
Area irrigated	-	2 910 000
Cotton	6 255 000	9 054 000
Area irrigated	-	2 408 000
Jute	2 093 000	937 000
Area irrigated	-	435 000

PERMANENT CROPS		
	Holdings reporting	Area (ha)
Tea	118 000	415 000
Area irrigated	-	78 000
Coffee	566 000	303 000
Area irrigated	-	11 000
Coconut	7 723 000	1 211 000
Area irrigated	-	510 000
Rubber	832 000	355 000
Area irrigated	-	3 000

LIVESTOCK		Number of head
Cattle		187 382 000
Buffaloes		96 616 000
Mithuns (Bovine)		281 000
Sheep		61 789 000
Goats		120 097 000
Pigs		14 142 000
Camels		635 000
Horses & Ponies		788 000
Mules		311 000
Asses		665 000
Poultry		440 696 000

# INDONESIA - Agricultural Census 2003 - Explanatory Notes

## Historical outline

Five Agricultural Censuses were conducted in Indonesia in 1963, 1973, 1983, 1993 and in 2003, to which data presented here refer.

## Organization

The census was conducted by Badan Pusat Statistik (BPS-Statistics) Indonesia, which was the responsible Office for technical and administrative matters, including planning, organization, fieldwork, data processing, presentation and analysis of results. A technical team was formed, consisting of statisticians and agricultural experts from BPS and from other agencies such as the Ministry of Agriculture, the National Planning Board and the Universities of Indonesia. The technical team was charged with the selection of census items, the review of concepts and definitions, and the design of census methodology and questionnaires.

## Enumeration period

Due to the large scope of data collection, activities in the 2003 Agricultural Census were carried out during the period 1 September 2002 to 31 August 2003.

## Reference date/period

Reference date, depending on census items, was either the day of interview or the one year period preceding the enumeration day.

## Definition

**Household Agricultural Holding:** A household categorized as an agricultural holding if one or more of the members of household do at least one of the following activities: cultivates crops (rice, secondary crop, horticulture crops, and estates crops), cultivates forest tree, breeds wild-life animals, livestock/poultry, cultivates fish, collect forest product and/or captures wild animals, and renders agricultural services.

## Coverage

Data collection covered the farm households and farm businesses throughout the national territory.

## Frame

The updating of the maps of Census Enumeration Blocks, together with the complete enumeration of potential villages (PODES 2003) and the updating of the directory of Agricultural Enterprises was carried out in 2002, while the listing of buildings and households was completed in 2003. The updating of the Agricultural Enterprises Directory, based on official records and information available in various government departments, was done by revising the 1993 Directory. The sampling frame used for the survey on households living in forest areas consisted of the list of Census Blocks of the rural villages located within the forest areas.

## Method

The 2003 Agricultural Census consisted of a household listing operation and nine subsequent sample surveys, i.e. surveys of household enterprises on paddy, food cultivation, horticultural farming, estate crops, cattle/poultry husbandry, households living in forest areas, farmer income and fishery farming in fresh water or fish catching in the ocean. From the household listing, stratification in urban and rural areas and urban areas in coastal and non-coastal zones and non-coastal zones in concentrated and non-concentrated zones of agricultural businesses was performed.

For sample surveys covering paddy cultivation, other food cultivation, horticulture, estate crops and cattle/poultry husbandry, a two-stage probability to proportionate size (PPS) double sampling design was used. For the "Survey on households living in forest areas" a stratified two stage sampling design was applied: at the **first stage**, the selection of census blocks in each stratum, using PPS; at the **second stage** ten households were systematically selected from lists of households.

## Data source

Sensus Pertanian 2003, Angka nasional, Hasil Pendaftaran Rumah Tangga – BPS Badan Pusat Statistik, Jakarta – Indonesia – Katalog BPS5101 ST03 Buku A3.

## Contact

Bureau of Agricultural Statistics, BPS-Statistics Indonesia, Badan Pusat Statistik, Republik Indonesia (Statistics Indonesia of the Republic of Indonesia), Jl. Dr. Sutomo 6-8, Jakarta 10710, Indonesia.

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## Website

[www.bps.go.id/st.htm](http://www.bps.go.id/st.htm)

# INDONESIA - Agricultural Census 2003 - Main Results

<b>NUMBER AND AREA OF HOLDINGS</b>		
	Number of holdings	Area (ha)
Total	24 868 675	19 673 412

<b>NUMBER AND AREA OF HOLDINGS BY SIZE</b>		
	Number of holdings	Area (ha)
Total		-
Under 1 ha	18 606 642	-
1 and under 2 ha	3 460 406	-
2 and under 3 ha	2 801 627	-

<b>AREA OF HOLDINGS BY TENURE OF LAND OPERATED</b>		
	Area (ha)	
Total	19 673 412	
Area owned	17 598 532	
Area rented from others	2 847 340	
Area under other forms of tenure	772 519	

<b>LAND USE</b>		
	Number of holdings	Area (ha)
Total land	-	19 673 412
Agricultural land	-	17 377 475
All other land	-	2 295 937

<b>TEMPORARY CROPS</b>		
	Number of holdings reporting	Area (ha)
Rice	13 770 100	-
Maize	5 024 286	-
Cassava	3 584 912	-
Soybeans	663 980	-

<b>PERMANENT CROPS</b>		
	Number of holdings reporting	Area (ha)
Bananas	2 804 946	

<b>LIVESTOCK</b>		
	Number of holdings reporting	Number of head
Cattle	2 568 825	-
Goats	597 832	-

# IRAN, Islamic Republic of - Agricultural Census 2003 - Explanatory Notes

## Historical outline

The first agricultural census in Iran was conducted in 1960; then second and a third censuses of agriculture were undertaken in 1988 and 1993. The latest census, to which data here presented refer, was conducted in 2003.

## Organization

The Statistical Centre of Iran is the national office responsible for the organization of the agricultural census. Contribution to the organization and conduct of the census was also provided by the Ministry of Jihad-e-Agriculture. The field operations for data collection employed 9 564 Enumerators and 5 354 supervisors.

## Enumeration period

The census was conducted in October 2003. Census field operations lasted 30 days.

## Reference date/period

- For crops production: the agricultural year 23 September 2002 to 22 September 2003.
- For milk production: the 365 days period preceding the census.
- For Land Use, Livestock etc.: the day of enumeration.

## Definition

**Holding:** An agricultural holding should be involved in at least one of the following agricultural activities: Farming; Horticulture; Greenhouse operating; Apiculture raising; Sericulture raising; Livestock keeping - sheep or goats (domestic, not industrial); Livestock keeping - cattle and camels (domestic, not industrial); Poultry keeping - (domestic, not industrial). Holdings covered in the census satisfied at least one of the following conditions: Having/operating: 400 m<sup>2</sup> of land under temporary crops; or 200 m<sup>2</sup> of horticultural and permanent crops; or 2 head of sheep or goats; or 1 head of cattle or camel; or 10 head of poultry; or a greenhouse of any scale; or Silk worms keeping (sericulture) of any scale; or Honey bees keeping (apiculture) of any scale.

## Coverage

The census was designed to cover all farms above the threshold, both in urban and rural areas of the country. Modern poultry farms were not covered by the census.

## Frame

The census frame was prepared at the time of data collection, by listing places in blocks (rural and urban areas) in order to identify agricultural households as well as agricultural holdings.

## Method

Complete enumeration method was applied. All agricultural holdings managed by natural persons and settled in both urban and rural areas were enumerated through direct interview of the holder/manager. Information on unsettled households was provided by locally informed people. Holdings belonging to legal persons were enumerated in the places where agricultural activities were practiced.

The enumerator was charged to fill three forms:

- The Listing Form (Short Form): to be used in order to identify the holdings;
- The Holding Form (Main or Long Form): to report details on holdings;
- The Village Questionnaire: in order to indicate different dimensions of rural areas.

## Data source

General Census of Agriculture 2003. Statistical Centre of Iran.

## Contact

Statistical Centre of Iran, Dr. Fatemi Ave., Teheran 14144, the Islamic Republic of Iran. Tel.: (+98) 21 889 590 22, (+98) 21 889 590 23; Fax: (+98) 21 889 590 032, (+98) 21 895 8189; E-mail: sci@sci.org.ir; int@sci.org.ir, g\_kheiri@sci.org.ir.

## Website

<http://www.sci.org.ir>



# IRAN, Islamic Republic of - Agricultural Census 2003 - Main Results

NUMBER AND CROPLAND AREA OF HOLDINGS		
	Number of holdings	Cropland Area (ha)
Total	4 332 423	17 665 198

NUMBER AND CROPLAND AREA OF HOLDINGS		
	Number of holdings	Cropland Area (ha)
Total holdings	4 332 423	17 665 198
Holdings without cropland	851 694	-
Holdings with cropland	3 480 729	17 665 198
under 1 ha	1 205 033	407 070
1 and under 2 ha	522 956	655 129
2 and under 5 ha	797 006	2 377 091
5 and under 10 ha	491 156	3 230 892
10 and under 20 ha	295 179	3 788 275
20 and under 50 ha	135 649	3 736 337
50 and under 100 ha	24 576	1 547 657
100 and under 200 ha	6 723	836 590
200 and under 500 ha	2 021	544 556
500 and under 1000 ha	312	196 293
1 000 ha and over	118	345 308

LEGAL STATUS		
	Number of holdings	
Total	4 332 423	-
Civil persons	4 293 160	-
Corporations, Cooperatives,		-
Government	8 108	
Others	31 155	-

LAND USE		
	Holdings reporting	Area (ha)
Cropland	3 480 729	17 665 000
Arable land	2 790 885	16 197 000
Temporary crops	-	11 647 000
of which: irrigated	-	7 015 000
Fallow land	-	4 550 000
Permanent crops	1 651 046	1 468 000

TEMPORARY CROPS		
	Holdings reporting	Area under crop (ha)
Wheat	1 660 970	6 941 286
Rice	517 272	465 453
Maize	66 280	178 606
Millet	10 022	6 681
Sorghum	32 567	65 444
Barley	860 964	1 817 572
Potatoes	162 560	116 694
Soybeans	28 624	54 319
Cotton	76 903	118 853
Tomatoes	240 608	101 654
Sugarbeets	107 440	199 298

LIVESTOCK		
	Holdings reporting	Number of head
Cattle	1 250 232	6 009 547
Buffaloes	29 141	159 196
Camels	-	139 000
Sheep	1 117 281	37 137 289
Goats	1 070 057	20 166 878
Chickens (traditional farms)	1 602 176	16 151 000
Ducks, Geese, Turkeys (traditional farms)	31 832	316 000

PERMANENT CROPS		
Apples		
Holdings reporting	-	508 254
Area in compact plantation (ha)	-	98 999
Total number of trees	-	45 790 000
In compact plantation	-	44 335 000
Scattered trees	-	1 455 000
Pears		
Holdings reporting	-	206 849
Area in compact plantation (ha)	-	2 660
Total number of trees	-	4 007 000
In compact plantation	-	3 597 000
Scattered trees	-	410 000
Peaches		
Holdings reporting	-	103 091
Area in compact plantation (ha)	-	13 622
Total number of trees	-	19 669 000
In compact plantation	-	18 805 000
Scattered trees	-	864 000
Grapes		
Holdings reporting	-	-
Area in compact plantation (ha)	-	193 737
Total number of trees	-	220 451 000
In compact plantation	-	218 853 000
Scattered trees	-	1 598 000
Oranges		
Holdings reporting	-	-
Area in compact plantation (ha)	-	44 895 000
Total number of trees	-	24 190 000
In compact plantation	-	22 321 000
Scattered trees	-	1 869 000
Bananas		
Holdings reporting	-	9 543
Area in compact plantation (ha)	-	3 353
Total number of trees	-	3 523 000
In compact plantation	-	3 503 000
Scattered trees	-	20 000
Pistachios		
Holdings reporting	-	138 805
Area in compact plantation (ha)	-	298 939
Total number of trees	-	308 777 000
In compact plantation	-	308 559 000
Scattered trees	-	218 000
Dates		
Holdings reporting	-	265 205
Area in compact plantation (ha)	-	123 615
Total number of trees	-	29 346 000
In compact plantation	-	25 929 000
Scattered trees	-	3 417 000
Walnuts		
Holdings reporting	-	705 301
Area in compact plantation (ha)	-	54 468
Total number of trees	-	23 872 000
In compact plantation	-	20 020 000
Scattered trees	-	3 852 000

# IRELAND - Agricultural Census 2000 - Explanatory Notes

## Historical outline

Ireland participated in all World Census of Agriculture Rounds. Agricultural censuses were conducted annually between 1847 and 1953, and every five years from 1960 to 1980. The 1985 Agricultural Census was cancelled on budgetary grounds and the next complete enumeration census was undertaken in 1991. The 2000 Census of Agriculture, to which data reported here refer, is the first complete enumeration census conducted since 1991.

## Organization

The Central Statistics Office (CSO) was the Governmental agency responsible, in cooperation with the Department of Agriculture, for the organization and implementation of the 2000 Census of Agriculture.

## Enumeration period

The census date was 1 June 2000.

## Reference date/period

Data mainly refer to the day of enumeration.

## Definition

- **Farm:** is defined, in line with the definition adopted for the EU Farm Structure Surveys of Agricultural Holdings, as a single unit, both technically and economically, which has a single management and which produces agricultural products. The agricultural production covers all crops (including horticultural crops) and any kind of livestock raising (including intensive raising). A farm may consist of one or more parcels (intended as separate pieces of land), if managed as a single unit and under the same production means. The farm could be managed by one or more persons. It may consist of land owned by the holder, rented from others, or of a combination of the two forms of tenure.
- **AAU (or area farmed):** Is the combined area under crops, silage, hay, pasture, rough grazing land (including fallow land) in use.
- **Minimum size of farm** was at least one hectare of agricultural area used for farming (AAU); Farms with less than one hectare of AAU were included in the census if reporting an intensive agricultural production.

## Coverage

Geographically, the census covered the entire country.

## Frame

An up-to-date register of active farms, required to carry out the census by mail, was available since the 1991 Census of Agriculture. This register, kept by the Central Statistical Office (CSO) and adjusted to take account of births/deaths of farms, was used as a sampling frame for the regular crops and livestock sample surveys. On the occasion of the 2000 Census of Agriculture a new register was drawn up, based on the combination of several specialized registers like those on agricultural regulations and subsidies, horticultural or pig or poultry farmers, specialized farms, etc., provided by several bodies like the Department of Agriculture (DAF), the Horticultural Development Board (Bord Glas), or the Agriculture and Food Development Authority. The resulting register contained some 190 000 farms of which, notwithstanding the efforts made during the preparation of the register to avoid duplications, about 50 000 were expected to be duplicates and rejected.

## Method

The 2000 Census of Agriculture was the first conducted entirely by post. Questionnaires were sent to the 190,000 possibly active farms of the register. Respondents were asked to return the questionnaire duly filled by 9 June 2000. A supplementary Pig Questionnaire reporting additional questions was sent to large pig farmers. Reminders were sent between mid-June and early November. The response rate was 97 percent of active farms.

## Data source

Census of Agriculture, Main Results, June 2000. Central Statistics Office Ireland.

## Contact

Central Statistics Office, Skehard Rd., Cork, Ireland. Tel.: (+353) 21 453 5000; Fax: (+353) 21 453 5555; LoCall: 1890 236 787 (Contact Census); E-mail: [census@cso.ie](mailto:census@cso.ie), [webmaster@cso.ie](mailto:webmaster@cso.ie).

## Website

<http://www.cso.ie>

# IRELAND - Agricultural Census 2000 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Agricultural area (ha)
Total	141 530	4 714 970

NUMBER OF HOLDINGS BY SIZE OF AGRICULTURAL AREA		
	Number of holdings	Area (ha)
Total	141 530	4 714 970
without agric.land	30	-
0-2 ha of agric.area	3 070	5 210
2 - 5 ha	8 570	37 360
5 - 10 ha	16 740	141 680
10 - 20 ha	34 290	543 020
20 - 30 ha	25 040	654 830
30 - 50 ha	29 630	1 210 010
50 - 100 ha	19 540	1 366 740
>=100 ha	4 620	756 120

FRAGMENTATION		
	Number of holdings	
Total	141 530	-
holdings with:		-
1 parcel	39 642	-
2 parcels	35 985	-
3 parcels	25 312	-
4 parcels	14 891	-
5 parcels or more	25 700	-

LEGAL STATUS		
Holdings operated by:	Number of holdings	
Civil person	141 340	
Other	190	

TENURE OF AGRICULTURAL LAND		
	Agricultural area (ha)	
Total	4 443 970	
Owned	3 616 510	
Rented	827 460	

HOLDERS BY SEX		
	Number of holders	
Total	141 340	-
Male	126 240	-
Female	15 100	-

HOLDERS BY AGE		
	Number of holders	
Total	141 340	-
< 35 years of age	18 380	-
35 - 44	30 780	-
45 - 54	36 330	-
55 - 64	27 810	-
65 >	28 040	-

HOLDERS AND MEMBERS OF THEIR HOUSEHOLD ENGAGED IN AGRICULTURAL WORK ON THE HOLDING		
	Number of persons	
Total	243 600	-
Male	175 390	
Female	68 210	
Of which, full time:		
Total	102 500	
Male	84 970	
Female	17 530	

HIRED PERMANENT WORKERS		
	Number of workers	
Total	14 350	-
Of which, full time:	5 050	-

LAND USE		
	Number of holdings	Agricultural area (ha)
Agricultural land	-	4 443 970
Cropland	-	1 110 940
Arable land	-	1 109 360
Permanent crops	-	1 580
Permanent mead./pastures	-	3 333 030

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Wheat, total	3 350	77 970
Barley, total	12 980	182 310
Oats, total	2 280	16 820
Beans & peas	190	1 504
Rapeseed (colza)	332	2 683
Maize for silage	4 219	24 431
Fodder rape & kale	523	950
Potatoes	4 920	13 540
Turnips	1 140	2 066
Sugarbeet	4 650	32 200
Fodder beet	1 741	5 140
Vegetables (for sale)	1 040	4 100

PERMANENT CROPS		
	Holdings reporting	Area (ha)
Apples (for sale)	151	698
Other fruit (for sale)	173	524

LIVESTOCK		
	Holdings reporting	Number of head
Cattle	124 110	7 036 010
Sheep	43 680	6 891 530
Goats	2 180	8100
Pigs	1 280	1 722 110
Horses	15 186	69 937
Mules, Asses	2 771	5 027
Deer	266	12 055
Poultry	10 652	13 960 771

MACHINERY		
	Holdings reporting	Units
Tractors belonging to the holding	108 760	160 080
Tractors not belonging to the holding	60 870	-

# ITALY - Agricultural Census 2000 - Explanatory Notes

## Historical outline

Italy participated in the World Census of Agriculture Programme since 1930. So far five agricultural censuses have been conducted in the years 1961, 1970, 1982, 1990 and the latest, to which data reported here refer, in 2000.

## Organization

The census was carried out as per provisions of Article 37 of the law of 17 May 1999 No. 144 and related implementation regulation. The organizational structure of the census consisted of four territorial levels:

- **National Level** represented by the National Institute of Statistics (ISTAT) and the Union of Trade Chambers.
- **Regional Level** consisting of Regional Census Offices and Regional Technical Commissions;
- **Provincial Level** consisting of 103 Provincial Census Offices, one for each province.
- **Communal Level** with 8100 Municipal Census Offices, one for each municipality of the country.

In the preparatory phase of the census, a Census Committee was created with advisory functions, composed of university professors and representatives from public bodies and associations.

## Enumeration period

The Census Day was the 22 October 2000.

## Reference date/period

- Information on tenure, legal status, credits, participation in farmer associations, environment, shelters, total and agricultural area of holding, livestock and farm buildings, refers to 22 October 2000.
- Information on sales of agricultural products, holding accounts, use of land, employment, machinery and equipment, agricultural work outside the holding, refer to the agricultural marketing year (1 November 1999 to 31 October 2000).
- Data on agricultural skills of holders and household members refer to the week prior to the census day.
- Data on milk production refer to the calendar year 2000.

## Definition

The census unit was defined as a technical-economic unit of agricultural production including forestry and livestock production, consisting of one or more plots of land, even non-contiguous or located in different municipalities, consisting also of agricultural machinery and/or buildings for agricultural production, operated by a holder (physical person, company or public body) assuming the risk of management, alone or together with others.

## Coverage

All crop, livestock and forestry holdings in the country were investigated.

## Frame

Agricultural, forestry and livestock holdings located in each municipality were identified through cadastral maps and land registers. A cross-check among the data-banks and archives of various Public Administrative Bodies and Trade Chambers was also carried out to prepare the lists of holdings. The updating of the lists of farms was carried out by ISTAT peripheral structures.

## Method

Three pilot surveys were carried out. The objectives of these surveys were: (1) to identify the geographical details of cultivated land, (2) to update the ISTAT register of farms, and (3) to check the quality of the list of holdings and of the questionnaire. The census was carried out by complete enumeration, through direct interview without actual measurement of land.

## Data source

Quinto Censimento Generale dell'Agricoltura 2000. Istituto Nazionale di Statistica (ISTAT), Italy.

## Contact

Istituto Nazionale di Statistica (ISTAT), Ufficio Censimento dell'Agricoltura, Via Adolfo Ravà, 00142, Roma, Italy. Servizio Censimenti sulle Unità Economiche Via Ravà, 150 Rome. Tel.: (+39) 06 467 343 67; Fax: (+39) 06 467 345 74; E-mail: dccg@istat.it.

## Website

<http://www.istat.it/censimenti/agricoltura>.

# ITALY - Agricultural Census 2000 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	2 590 674	19 607 094

NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING		
	Number of holdings	Area (ha)
Total	2 590 674	19 607 094
< 1 ha of agricultural area	986 031	472 729
1 - 2 ha	496 231	696 959
2 - 5 ha	532 431	1 674 692
5 - 10 ha	262 536	1 831 387
10 - 20 ha	158 495	2 200 929
20 - 30 ha	57 251	1 389 373
30 - 50 ha	46 348	1 765 898
50 - 100 ha	31 288	2 136 698
100 > ha	20 063	7 438 428

FRAGMENTATION		
	Number of holdings	Number of parcels
Total	2 590 674	-
holdings with:		
1 parcel	1 079 088	-
2 parcels	546 859	-
3 parcels	302 338	-
4 parcels	180 563	-
5 parcels	116 420	-
6 parcels or more	365 406	-
Parcels, total	-	9 351 965

LEGAL STATUS		
	Number of holdings	Area (ha)
Total	2 590 674	19 607 094
Civil person	2 538 206	13 612 430
Corporation	38 491	1 914 434
Cooperative	1 741	176 132
Collective	5 546	274 284
Government	5 369	3 477 104
Other	1 321	152 710

TENURE OF LAND		
	Number of holdings	Area (ha)
Total	2 590 674	19 607 094
One form of tenure	2 341 703	14 769 874
Owned	2 247 798	13 398 138
Rented	59 239	1 056 109
Other single forms of ten.	34 666	315 627
More than one form of ten.	248 971	4 837 220

MEMBERS OF HOLDER'S HOUSEHOLD		
	Number of persons	
Total	6 473 690	-
Male	3 465 995	-
Female	3 007 695	-

LAND USE		
	Number of holdings	Area (ha)
Total land	2 590 674	19 607 094
Agricultural land	2 551 822	13 212 652
Cropland	-	9 798 215
Arable land	1 554 458	7 340 221
Permanent crops	1 858 535	2 457 994
Permanent mead./past.	527 932	3 414 437
Wood or forest land	-	4 710 811
All other land	-	1 683 631

TEMPORARY CROPS		
	Holdings reporting	Area (ha)
Wheat, total	-	2 232 988
Wheat durum	306 093	1 698 559
Wheat, soft	181 931	534 430
Rye	4 243	9 113
Barley	145 619	290 862
Oats	77 112	166 061
Maize	305 422	1 068 525
Rice	5 269	213 886
Sorghum	9 904	41 953
Potatoes	126 626	39 113
Sugarbeet	46 426	224 333
Tobacco	16 616	35 399
Sunflower	35 101	210 999
Soybeans	38 781	226 710
Tomatoes	77 386	80 543
Flowers/ornamental plants	18 997	12 665

PERMANENT CROPS		
	Holdings reporting	Area (ha)
Vines	790 623	717 365
Olives	1 211 645	1 080 870
Oranges	114 097	83 242
Mandarines	40 485	10 675
Clementines	18 779	15 680
Lemons	52 930	19 072
Apples	121 860	64 394
Pears	89 147	44 565
Peaches	103 018	58 107
Nectarine	20 182	24 294
Apricots	60 810	18 131
Kiwi	14 552	17 188
Almonds	88 838	53 067
Hazelnut	73 701	66 546
Chestnut	66 103	75 865

LIVESTOCK		
	Holdings reporting	Number of head
Cattle, total	171 853	6 046 506
Male	-	628 251
Female	-	5 418 255
Buffaloes, total	2 246	181 951
Male	-	57 788
Female	-	124 163
Sheep, total	96 939	6 808 900
Male	-	713 548
Female	-	6 095 352
Goats, total	48 561	923 402
Male	-	164 054
Female	-	759 348
Pigs	195 325	8 614 016
Horses	41 181	160 872
Asses	9 295	19 322
Chickens, total	-	141 489 884
Broilers	300 568	96 708 718
Laying hens	479 420	44 781 166
Turkeys	35 116	12 937 490
Guinea-fowls	14 526	4 150 814
Geese	31 252	356 887
Rabbits	216 688	10 885 258
Ostriches	1 574	38 385

# JAMAICA - Agricultural Census 1996 - Explanatory Notes

## Historical outline

The first Census of Agriculture in Jamaica was undertaken, together with the Census of Population and Housing, in 1943. The second was carried out in 1961, while the third, conducted in 1968/69, represented the first participation of Jamaica in the World Census of Agriculture Programme (1970 Round) promoted by the Food and Agriculture Organization of the United Nations (FAO). Subsequently, a fourth agricultural census was undertaken in 1978/79. Consequently, the one conducted in 1996, to which data presented here refer, is the fifth Census of Agriculture conducted in the country. In addition to the Censuses, two Sample Surveys were conducted in 1954 and 1958.

## Organization

The Census was organized through a Joint Consultative Committee comprising representatives from the Ministry of Agriculture, the Planning Institute and the Statistical Institute of Jamaica, which provided their technical assistance to the organization of the census.

## Reference date/period

Reference dates and periods used were: The Census Day (Friday, the 16 February 1996); The Calendar Year (from January to December 1995); The Census Week (second week of February, i.e. from Sunday to Saturday i.e 11 – 17 February 1996).

## Definition

**Agricultural holding (Farm)** is all land fully or partly utilized for agricultural purposes, located in a single Parish and consisting of one or more parcels, reporting at least one of the following characteristics (*minimum size of holding*):

- 0.41 ha of crop cultivation, including flowers;
- If only a greenhouse is operated, it should be of at least 4400 square feet (1 sq. ft = 0.92 m<sup>2</sup>);
- Twelve economic trees like citrus, mangoes, breadfruit etc;
- One head of cattle;
- Two pigs or sheep or goats;
- Twelve head of poultry, (including ducks, turkeys etc);
- Six beehives;
- A fish pond of any size.

## Coverage

The census was designed to cover all farms satisfying the minimum size of holding in non-urban areas of the country as well as farms of 50 acres and more (approx. 20 ha) located in urban areas or operated by urban dwellers. Holding with less than 50 acres in those areas identified as "Urban" in the 1991 Population Census, including Kingston Metropolitan Area, were considered as having a negligible portion of agricultural activity in Jamaica and thus excluded from enumeration.

## Frame

Through the visits of enumerators to households, a listing schedule reporting names and addresses of heads of households was designed. In addition, lists reporting names and addresses of farmers with 50 acres or more were provided by the Farmers Register of the Ministry of Agriculture and by the Land Valuation Department.

## Method

The agricultural census was conducted in two stages:

1. The first stage by complete enumeration of all households in non-urban areas in order firstly to identify farm and non-farm households and secondly to administrate a questionnaire to farm households only.
2. The second stage consisting of a ten percent sample survey of farms less than 50 acres, and complete enumeration of all farms 50 acres and over.

## Data source

Census of Agriculture 1996 (Vol. I), Land Utilization and Crop Cultivation. The Statistical Institute of Jamaica.

## Contact

The Statistical Institute of Jamaica, 97B Church Street, P.O. Box 643, Kingston, Jamaica. Tel.: (+1) 876 926 2688; Fax: (+1) 876 926 4859; E-mail: [statinja@infochan.com](mailto:statinja@infochan.com).

## Website

<http://www.statinja.com>

# JAMAICA - Agricultural Census 1996 - Main Results

<b>NUMBER AND AREA OF HOLDINGS</b>		
	Number of holdings	Area (ha)
Total	187 791	407 434

<b>NUMBER AND AREA OF HOLDINGS BY SIZE OF HOLDING</b>		
	Number of holdings	Cultivated Area (ha)
Total	187 791	407 434
Without land	14 980	-
Under 1 ha	115 267	43 459
1 and under 2 ha	28 548	38 215
2 and under 5 ha	22 332	63 762
5 and under 10 ha	3 886	26 217
10 and under 20 ha	1 351	17 732
20 and under 50 ha	795	23 774
50 and under 100 ha	263	18 319
100 and under 200 ha	164	23 165
200 ha and over	205	152 791

<b>LAND USE</b>		
		Area (ha)
Total	-	407 434
Agricultural land	-	273 229
Cropland	-	177 580
Land under perm. mead./pastures	-	95 649
Wood or forest land	-	8 863
Land unused but potentially productive	-	87 300
All other land	-	38 042

<b>TEMPORARY CROPS</b>		
		Area (ha)
Sugarcane	-	53 294
Yellow Yams	-	10 506
Other yams	-	5 477
Pimentos	-	5 061
Legumes n.e.s.	-	3 587
Sweet potatoes	-	3 234
Pumpkins	-	2 383
Carrots	-	2 327
Tubers n.e.s.	-	2 323
Read peas	-	2 117
Maize	-	2 091
Cabbages	-	1 942
Tomatoes	-	1 880
Cassava (Manioc)	-	1 756
Vegetables n.e.s.	-	1 290
Condiments/Spices n.e.s.	-	1 008
Sweet pepper	-	829
Irish potatoes	-	720
Hot pepper	-	708
Water melons	-	646
Cereals n.e.s.	-	257

<b>PERMANENT CROPS</b>		
		Area (ha)
Banana	-	16 075
Coconut	-	13 883
Coffee	-	10 807
Oranges	-	10 261
Cocoa	-	7 026
Plantains	-	4 581
Mangoes	-	3 259
Pineapple	-	1 153
papaya	-	1 002
Ortanique	-	830
Avocado	-	759
Grapefruit	-	717

# JAPAN - Agricultural Census 2000 - Explanatory Notes

## Historical outline

Japan participated in the first World Census of Agriculture (WCA) held in 1930. Since 1950, in accordance with the FAO World Census of Agriculture (WCA) Programme, the census of agriculture is conducted on a regular basis every ten years (from 1960 in conjunction with the Forestry Census). In addition, in the 5th year of the decade, the Census of Agriculture and Forestry is also conducted. Data here reported refer to the 2000 World Census of Agriculture and Forestry.

## Organization

The Statistics and Information Department of the Ministry of Agriculture, Forestry and Fisheries (MAFF) is in charge for the Agriculture and Forestry census. Charged with census operations at peripheral level are the Prefectures and the administrative unit of Hokkaido, through seven Regional Agricultural Administration Offices and 314 Statistical Information Branch Offices and in cooperation with the statistical units of the Municipalities. For the 2000 Census of Agriculture 184 000 enumerators were appointed.

## Enumeration period

The enumeration day was 1 February 2000 for all prefectures, excluding Okinawa Prefecture, for which it was 1 December 1999.

## Reference date/period

Data on crop production, employment and use of machinery refer to the 12 months preceding the census while all other items refer to the enumeration day.

## Definition

- **Agricultural enterprise:** An entity having cultivation area of over 0.1 acre (0.40469 ha) or having a total agricultural product sales of 150 000 yen in one year prior to the census date regardless whether the operation is performed by a family unit or by other entities.
- **Farm household:** An agricultural entity consisting of a family unit
- **Commercial farm household:** A household engaged in agriculture managing more than 0.3 ha of cultivated land or reporting a sales value of agricultural products, in the previous 12 months, of at least 500 000 yen.
- **Non-commercial farm household (subsistence farms households):** A household engaged in agriculture with less than 0.3 ha of cultivated land or a sales value of agricultural products, in the previous 12 months, of less than 500 000 yen.

## Coverage

In the entire country, subjects of the 2000 World Census of Agriculture were:

- **All farming establishments** Consisting of: Farm households (2 340 000 Commercial and 780 000 non-commercials), Farming holdings other than farm households (10 500).
- **Agricultural services enterprises** (19 700).
- **Rural communities** (135 000).

## Frame

A list of about 184 000 enumeration sections was defined by December 1999, reviewing and amending the list set up for the previous 5<sup>th</sup> year Census of Agriculture. Local Bodies participated in compiling a list of all households considered as involved in agriculture.

## Method

The enumerators visited all households within their enumeration section collecting information through direct interview. Due to the different climate and type of agriculture among Hokkaido, Okinawa and the other prefectures, three sets of farm household questionnaires were used, in the simplified and detailed format, reporting different items.

## Data source

Report on Results of 2000 World Census of Agriculture and Forestry in Japan, March 2003. Ministry of Agriculture, Forestry and Fisheries, Statistics Information Department Japan.

## Contact

Ministry of Agriculture, Forestry and Fisheries, Statistics and Information Department, 2-1, 1-chome, Kasumigaseki, Chiyoda-ku, Tokyo, Japan. Tel.: (+81) 3 350 281 11; Fax: (+81) 3 350 280 83.

## Website

<http://www.maff.go.jp>



# JAPAN - Agricultural Census 2000 - Main Results

## NUMBER AND CROPLAND AREA OF HOLDINGS (FARM HOUSEHOLDS)

	Number of holdings	Cropland Area (ha)
Total	3 120 215	3 734 288

## HOLDER'S HOUSEHOLD MEMBERS BY SEX AND AGE

	Number of persons	
Total	10 467 363	-
Male	5 128 973	-
< 25 years of age	1 338 983	-
25 - 34	443 511	-
35 - 44	611 604	-
45 - 54	787 194	-
55 - 64	635 273	-
65 >	1 312 408	-
Female	5 338 390	-
< 25 years of age	1 273 284	-
25 - 34	430 405	-
35 - 44	603 317	-
45 - 54	696 321	-
55 - 64	711 568	-
65 >	1 623 495	-

## HOUSEHOLD MEMBERS ENGAGED IN AGRICULTURAL WORK ON THE HOLDING

	Number of persons	
Total	3 891 225	-
Male	1 720 605	-
Female	2 170 620	-

## HIRED PERMANENT WORKERS

	Holdings reporting	Number of workers
Total	23 612	61 943

## LAND USE

		Area (ha)
Cropland	-	3 734 288
Arable land	-	3 477 325
Permanent crops	-	256 963

## TEMPORARY CROPS

	Holdings reporting	Area (ha)
Wheat	122 144	190 573
Rice	1 746 523	1 474 916

## LIVESTOCK

	Holdings reporting	Number of head
Cattle, total	-	3 766 825
for meat production	106 102	2 124 205
for milk production	33 322	1 642 620
Pigs	8 780	4 961 017
Chickens, total		
Laying hens	5 581	639 421
Broilers	2 721	2 936 891

# JORDAN - Agricultural Census 1997 - Explanatory Notes

## Historical outline

The 1997 Agricultural Census was the fifth conducted in Jordan. The first census was carried out in 1953, the second in 1965, the third in 1975, and the fourth in 1983.

## Organization

The census was organized by the Department of Statistics, in collaboration with the Ministry of Agriculture and in cooperation with other public and private institutions like the Ministry of Interior, the Public Security and the Radio -Television.

## Enumeration period

The enumeration period was from 17 May to 10 August 1997.

## Reference date/period

Data refer to the agricultural year preceding the enumeration.

## Definition

- **Holding:** A techno-economic unit of agricultural production under single management, consisting of one or more parcels, regardless of their location. For census purposes, an agricultural holding is enumerated if reporting an area of at least one dunum (1000 square meters). Holdings without land are also considered for census purposes, if reporting at least one of the following:
  - Ten sheep;
  - Ten goats;
  - One head of cattle;
  - Three camels;
  - Five beehives.

## Coverage

The 1997 Agricultural Census covered all agricultural holdings (see definition above) in the country.

## Frame

A complete list of all households from the 1994 Population Census, whether or not engaged in agriculture, was used as frame. Those households engaged in agriculture were then identified during the interviews.

## Method

Complete enumeration of all holdings was carried out through direct interview.

## Data source

General Results of the Agricultural Census 1997, February 1999. The Hashemite Kingdom of Jordan, Department of Statistics, Jordan.

## Contact

The Hashemite Kingdom of Jordan, Department of Statistics (DOS), PO Box 2015 Amman, P.C. 11181, Jordan. Tel.: (+962) 6 530 0700; Fax: (+962) 6 530 0710; E-mail: stat@dos.gov.jo.

## Website

[http://www.dos.gov.jo/dos\\_home\\_a/main/index.htm](http://www.dos.gov.jo/dos_home_a/main/index.htm)

# JORDAN - Agricultural Census 1997 - Main Results

NUMBER AND AREA OF HOLDINGS		
	Number of holdings	Area (ha)
Total	92 258	306 001

NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING		
	Number of holdings	Area (ha)
Total	92 258	306 001
without land	16 290	
0.1 - 0.2 ha	6 624	791
0.2 - 0.5 ha	13 583	3 962
0.5 - 1 ha	11 012	7 250
1-2 ha	14 317	18 547
2-3 ha	7 416	16 826
3-4 ha	4 208	13 683
4-5 ha	2 787	11 801
5-10 ha	6 532	41 892
10 -20 ha	3 291	41 032
20 - 50 ha	1 778	48 787
50-100 ha	409	25 734
100-200 ha	151	18 871
200 ha >	54	29 413
not stated	3 806	-
Organizations	-	27 412

FRAGMENTATION		
	Holdings reporting	Number of parcels
Total	72 162	113 322

LEGAL STATUS		
	Number of holdings	Area (ha)
Total	92 258	278 209
Civil person	92 193	266 620
Corporation	39	11 416
Other	26	174

TENURE OF LAND		
		Area (ha)
Total	-	278 589
Owned	-	234 351
Rented	-	44 238

HOLDERS BY SEX		
	Number of holders	
Total	91 585	-
Male	88 873	-
Female	2 712	-

HOLDERS BY AGE		
	Number of holders	
Total	91 585	-
< 15 years	45	-
15-25	2 898	-
26-34	9 432	-
35-54	42 798	-
55-64	21 051	-
65>	15 361	-

MEMBERS OF HOLDER'S HOUSEHOLD		
	Holdings reporting	Number of persons
Total	92 193	749 295

HIRED PERMANENT WORKERS		
	Number of persons	
Total	21 244	-
Male	20 883	-
Female	361	-

TEMPORARY CROPS		
		Area planted (ha)
Wheat	-	56 885
Barley	-	91 794
Maize	-	916
Sorghum	-	37
Millet	-	27
Tobacco	-	3 038
Sesameseed	-	99
Clover	-	911

PERMANENT CROPS		
	Area (ha)	Number of trees/ plants
Apples	3 826	2 622 129
Bananas	1 330	1 377 108
Clementines	1 712	543 641
Dates	212	37 242
Figs	557	176 399
Lemons	2 205	475 554
Mandarins	884	282 802
Olives	61 602	8 120 860
Oranges	1 959	635 695
Peaches	1 362	576 799
Vines	3 684	2 131 643

LIVESTOCK		
	Holdings reporting	Head/units
Cattle, total	6 388	53 501
Male		7 240
Female		46 261
Sheep, total	22 214	2 112 261
Male		
total number	-	225 902
< 1 year	-	131 704
1 - 2 years	-	26 841
> 2 years	-	67 357
Female		
total number	-	1 886 359
< 1 year	-	284 580
1 - 2 years	-	297 329
> 2 years	-	1 304 450
Goats	31 081	721 408
Male		
total number	-	93 149
< 1 year	-	57 482
1 - 2 years	-	11 403
> 2 years	-	24 264
Female		
total number	-	628 259
< 1 year	-	102 074
1 - 2 years	-	102 125
> 2 years	-	424 060
Horses	-	3 347
Mules	-	535
Asses	-	14 117
Camels	-	5 885
Chickens	3 961	72 583
Turkeys	237	1 669
Ducks	272	2 449
Geese	265	2 587
Rabbits	423	7 039
Pigeons	1 484	83 811
Beehives	1 484	18 250