

Report on the 1990 World Census of Agriculture

International comparison
and primary results by country
(1986-1995)



Food
and
Agriculture
Organization
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the
United
Nations

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FOREWORD

FAO has been promoting decennial Programmes of the World Census of Agriculture (WCA) since 1950, and the 1990 Programme was the fifth in that series. The countries that participated in the 1990 WCA, in general, communicated to FAO their national census reports, prepared in diverse forms and languages. These national reports were reviewed and then processed into a standard format, using the terminology and presentation suggested in the Programme for the 1990 WCA.

This publication provides, in an internationally comparable form, a summary of data describing the main characteristics of agricultural structures, such as number and area of agricultural holdings, land tenure, agricultural holders and land use for 80 countries. In addition, the report contains comparable data for those countries conducting a census of agriculture during the period 1930-1990. To facilitate further studies, particularly of the group of holdings with small areas, the data are tabulated, whenever possible, by appropriate size classes of areas of agricultural holdings.

There are numerous limitations which affect the comparability of data among countries and this should be kept in mind when studying the summary results of national censuses presented in this publication. Some of the more serious limitations are the following: time reference, definition of agricultural holding, scope and coverage. These are discussed to the extent feasible in the publication. Attempts were made wherever practicable to resolve apparent data errors. However, no claim is made here as to the reliability of reported data. Subject to these limitations, the comprehensive tabulations presented here may serve as a useful background for the study and development of related indicators of agrarian reform and rural development and may also be useful for planning and/or improving future national agricultural censuses.

The draft of the publication was prepared by an FAO Consultant, Mr. P. Petricevic, Retired Senior Officer, Statistical Development Service, FAO Rome, under the supervision and direction of Mr. Jean Viseur, World Census of Agriculture Senior Officer. All tables and comparisons were produced within the Statistical Development Service. The FAO Statistics Division thanks all those who made this publication possible, particularly the National Statistical Offices and their Governments who conducted censuses during this period.

The Director
Statistics Division

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REMARKS

Geographic areas

The form of presentation in this report does not imply official endorsement or acceptance by FAO of the names, status or boundaries of the countries or territories listed or described. It was adopted solely for the purpose of providing a convenient geographical basis for presenting statistics in a form in which they could be readily used. The same qualification applies to all notes and explanations concerning geographic units for which data are presented.

Totals

Totals are given in many tables for a group of countries for which data are presented with number of countries presented shown in parenthesis. In cases of continents or regions, these totals do not represent totals for all countries in the region but only for those countries listed in the table. Totals are given so that the user will have a measure of the magnitude of the data for a group of countries.

Rounding

In some tables data presented for components of a total have been rounded. In such cases the sum of component parts may not be exactly equal to the total.

Symbols

Magnitude 0 or less than half the unit specified, category not applicable or data not available: -

* * *

INTRODUCTION

The preparation of the first Programme for the World Census of Agriculture (WCA) was initiated in 1924 by the International Institute of Agriculture (IIA) and implemented around 1930 in about 60 countries. IIA planned a second Programme for 1940 but its implementation did not materialize because of the Second World War. The Food and Agriculture Organization of the United Nations, created in 1945, took over the work on the preparation of the decennial Programmes for 1950, 1960, 1970, 1980, 1990 and recently issued the Programme for the World Census of Agriculture 2000, now being implemented.

In many countries the Census of Agriculture is not only the main source of agricultural statistics, covering a very wide range of different data, but it is also a base for the organization of current statistics including other agricultural surveys and related statistical activities. The census methodology is normally based on interviews of all, or a representative sample, of agricultural holders throughout the country. It should be kept in mind that the agricultural census is limited to collecting data from the agricultural holdings. As a consequence in many countries it does not cover some important land use categories, such as communal pastures and forests, which are not part of agricultural holdings.

In spite of the widely recognized importance of the agricultural census for agricultural planning, many countries do not organize a census for various reasons. The full scale agricultural census is an expensive venture so that many developing countries are not in a position to finance such an operation. Developed countries often have alternative sources for agricultural data and are concerned about "respondents fatigue" so they have an increasing tendency not to organize a full scale agricultural census but to collect only structural data which are considered to be the core of the agricultural census. These data may be collected either through a smaller scale structural survey, or by adding a few structural questions to regular annual surveys of agriculture (as done in the Netherlands), or by processing existing administrative registers (as in India, for example).

The purpose of this publication is to present census results collected from the reports issued by the countries in an as much as possible comparable form using the terminology and classifications of the FAO Programme for the 1990 WCA, although the Programme for the 2000 WCA is now available. Census data at the national level are available in diverse forms and languages and specific effort was made by the FAO Statistics Division to collect, validate, standardize, process and publish these data. The census data pertain to the 1990 round of Agricultural Censuses, which means those censuses undertaken by countries during the decade 1986-1995. It is likely that more than 100 countries have conducted an agricultural census in this decade, but not all census results were available for the preparation of this report as some countries are still in the process of tabulating their results. It often takes years to publish census reports, even in developed countries, since an agricultural census is a complex operation, although main data may be available for office use much earlier. Therefore, this volume is presenting the results of censuses in only 80 countries and territories which have completed the analysis of data and publication of the report, and made available to FAO by mid-1997.

Because of the page constraints fixed for this publication and the resources available for data identification and processing, priority in extracting data was given to structural items which are not expected to change rapidly over time. These are data on number and area of agricultural holdings, land tenure, fragmentation of holdings, legal status of holders, number of holdings reporting main crops and livestock species, etc. Users interested primarily in current agricultural production estimates are advised to consult the FAO Internet site named WAICENT, FAO Production Yearbook and similar sources. No evaluation of data quality was made because the national reports do not normally provide information on quality checks.

Data are shown in two parts:

Part I - International Comparison of Results. This part summarizes information on census coverage on the world level and on the country level as well as the methodology applied. The most important portion of this part refers to subject matter tables providing available data for all countries subject by subject. The subjects covered refer to number and area of holdings, fragmentation, land tenure, legal status, employment, land use, and the most important crops and livestock species. It should be noted that not all countries are reporting all data recommended in the FAO Programme. So, continental and overall totals shown in tables are intended only to provide an idea about the amount of information available and should not be understood as actual totals.

Part II - Primary Results by Countries. In this part, two pages were assigned to each country irrespective of the amount of data available and size of the country. These two pages are placed face-to-face with respective titles "Explanatory Notes" and "Primary Results". The "Explanatory Notes" provide general information about history, organization, timing, coverage, frame and enumeration method applied. They also provide the titles of reports used and the addresses of the national offices responsible for the publication of census results, in order to help the user seeking more detailed information. The "Primary Results" provide selected data on number and area of holdings (classified by size of holding, if available), holder, farm population, employment, land tenure, land use, irrigation, crops, etc.

Users seeking more detailed information can achieve access in three different ways:

- firstly, more detailed country results, referring mainly to crops, livestock and machinery, can be found on the FAO INTERNET site which could be accessed at the following address:

<http://www.fao.org/waicent/faoinfo/agricult/census/wcares/wcaresfr.htm>

where the part named Agricultural World Census is continuously updated from the reports received from countries;

- secondly, users can contact directly the FAO Statistics Library, where a copy of each national agricultural census report is on file (see: Explanatory Notes: data source);

- thirdly, specific questions can be addressed directly to the national statistical offices responsible for conducting the census and publication of the report (see: Explanatory Notes: mailing address).

* * *

Other FAO Publications of Census Results

Report on the 1980 World Census of Agriculture - Results by Countries - Census Bulletins 1-28. Rome, 1983-89.

1970 World Census of Agriculture - Analysis and International Comparison of Census Results. Rome, 1981.

Report on the 1970 World Census of Agriculture - Results by Countries - Census Bulletins 1-30. Rome, 1973-81.

Reports on the 1960 World Census of Agriculture - Vol. V. Analysis and International Comparison of Census Results. Rome, 1971.

Reports on the 1960 World Census of Agriculture - Vol. 1a, 1b, 1c. Census Results by Countries. Rome, 1967-70.

Reports on the 1950 World Census of Agriculture - Special Reports: World Agricultural Structure. Rome, 1961.

Reports on the 1950 World Census of Agriculture - Vol. I. Census Results by Countries. Rome, 1955.

International Institute of Agriculture (IIA) - The First World Agricultural Census (1930) - Vol. 2-3-4-5. Rome, 1939.

* * *

Part I

International Comparison

CHAPTER 1 - COVERAGE OF AGRICULTURAL CENSUSES

1.1 Coverage at world level

1.1.1 Ideally, the world census of agriculture should be conducted in each country the same year within a standardized framework such as the FAO Programme. In practice, however, the individual countries are undertaking various agricultural surveys under different titles, and FAO considers them as censuses of agriculture if they are in line with the following definition:

An agricultural census is a large-scale, periodic, statistical operation for the collection of quantitative information on the structure of Agriculture.

The word "census" implies a complete enumeration of all agricultural holdings. However, by extension, it can be conducted by a sample enumeration, provided the sample is large enough to generate sub-national data.

1.1.2 Included in this volume are only those agricultural censuses for which the report was published and made available to FAO. The reports referring to the 1990 WCA are listed country by country in "Explanatory Notes" (see: Part 2). An indication of participation of individual countries in WCA from 1930 onwards is provided in Table 1.1 - Number and area of holdings: countries participating in 1930 - 1990 rounds of agricultural censuses. Although it should be kept in mind that the criteria for deciding whether a particular survey was to be considered as a census of agriculture or not, as well as that the list of countries was changing over time, a rough picture of participation of countries in various rounds of WCA can be seen in this table. The major changes in the list of countries occurred after the Second World War, that is between 1940 and 1950 and at the time of the process of declaring independence of African countries in the 1960's. The recent changes in Europe generally are not taken into account for the purpose of this volume, as they occurred after 1990. A summary of information on participation of individual countries in various rounds of WCA, is shown in Table 1 below.

Table 1 - Number of countries included in FAO reports by WCA round and by continent

| Continents | 1930 | 1950 | 1960 | 1970 | 1980 | 1990 |
|---------------------------|------|------|------|------|------|------|
| Total | 29 | 54 | 78 | 91 | 88 | 80 |
| Africa | 1 | 3 | 17 | 23 | 17 | 17 |
| North and Central America | 7 | 15 | 16 | 16 | 14 | 16 |
| South America | 4 | 7 | 9 | 7 | 7 | 6 |
| Asia | 1 | 7 | 14 | 17 | 20 | 11 |
| Europe | 12 | 18 | 18 | 23 | 23 | 18 |
| Oceania | 4 | 4 | 4 | 5 | 7 | 12 |

1.1.3 Concerning the world coverage of the 1990 WCA, the list of all 80 countries included in Part 1 of this report, along with some basic data, is given in Table 1.2. As can be seen from this table the size of these 80 countries varies considerably in terms of the size of the total country area (from 20 000 hectares in American Samoa to 997 million hectares in Canada) as well as in total population (from 49 000 inhabitants in St. Kitts and Nevis to 850 million inhabitants in India). The summary by continent of data given in Table 1.2 is provided below in Table 2 to show the coverage of the 1990 WCA from different points of view. Thus, it can be seen from the Table 2 that the 80 countries represent 36 percent of the number of countries and territories, 46 percent of the world population and 42 percent of the world area. Much higher coverage of the 1990 WCA, in terms of the country area and population was achieved in North and Central America and Oceania than in other continents.

Table 2 - Coverage of the 1990 WCA by continent

| Continents | All countries | | | Countries participating in WCA | | | | | |
|---------------------------------|---------------|---------------------------|-------------------|--------------------------------|-------------|------------|-------------|-----------|-------------|
| | Number | Popula- tion (mlns) | Area (mlns ha) | Number | | Population | | Area | |
| | | | | Number | Per cent | (mlns) | Per cent | (mlns ha) | Per cent |
| Total | 222 | 5 286 | 13 407 | 80 | 36.0 | 2 430 | 46.0 | 5 623 | 41.9 |
| Africa | 56 | 636 | 3 014 | 17 | 30.3 | 170 | 26.7 | 859 | 28.5 |
| North and Central America | 36 | 424 | 2 284 | 16 | 44.4 | 375 | 88.4 | 2 196 | 96.1 |
| South America | 14 | 293 | 1 782 | 6 | 42.8 | 94 | 32.1 | 586 | 32.9 |
| Asia | 51 | 3 185 | 3 176 | 11 | 21.6 | 1 432 | 45.0 | 863 | 27.2 |
| Europe | 39 | 722 | 2 297 | 18 | 46.2 | 337 | 46.7 | 315 | 13.7 |
| Oceania | 26 | 26 | 854 | 12 | 46.2 | 22 | 84.6 | 804 | 94.1 |

Traditionally, some countries are regularly undertaking the censuses of agriculture, like many Western European and North, Central and South American countries, while many others have never taken a census of agriculture, i.e. many African countries, Soviet Union or China (which undertook the first census of agriculture in 1997).

1.1.4 In an attempt to provide more light on the availability of census data, the 222 countries and territories which existed in 1990 and reported data on country area and total population (see FAO Production Yearbook 1994), were classified in three groups for the purpose of this report: (i) 80 countries participating in the 1990 WCA (see Table 1.2); (ii) 71 countries not participating in the 1990 WCA for which some data on the number and the area of agricultural holdings are available from other sources (see Table 1.3); and (iii) 71 countries not participating in the 1990 WCA for which no data on the number and area of holdings were available (see Table 1.4). The summary data for the three groups of countries is shown in the Table 3 below.

1.1.5 It appears that the two groups of countries for which the number of holdings is available either from the 1990 WCA or from other sources have together a population of 3 739 million people with 237 million agricultural holdings, i.e. 16 people per holding. Out of the remaining 1 547 million people, 1 155 million lived in China in 1990 where, according to the first information from the first agricultural census in China, organized early 1997, there are 210 million agricultural holdings. An estimate of another 25 million holdings can be made for the remaining countries which have a population of 392 million, if applying the above mentioned factor of 16 people per holding. In summary, a very rough estimate of the number of agricultural holdings in the world is near 472 million, of which 210 million are in China, 97 million are in India, while the remaining 165 million holdings are in all other countries of the world.

Table 3 - Number of holdings and 1990 population for countries classified by availability of data on number of holdings and by continent

| Continents. Number of reporting countries is given in square brackets. Total refers to reporting countries only. | All world population (^{'000}) | Countries for which number of holdings was available from: | | | | Not available Population (^{'000}) |
|--|---|--|-----------------------------------|--|-----------------------------------|---|
| | | 1990 WCA | | Other sources | | |
| | | Number of holdings (^{'000}) | Population (^{'000}) | Number of holdings (^{'000}) | Population (^{'000}) | Population (^{'000}) |
| Total [222] | 5 286 134 | 175 372 | 2 429 551 | 61 749 | 1 309 859 | 1 546 724 |
| Africa [56] | 635 779 | 19 122 | 169 917 | 17 214 | 350 378 | 115 484 |
| North and Central America [36] | 424 298 | 7 468 | 374 851 | 2 185 | 38 531 | 10 916 |
| South America [14] | 293 129 | 4 049 | 93 963 | 7 069 | 191 797 | 7 369 |
| Asia [51] | 3 185 240 | 130 432 | 1 432 151 | 29 110 | 381 457 | 1 371 632 |
| Europe [39] | 721 579 | 13 948 | 337 084 | 6 161 | 347 600 | 36 895 |
| Oceania [26] | 26 109 | 353 | 21 585 | 10 | 96 | 4 428 |

1.2 Coverage at country level

1.2.1 The agricultural census is expected to cover all agricultural activities in a country. There are, however, many exceptions, which may affect the comparability of data, but in most cases the agricultural activities not covered by the census are negligible. The exceptions are summarized below, while more details for individual countries can be found in "Explanatory Notes" (see Part 2) and, of course, in national reports.

1.2.2 The summary of the available information on coverage is given in Table 1.5 - Coverage of agricultural censuses and application of sampling for countries taking a census in the period 1986-95. In all countries the urban areas are normally excluded from the census although some activities, such as poultry raising, may exist even in the urban areas. In a number of countries only the traditional sector was covered (Benin, Burkina Faso, Guinea Bissau, Tanzania and the Democratic Republic of Congo), while the modern sector or government farms were not covered. In some countries (such as Burkina Faso and Ethiopia) nomadic livestock was not included in the census. In many countries a part of the national territory (see: Djibouti, Ethiopia, Canada, Myanmar) was not covered by the census, usually because such a part did not contribute much to the agricultural production of the country, or sometimes because the central government did not exercise full control over this part of the country.

1.2.3 Furthermore, there are two other important cases when coverage of all agricultural activities may not be complete. Firstly, many countries for practical reasons define a minimum size of holding in order to avoid enumeration of a large number of small holdings which may contribute very little to the total national agricultural production. More details on this matter may be found in Section 3.1. Secondly, in many countries, particularly in Africa, some categories of land use, such as pastures, are communal and not part of the agricultural holding and are not covered by the agricultural census. Additional details on this subject can be found in Sections 3.1 and 3.5. Because of such factors the land in agricultural holdings as percent of the total country area varies considerably from country to country: from 0.5 percent in French Guiana and 1.0 percent in the Democratic Republic of Congo to 100 percent in Czechoslovakia (former) and Poland (see Table 1.2), as statistical services in these two countries made an effort to provide a full account of the land use for the whole national territory.

1.2.4 Finally, it may be mentioned that the enumeration of the agricultural holdings is normally based on lists of holdings, called frame. If these lists are not well constructed or maintained, there may be omissions or duplications in enumeration of holdings, whether it is a complete or a sample enumeration. There is very little information on coverage errors due to such imperfect frames in national reports.

1.3 Comparability of census results

1.3.1 Many factors that affect the comparability of census results have been described elsewhere in this report. These are the exclusion by some countries of a

part of national territory, nomadic livestock, special sectors of agriculture (such as the modern sector in African countries), which are described in Section 1.2 - Coverage at Country Level. Many of these factors are not significant for most countries included in this report. Two other factors, mentioned in Section 1.2, and which may be important for many countries, are related to the definition of holdings and refer precisely to: elimination in some countries of holdings below a predefined **minimum size** and exclusion of some categories of **land use**. The problem with the exclusion of holdings below a minimum size in some countries is the fact that in many countries there are many small holdings which contribute very little to the national agricultural production, and much less to the marketed production, but are important from a social viewpoint. The problem with the exclusion of some land use categories in some countries is described in Sections 1.3 and 1.5, which makes the comparison of average size of holdings between countries difficult.

1.3.2 Related to the land use comparability problems mentioned above, there are probably even more important problems which refer to the **intensity of land use**. In fact, in many countries there is only one agricultural season per year (Europe or North America), while other countries have three or four seasons per year (Southern Asia). The Programme for the 1990 WCA recommended the classification of the arable land by cultivation intensity, but no information on this subject was received.

1.3.3 The comparability of individual country data between consecutive censuses is, normally, easier as the countries tend to use the same concepts and definitions over time. Nevertheless, when studying the time series on number and areas of holdings (see Table 1.1), one can detect unexpected irregularities which are sometimes difficult to explain. Thus, the major changes in total area of holdings in Norway (from 1980 onwards) and the Republic of Korea (from 1970 onwards) are due to the fact that only agricultural area is now being reported while, before, the total area reported included forest and all other land. There is no easy explanation for changes in the time series of some other countries, such as Dominican Republic and Mexico.

1.3.4 Data user should be warned when undertaking comparison among countries, or even among consecutive censuses in the same country. Sometimes differences between figures may be explained by difference in definitions and/or methodologies applied, then by the differences in agriculture in these countries or by changes over time in the same country.

CHAPTER 2 - METHODOLOGY APPLIED

2.1 Methods of enumeration

2.1.1 Most countries collected the agricultural census data through an **interview** of agricultural holders by enumerators who visit all agricultural holders. The advantage of this method is that the enumerators are in a position to explain to respondents which information is required and, being on or near the holding, they can check that accurate information is obtained.

2.1.2 In extreme cases, when the respondents are not able to provide accurate information on crop areas, **objective measurements** are undertaken. This is a frequent practice in African countries where land cadaster does not exist and farmers do not have clear concepts of standard measures of crop areas. The objective measurement of the areas is a costly and time consuming operation.

2.1.3 The **enumeration by mail** was rarely used, only in United States, New Zealand and some West European countries, such as United Kingdom. The problem is that the agricultural census questionnaire is relatively complex so that direct interview by trained enumerators is almost indispensable. For similar reasons modern methods, such as interview by **telephone** or by use of **hand-held computers**, were not reported by any country. The use of telephone was reported, however, by a number of countries for follow-up of mail enumeration, either as a reminder to non respondents or for checking questionable responses.

2.1.4 The FAO recommends a co-ordination between the agricultural and population censuses, particularly at the stage of preparing the list of agricultural holdings to be enumerated. Although there is little evidence of this co-operation found in national reports on agricultural censuses, a number of countries, such as American Samoa, Canada, Turkey and Zambia did report the use of the population census activities for the purpose of making contacts for the agricultural censuses.

2.1.5 Concerning other aspects of methodology applied in agricultural censuses, it may be mentioned that many countries reported on activities of pretesting the methodology applied. Only a few countries reported on any evaluation of the quality of data collected (quality check survey results, sampling error, etc.), and it would appear that very few countries undertook a post-enumeration survey for assessing the quality of the results, because of lack of funds.

2.2 Use of sampling

2.2.1 Although the term "census" implies complete enumeration of all agricultural holdings in a country, it was accepted in the Programme for the 1990 WCA, as in previous Programmes since 1960, that an agricultural census may be conducted through complete enumeration, or sampling or a combination of both. The main

reason for using sample enumeration is to make census taking possible in countries with limited resources and particularly in those countries where enumeration is very expensive as it is necessary to measure areas and production under crops because the holders are not able to provide required information through an interview.

2.2.2 The available information on the application of sampling is provided in Table 1.5 - Coverage of agricultural censuses and application of sampling for countries taking a census in the period 1986-95. Out of 79 countries for which some information was found, 20 countries used sampling instead of complete enumeration while an additional 8 countries used the sampling as a supplement to the complete enumeration in various ways.

2.2.3 Ten out of the 20 countries using sampling instead of complete enumeration are in Africa. In African countries where it is considered necessary to apply objective measurement of areas, sampling is the only way to collect data with available resources. The sample design applied in these countries is, generally, a two stage sample design with villages or similar units used as the primary sampling units, and a fixed number of agricultural holdings, usually 4 to 6, as secondary sampling units enumerated in selected villages. In these countries, even if the size of sample is relatively small, (for example, 1 600 agricultural holdings in Benin and 8 100 in Tanzania), it makes possible good estimates with an acceptable sampling error at country level but the estimates at the sub-national level are, generally, subject to large sampling errors.

2.2.4 Six of the 20 countries using sampling are in Asia, in countries with many small holdings. The sample design in these countries was different for each country. In some cases such as India, sampling is different in different states of the country. The size of the sample was relatively large, for example: 120 000 in Thailand and 122 000 in Nepal, making possible good estimates with acceptable sampling errors even at the sub-national level.

2.2.5 In another three countries, Albania, Colombia and Fiji, the area sampling frame method with land area segments was used as the ultimate sampling unit. This method is considered useful particularly for crop and land use surveys, although it can also be used for multipurpose surveys. This is the first time that this method was successfully used for the agricultural censuses demonstrating its applicability for this purpose.

2.2.6 In the eight countries for which the combination of the complete enumeration and sampling was reported, sampling was used in different ways. In Swaziland and Zambia a very short questionnaire was completed for all agricultural holdings at the time of preparation of the list of holdings, while the bulk of the most important census data was collected on a sample basis. In Cape Verde and Sao Tome and Principe the modern sector was completely enumerated, while the traditional sector was sampled. In the Philippines only large holdings (with 61 hectares or more) were completely enumerated, while smaller holdings were sampled.

2.2.7 It was noted that countries using a sampling method very rarely report on the magnitude of the sampling errors, either because they were not calculated, or because they were very large.

CHAPTER 3 - MAIN SUBJECTS

3.1 Number and area of holdings and fragmentation

3.1.1 Data on number and area of holdings are presented for 80 countries in Table 3.1. More precisely, data on number of holdings (175 million) are available for 80 countries, while data on area of holdings (1 919 million hectares) are available for 74 countries.

3.1.2 Definition of holding affects directly the number of holdings in a given country, since there are often many small holdings which may or may not be included in the census. Most of the countries followed the definition proposed by FAO (see **Frame 3.1.1**). Ideally, the census should cover (either by complete enumeration or through a representative sample) all agricultural holdings in a country whether large or small and whether in rural or urban areas. In practice, however, it is convenient to put a minimum limit on size of agricultural operation to avoid enumeration of a large number of small holdings which do not contribute significantly to the national agricultural production, but contribute significantly to the total cost of census operations. The

An 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 purposes, without regard to title, legal form, or size. Single management may be exercised by an individual or a household, jointly by two or more individuals or households, by a clan or tribe, or by a juridical person such as a corporation, cooperative or a government agency. The holding's land may consist of one or more parcels, located in one or more separate areas or in one or more territorial or administrative divisions, providing the parcels share the same production means utilized by the holding, such as labour, farm buildings, machinery or draught animals.

Frame 3.1.1 FAO definition of agricultural holding

FAO Programme did not propose any minimum limit for the size of agricultural operations. Many countries, however, have adopted their own definitions of the minimum size of holding.

3.1.3 Definition of holdings as adopted by various countries is given in Explanatory Notes for individual countries (see Part II of this publication: Primary Results by Countries). On summarizing this information it can be stated that about one third of countries did not define any minimum size of holdings. This group of countries includes most African countries and some other large countries such as India. Remaining countries defined a minimum size of total or agricultural land ranging from 25 sq. meters in Tanzania to 5 hectares in Denmark, and 6 hectares in England, Wales and Northern Ireland, as a condition for inclusion of a holding in the census. Many of these countries made additional provision to include holdings raising livestock, cultivating specialized crops or having annual sales of agricultural products above a certain value, even if they do not have a defined minimum area. (For example: holdings below a minimum area were included in the census if they had annual sales of at least US \$1 000 in the United States, 3 000 ECU in Denmark and 150 000 Yen in Japan). Most of the countries specified a combination of minimum

size of area of holding and/or livestock, sometimes in a very complex manner. As a typical example, the definition of holding in Portugal is reproduced below:

Agricultural holdings are those reporting at least 1 ha of agricultural area. Agricultural holdings are also considered those not reaching the above limit, but reporting at least one of the following:

- 0.5 ha of cultivated area;
- 0.05 ha of flowers, or greenhouses, or nurseries;
- 0.1 ha of garden crops or seed crops;
- 0.2 ha of tobacco, or orchards, or wines, or hops;
- 1 breeding bull, or 1 cow, or 1 swine;
- 2 cattle two years old, or 3 pigs for fattening;
- 6 sheep and/or goats, or 10 female rabbits;
- 100 chickens or 10 beehives.

3.1.4 Other factors affecting the total number of holdings refer to definition of agriculture and the coverage of the agricultural census as in some countries fisheries and forestry are also covered. In some countries with large holdings, the parts of holdings in different administrative units were counted as separate holdings, increasing the number of holdings and decreasing their size. By far the most important reason for differences in number of holdings between countries is, obviously, the size of a country.

3.1.5 Definition of area of holdings is affecting this measure of the size of holdings.

Although most of the countries followed the FAO definition of the area of holdings (see **Frame 3.1.2**), there are other important factors making the comparability of data on size of holdings between countries difficult. Data shown in the Section 3.5 Land Use, may be helpful to shed more light on this subject. Basically, there are two major factors making it difficult to compare data on area of holdings between different countries: (a) agricultural practice factor, which is related to climatic conditions and refers to the fact that in some countries there may be two or more cropping seasons while in other countries there is only one season; and (b) land tenure factor, which refers to the fact that in many countries some categories of land use, such as pastures, are not a part of the agricultural holdings but belong to the community.

Total area of agricultural holding is the combined area of all the holding's parcels. Land owned by the holder but rented to others should not be included in total holding area. The holding area includes farmyard and land occupied by farm buildings. Land area of the holder's house is also included in total holding area if the house is not located off the holding (for example, in a residential area of a nearby village or town), and is not used solely for residential purposes. The total area of a holding practising shifting cultivation should include area under crops during the reference period and area prepared for cultivation but not sown or planted at the time of enumeration; it should exclude land abandoned prior to the reference period. Holders having access to communal grazing land should not include their estimated share of such land in their total holding area. Total holding area should be equal to total land area under various land use classes.

Frame 3.1.2 FAO definition of total area of agricultural holding

3.1.6 In fact, the average size of holdings varies very much from country to country from less than 1 hectare in Ethiopia, Democratic Republic of Congo, Grenada, Nepal and Palau to more than 100 hectares in Canada, USA, Argentina, Uruguay, New Zealand and Australia which has the largest holdings of the countries providing census information with the average of 3 600 hectares per holding. The overall average size of holdings for all the reporting countries is 11 hectares varying considerably from continent to continent. There are several reasons for the large differences in average size of holdings, which can be explained by different definition of holdings in different countries, major differences in climate and related differences in types of agricultural practices, and different possibilities of access to the land (i.e. different conditions for land tenure).

3.1.7 Data on number of parcels in holdings is given in Table 3.1 for 24 countries (see **Frame 3.1.3** for FAO definition of parcel). The division of holdings into parcels has many origins. Population increase and the application of inheritance laws in many countries resulted in the original pieces of land being either divided and further subdivided. In other countries with population moving from rural areas there is a decrease in the number of holdings and an increase in the average size of remaining holdings because the agricultural holders who remain purchase or rent abandoned holdings, which may result in an increase in the number of parcels.

A holding parcel is any piece of land entirely surrounded by other land, water, road, forest, etc. not forming part of this holding. A parcel may consist of one or more fields adjacent to each other. A field is a piece of land in a parcel separated from the rest of the parcel by easily recognizable demarcation lines, such as paths, cadastral boundaries and/or hedges. A field may consist of one or more plots. A plot is a part or whole of a field on which a specific crop or crop mixture is cultivated.

Frame 3.1.3 FAO definition of parcel

3.1.8 The excessive fragmentation of land is an important factor because it is an obstacle for use of mechanization for agricultural work and limits rational implementation of advanced technology.

3.1.9 Data for 24 countries providing information on fragmentation show the average number of parcels per holding for this group of countries as 3.5 (2.7 in seven African countries reporting, 3.2 in five Asian countries reporting and 5.2 in five European countries reporting). The average size of parcels calculated for this group of 24 countries is 1.6 hectares (.6 hectare in seven African countries reporting, 1.1 hectare in five Asian countries reporting and 2.3 in five European countries reporting). These data should be interpreted with caution because it is not always easy to understand, particularly in Africa, whether a country was strictly using the concept of parcel, field or plot.

3.2 Land tenure

3.2.1 Data on land tenure are shown for 23 countries in Table 3.2 - Number and area of holdings by tenure, and for 26 countries in Table 3.3 - Area of holdings by tenure of land operated. In effect, there is a problem in the presentation of data on land tenure because there are holdings with mixed forms of tenure, the most typical being the holdings partly-owned and partly-rented. In practice, each parcel in a holding may be operated under different forms of tenure. Countries are using two different ways of presentation: (i) number and area of holdings by tenure, where all holdings are classified as operated under one single form of tenure or under more than one form of tenure. Only those holdings operated under one form of tenure are further classified by various tenure forms (see Table 3.2); and (ii) area of holdings by tenure of land operated, where all land is classified by individual tenure forms, without mentioning the number of related holdings (see Table 3.3).

| |
|---|
| Land owned or held in ownerlike possession Land rented from others Land operated on squatter basis Land under tribal or traditional communal forms of tenure Land under other forms of tenure |
|---|

Frame 3.2.1 FAO classification of land tenure

3.2.2 Tenure refers to the relationship between the agricultural holder and land he operates concerning his possibilities to use and control this land. An important factor here is that there may be very different situations concerning incentives for investment and stability of agricultural planning between holders owning or holders renting or squatter on the land they operate. In case of rented land the holder may be more reluctant to undertake major investments, such as irrigation systems, machinery, farm building and planting of permanent crops than the holder who operates owned land.

3.2.3 Data on number and area of holdings by tenure shown for 23 countries in Table 3.2 represent 74.4 percent of all holdings and 51 percent of the holding area in the 80 countries included in this report. An additional 13 percent of the holding area, classified by land tenure groups are shown for 26 additional countries in Table 3.3.

3.2.4 A summary of available data on number of holdings classified by tenure, is shown in Table 4. It can be seen that there is a larger proportion of holdings fully owned in reporting countries of Asia (92.3 percent) and Europe (83.5 percent) than in North and Central America (56.7 percent) or in South America (70.7 percent). Data for Africa and Oceania are not representative as they refer to just a few smaller countries. The largest proportion of holdings operated under other forms of tenure found in South America (17.4 percent) is mainly squatters.

Table 4 - Percentage distribution of number of holdings by land tenure and by continent

| Continents. Number of reporting countries is given in square brackets. Total refers to reporting countries only. | Holdings reporting tenure | Holdings operated under one form of tenure | | | Holdings operated under more than one form of tenure |
|---|---------------------------------|--|--------------------------|--|---|
| | | Owned by the holder or in ownerlike possession | Rented from others | Under other single forms of tenure | |
| | ('000) | Percent | Percent | Percent | Percent |
| Total [23] | 127 969 | 90.6 | 2.7 | 1.3 | 5.4 |
| Africa [1] | 1 | 94.4 | 0.0 | 5.6 | 0.0 |
| North and Central America [6] | 2 331 | 56.7 | 10.6 | 5.9 | 26.9 |
| South America [4] | 3 879 | 70.7 | 4.5 | 17.4 | 7.4 |
| Asia [7] | 116 202 | 92.3 | 2.4 | 0.7 | 4.6 |
| Europe [3] | 5 555 | 83.5 | 3.5 | 0.4 | 12.6 |
| Oceania [2] | 1 | 84.5 | 7.6 | 0.0 | 8.0 |

3.2.5 It can be calculated from Table 3.2 that the average size of holdings for 23 countries reporting different land tenure classes is: 5 hectares for holdings owned, 21 hectares for holdings rented, 11 hectares for holdings operated under other single forms and 40 hectares for holdings operated under more than one form of tenure. These averages change very much from country to country. (The continental averages given above reflect the influence of the large number and area of holdings provided for the United States and India).

3.2.6 It can be noted that little information on land tenure was provided for African countries: only for Djibouti in Table 3.2 and for 5 countries in Table 3.3. In these 5 countries over 80 percent of the land (5.6 out of 6.9 millions hectares) classified in Table 3.3 under other forms of tenure, refer mainly to tribal or traditional communal form, according to the country reports. In fact, most of the traditional agriculture in Africa appears to be based on tribal form of tenure under which individual households are assigned piece(s) of communal land for private use, whenever such land is required by an agricultural household. Such systems permit land rotation within the community whenever the land fertility is exhausted (shifting cultivation), but does not permit land sale. Most of the holdings in African countries could be classified, therefore, under tribal land tenure. Nevertheless, there may exist new situations in Africa in areas with increasingly high density of population and consequent pressure on land, like in central Nigeria, or near any major town, causing modifications of the traditional tribal system.

3.3 Legal status of the holder

3.3.1 The FAO classification of legal status of holder (see **Frame 3.3.1** FAO classification of legal status of holder, and **Frame 3.3.2** FAO definition of holder) was followed by most of the 28 countries which provided data, but very few countries gave all the details. Specifically, in many cases there was no uniform distinction between holdings operated by: (i) an individual, (ii) a household; or (iii) two or more individuals of different households or two or more households. It was preferred, therefore, for the purpose of this report to show these three groups together under the title civil person. Similarly, in many countries where corporations, cooperatives or government farms were not important, they were not shown separately, but reported under the title "other"; in this report they were presented under the title other.

| |
|---|
| <p><u>Legal status of holder</u></p> <p>(a) Private</p> <ul style="list-style-type: none"> - An individual - A household - Two or more individuals of different households or two or more households - Corporation - Cooperative - Other <p>(b) Government</p> <p>Frame 3.3.1 FAO classification of legal status of holder</p> |
|---|

3.3.2 It should be noted that data on the legal status of the holder are not reported for any African country. This is because in many African countries this classification was not available, either because only the traditional sector was covered, or non-traditional sector was small and not of much interest.

3.3.3 Data on legal status of the holder available for 28 countries are shown in Table 3.4 (10 countries in North and Central America, 3 in South America, 5 in Asia, 8 in Europe and 2 in Oceania). Data are shown for 123.0 million holdings classified in 122.4 million holdings operated by civil persons with an average size of 5.3 hectares and .6 million other holdings with an average size of 386 hectares. It is worthwhile to note that holdings operated by civil persons include 99.5 percent of all holdings in reporting countries but only 74 percent of total area.

| |
|--|
| <p>The <u>holder</u> is a civil or juridical person who exercises management control over the agricultural holding operation and takes major decisions regarding resource use. The holder has technical and economic responsibility for the holding and may undertake all responsibilities directly, or delegate responsibilities related to day-to-day work management to a hired manager.</p> <p>Frame 3.3.2 FAO definition of holder</p> |
|--|

3.4 Members of holder's household and employment

3.4.1 Data on members of holder's household, including holder (see **Frame 3.4.1** UN definition of household adopted by FAO), shown in Table 3.5, were available for 47 countries (13 in Africa, 10 in North and Central America, 5 in South America, 6 in Asia, 8 in Europe and 5 in Oceania). The holder's average size of household varied from below 3 in Dominica, Grenada, Sao Tome and Principe, Finland, Italy and Niue, to above 10 in Pakistan and Western Samoa.

The concept of household is based on the arrangements made by persons, individually or in groups, for providing themselves with food or other essentials for living. A household may be either (a) a one-person household, that is, a person who makes provision for his or her own food or other essentials for living without combining with any other person to form part of a multiperson household, or (b) a multiperson household, that is, a group of two or more persons living together who make common provision for food or other essentials for living. The persons in the group may pool their incomes and have a common budget to a greater or lesser extent; they may be related or unrelated persons or a combination of both.

Frame 3.4.1 UN definition of household

3.4.2 Many countries participating in the 1990 World Census of Agriculture have classified data on members of holder's household by sex and age. While data classified by age are difficult to summarize, because different age classes were used by different countries, data classified by sex for 39 countries were easy to summarize and are shown in Table 3.5.

3.4.3 When comparing the agricultural and demographic statistics the following problem often arises. The number of members of the holder's household as obtained in agricultural censuses is expected to be similar in size to the agricultural population of a country as obtained from demographic statistics (see **Frame 3.4.2** Definition of agricultural population). In reality, there are some important differences. The number of members of the holder's household may include people who happen to belong to the household, although they may not be dependent on agriculture (artisans, etc.); this case is particularly frequent in small holdings if such are covered by the census. At the same time this number may exclude agricultural workers from landless families who depend on agriculture. The agricultural population may, therefore, be either smaller or larger than the number of members of the holder's household. In fact, when comparing data on agricultural population from Table 2.2 and data on number of members of the holder's household from Table 3.5, it can be seen that although the two figures are often similar, in some cases the agricultural population is more than double (Libya, Barbados, Italy) and in other less than half (Bahamas, Argentina) of the number of members of the holder's household. It should be kept in mind also that the

Agricultural population is defined as all persons depending for their livelihood on agriculture. This comprises all persons actively engaged in agriculture and their non-working dependents.

Frame 3.4.2 Definition of agricultural population
(source: FAO Production Yearbook, 1995)

two figures may be difficult to compare as they may have different time reference and coverage, and may be based on a different methodology.

3.4.4 The comparability of data between countries is also affected by differences in concepts and time reference. In some countries holders and members of their households were not counted if absent at the time of enumeration. In other countries, holders and members of their households were not counted if not living on the holding but in a neighbouring village or town. It should be noted that many countries did not collect data on members of the holder's household, preferring to rely on similar data from demographic censuses or surveys.

3.4.5 Data on hired permanent workers (see **Frame 3.4.3** FAO definition of permanent agricultural workers) available for 18 countries are given in Table 3.5. In countries for which data are shown, the average number of hired permanent workers per holding varies from less than 5 workers per 100 holdings in Guinea, Cyprus and Italy to more than 30 workers per 100 holdings in some of the North and Central American Countries: Puerto Rico (66), Barbados (45), Saint Lucia (43) and Martinique (34).

Permanent agricultural worker is a person whose services are utilized regularly and continuously during the agricultural year for the agricultural work on the holding. The total number of days worked during the agricultural year (normally six months or more) distinguishes a permanent from an occasional worker in some countries. However, a permanent worker may actually work less than six months during the agricultural year, especially in crop production in countries with one crop season.

Frame 3.4.3 FAO definition of permanent agricultural worker

3.4.6 The 1990 FAO Programme suggested collecting data on employment separately for members of the holder's household and for hired agricultural workers, both classified as permanent or occasional agricultural workers. The differences in coverage of members of the holder's households in different countries as described above, and differences in classification of agricultural workers into permanent and occasional as applied by various countries, make the comparison of data for different countries very difficult. For this reason only data on hired permanent workers are shown in this report.

3.5 Land use

3.5.1 Data on land use summarized for 74 countries are presented in Table 3.6. Many countries did not provide all the details suggested by FAO (see **Frame 3.5.1**). The subclassification of arable land was not available for most countries. Data available are shown in a somewhat reduced form in respect to the proposed FAO classification.

All land
 Productive land
 Agricultural land
 Cropland
 Arable land
 Land under temporary crops
 Land under temporary meadows
 Land temporary fallow
 All other arable land
 Land under permanent crops
 Land under permanent meadows and pastures
 Wood or forest land
 Unproductive land (All other land)

Frame 3.5.1 FAO classification of land use groups

As already mentioned in Section 3.1, some categories of land use are partly or completely excluded from the agricultural holding. In fact, in many countries there are communal pastures or wood or forest land belonging to the government. The agricultural census is a good source of data on cropland categories, but cannot provide data on land under permanent meadows and pastures, and wood or forest land in many countries.

3.5.2 The coverage of land use categories for 74 countries included in Table 3.6 varies considerably from country to country as can be seen from this table and the following factors affect data comparability. In eleven out of 14 African countries land use data refer only to cropland. This is because these countries have predominantly tribal forms of tenure (see Section 3.2 for more details) and the total area of a holding consists only of land cultivated or prepared for cultivation. These countries were included in Table 3.6 even if they did not specifically report land use. On the other extreme land use data shown for Czechoslovakia (former) and Poland cover the whole national territory because these countries made an effort to provide data from other sources to supplement census data.

3.5.3 The proportion of country areas covered by the agricultural census varies considerably because of factors described in the previous paragraph but is also impacted by other factors, such as density of population and availability of cultivable land. Thus, the proportion of land in agricultural holdings in reporting countries varies from continent to continent from 4 percent in Africa, 26 percent in North and Central America and 31 percent in Asia to 49 percent in South America, 63 percent in Europe and 60 percent in Oceania.

3.5.4 Concerning various land use categories, data on agricultural land were available for all 74 countries and are included in Table 3.6. Data on total cropland were available for 72 countries but the subdivision into arable land and land under permanent crops was available for only 41 countries. Separate data on land under permanent meadows and pastures, and wood or forest land were available for 50 and 43 countries respectively. Data on wood or forest land for United Kingdom was included under all other land, and similar inclusion might have occurred in some other countries.

3.5.5 Percentage distribution of land use classes is given in Table 5. Cropland, which includes arable land and land under permanent crops, is the most significant category of land use in holdings. Cropland occupies 36 percent of all land in holdings in 74 countries as a whole. Countries with large areas in agricultural holdings tend to have proportionately little cropland with more land under pastures or wood or forest. The largest proportion of cropland in respect to total holding area is found in Africa (95 percent) and Asia (92 percent). The largest area under permanent meadows and pastures in absolute terms and also as the proportion of total holding area is found in South America (50 percent) and North and Central America (41 percent). The largest proportion of wood or forest land in agricultural holdings is found in Europe and South America, both with 21 percent.

Table 5 - Percentage distribution of area of holdings by land use classes and by continent

| Continents. Number of reporting countries is given in square brackets. Total refers to reporting countries only. | Total area | Cropland | Permanent meadows and pastures | Wood or forest land | All other land |
|---|---------------|----------|---|------------------------------|----------------------|
| Total [74] | 100.0 | 36.5 | 24.1 | 8.0 | 31.3 |
| Africa [14] | 100.0 | 95.4 | 1.0 | 0.0 | 3.6 |
| North and Central America [16] | 100.0 | 45.0 | 41.2 | 7.5 | 6.3 |
| South America [6] | 100.0 | 12.8 | 50.2 | 20.7 | 16.3 |
| Asia [11] | 100.0 | 91.6 | 0.7 | 0.4 | 7.3 |
| Europe [17] | 100.0 | 43.1 | 24.0 | 21.3 | 11.6 |
| Oceania [10] | 100.0 | 3.9 | 2.9 | 0.3 | 92.9 |

3.6 Crops

3.6.1 Data on area under crops are shown for three important cereals: Wheat (Table 3.7), Rice (Table 3.8) and Maize (Table 3.9). An important feature of agricultural censuses is the provision of structural data on the number of holdings cultivating specific crops. Such data are not normally available from annual surveys, which are often a better source for crop production data. Data shown in Tables 3.7 to 3.9 include, therefore, the number of holdings reporting crop and crop area, along with the total number of holdings in a country to permit an easy calculation of the percentage of holdings reporting the crop and the average area per holding.

3.6.2 Available data on number of holdings reporting wheat and the area under this crop are shown in Table 3.7 for 37 countries. Among 25 countries providing data on number of holdings reporting wheat, more than 50 percent of holdings reported wheat in Iran (53 percent), Nepal (60 percent), Pakistan (82 percent) and Turkey (69 percent), while less than 5 percent of holdings reported wheat in Zambia, Mexico, Paraguay, Myanmar and New Zealand. The largest average size of area under wheat per holding reporting wheat is 291 hectares in Australia.

3.6.3 Data on number of holdings reporting rice and the area under rice are shown in Table 3.8. Among 19 countries providing data on number of holdings reporting rice there are six countries with more than 50 percent of holdings reporting rice: Rep. of Korea (85 percent), Thailand (77 percent), Nepal (70 percent), Japan (67 percent), Myanmar (64 percent) and Philippines (51 percent).

3.6.4 Data on number of holdings reporting maize and the area under this crop are given in Table 3.9. In nine out of 29 countries providing information on number of holdings reporting maize more than 50 percent of all holdings reported this crop: Swaziland (85 percent), Honduras (82 percent), Albania (77 percent), Vanuatu (74 percent), Zambia (73 percent), Paraguay 69 percent), Nepal (63 percent), Mexico (62

percent) and Tanzania (57 percent). It is interesting to note that these nine countries represent all continents.

3.6.5 Regarding the comparability of crop data between countries and their accuracy the following remarks could be made: although the FAO Programme recommended the collection of data on area harvested, many countries, particularly in Africa, reported the area under crop at the enumeration day. In the case of countries with more than one season, the aggregate of the area harvested during the agricultural year was to be reported. In many countries, particularly in Africa, two or three visits by enumerators were arranged in order to cover all seasons. In the case of mixed crops (when two or more kinds of crops are grown simultaneously in the same field) most of the countries report total area under crop whether in pure stand or mixed predominant or mixed secondary. Some countries report only area where a crop is in a pure stand or predominant, or estimate the proportion of area occupied by a crop in mixed stand.

3.7 Livestock

3.7.1 Selected data on livestock and poultry are shown in several tables: Table 3.10 on Cattle (77 countries), Table 3.11 on Buffaloes (8 countries), Table 3.12 on Sheep and Goats (72 countries), Table 3.13 on Pigs and Horses (71 countries) and Table 3.14 on Chickens (64 countries). Data shown refer to total number of holdings reporting a specific kind of livestock and the number of head of each specie of livestock. It should be noted that, as in crops, a specific feature of agricultural census data in comparison with annual livestock surveys is that the census provides structural information on the number of holdings reporting a specific kind of livestock. For this reason the information on the number of holdings reporting is shown in respective tables along with total number of holdings in a country, to permit the calculation of percent of holdings reporting a specific kind of livestock and the average number of head per holding reporting. More detailed information on number of holdings classified by number of head is often available in national census reports, but is not included in this short summary of census data.

3.7.2 The available data on cattle (See Table 3.10) show that the number of holdings reporting cattle varies from less than 5 percent in Bahamas, Cyprus and American Samoa to more than 70 percent in Paraguay, Nepal, Pakistan, Albania and Poland. The average number of cattle per holding reporting varies from less than 3 in Cape Verde, Grenada, St. Vincent and the Grenadines, Philippines and Albania to more than 100 in Argentina, Australia, New Zealand and Northern Mariana Islands.

3.7.3 Data on buffaloes were available for only 8 countries and are shown in Table 3.11. Most buffaloes in these countries (99 percent) were reported by four countries: Pakistan (14.5 million head), Thailand (5.3 million head), Nepal (3.1 million head) and Philippines (2.8 million head). In Pakistan 84 percent of holdings reported buffaloes with an average of 3.4 head per holding.

3.7.4 More than 40 percent of holdings reporting sheep was found in Burkina Faso, Lesotho, Martinique, Albania, Australia and New Zealand, while more than 40 percent

of holdings reporting goats was found in Botswana, Burkina Faso, Cape Verde, Uganda, Nepal and Pakistan (see Table 3.12).

3.7.5 Among 50 countries reporting the number of holdings with pigs, nine countries reported that more than 50 percent of holdings raise pigs: these are Cape Verde, Paraguay, Philippines, Austria, Poland, American Samoa, Guam, Niue and Northern Mariana Islands. Only 30 countries report number of holdings with horses. A large proportion of holdings reporting horses is found in Argentina (62 percent) and in Albania (see Table 3.13).

3.7.6 Data on chickens show that in countries where there is a small proportion of holdings raising chickens, the average number of chickens per holding is considerably larger, indicating that in these countries there is a specialization of holdings raising chickens (see data on Canada, United States, Korea Rep. of, Denmark, Australia and New Zealand in Table 3.14)

3.7.7 Concerning the accuracy of data on livestock and their comparability between countries there are several factors which should be kept in mind. Firstly, the number of some animals, such as pigs, can change quickly and considerably in the course of the agricultural year. In such cases the reference date of enumeration may be important. Secondly, the FAO definition of livestock population (see **Frame 3.7.1**) referring to counting of animals found on the holding is not easy to implement in some countries, because at the time of enumeration the animals may have been absent from the holding during the day or over longer periods, under control of somebody who takes care of animals belonging to many different holders. In these countries it is often preferred to enumerate the animals by ownership, which often creates a problem for controlling accuracy of data collected.

The livestock population refers to animal numbers present on the holding on the reference date regardless of ownership. Livestock population includes livestock temporarily absent or in transit at enumeration time.

Frame 3.7.1 FAO definition of livestock population

CHAPTER 4 - CLASSIFICATION BY SIZE

4.0.1 The FAO Programme for the 1990 WCA recommended that the most important census data be classified by size of total area of holding as well as by some other measures of size. In national reports of many countries, data are available on many subjects classified by size. In this report only data on number and area of holdings classified by size are shown; they can be seen in Tables 4.1 and 4.2. The FAO Programme proposed 19 size classes in order to cover needs of different countries. In this report, only 11 major size classes are shown.

4.1 Special comparability problems

4.1.1 There are two major problems in comparing data classified by size from different countries. One problem refers to the size classes which are not always compatible between countries, particularly in the case of countries not using hectares, but other measures, such as acres or manzanas. In these cases interpolation of data had to be made to make possible the presentation of data from different countries in the same table. The other problem refers to the measure of size used for classification, as many countries did not classify data by size of total area of holdings, as suggested by FAO, but by size of agricultural area, cropland, etc.

4.1.2 The interpolation of data was made using a method developed in FAO for this purpose (based on the fact that distribution of holdings by size follows, generally, the log-normal distribution; the method can be described as linear interpolation on probit scale). Data had to be interpolated for 31 out of 66 countries shown in Table 4.1. All interpolated figures are indicated in italics.

4.1.3 The interpolation, or better called extrapolation, was not done for open-ended intervals, such as "less than 5", or "more than 50", because the reliability of such estimates is difficult to check. This affects vertical totals, because the figure available for the interval, such as "more than 50" is added as if it were intended for the interval "50 and less than 100".

4.1.4 Concerning the measure of size used for classification, 46 out of 67 countries shown in Table 4.1 used all land of holdings as a measure of size for classification. Among the remaining 21 countries, 2 countries used productive land, 14 countries used the agricultural land (of which 10 countries are in Europe), 4 countries used cropland (called cultivated area in Burkina Faso and in the Democratic Republic of Congo, and land under crops in Albania), and 1 country (Finland) used arable land (see Section 3.5 for definition of the above mentioned land use categories). It should be mentioned that data classified by size, for countries using different criteria for this classification, should not, strictly speaking, be tabulated in the same table (see Table 4.1). This was done for economy of space, and because the difference in size of different measures, such as total and agricultural land, is not always significant (see for example: Belgium, France, Switzerland, etc.). In many African countries the total

area of holdings is limited to cropland, or land under crops, so it is a choice made by the country whether this area will be called total area or cropland. Table 3.6 providing data on land use may be consulted for a better understanding of this problem.

4.2 Classification of the 1990 census data by size of holdings

4.2.1 The available data on number and area of holdings are shown in Table 4.1. These data include the information on the measure of size used, as well as the information on the kind of data classified by size shown under the heading "Item". Data in this table refer only to the number and area of holdings. Many other data may be found in national reports. It can be seen that in some countries the area of holdings shown under the heading "Item" is not always the same as the one indicated under the heading "Measure of size" because such data were not available. For example, in Denmark, the total area of holdings is shown as classified by agricultural area.

4.2.2 This classification is intended to throw some light on the inequality of the distribution of land in different countries. Keeping in mind other important factors, such as the land fertility, intensity of land use (number of seasons), etc., such data can be used for planning and monitoring land reforms and similar activities. Based on data from Table 4.1, it can be seen, for example, that holdings less than 1 hectare represent 49 percent of the total number of holdings included in this report and 2 percent of the total area.

4.3 Comparison of data for 1990, 1980 and 1970 censuses

4.3.1 The available data from the last three decennial censuses on the number and area of holdings, classified by size of holding are shown in Table 4.2. These data are summarized in Table 6 shown below.

Table 6 - Percentage distribution of number and area of holdings by size

| Size classes | 1990 (44 countries) | | 1980 (39 countries) | | 1970 (35 countries) | |
|------------------|--------------------------|-------|--------------------------|-------|--------------------------|-------|
| | Number of holdings | Area | Number of holdings | Area | Number of holdings | Area |
| All holdings | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Under 1 Ha | 50.1 | 2.4 | 44.6 | 1.9 | 42.0 | 1.6 |
| 1 - 2 Ha | 17.5 | 3.0 | 17.8 | 2.6 | 18.0 | 2.3 |
| 2 - 5 Ha | 18.6 | 6.8 | 19.8 | 6.5 | 20.1 | 6.0 |
| 5 - 10 Ha | 6.7 | 5.7 | 8.5 | 6.4 | 8.9 | 6.2 |
| 10 - 20 Ha | 3.4 | 6.5 | 4.3 | 6.4 | 5.1 | 6.9 |
| 20 - 50 Ha | 1.9 | 7.6 | 2.7 | 8.8 | 3.2 | 9.5 |
| 50 - 100 Ha | 0.9 | 10.4 | 1.1 | 8.6 | 1.3 | 8.9 |
| 100 - 200 Ha | 0.5 | 8.5 | 0.6 | 8.9 | 0.8 | 10.6 |
| 200 - 500 Ha | 0.3 | 11.0 | 0.4 | 11.9 | 0.4 | 11.9 |
| 500 - 1000 Ha | 0.1 | 22.2 | 0.2 | 21.5 | 0.1 | 7.8 |
| 1000 Ha and over | 0.0 | 15.9 | 0.0 | 16.4 | 0.1 | 28.2 |

An examination of data shown in this table indicates a trend that the percent of small holdings and their area is increasing over time, while the percent of large holdings is decreasing. Thus, the percent of holdings below 1 hectare changed from 42 percent in 1970 to 50 percent in 1990. This indicates that the average size of holdings in the world seems to be decreasing.

4.3.2 The situation, of course, is different in different countries. A detailed examination of data shown in Table 4.2, as well as of data shown in Table 1.1 (Number and area of holdings: countries participating in 1930 - 1990), indicates that one can distinguish the following scenarios: (i) in many Western European countries and in the United States, the present trend is that the total area of holdings tends to remain constant or, as in the case of the United States, to become somewhat smaller, while the number of holdings is reducing considerably, so that the average size of holdings is increasing; (ii) in many Asian countries, such as India and Philippines, and in some Latin American countries, the total area of holdings tends to remain constant, but the number of holdings is increasing, probably in connection with the increase of the number of rural families, resulting in a decrease of the average size of holdings; and (iii) in many African countries, particularly those with a low density of population, it could be expected an increase of the total area of holdings proportionately to the increase of the population, and this trend is evident in the case of Kenya, Lesotho and Malawi, but not in many other countries, perhaps because the time series for African countries are short and changes in the methodology applied and coverage are frequent.

International Comparison

Tables

Table 1.1**Number and area (in hectares) of holdings: countries participating in 1930 - 1990 rounds of agricultural censuses**

| COUNTRY NAME | ITEM | 1930 | 1950 | 1960 | 1970 | 1980 | 1990 |
|---------------------|--------------------|------------|------------|-------------|------------|-----------|-----------|
| AFRICA [44] | | | | | | | |
| Algeria | Number of holdings | 0 | 0 | 0 | 899 545 | 0 | 0 |
| | Total area | 0 | 0 | 0 | 5 544 145 | 0 | 0 |
| Angola | Number of holdings | 0 | 0 | 0 | 1 067 230 | 0 | 0 |
| | Total area | 0 | 0 | 0 | 4 179 600 | 0 | 0 |
| Benin | Number of holdings | 0 | 0 | 0 | 0 | 0 | 408 020 |
| | Total area | 0 | 0 | 0 | 0 | 0 | 0 |
| Botswana | Number of holdings | 0 | 0 | 0 | 48 014 | 84 660 | 101 434 |
| | Total area | 0 | 0 | 0 | 228 209 | 204 500 | 322 200 |
| Burkina Faso | Number of holdings | 0 | 0 | 0 | 0 | 0 | 886 638 |
| | Total area | 0 | 0 | 0 | 0 | 0 | 3 472 480 |
| Cameroon | Number of holdings | 0 | 0 | 0 | 925 895 | 0 | 0 |
| | Total area | 0 | 0 | 0 | 1 489 758 | 0 | 0 |
| Cape Verde | Number of holdings | 0 | 0 | 0 | 0 | 25 072 | 32 193 |
| | Total area | 0 | 0 | 0 | 0 | 36 732 | 41 383 |
| Centr.Afr.Rep. | Number of holdings | 0 | 0 | 231 500 | 283 450 | 303 901 | 0 |
| | Total area | 0 | 0 | 450 800 | 491 465 | 272 419 | 0 |
| Chad | Number of holdings | 0 | 0 | 0 | 366 475 | 0 | 0 |
| | Total area | 0 | 0 | 0 | 962 166 | 0 | 0 |
| Congo, Dem. Rep. of | Number of holdings | 0 | 0 | 0 | 2 537 502 | 0 | 4 479 600 |
| | Total area | 0 | 0 | 0 | 5 896 181 | 0 | 2 387 700 |
| Congo, Rep. of | Number of holdings | 0 | 0 | 0 | 143 485 | 143 235 | 0 |
| | Total area | 0 | 0 | 0 | 196 774 | 141 705 | 0 |
| Cote d'Ivoire | Number of holdings | 0 | 0 | 0 | 649 708 | 0 | 0 |
| | Total area | 0 | 0 | 0 | 2 753 491 | 0 | 0 |
| Djibouti | Number of holdings | 0 | 0 | 0 | 0 | 0 | 1 135 |
| | Total area | 0 | 0 | 0 | 0 | 0 | 0 |
| Ethiopia | Number of holdings | 0 | 0 | 0 | 0 | 4 797 300 | 6 091 840 |
| | Total area | 0 | 0 | 0 | 0 | 6 862 200 | 4 871 020 |
| Gabon | Number of holdings | 0 | 0 | 0 | 71 074 | 0 | 0 |
| | Total area | 0 | 0 | 0 | 72 738 | 0 | 0 |
| Ghana | Number of holdings | 0 | 0 | 0 | 806 200 | 1 849 800 | 0 |
| | Total area | 0 | 0 | 0 | 2 574 200 | 0 | 0 |
| Guinea | Number of holdings | 0 | 0 | 0 | 0 | 0 | 431 277 |
| | Total area | 0 | 0 | 0 | 0 | 0 | 727 544 |
| Guinea Bissau | Number of holdings | 0 | 0 | 86 951 | 0 | 0 | 84 221 |
| | Total area | 0 | 0 | 262 570 | 0 | 0 | 96 375 |
| Kenya | Number of holdings | 0 | 0 | 521 009 | 1 486 639 | 2 750 013 | 0 |
| | Total area | 0 | 0 | 6 118 725 | 6 131 776 | 6 922 060 | 0 |
| Lesotho | Number of holdings | 0 | 0 | 161 000 | 187 421 | 0 | 229 300 |
| | Total area | 0 | 0 | 352 754 | 372 342 | 0 | 331 000 |
| Liberia | Number of holdings | 0 | 0 | 0 | 121 745 | 0 | 0 |
| | Total area | 0 | 0 | 0 | 365 673 | 0 | 0 |
| Libya | Number of holdings | 0 | 0 | 145 518 | 160 999 | 0 | 175 528 |
| | Total area | 0 | 0 | 3 868 728 | 2 088 383 | 0 | 2 495 906 |
| Madagascar | Number of holdings | 0 | 0 | 882 000 | 0 | 1 543 537 | 0 |
| | Total area | 0 | 0 | 917 000 | 0 | 2 043 783 | 0 |
| Malawi | Number of holdings | 0 | 0 | 0 | 885 000 | 1 135 600 | 0 |
| | Total area | 0 | 0 | 0 | 1 361 400 | 1 332 000 | 0 |
| Mali | Number of holdings | 0 | 0 | 280 260 | 0 | 519 460 | 0 |
| | Total area | 0 | 0 | 1 220 529 | 0 | 1 699 593 | 0 |
| Mauritania | Number of holdings | 0 | 0 | 0 | 0 | 99 644 | 0 |
| | Total area | 0 | 0 | 0 | 0 | 201 270 | 0 |
| Morocco | Number of holdings | 0 | 0 | 1 106 765 | 0 | 0 | 0 |
| | Total area | 0 | 0 | 10 876 000 | 0 | 0 | 0 |
| Namibia | Number of holdings | 0 | 0 | 5 358 | 0 | 0 | 0 |
| | Total area | 0 | 0 | 61 082 869 | 0 | 0 | 0 |
| Niger | Number of holdings | 0 | 0 | 0 | 0 | 699 332 | 0 |
| | Total area | 0 | 0 | 0 | 0 | 3 406 550 | 0 |
| Nigeria | Number of holdings | 0 | 285 000 | 308 000 | 0 | 0 | 0 |
| | Total area | 0 | 0 | 0 | 0 | 0 | 0 |
| Reunion | Number of holdings | 0 | 0 | 0 | 39 111 | 20 788 | 15 198 |
| | Total area | 0 | 0 | 0 | 77 231 | 74 034 | 67 154 |
| Rwanda | Number of holdings | 0 | 0 | 0 | 0 | 1 111 897 | 0 |
| | Total area | 0 | 0 | 0 | 0 | 1 349 923 | 0 |
| Sao Tome/Principe | Number of holdings | 0 | 0 | 0 | 0 | 0 | 13 822 |
| | Total area | 0 | 0 | 0 | 0 | 0 | 76 214 |
| Senegal | Number of holdings | 0 | 0 | 295 400 | 0 | 0 | 0 |
| | Total area | 0 | 0 | 1 072 343 | 0 | 0 | 0 |
| Seychelles | Number of holdings | 0 | 0 | 1 143 | 0 | 0 | 0 |
| | Total area | 0 | 0 | 25 624 | 0 | 0 | 0 |
| Sierra Leone | Number of holdings | 0 | 0 | 0 | 286 137 | 223 265 | 0 |
| | Total area | 0 | 0 | 0 | 520 572 | 364 029 | 0 |
| South Africa | Number of holdings | 95 000 | 116 848 | 110 362 | 90 422 | 0 | 0 |
| | Total area | 82 803 000 | 86 920 000 | 105 944 935 | 89 297 821 | 0 | 0 |

Table 1.1**Number and area (in hectares) of holdings: countries participating in 1930 - 1990 rounds of agricultural censuses (cont'd)**

| COUNTRY NAME | ITEM | 1930 | 1950 | 1960 | 1970 | 1980 | 1990 |
|---------------------------------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Swaziland | Number of holdings | 0 | 0 | 0 | 39 377 | 53 368 | 73 745 |
| | Total area | 0 | 0 | 0 | 766 775 | 629 205 | 0 |
| Tanzania | Number of holdings | 0 | 0 | 0 | 2 424 425 | 0 | 3 872 323 |
| | Total area | 0 | 0 | 0 | 3 069 950 | 0 | 10 764 000 |
| Togo | Number of holdings | 0 | 0 | 217 000 | 232 657 | 262 504 | 0 |
| | Total area | 0 | 0 | 569 821 | 328 909 | 405 756 | 0 |
| Tunisia | Number of holdings | 0 | 0 | 325 800 | 0 | 0 | 0 |
| | Total area | 0 | 0 | 5 022 000 | 0 | 0 | 0 |
| Uganda | Number of holdings | 0 | 0 | 1 171 000 | 0 | 0 | 1 704 721 |
| | Total area | 0 | 2 839 400 | 3 856 136 | 0 | 0 | 3 683 288 |
| Zambia | Number of holdings | 0 | 0 | 0 | 767 990 | 0 | 520 520 |
| | Total area | 0 | 0 | 0 | 2 416 187 | 0 | 0 |
| Zimbabwe | Number of holdings | 0 | 0 | 437 589 | 0 | 0 | 0 |
| | Total area | 0 | 0 | 27 981 567 | 0 | 0 | 0 |
| NORTH AND CENTRAL AMERICA [26] | | | | | | | |
| Antigua | Number of holdings | 0 | 0 | 5 747 | 0 | 4 654 | 0 |
| | Total area | 0 | 0 | 13 794 | 0 | 1 949 | 0 |
| Bahamas | Number of holdings | 0 | 0 | 0 | 0 | 4 246 | 1 760 |
| | Total area | 0 | 0 | 0 | 0 | 36 246 | 20 336 |
| Barbados | Number of holdings | 5 000 | 5 000 | 27 912 | 26 052 | 0 | 17 178 |
| | Total area | 0 | 36 000 | 34 178 | 29 945 | 0 | 21 560 |
| Belize | Number of holdings | 0 | 0 | 0 | 10 004 | 11 011 | 0 |
| | Total area | 0 | 0 | 0 | 232 519 | 253 340 | 0 |
| Canada | Number of holdings | 729 000 | 623 000 | 481 000 | 366 128 | 318 361 | 280 043 |
| | Total area | 66 009 000 | 70 433 000 | 69 827 959 | 68 663 191 | 65 888 916 | 67 753 700 |
| Costa Rica | Number of holdings | 0 | 43 000 | 65 000 | 81 562 | 0 | 0 |
| | Total area | 0 | 1 812 000 | 2 668 078 | 3 122 456 | 0 | 0 |
| Dominica | Number of holdings | 0 | 0 | 0 | 0 | 0 | 9 026 |
| | Total area | 0 | 0 | 0 | 0 | 0 | 21 146 |
| Dominican Rep. | Number of holdings | 0 | 275 000 | 447 000 | 304 820 | 0 | 0 |
| | Total area | 0 | 2 328 000 | 2 257 948 | 2 736 274 | 0 | 0 |
| El Salvador | Number of holdings | 0 | 174 000 | 224 000 | 318 041 | 0 | 0 |
| | Total area | 0 | 1 530 000 | 1 559 439 | 1 451 894 | 0 | 0 |
| Grenada | Number of holdings | 0 | 0 | 0 | 0 | 8 202 | 18 277 |
| | Total area | 0 | 0 | 0 | 0 | 13 858 | 14 164 |
| Guadeloupe | Number of holdings | 0 | 0 | 0 | 22 577 | 18 957 | 16 530 |
| | Total area | 0 | 0 | 0 | 68 714 | 70 503 | 53 559 |
| Guatemala | Number of holdings | 0 | 349 000 | 417 344 | 0 | 531 623 | 0 |
| | Total area | 0 | 3 714 000 | 3 476 326 | 0 | 4 145 624 | 0 |
| Haiti | Number of holdings | 0 | 0 | 0 | 616 710 | 0 | 0 |
| | Total area | 0 | 0 | 0 | 863 520 | 0 | 0 |
| Honduras | Number of holdings | 0 | 156 000 | 0 | 195 341 | 0 | 325 750 |
| | Total area | 0 | 2 507 404 | 0 | 2 629 859 | 0 | 3 637 469 |
| Jamaica | Number of holdings | 0 | 68 000 | 159 000 | 193 359 | 183 988 | 0 |
| | Total area | 728 000 | 0 | 692 581 | 602 659 | 537 042 | 0 |
| Martinique | Number of holdings | 0 | 0 | 0 | 0 | 19 573 | 16 038 |
| | Total area | 0 | 0 | 0 | 0 | 60 447 | 50 192 |
| Mexico | Number of holdings | 858 000 | 1 383 000 | 1 365 000 | 1 020 016 | 0 | 4 437 863 |
| | Total area | 131 595 000 | 145 517 000 | 169 084 208 | 139 868 191 | 0 | 183 838 578 |
| Nicaragua | Number of holdings | 0 | 52 000 | 102 201 | 0 | 0 | 0 |
| | Total area | 0 | 2 368 000 | 3 815 932 | 0 | 0 | 0 |
| Panama | Number of holdings | 0 | 85 000 | 95 000 | 115 364 | 153 194 | 213 895 |
| | Total area | 0 | 1 159 000 | 1 806 452 | 2 098 062 | 2 258 558 | 2 941 583 |
| Puerto Rico | Number of holdings | 51 000 | 53 000 | 46 000 | 32 687 | 31 837 | 20 245 |
| | Total area | 776 000 | 725 000 | 661 244 | 524 575 | 426 186 | 348 530 |
| St. Kitts Nevis | Number of holdings | 0 | 0 | 0 | 0 | 0 | 3 430 |
| | Total area | 0 | 0 | 0 | 0 | 0 | 8 870 |
| St. Lucia | Number of holdings | 0 | 0 | 13 008 | 10 938 | 0 | 11 551 |
| | Total area | 0 | 0 | 35 359 | 29 138 | 0 | 23 478 |
| St. Vincent/Grenad. | Number of holdings | 0 | 0 | 0 | 0 | 0 | 8 860 |
| | Total area | 0 | 0 | 0 | 0 | 0 | 12 017 |
| Trinidad Tobago | Number of holdings | 0 | 31 000 | 35 796 | 0 | 30 563 | 0 |
| | Total area | 0 | 168 000 | 214 990 | 0 | 132 346 | 0 |
| U.S.A. | Number of holdings | 6 295 000 | 5 388 000 | 3 710 000 | 2 730 250 | 2 478 642 | 2 087 759 |
| | Total area | 400 679 000 | 470 498 000 | 454 661 045 | 430 321 437 | 416 707 081 | 390 311 617 |
| Virgin Islands (US) | Number of holdings | 0 | 755 | 501 | 212 | 378 | 267 |
| | Total area | 28 000 | 26 000 | 17 831 | 8 284 | 9 873 | 7 197 |
| SOUTH AMERICA [11] | | | | | | | |
| Argentina | Number of holdings | 435 000 | 547 000 | 471 756 | 0 | 0 | 378 357 |
| | Total area | 0 | 200 209 000 | 175 142 497 | 0 | 0 | 177 437 398 |
| Brazil | Number of holdings | 648 000 | 2 064 000 | 3 338 000 | 4 905 642 | 5 159 851 | 0 |
| | Total area | 175 105 000 | 232 211 000 | 249 862 142 | 294 145 466 | 364 854 421 | 0 |
| Chile | Number of holdings | 0 | 0 | 258 657 | 0 | 311 324 | 0 |
| | Total area | 0 | 27 712 000 | 30 644 131 | 0 | 28 771 855 | 0 |

Table 1.1
Number and area (in hectares) of holdings: countries participating in 1930 - 1990 rounds of agricultural censuses (cont'd)

| COUNTRY NAME | ITEM | 1930 | 1950 | 1960 | 1970 | 1980 | 1990 |
|---------------------|--------------------|------------|-------------|-------------|-------------|-------------|-------------|
| Colombia | Number of holdings | 0 | 919 000 | 1 210 000 | 1 176 811 | 0 | 1 547 846 |
| | Total area | 0 | 27 748 000 | 27 337 827 | 30 993 190 | 0 | 36 033 713 |
| Ecuador | Number of holdings | 0 | 344 000 | 0 | 519 111 | 0 | 0 |
| | Total area | 0 | 6 000 000 | 0 | 7 949 403 | 0 | 0 |
| French Guiana | Number of holdings | 0 | 0 | 0 | 0 | 2 209 | 4 491 |
| | Total area | 0 | 0 | 0 | 0 | 7 349 | 41 553 |
| Paraguay | Number of holdings | 0 | 0 | 160 777 | 0 | 248 930 | 307 221 |
| | Total area | 0 | 0 | 17 473 474 | 0 | 21 940 531 | 23 817 737 |
| Peru | Number of holdings | 0 | 0 | 870 000 | 1 390 877 | 0 | 1 756 141 |
| | Total area | 0 | 0 | 17 772 044 | 23 545 147 | 0 | 35 381 809 |
| Suriname | Number of holdings | 0 | 0 | 16 000 | 16 078 | 22 103 | 0 |
| | Total area | 0 | 0 | 105 832 | 93 833 | 164 790 | 0 |
| Uruguay | Number of holdings | 75 000 | 85 000 | 87 000 | 77 163 | 68 362 | 54 819 |
| | Total area | 16 745 000 | 16 974 000 | 16 988 408 | 16 517 730 | 16 024 656 | 15 681 804 |
| Venezuela | Number of holdings | 218 000 | 235 000 | 320 094 | 287 919 | 381 276 | 0 |
| | Total area | 23 372 000 | 22 127 000 | 26 004 862 | 26 470 134 | 31 278 155 | 0 |
| ASIA [27] | | | | | | | |
| Bahrain | Number of holdings | 0 | 0 | 0 | 855 | 806 | 0 |
| | Total area | 0 | 0 | 0 | 3 702 | 3 538 | 0 |
| Bangladesh | Number of holdings | 0 | 0 | 6 464 400 | 0 | 6 852 558 | 0 |
| | Total area | 0 | 0 | 8 792 008 | 0 | 8 886 780 | 0 |
| Brunei | Number of holdings | 0 | 0 | 6 306 | 0 | 0 | 0 |
| | Total area | 0 | 0 | 32 487 | 0 | 0 | 0 |
| Cyprus | Number of holdings | 0 | 0 | 0 | 0 | 44 522 | 48 046 |
| | Total area | 0 | 0 | 0 | 0 | 201 094 | 178 058 |
| India | Number of holdings | 0 | 61 780 000 | 48 882 000 | 70 493 000 | 81 569 000 | 97 155 000 |
| | Total area | 0 | 135 856 000 | 131 873 000 | 162 124 000 | 163 343 000 | 164 562 000 |
| Indonesia | Number of holdings | 0 | 0 | 12 237 000 | 14 375 343 | 17 628 700 | 0 |
| | Total area | 0 | 0 | 14 634 695 | 16 396 826 | 19 019 900 | 0 |
| Iran | Number of holdings | 0 | 0 | 1 877 299 | 0 | 0 | 3 326 000 |
| | Total area | 0 | 0 | 11 356 254 | 0 | 0 | 17 150 000 |
| Iraq | Number of holdings | 0 | 125 000 | 253 000 | 591 178 | 0 | 0 |
| | Total area | 0 | 6 384 400 | 8 038 703 | 5 732 481 | 0 | 0 |
| Israel | Number of holdings | 0 | 17 000 | 0 | 40 210 | 51 654 | 0 |
| | Total area | 0 | 261 000 | 0 | 539 800 | 584 028 | 0 |
| Japan | Number of holdings | 0 | 6 176 000 | 6 056 000 | 5 354 074 | 4 661 384 | 3 846 352 |
| | Total area | 0 | 6 195 000 | 7 141 941 | 5 388 554 | 4 772 093 | 5 243 000 |
| Jordan | Number of holdings | 0 | 0 | 0 | 55 548 | 62 162 | 0 |
| | Total area | 0 | 0 | 0 | 390 403 | 364 263 | 0 |
| Korea Rep. | Number of holdings | 0 | 0 | 2 332 000 | 2 421 420 | 2 157 555 | 1 768 501 |
| | Total area | 0 | 0 | 4 815 471 | 2 132 233 | 2 025 795 | 1 857 491 |
| Kuwait | Number of holdings | 0 | 0 | 0 | 449 | 0 | 0 |
| | Total area | 0 | 0 | 0 | 2 726 | 0 | 0 |
| Lebanon | Number of holdings | 0 | 0 | 127 123 | 13 949 | 0 | 0 |
| | Total area | 0 | 0 | 304 014 | 619 627 | 0 | 0 |
| Myanmar | Number of holdings | 0 | 0 | 0 | 0 | 0 | 2 924 898 |
| | Total area | 0 | 0 | 0 | 0 | 0 | 6 886 956 |
| Nepal | Number of holdings | 0 | 0 | 0 | 1 721 546 | 2 193 956 | 2 736 050 |
| | Total area | 0 | 0 | 0 | 1 654 022 | 2 463 717 | 2 598 971 |
| Oman | Number of holdings | 0 | 0 | 0 | 0 | 83 204 | 0 |
| | Total area | 0 | 0 | 0 | 0 | 83 360 | 0 |
| Pakistan | Number of holdings | 0 | 0 | 5 691 000 | 3 761 940 | 4 069 611 | 5 071 112 |
| | Total area | 0 | 0 | 19 800 824 | 19 913 400 | 19 108 965 | 19 252 672 |
| Philippines | Number of holdings | 1 635 000 | 1 639 000 | 2 166 000 | 2 354 469 | 3 420 323 | 4 610 041 |
| | Total area | 6 691 000 | 5 727 000 | 7 772 485 | 8 493 735 | 9 749 200 | 9 974 871 |
| Saudi Arabia | Number of holdings | 0 | 0 | 0 | 180 670 | 212 157 | 0 |
| | Total area | 0 | 0 | 0 | 1 213 462 | 2 135 033 | 0 |
| Singapore | Number of holdings | 0 | 0 | 0 | 15 741 | 0 | 0 |
| | Total area | 0 | 0 | 0 | 11 833 | 0 | 0 |
| Sri Lanka | Number of holdings | 0 | 0 | 1 170 000 | 1 645 260 | 1 816 988 | 0 |
| | Total area | 0 | 0 | 1 888 461 | 2 036 142 | 1 967 311 | 0 |
| Syria | Number of holdings | 0 | 0 | 0 | 524 133 | 485 691 | 0 |
| | Total area | 0 | 0 | 0 | 4 721 383 | 3 153 436 | 0 |
| Thailand | Number of holdings | 0 | 2 112 000 | 3 214 405 | 0 | 4 018 427 | 4 877 424 |
| | Total area | 0 | 0 | 11 149 190 | 0 | 14 954 592 | 17 463 921 |
| Turkey | Number of holdings | 0 | 2 528 000 | 3 409 846 | 0 | 3 650 910 | 4 068 432 |
| | Total area | 0 | 19 452 000 | 17 142 777 | 0 | 22 764 029 | 23 451 099 |
| Yemen A.R. (former) | Number of holdings | 0 | 0 | 0 | 0 | 591 071 | 0 |
| | Total area | 0 | 0 | 0 | 0 | 1 350 775 | 0 |
| Yemen D.R. (former) | Number of holdings | 0 | 0 | 0 | 0 | 165 200 | 0 |
| | Total area | 0 | 0 | 0 | 0 | 134 014 | 0 |
| EUROPE [24] | | | | | | | |
| Albania | Number of holdings | 0 | 0 | 0 | 0 | 0 | 444 300 |
| | Total area | 0 | 0 | 0 | 0 | 0 | 0 |

Table 1.1**Number and area (in hectares) of holdings: countries participating in 1930 - 1990 rounds of agricultural censuses (cont'd)**

| COUNTRY NAME | ITEM | 1930 | 1950 | 1960 | 1970 | 1980 | 1990 |
|-------------------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Austria | Number of holdings | 396 000 | 421 000 | 396 000 | 362 216 | 302 579 | 273 210 |
| | Total area | 7 616 000 | 7 717 000 | 7 683 888 | 7 490 463 | 7 325 863 | 7 217 498 |
| Belgium | Number of holdings | 292 000 | 264 000 | 268 000 | 184 005 | 119 277 | 87 180 |
| | Total area | 1 866 000 | 1 801 000 | 1 767 447 | 1 602 864 | 1 475 140 | 1 400 364 |
| Czechoslovakia (former) | Number of holdings | 0 | 1 210 000 | 0 | 1 472 462 | 1 391 102 | 1 245 889 |
| | Total area | 0 | 11 643 000 | 0 | 11 874 100 | 12 788 247 | 12 790 007 |
| Denmark | Number of holdings | 204 000 | 207 000 | 195 000 | 140 197 | 122 722 | 81 267 |
| | Total area | 3 176 000 | 3 157 000 | 3 108 267 | 2 941 316 | 3 241 009 | 3 069 430 |
| Finland | Number of holdings | 240 000 | 335 000 | 387 000 | 297 257 | 224 721 | 199 385 |
| | Total area | 15 534 357 | 15 306 000 | 15 959 621 | 15 150 223 | 12 800 326 | 12 338 439 |
| France | Number of holdings | 3 966 000 | 0 | 1 899 000 | 1 587 643 | 1 262 672 | 1 016 755 |
| | Total area | 45 090 000 | 0 | 35 794 300 | 35 039 217 | 33 648 959 | 31 985 606 |
| Germany | Number of holdings | 0 | 2 051 000 | 1 709 000 | 1 074 637 | 850 006 | 0 |
| | Total area | 0 | 22 173 000 | 18 023 822 | 15 326 139 | 14 487 137 | 0 |
| Greece | Number of holdings | 953 000 | 1 000 000 | 1 156 172 | 1 047 260 | 998 876 | 0 |
| | Total area | 3 880 000 | 3 606 000 | 3 673 275 | 3 586 294 | 0 | 0 |
| Hungary | Number of holdings | 0 | 1 213 000 | 0 | 802 892 | 798 545 | 0 |
| | Total area | 0 | 8 000 000 | 0 | 7 476 103 | 9 303 670 | 0 |
| Ireland | Number of holdings | 349 000 | 379 487 | 360 113 | 279 450 | 263 558 | 170 578 |
| | Total area | 6 199 000 | 5 873 000 | 5 785 332 | 5 650 000 | 6 889 230 | 4 441 755 |
| Italy | Number of holdings | 4 196 000 | 0 | 4 294 000 | 3 607 262 | 3 270 560 | 3 023 344 |
| | Total area | 64 870 000 | 0 | 26 571 898 | 25 064 218 | 23 559 924 | 22 702 356 |
| Luxembourg | Number of holdings | 0 | 14 000 | 0 | 7 608 | 5 173 | 3 803 |
| | Total area | 0 | 140 000 | 0 | 135 143 | 130 061 | 137 653 |
| Malta | Number of holdings | 0 | 14 000 | 12 000 | 10 803 | 12 070 | 0 |
| | Total area | 0 | 0 | 18 449 | 15 899 | 13 969 | 0 |
| Netherlands | Number of holdings | 285 000 | 286 000 | 300 702 | 184 613 | 148 674 | 127 367 |
| | Total area | 2 130 000 | 2 318 000 | 2 658 297 | 2 142 597 | 2 232 126 | 2 163 472 |
| Norway | Number of holdings | 209 000 | 213 000 | 197 000 | 154 977 | 125 302 | 99 382 |
| | Total area | 0 | 6 903 000 | 7 369 106 | 7 772 091 | 953 528 | 991 077 |
| Poland | Number of holdings | 0 | 0 | 3 601 000 | 3 398 959 | 0 | 3 783 000 |
| | Total area | 0 | 0 | 22 931 905 | 16 418 552 | 31 268 300 | 31 268 300 |
| Portugal | Number of holdings | 0 | 853 568 | 0 | 811 656 | 783 944 | 598 742 |
| | Total area | 0 | 0 | 0 | 4 974 157 | 5 182 902 | 5 316 161 |
| Slovenia | Number of holdings | 0 | 0 | 194 855 | 180 228 | 192 090 | 156 549 |
| | Total area | 0 | 0 | 0 | 0 | 0 | 912 013 |
| Spain | Number of holdings | 0 | 0 | 3 007 626 | 2 571 059 | 2 375 327 | 2 284 944 |
| | Total area | 0 | 0 | 44 650 089 | 45 702 620 | 44 311 769 | 42 939 208 |
| Sweden | Number of holdings | 429 000 | 378 000 | 263 000 | 161 946 | 115 136 | 0 |
| | Total area | 20 457 000 | 16 300 000 | 0 | 10 589 946 | 8 750 648 | 0 |
| Switzerland | Number of holdings | 0 | 229 392 | 0 | 152 859 | 125 274 | 108 296 |
| | Total area | 0 | 0 | 0 | 1 292 110 | 1 271 545 | 1 283 240 |
| United Kingdom | Number of holdings | 0 | 543 000 | 467 000 | 326 698 | 268 560 | 244 205 |
| | Total area | 0 | 19 502 000 | 19 022 873 | 17 992 312 | 17 568 330 | 17 301 000 |
| Yugoslavia (former) | Number of holdings | 1 986 000 | 2 385 000 | 2 624 000 | 2 600 140 | 2 679 581 | 0 |
| | Total area | 10 646 000 | 13 453 657 | 12 453 440 | 12 462 422 | 11 222 124 | 0 |
| OCEANIA [13] | | | | | | | |
| American Samoa | Number of holdings | 1 000 | 2 000 | 2 000 | 1 923 | 1 331 | 384 |
| | Total area | 0 | 6 000 | 4 662 | 4 212 | 2 428 | 2 349 |
| Australia | Number of holdings | 254 000 | 245 000 | 252 000 | 249 485 | 175 756 | 129 540 |
| | Total area | 362 911 000 | 375 788 000 | 464 575 646 | 497 223 700 | 495 447 000 | 466 561 000 |
| Cook Isl. | Number of holdings | 0 | 0 | 0 | 0 | 0 | 2 188 |
| | Total area | 0 | 0 | 0 | 0 | 0 | 2 604 |
| Fiji | Number of holdings | 0 | 0 | 0 | 33 521 | 66 376 | 95 400 |
| | Total area | 0 | 0 | 0 | 245 332 | 277 134 | 591 407 |
| Guam | Number of holdings | 2 000 | 2 000 | 2 000 | 1 121 | 1 999 | 351 |
| | Total area | 0 | 10 000 | 12 994 | 10 586 | 11 582 | 5 315 |
| New Caledonia | Number of holdings | 0 | 0 | 0 | 0 | 0 | 10 302 |
| | Total area | 0 | 0 | 0 | 0 | 0 | 313 769 |
| New Zealand | Number of holdings | 85 000 | 90 000 | 77 000 | 62 789 | 71 505 | 80 904 |
| | Total area | 17 550 000 | 17 465 000 | 17 813 567 | 19 030 369 | 21 237 299 | 17 489 398 |
| Niue | Number of holdings | 0 | 0 | 0 | 0 | 0 | 450 |
| | Total area | 0 | 0 | 0 | 0 | 0 | 2 760 |
| North.Mariana Isl. | Number of holdings | 0 | 0 | 0 | 0 | 299 | 119 |
| | Total area | 0 | 0 | 0 | 0 | 4 932 | 5 836 |
| Palau | Number of holdings | 0 | 0 | 0 | 0 | 0 | 300 |
| | Total area | 0 | 0 | 0 | 0 | 0 | 158 |
| Tonga | Number of holdings | 0 | 0 | 0 | 0 | 10 121 | 0 |
| | Total area | 0 | 0 | 0 | 0 | 33 391 | 0 |
| Vanuatu | Number of holdings | 0 | 0 | 0 | 0 | 0 | 22 000 |
| | Total area | 0 | 0 | 0 | 0 | 0 | 0 |
| Western Samoa | Number of holdings | 0 | 0 | 0 | 0 | 0 | 11 099 |
| | Total area | 0 | 0 | 0 | 0 | 0 | 67 375 |

Table 12
Total country area and population in 1990 (source: FAO Production Yearbook 1994) and number and area of holdings included in this report

| Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Total area of country ('000 Ha) | Population 1990 | | Census Year | Holdings | | Area of holdings as percent of total country area | Agricultural Population per holding |
|--|---------------------------------|-----------------|---------------------|-------------|-------------|---------------|---|-------------------------------------|
| | | Total ('000) | Agricultural ('000) | | Number | Area (Ha) | | |
| TOTAL [80] | 5 623 452 | 2 429 551 | 964 131 | | 175 371 954 | 1 918 712 863 | 34.7 | 5.5 |
| AFRICA [17] | 858 862 | 169 917 | 121 753 | | 19 121 515 | 29 336 264 | 3.8 | 6.4 |
| Benin | 11 262 | 4 633 | 2 844 | 92 | 408 020 | - | - | 7.0 |
| Botswana | 58 173 | 1 276 | 803 | 93 | 101 434 | 322 200 | 0.6 | 7.9 |
| Burkina Faso | 27 400 | 8 987 | 7 585 | 93 | 886 638 | 3 472 480 | 12.7 | 8.6 |
| Cape Verde | 403 | 341 | 148 | 88 | 32 193 | 41 383 | 10.3 | 4.6 |
| Congo, Dem. Rep. of | 234 486 | 37 436 | 24 615 | 90 | 4 479 600 | 2 387 700 | 1.0 | 5.5 |
| Djibouti | 2 320 | 517 | - | 95 | 1 135 | - | - | - |
| Ethiopia | 122 190 | 50 505 | 37 675 | 89/92 | 6 091 840 | 4 871 020 | 4.0 | 6.2 |
| Guinea | 24 586 | 5 755 | 4 270 | 89 | 431 277 | 727 544 | 3.0 | 9.9 |
| Guinea Bissau | 3 612 | 964 | 759 | 88 | 84 221 | 96 375 | 2.7 | 9.0 |
| Lesotho | 3 035 | 1 792 | 1 427 | 89/90 | 229 300 | 331 000 | 10.9 | 6.2 |
| Libya | 175 954 | 4 545 | 624 | 87 | 175 528 | 2 495 906 | 1.4 | 3.6 |
| Reunion | 251 | 604 | 68 | 89 | 15 198 | 67 154 | 26.8 | 4.5 |
| Sao Tome & Principe | 96 | 119 | - | 90 | 13 822 | 76 214 | 79.4 | - |
| Swaziland | 1 736 | 744 | 493 | 93 | 73 745 | - | - | 6.7 |
| Tanzania | 94 509 | 25 600 | 20 310 | 94/95 | 3 872 323 | 10 764 000 | 11.4 | 5.2 |
| Uganda | 23 588 | 17 949 | 14 513 | 91 | 1 704 721 | 3 683 288 | 15.6 | 8.5 |
| Zambia | 75 261 | 8 150 | 5 619 | 90 | 520 520 | - | - | 10.8 |
| NORTH AND CENTRAL AMERICA [16] | 2 196 020 | 374 851 | 36 396 | | 7 468 472 | 649 063 996 | 29.6 | 4.9 |
| Bahamas | 1 388 | 256 | 16 | 94 | 1 760 | 20 336 | 1.5 | 9.1 |
| Barbados | 43 | 257 | 17 | 89 | 17 178 | 21 560 | 50.1 | 1.0 |
| Canada | 997 614 | 27 791 | 913 | 91 | 280 043 | 67 753 700 | 6.8 | 3.3 |
| Dominica | 75 | 71 | - | 95 | 9 026 | 21 146 | 28.2 | - |
| Grenada | 34 | 91 | - | 95 | 18 277 | 14 164 | 41.7 | - |
| Guadeloupe | 171 | 391 | 37 | 89 | 16 530 | 53 559 | 31.3 | 2.2 |
| Honduras | 11 209 | 4 879 | 2 778 | 93 | 325 750 | 3 637 469 | 32.5 | 8.5 |
| Martinique | 110 | 360 | 28 | 89 | 16 038 | 50 192 | 45.6 | 1.7 |
| Mexico | 195 820 | 84 511 | 25 319 | 91 | 4 437 863 | 183 838 578 | 93.9 | 5.7 |
| Panama | 7 552 | 2 398 | 589 | 90 | 213 895 | 2 941 583 | 39.0 | 2.8 |
| Puerto Rico | 890 | 3 531 | 116 | 87 | 20 245 | 348 550 | 39.2 | 5.7 |
| Saint Lucia | 62 | 133 | - | 86 | 11 551 | 23 478 | 37.9 | - |
| St. Kitts & Nevis | 36 | 49 | - | 87 | 3 430 | 8 870 | 24.6 | - |
| St. Vincent & Grenadines | 39 | 107 | - | 86 | 8 860 | 12 017 | 30.8 | - |
| U.S.A. | 980 943 | 249 924 | 6 583 | 87 | 2 087 759 | 390 311 617 | 39.8 | 3.2 |
| Virgin Islands (US) | 34 | 102 | - | 87 | 267 | 7 197 | 21.2 | - |

Table 1.2

Total country area and population in 1990 (source: FAO Production Yearbook 1994) and number and area of holdings for countries included in this report (cont'd)

| Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Total area of country ('000 Ha) | Population 1990 | | Census Year | Holdings | | Area of holdings as percent of total country area | Agricultural Population per holding |
|--|---------------------------------|-----------------|---------------------|-------------|-------------|-------------|---|-------------------------------------|
| | | Total ('000) | Agricultural ('000) | | Number | Area (Ha) | | |
| SOUTH AMERICA [6] | 586 518 | 93 963 | 22 691 | | 4 048 875 | 288 394 014 | 49.2 | 5.6 |
| Argentina | 276 689 | 32 547 | 3 373 | 88 | 378 357 | 177 437 398 | 64.1 | 8.9 |
| Colombia | 113 891 | 32 300 | 8 915 | 88 | 1 547 846 | 36 033 713 | 31.6 | 5.8 |
| French Guiana | 9 000 | 117 | - | 89 | 4 491 | 41 553 | 0.5 | - |
| Paraguay | 40 675 | 4 317 | 2 068 | 91 | 307 221 | 23 817 737 | 58.6 | 6.7 |
| Peru | 128 522 | 21 588 | 7 914 | 94 | 1 756 141 | 35 381 809 | 27.5 | 4.5 |
| Uruguay | 17 741 | 3 094 | 421 | 90 | 54 819 | 15 681 804 | 88.4 | 7.7 |
| ASIA [11] | 862 771 | 1 432 151 | 755 638 | | 130 431 856 | 268 619 039 | 31.1 | 5.8 |
| Cyprus | 925 | 702 | 145 | 85 | 48 046 | 178 058 | 19.2 | 3.0 |
| India | 328 759 | 850 638 | 534 059 | 86 | 97 155 000 | 164 562 000 | 50.1 | 5.5 |
| Iran | 164 800 | 58 946 | 15 807 | 88 | 3 326 000 | 17 150 000 | 10.4 | 4.8 |
| Japan | 37 780 | 123 537 | 7 572 | 90 | 3 846 352 | 5 243 000 | 13.9 | 2.0 |
| Korea, Rep. of | 9 902 | 42 869 | 9 590 | 90 | 1 768 501 | 1 857 491 | 18.8 | 5.4 |
| Myanmar | 67 658 | 41 813 | 19 600 | 93 | 2 924 898 | 6 886 956 | 10.2 | 6.7 |
| Nepal | 14 080 | 19 253 | 17 657 | 92 | 2 736 050 | 2 598 971 | 18.5 | 6.5 |
| Pakistan | 79 610 | 121 933 | 64 576 | 90 | 5 071 112 | 19 252 672 | 24.2 | 12.7 |
| Philippines | 30 000 | 60 779 | 28 264 | 91 | 4 610 041 | 9 974 871 | 33.2 | 6.1 |
| Thailand | 51 312 | 55 583 | 33 604 | 88 | 4 877 424 | 17 463 921 | 34.0 | 6.9 |
| Turkey | 77 945 | 56 098 | 24 764 | 91 | 4 068 432 | 23 451 099 | 30.1 | 6.1 |
| EUROPE [18] | 315 534 | 337 084 | 26 218 | | 13 948 196 | 198 257 579 | 63.4 | 1.9 |
| Albania | 2 875 | 3 289 | 1 591 | 95 | 444 300 | - | 0.0 | 3.6 |
| Austria | 8 385 | 7 705 | 377 | 90 | 273 210 | 7 217 498 | 86.1 | 1.4 |
| Belgium | 3 052 | 9 951 | 174 | 90 | 87 180 | 1 400 364 | 45.9 | 2.0 |
| Czechoslovakia (former) | 12 787 | 15 562 | 1 454 | 90 | 1 245 859 | 12 790 007 | 100.0 | 1.2 |
| Denmark | 4 309 | 5 140 | 240 | 89 | 81 267 | 3 069 430 | 71.2 | 3.0 |
| Finland | 33 813 | 4 986 | 409 | 90 | 199 385 | 12 338 439 | 36.5 | 2.1 |
| France | 55 150 | 56 718 | 2 775 | 88 | 1 016 755 | 31 985 606 | 58.0 | 2.7 |
| Ireland | 7 028 | 3 503 | 460 | 91 | 170 578 | 4 441 755 | 63.2 | 2.7 |
| Italy | 30 127 | 57 023 | 3 462 | 90 | 3 023 344 | 22 702 356 | 75.4 | 1.1 |
| Luxembourg | 258 | 381 | 13 | 90 | 3 803 | 137 653 | 53.4 | 3.4 |
| Netherlands | 3 733 | 14 952 | 551 | 90 | 127 367 | 2 163 472 | 58.0 | 4.3 |
| Norway | 32 390 | 4 241 | 233 | 89 | 99 382 | 991 077 | 3.1 | 2.3 |
| Poland | 31 268 | 38 119 | 6 951 | 90 | 3 783 000 | 31 268 300 | 100.0 | 1.8 |
| Portugal | 9 239 | 9 868 | 1 697 | 89 | 598 742 | 5 316 161 | 57.5 | 2.8 |
| Slovenia | 2 025 | 1 918 | 376 | 91 | 156 549 | 912 013 | 45.0 | 2.4 |
| Spain | 50 478 | 39 272 | 4 068 | 89 | 2 284 944 | 42 939 208 | 85.1 | 1.8 |
| Switzerland | 4 129 | 6 834 | 237 | 90 | 108 296 | 1 283 240 | 31.1 | 2.2 |
| United Kingdom | 24 488 | 57 622 | 1 150 | 93 | 244 205 | 17 301 000 | 70.7 | 4.7 |

Table 12
Total country area and population in 1990 (source: FAO Production Yearbook 1994) and number and area of holdings for countries included in this report (cont'd)

| COUNTRIES BY CONTINENTS Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Total area of country (<i>'000 Ha</i>) | Population 1990 | | Census Year | Holdings | | Area of holdings as percent of total country area | Agricultural Population per holding |
|--|---|--------------------------|---------------------------------|----------------|----------|-----------------------|--|--|
| | | Total (<i>'000</i>) | Agricultural (<i>'000</i>) | | Number | Area (<i>Ha</i>) | | |
| OCEANIA [12] | 803 747 | 21 585 | 1 435 | | 353 040 | 485 041 971 | 60.4 | 4.7 |
| American Samoa | 20 | - | - | 90 | 384 | 2 349 | 11.7 | - |
| Australia | 771 336 | 16 884 | 843 | 90 | 129 540 | 466 561 000 | 60.5 | 6.5 |
| Cook Islands | 23 | - | - | 88 | 2 188 | 2 604 | 11.3 | - |
| Fiji | 1 827 | 726 | 284 | 91 | 95 400 | 591 407 | 32.4 | 3.0 |
| Guam | 55 | 134 | - | 87 | 351 | 5 315 | 9.7 | - |
| New Caledonia | 1 858 | 168 | - | 91 | 10 302 | 313 769 | 16.9 | - |
| New Zealand | 27 099 | 3 360 | 308 | 90 | 80 904 | 17 489 398 | 64.5 | 3.8 |
| Niue | 26 | - | - | 89 | 453 | 2 760 | 10.6 | - |
| Northern Mariana Isl. | - | - | - | 90 | 119 | 5 836 | - | - |
| Palau | - | - | - | 89 | 300 | 158 | - | - |
| Vanuatu | 1 219 | 151 | - | 93 | 22 000 | - | - | - |
| Western Samoa | 284 | 162 | - | 89 | 11 099 | 67 375 | 23.7 | - |

Table 1.3

Total country area and population in 1990 (source: FAO Production Yearbook 1994), and latest data on number and area of holdings for countries not included in this report, for which some data on number and area of holdings were available

| Countries by continent. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Total area of country (^{'000} Ha) | Total population (^{'000}) | Agricultural holdings | | |
|---|--|--|--------------------------------|------------|--------------|
| | | | Year of census or survey | Number | Area (Ha) |
| TOTAL [71] | 5 257 814 | 1 309 859 | | 61 749 142 | 777 362 005 |
| AFRICA [27] | 1 641 994 | 350 378 | | 17 214 337 | 230 042 747 |
| Algeria | 238 174 | 24 935 | 1973 | 899 545 | 5 544 145 |
| Angola | 124 670 | 9 194 | 1964/65 | 1 067 230 | 4 179 600 |
| Cameroon | 47 544 | 11 526 | 1972/73 | 925 895 | 1 489 758 |
| Centr.Afr.Rep. | 62 298 | 2 927 | 1985 | 303 901 | 272 419 |
| Chad | 128 400 | 5 553 | 1972/73 | 366 475 | 962 166 |
| "Congo, Rep. of" | 34 200 | 2 232 | 1986 | 143 235 | 141 705 |
| Cote d'Ivoire | 32 246 | 11 974 | 1974/75 | 549 708 | 2 753 491 |
| Gabon | 26 767 | 1 146 | 1974/75 | 71 074 | 72 738 |
| Ghana | 23 854 | 15 020 | 1984 | 1 849 800 | - |
| Kenya | 58 037 | 23 613 | 1981 | 2 750 013 | 6 922 060 |
| Liberia | 9 775 | 2 575 | 1971 | 121 745 | 1 543 537 |
| Madagascar | 58 704 | 12 571 | 1984 | 1 543 537 | 2 043 783 |
| Malawi | 11 848 | 9 367 | 1981 | 1 135 600 | 1 332 000 |
| Mali | 124 019 | 9 212 | 1978 | 519 460 | 1 699 593 |
| Mauritania | 102 552 | 2 003 | 1985 | 99 644 | 201 270 |
| Morocco | 44 655 | 24 334 | 1962 | 1 106 765 | 10 876 000 |
| Namibia | 82 429 | 1 349 | 1960 | 5 358 | 61 082 869 |
| Niger | 126 700 | 7 731 | 1980 | 699 332 | 3 406 550 |
| Nigeria | 92 377 | 96 154 | 1960 | 308 000 | - |
| Rwanda | 2 634 | 6 986 | 1984 | 1 111 897 | 1 349 923 |
| Senegal | 19 672 | 7 327 | 1960 | 295 400 | 1 072 343 |
| Seychelles | 45 | 70 | 1960 | 1 143 | 25 624 |
| Sierra Leone | 7 174 | 3 999 | 1985 | 223 265 | 364 029 |
| South Africa | 122 104 | 37 066 | 1974 | 90 422 | 89 297 821 |
| Togo | 5 679 | 3 531 | 1983 | 262 504 | 405 756 |
| Tunisia | 16 361 | 8 080 | 1961 | 325 800 | 5 022 000 |
| Zimbabwe | 39 076 | 9 903 | 1960 | 437 589 | 27 981 567 |
| NORTH AND CENTRAL AMERICA [10] | 42 703 | 38 531 | | 2 185 173 | 17 060 377 |
| Antigua Barbuda | 44 | 64 | 1984 | 4 654 | 1 949 |
| Belize | 2 296 | 189 | 1985 | 11 011 | 253 340 |
| Costa Rica | 5 110 | 3 035 | 1973 | 81 562 | 3 122 456 |
| Dominican Rep. | 4 873 | 7 110 | 1971 | 304 820 | 2 736 274 |
| El Salvador | 2 104 | 5 172 | 1970/71 | 318 041 | 1 451 894 |
| Guatemala | 10 889 | 9 197 | 1979 | 531 623 | 4 145 624 |
| Haiti | 2 775 | 6 486 | 1971 | 616 710 | 863 520 |
| Jamaica | 1 099 | 2 366 | 1979 | 183 988 | 537 042 |
| Nicaragua | 13 000 | 3 676 | 1963 | 102 201 | 3 815 932 |
| Trinidad Tobago | 513 | 1 236 | 1982 | 30 563 | 132 346 |
| SOUTH AMERICA [5] | 1 062 780 | 191 797 | | 7 068 593 | 444 450 780 |
| Brazil | 851 197 | 148 477 | 1985 | 5 834 779 | 376 286 577 |
| Chile | 75 695 | 13 154 | 1976 | 311 324 | 28 771 855 |
| Ecuador | 28 356 | 10 264 | 1974 | 519 111 | 7 949 403 |
| Suriname | 16 327 | 400 | 1981 | 22 103 | 164 790 |
| Venezuela | 91 205 | 19 502 | 1985 | 381 276 | 31 278 155 |
| ASIA [16] | 577 336 | 381 457 | | 29 110 188 | 43 549 218 |
| Bahrain | 68 | 490 | 1980 | 806 | 3 538 |
| Bangladesh | 14 400 | 108 118 | 1977 | 6 852 558 | 8 886 780 |
| Brunei DARS | 577 | 257 | 1964 | 6 306 | 32 487 |
| Indonesia | 190 457 | 182 812 | 1983 | 17 628 700 | 19 019 900 |
| Iraq | 43 832 | 18 078 | 1971 | 591 178 | 5 732 481 |
| Israel | 2 106 | 4 660 | 1981 | 584 028 | 51 654 |
| Jordan | 8 921 | 3 282 | 1983 | 62 162 | 364 263 |
| Kuwait | 1 782 | 2 143 | 1970 | 449 | 2 726 |
| Lebanon | 1 040 | 2 555 | 1970 | 13 949 | 619 627 |
| Oman | 21 246 | 1 751 | 1979 | 83 204 | 83 360 |
| Saudi Arabia | 214 969 | 16 048 | 1983 | 212 157 | 2 135 033 |
| Singapore | 62 | 2 705 | 1973 | 15 741 | 11 833 |
| Sri Lanka | 6 561 | 17 225 | 1982 | 1 816 988 | 1 967 311 |
| Syria | 18 518 | 12 348 | 1981 | 485 691 | 3 153 436 |
| Yemen A.R.(former) (1) | 19 500 | 6 848 | 1982 | 591 071 | 1 350 775 |
| Yemen D.R.(former) (1) | 33 297 | 2 137 | 1985 | 165 200 | 134 014 |

Table 1.3

Total country area and population in 1990 (source: FAO Production Yearbook 1994), and latest data on number and area of holdings for countries not included in this report, for which some data on number and area of holdings were available (*cont'd*)

| Countries by continent. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Total area of country (<i>'000 Ha</i>) | Total population (<i>'000</i>) | Agricultural holdings | | |
|---|---|--|--------------------------------|-----------|-----------------------|
| | | | Year of census or survey | Number | Area (<i>Ha</i>) |
| EUROPE [12] | 1 932 926 | 347 600 | | 6 160 730 | 42 225 492 |
| Belarus | 20 760 | 10 163 | 1994 | 5 313 | - |
| Estonia (2) | 4 510 | 1 541 | 1994 | 11 166 | - |
| Germany | 35 691 | 79 365 | 1993 | 606 000 | 17 022 100 |
| Greece | 13 199 | 10 238 | 1990 | 861 623 | 3 678 664 |
| Hungary | 9 303 | 10 365 | 1994 | 1 206 498 | - |
| Latvia | 6 450 | 2 583 | 1994 | 359 479 | 2 450 000 |
| Lithuania (3) | 6 520 | 3 706 | 1994 | 110 000 | - |
| Malta | 32 | 354 | 1979 | 12 070 | 13 969 |
| Russian Federation (4) | 1 707 540 | 147 370 | 1994/95 | 305 900 | - |
| Sweden | 44 996 | 8 559 | 1981 | 115 136 | 8 750 648 |
| Ukraine(5) | 60 370 | 51 465 | 1994 | 44 513 | - |
| Yugoslavia (former) (6) (7) | 23 555 | 21 891 | 1981 | 2 523 032 | 10 310 111 |
| OCEANIA [1] | 75 | 96 | | 10 121 | 33 391 |
| Tonga | 75 | 96 | 1985 | 10 121 | 33 391 |

(1) Data on country area and population from Production Yearbook 1986.

(2) Excluding about 200 000 household plots with an average size of 0.6 Ha.

(3) Private farms only, reporting about 30% of agricultural land in use.

(4) Excluding 35 000 000 private plots with an average size of 0.2 - 0.5 Ha.

(5) Excluding 10 860 812 subsidiary private plots with an average size of 0.3 Ha.

(6) Data on country area and population from Production Yearbook 1991.

(7) Excluding Slovenia.

Table 1.4

Total country area and population in 1990 (source: FAO Production Yearbook 1994), for countries not included in this report, for which no data on number and area of holdings were available.

| Countries by continent. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Total area of country (<i>'000 Ha</i>) | Total population (<i>'000</i>) | Countries by continent. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Total area of country (<i>'000 Ha</i>) | Total population (<i>'000</i>) |
|--|---|--|--|---|--|
| TOTAL [71] | 2 526 002 | 1 546 724 | EUROPE [9] | 48 719 | 36 895 |
| AFRICA [12] | 513 949 | 115 484 | Andorra | 45 | - |
| British Indian Ocean Terr. | 8 | - | Bulgaria | 11 091 | 8 991 |
| Burundi | 2 783 | 5 503 | Faeroe Isl. | 140 | 47 |
| Comoros | 223 | 543 | Gibraltar | 1 | - |
| Egypt | 100 145 | 56 312 | Iceland | 10 300 | 255 |
| Equatorial Guinea | 2 805 | 352 | Liechtenstein | 16 | - |
| Eritrea | 12 114 | 3 345 | Moldova Rep. (1) | 3 370 | 4 395 |
| Gambia | 1 130 | 923 | Romania | 23 750 | 23 207 |
| Mauritius | 204 | 1 057 | San Marino | 6 | - |
| Mozambique | 80 159 | 14 187 | OCEANIA [13] | 49 876 | 4 428 |
| St. Helena | 31 | - | Canton Isl. | 7 | - |
| Somalia | 63 766 | 8 677 | Christmas Isl. | 13 | - |
| Sudan | 250 581 | 24 585 | Cocos Isl. | 1 | - |
| NORTH AND CENTRAL AMERICA [10] | 45 478 | 10 916 | French Polynesia | 400 | 197 |
| Aruba | 19 | 67 | Kiribati | 73 | 72 |
| Bermuda | 5 | 61 | Nauru | 2 | - |
| British Virgin Isl. | 15 | - | Norfolk Isl. | 4 | - |
| Cayman Isl. | 26 | - | Pacific Isl. | 178 | - |
| Cuba | 11 086 | 10 598 | Papua New Guinea | 46 284 | 3 839 |
| Greenland | 34 170 | - | Solomon Isl. | 2 890 | 320 |
| Montserrat | 10 | - | Tokelau | 1 | - |
| Netherlands Antille | 80 | 190 | Tuvalu | 3 | - |
| St. Pierre and Miquelon | 24 | - | Wallis and Futuna Isl. | 20 | - |
| Turks Caicos | 43 | - | | | |
| SOUTH AMERICA [3] | 132 572 | 7 369 | | | |
| Bolivia | 109 858 | 6 573 | | | |
| Falkland Isl. | 1 217 | - | | | |
| Guyana | 21 497 | 796 | | | |
| ASIA [24] | 1 735 408 | 1 371 632 | | | |
| Afghanistan | 65 209 | 15 045 | | | |
| Armenia (1) | 2 980 | 3 441 | | | |
| Azerbaijan (1) | 8 660 | 7 296 | | | |
| Bhutan | 4 700 | 1 544 | | | |
| Cambodia | 18 104 | 8 841 | | | |
| China | 959 696 | 1 155 305 | | | |
| East Timor | 1 487 | 740 | | | |
| Gaza Strip | 38 | 624 | | | |
| Georgia (1) | 6 970 | 5 442 | | | |
| Hong Kong | 104 | 5 705 | | | |
| Kazakhstan (1) | 271 730 | 16 877 | | | |
| Korea, Democratic Pop. Rep. | 12 054 | 21 774 | | | |
| Kyrgyzstan (1) | 19 850 | 4 513 | | | |
| Laos | 23 680 | 4 202 | | | |
| Macau | 2 | 342 | | | |
| Malaysia | 32 975 | 17 891 | | | |
| Maldives | 30 | 216 | | | |
| Mongolia | 156 650 | 2 177 | | | |
| Qatar | 1 100 | 485 | | | |
| Tajikistan (1) | 14 310 | 5 604 | | | |
| Turkmenistan (1) | 48 810 | 3 833 | | | |
| United Arab Emirates | 8 360 | 1 671 | | | |
| Uzbekistan (1) | 44 740 | 21 375 | | | |
| Viet Nam | 33 169 | 66 689 | | | |

(continued)

(1) Data on population refer to 1992.

Table 1.5
Coverage of agricultural censuses and application of sampling for countries taking a census in the period 1986-95

| Countries by continents | Census year | Coverage | Application of sampling |
|--------------------------------|-------------|---|---------------------------|
| TOTAL [80] | | | |
| AFRICA [17] | | | |
| Benin | 92 | Traditional Sector only, all territories with agriculture as main activity | Sampling |
| Botswana | 93 | Traditional Sector only, excluding nomadic livestock holdings | Sampling |
| Burkina Faso | 93 | Traditional Sector only, excluding nomadic livestock holdings | Sampling |
| Cape Verde | 88 | Households in non agricultural areas or non agricultural households in agricultural areas were excluded | Complete enum. + sampling |
| Congo, Dem. Rep. of | 90 | Traditional Sector only | Sampling |
| Djibouti | 95 | Excluding Obock district | Complete enumeration |
| Ethiopia | 89/92 | Excluding Eritrea, Tigray, Asab, Ogaden autonomous regions. Excluding nomadic areas | Sampling |
| Guinea | 89 | Excluding holdings located in urban areas | Sampling |
| Guinea Bissau | 88 | Excluding holdings located in urban areas | Sampling |
| Lesotho | 89/90 | Traditional sector only. Excluding the autonomous sector of the capital city of Bissau. | Sampling |
| Libya | 87 | All holdings in the country, including agricultural activities in urban areas, were covered. | Complete enumeration |
| Reunion | 89 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Sao Tome & Principe | 90 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enum. + sampling |
| Swaziland | 93 | Excluding holdings located in urban areas and holdings residing in agricultural zones but not practicing agriculture. | Complete enum. + sampling |
| Tanzania | 94/95 | Excluding urban areas | Sampling |
| Uganda | 91 | Traditional sector was covered. Urban areas and large scale holdings were excluded from the census | Sampling |
| Zambia | 90 | Excluding urban areas | Sampling |
| | | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enum. + sampling |
| NORTH AND CENTRAL AMERICA [16] | | | |
| Bahamas | 94 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Barbados | 89 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Canada | 91 | Excluding some Indian Reservations and Settlements in Yukon and North-West Territories | Complete enumeration |
| Dominica | 95 | Excluding urban areas | Complete enum. + sampling |
| Grenada | 95 | Excluding urban areas | Complete enumeration |
| Guadeloupe | 89 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Honduras | 93 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Martinique | 89 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Mexico | 91 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Panama | 90 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Puerto Rico | 87 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Saint Lucia | 86 | The entire island was covered, except for the commercial section of the city of Castries | Complete enumeration |
| St. Kitts & Nevis | 87 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| St. Vincent & Grenadines | 86 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| U.S.A. | 87 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Virgin Islands (US) | 87 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |

Table 1.5

Coverage of agricultural censuses and application of sampling for countries taking a census in the period 1986-95 (cont'd)

| Countries by continents | Census year | Coverage | Application of sampling |
|--------------------------|-------------|--|---------------------------|
| SOUTH AMERICA [6] | | | |
| Argentina | 88 | Excluding urban areas and desert zones unfit to agricultural use | Complete enumeration |
| Colombia | 88 | Areas 100% under wood/forests and cities/city-suburbs were excluded | Sampling |
| French Guiana | 89 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Paraguay | 91 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Peru | 94 | Excluding totally urbanized areas | Complete enumeration |
| Uruguay | 90 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| ASIA [11] | | | |
| Cyprus | 85 | Government controlled part of Cyprus was covered | Complete enumeration |
| India | 86 | All holdings in the country, meeting the agricultural holding definition, were covered | Sampling |
| Iran | 88 | Not available | Not available |
| Japan | 90 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Korea, Rep. of | 90 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Myanmar | 93 | Excluding few remote areas with little agricultural activity | Complete enumeration |
| Nepal | 92 | All holdings in the country, meeting the agricultural holding definition, were covered | Sampling |
| Pakistan | 90 | All holdings in the country, meeting the agricultural holding definition, were covered | Sampling |
| Philippines | 91 | All holdings in the country, meeting the agricultural holding definition, were covered | Sampling |
| Thailand | 88 | All holdings in the country, meeting the agricultural holding definition, were covered | Sampling |
| Turkey | 91 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enum. + sampling |
| EUROPE [18] | | | |
| Albania | 95 | Farms reporting livestock only and growers of speciality crops (greenhouses) were excluded from the survey | Sampling |
| Austria | 90 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Belgium | 90 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Czechoslovakia (former) | 90 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Denmark | 89 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration (1) |
| Finland | 90 | Entire country covered. Farms under 1 Ha of arable land, or under 2 Ha of forest land, were excluded. | Complete enumeration |
| France | 88 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Ireland | 91 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Italy | 90 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Luxembourg | 90 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Netherlands | 90 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Norway | 89 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Poland | 90 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Portugal | 89 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Slovenia | 91 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Spain | 89 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Switzerland | 90 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| United Kingdom | 93 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |

Table 1.5
Coverage of agricultural censuses and application of sampling for countries taking a census in the period 1986-95 (cont'd)

| Countries by continents | Census year | Coverage | Application of sampling |
|-------------------------|-------------|---|---------------------------|
| OCEANIA [12] | | | |
| American Samoa | 90 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Australia | 90 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Cook Islands | 88 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Fiji | 91 | Excluding urban areas, land 100% under forests, land 100% not suitable for agriculture | Sampling |
| Guam | 87 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| New Caledonia | 91 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| New Zealand | 90 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Niue | 89 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Northern Mariana Isl. | 90 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enumeration |
| Palau | 89 | The census covered only 7 out of 13 rural states of Palau | Complete enumeration |
| Vanuatu | 93 | Excluding some areas in Tanna, Pentecost, Sheperds and Epi islands, and the area of Middle Bush Santo | Complete enum. + sampling |
| Western Samoa | 89 | All holdings in the country, meeting the agricultural holding definition, were covered | Complete enum. + sampling |

(1) From 1990 sampling method is applied.

Table 3.1
Number and area of holdings and fragmentation

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Agricultural holdings | | | Parcels | |
|---|----------------|-----------------------|---------------|-------------------------|-----------------|----------------------------------|
| | | Number | Area (Ha) | Average size (Ha) | Total number | Average number per holding |
| TOTAL [80] | | 175 371 954 | 1 918 712 863 | 11.0 | 105 449 220 | 3.5 |
| AFRICA [17] | | 19 121 515 | 29 336 264 | 1.6 | 21 231 135 | 2.7 |
| Benin | 92 | 408 020 | - | - | - | - |
| Botswana | 93 | 101 434 | 322 200 | 3.2 | - | - |
| Burkina Faso | 93 | 886 638 | 3 472 480 | 3.9 | 8 491 204 | 9.6 |
| Cape Verde | 88 | 32 193 | 41 383 | 1.3 | - | - |
| Congo, Dem. Rep. of | 90 | 4 479 600 | 2 387 700 | 0.5 | 8 747 700 | 2.0 |
| Djibouti | 95 | 1 135 | - | - | - | - |
| Ethiopia | 89/92 | 6 091 840 | 4 871 020 | 0.8 | - | - |
| Guinea | 89 | 431 277 | 727 544 | 1.7 | 722 554 | 1.7 |
| Guinea Bissau | 88 | 84 221 | 96 375 | 1.1 | 232 638 | 2.8 |
| Lesotho | 89/90 | 229 300 | 331 000 | 1.4 | - | - |
| Libya | 87 | 175 528 | 2 495 906 | 14.2 | 297 445 | 1.7 |
| Reunion | 89 | 15 198 | 67 154 | 4.4 | - | - |
| Sao Tome & Principe | 90 | 13 822 | 76 214 | 5.5 | 14 372 | 1.0 |
| Swaziland | 93 | 73 745 | - | - | - | - |
| Tanzania | 94/95 | 3 872 323 | 10 764 000 | 2.8 | - | - |
| Uganda | 91 | 1 704 721 | 3 683 288 | 2.2 | 2 725 222 | 1.6 |
| Zambia | 90 | 520 520 | - | - | - | - |
| NORTH AND CENTRAL AMERICA [16] | | 7 468 472 | 649 063 996 | 86.9 | 293 152 | 1.3 |
| Bahamas | 94 | 1 760 | 20 336 | 11.6 | - | - |
| Barbados | 89 | 17 178 | 21 560 | 1.3 | - | - |
| Canada | 91 | 280 043 | 67 753 700 | 241.9 | - | - |
| Dominica | 95 | 9 026 | 21 146 | 2.3 | - | - |
| Grenada | 95 | 18 277 | 14 164 | 0.8 | - | - |
| Guadeloupe | 89 | 16 530 | 53 559 | 3.2 | - | - |
| Honduras | 93 | 325 750 | 3 637 469 | 11.2 | - | - |
| Martinique | 89 | 16 038 | 50 192 | 3.1 | - | - |
| Mexico | 91 | 4 437 863 | 183 838 578 | 41.4 | - | - |
| Panama | 90 | 213 895 | 2 941 583 | 13.8 | 279 622 | 1.3 |
| Puerto Rico | 87 | 20 245 | 348 530 | 17.2 | - | - |
| Saint Lucia | 86 | 11 551 | 23 478 | 2.0 | 13 530 | 1.2 |
| St. Kitts & Nevis | 87 | 3 430 | 8 870 | 2.6 | - | - |
| St. Vincent & Grenadines | 86 | 8 860 | 12 017 | 1.4 | - | - |
| U.S.A. | 87 | 2 087 759 | 390 311 617 | 187.0 | - | - |
| Virgin Islands (US) | 87 | 267 | 7 197 | 27.0 | - | - |
| SOUTH AMERICA [6] | | 4 048 875 | 288 394 014 | 71.2 | 5 721 113 | 3.3 |
| Argentina | 88 | 378 357 | 177 437 398 | 469.0 | - | - |
| Colombia | 88 | 1 547 846 | 36 033 713 | 23.3 | - | - |
| French Guiana | 89 | 4 491 | 41 553 | 9.3 | - | - |
| Paraguay | 91 | 307 221 | 23 817 737 | 77.5 | - | - |
| Peru | 94 | 1 756 141 | 35 381 809 | 20.1 | 5 721 113 | 3.3 |
| Uruguay | 90 | 54 819 | 15 681 804 | 286.1 | - | - |
| ASIA [11] | | 130 431 856 | 268 619 039 | 2.0 | 48 390 079 | 3.2 |
| Cyprus | 85 | 48 046 | 178 058 | 3.7 | 245 135 | 5.1 |
| India | 86 | 97 155 000 | 164 562 000 | 1.7 | - | - |
| Iran | 88 | 3 326 000 | 17 150 000 | 5.2 | - | - |
| Japan | 90 | 3 846 352 | 5 243 000 | 1.4 | - | - |
| Korea, Rep. of | 90 | 1 768 501 | 1 857 491 | 1.1 | - | - |
| Myanmar | 93 | 2 924 898 | 6 886 956 | 2.4 | 6 132 867 | 2.1 |
| Nepal | 92 | 2 736 050 | 2 598 971 | 0.9 | 10 831 202 | 4.0 |
| Pakistan | 90 | 5 071 112 | 19 252 672 | 3.8 | 9 579 603 | 1.9 |
| Philippines | 91 | 4 610 041 | 9 974 871 | 2.2 | - | - |
| Thailand | 88 | 4 877 424 | 17 463 921 | 3.6 | - | - |
| Turkey | 91 | 4 068 432 | 23 451 099 | 5.8 | 21 601 272 | 5.3 |

Table 3.1
Number and area of holdings and fragmentation (cont'd)

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Agricultural holdings | | | Parcels | |
|---|----------------|-----------------------|--------------|-------------------------|-----------------|----------------------------------|
| | | Number | Area (Ha) | Average size (Ha) | Total number | Average number per holding |
| EUROPE [18] | | 13 948 196 | 198 257 579 | 14.7 | 29 768 829 | 5.2 |
| Albania | 95 | 444 300 | - | - | - | - |
| Austria | 90 | 273 210 | 7 217 498 | 26.4 | - | - |
| Belgium | 90 | 87 180 | 1 400 364 | 16.1 | - | - |
| Czechoslovakia (former) | 90 | 1 245 889 | 12 790 007 | 10.3 | - | - |
| Denmark | 89 | 81 267 | 3 069 430 | 37.8 | - | - |
| Finland | 90 | 199 385 | 12 338 439 | 61.9 | - | - |
| France | 88 | 1 016 755 | 31 985 606 | 31.5 | - | - |
| Ireland | 91 | 170 578 | 4 441 755 | 26.0 | - | - |
| Italy | 90 | 3 023 344 | 22 702 356 | 7.5 | 9 680 202 | 3.2 |
| Luxembourg | 90 | 3 803 | 137 653 | 36.2 | - | - |
| Netherlands | 90 | 127 367 | 2 163 472 | 17.0 | 396 950 | 3.1 |
| Norway | 89 | 99 382 | 991 077 | 10.0 | - | - |
| Poland | 90 | 3 783 000 | 31 268 300 | 8.3 | - | - |
| Portugal | 89 | 598 742 | 5 316 161 | 8.9 | - | - |
| Slovenia | 91 | 156 549 | 912 013 | 5.8 | 500 000 | 3.2 |
| Spain | 89 | 2 284 944 | 42 939 208 | 18.8 | 18 433 605 | 8.1 |
| Switzerland | 90 | 108 296 | 1 283 240 | 11.8 | 758 072 | 7.0 |
| United Kingdom | 93 | 244 205 | 17 301 000 | 70.8 | - | - |
| OCEANIA [12] | | 353 040 | 485 041 971 | 1 465.2 | 44 912 | 3.2 |
| American Samoa | 90 | 384 | 2 349 | 6.1 | - | - |
| Australia | 90 | 129 540 | 466 561 000 | 3 601.7 | - | - |
| Cook Islands | 88 | 2 188 | 2 604 | 1.2 | 6 399 | 2.9 |
| Fiji | 91 | 95 400 | 591 407 | 6.2 | - | - |
| Guam | 87 | 351 | 5 315 | 15.1 | - | - |
| New Caledonia | 91 | 10 302 | 313 769 | 30.5 | - | - |
| New Zealand | 90 | 80 904 | 17 489 398 | 216.2 | - | - |
| Niue | 89 | 453 | 2 760 | 6.1 | 3 903 | 8.6 |
| Northern Mariana Isl. | 90 | 119 | 5 836 | 49.0 | - | - |
| Palau | 89 | 300 | 158 | 0.5 | 814 | 2.7 |
| Vanuatu | 93 | 22 000 | - | - | - | - |
| Western Samoa | 89 | 11 099 | 67 375 | 6.1 | 33 796 | 3.0 |

Table 3.2
Number and area of holdings by tenure of holdings

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Holdings operated under one form of tenure | | | | | | | | | | | | Holdings operated under more than one form of tenure | Holdings without land |
|---|----------------|--|-------------|--|-------------|--------------------------|------------|--|------------|-----------|-------------|-----------|-----------|--|-----------------------------|
| | | All holdings | | Owned by the holder or in ownerlike possession | | Rented from others | | Under other single forms of tenure | | Area (Ha) | | Number | Area (Ha) | | |
| | | Number | Area (Ha) | Number | Area (Ha) | Number | Area (Ha) | Number | Area (Ha) | Number | Area (Ha) | | | | |
| TOTAL [23] | | 130 471 592 | 976 660 776 | 115 981 304 | 605 804 536 | 3 419 693 | 70 847 872 | 1 643 776 | 18 363 542 | 6 923 758 | 274 146 235 | 2 502 939 | | | |
| AFRICA [1] | | 1 135 | - | 1 071 | - | - | - | 64 | - | - | - | - | - | | |
| Djibouti | 95 | 1 135 | - | 1 071 | - | - | - | 64 | - | - | - | - | - | | |
| NORTH AND CENTRAL AMERICA [6] | | 2 332 786 | 393 641 280 | 1 320 898 | 129 817 663 | 246 118 | 51 435 908 | 136 440 | 1 373 591 | 627 269 | 211 014 098 | 2 088 | | | |
| Bahamas (1) | 94 | 1 760 | 20 336 | 452 | 5 820 | 354 | 8 455 | 954 | 6 061 | - | - | 27 | | | |
| Panama | 90 | 213 895 | 2 941 583 | 61 235 | 1 007 264 | 3 014 | 36 025 | 134 544 | 1 343 757 | 15 102 | 554 537 | - | | | |
| Puerto Rico | 87 | 20 245 | 348 530 | 15 693 | 188 459 | 1 433 | 47 921 | 465 | 23 385 | 2 654 | 89 365 | - | | | |
| St. Vincent & Grenadines | 86 | 8 860 | 12 017 | 4 763 | 8 120 | 1 094 | 1 083 | 477 | 388 | 465 | 2 426 | 2 061 | | | |
| U.S.A. | 87 | 2 087 759 | 390 311 617 | 1 238 547 | 128 605 281 | 240 200 | 51 342 597 | - | - | 609 012 | 210 363 739 | - | | | |
| Virgin Islands (US) | 87 | 267 | 7 197 | 208 | 2 739 | 23 | 427 | - | - | 36 | 4 031 | - | | | |
| SOUTH AMERICA [4] | | 3 989 565 | 272 670 657 | 2 741 008 | 216 370 663 | 175 190 | 9 844 007 | 675 753 | 13 060 781 | 286 806 | 33 995 206 | 110 808 | | | |
| Argentina | 88 | 378 357 | 177 437 398 | 273 323 | 133 945 128 | 26 186 | 8 244 686 | 24 635 | 5 781 730 | 54 213 | 29 465 854 | - | | | |
| Colombia | 88 | 1 547 846 | 36 033 713 | 1 201 914 | 30 638 340 | 86 140 | 921 364 | 109 394 | 3 187 978 | 57 920 | 1 286 031 | 92 478 | | | |
| Paraguay | 91 | 307 221 | 23 817 737 | 156 805 | 20 799 240 | 22 126 | 376 452 | 76 330 | 922 664 | 43 998 | 1 719 381 | 7 962 | | | |
| Peru | 94 | 1 756 141 | 35 381 809 | 1 108 966 | 30 987 955 | 40 738 | 301 505 | 465 394 | 3 168 409 | 130 675 | 923 940 | 10 368 | | | |
| ASIA [7] | | 118 566 105 | 237 481 592 | 107 278 543 | 215 124 968 | 2 805 316 | 6 254 246 | 810 650 | 1 068 200 | 5 307 771 | 14 753 085 | 2 363 676 | | | |
| Cyprus | 85 | 48 046 | 178 058 | 37 331 | - | 4 455 | - | - | - | 5 462 | - | 798 | | | |
| India | 86 | 97 155 000 | 164 562 000 | 91 348 000 | 157 760 000 | 526 000 | 654 000 | 694 000 | 678 000 | 2 339 000 | 5 470 000 | 2 248 000 | | | |
| Nepal | 92 | 2 736 050 | 2 598 971 | 2 258 764 | 2 110 960 | 49 114 | 36 149 | 17 924 | 7 139 | 400 768 | 444 723 | 9 480 | | | |
| Pakistan (2) | 90 | 5 071 112 | 19 252 672 | 3 490 988 | 12 433 598 | 953 557 | 3 081 276 | - | - | 626 418 | 3 634 763 | - | | | |
| Philippines | 91 | 4 610 041 | 9 974 871 | 1 999 979 | 4 855 059 | 1 051 976 | 1 775 752 | 35 570 | 117 977 | 1 522 516 | 3 226 083 | - | | | |
| Thailand | 88 | 4 877 424 | 17 463 921 | 4 242 092 | 14 737 662 | 173 578 | 571 254 | 46 219 | 184 899 | 411 747 | 1 970 106 | 3 788 | | | |
| Turkey | 91 | 4 068 432 | 23 451 099 | 3 901 389 | 23 227 689 | 46 636 | 135 815 | 16 937 | 80 185 | 1 860 | 7 410 | 101 610 | | | |
| EUROPE [3] | | 5 581 498 | 72 859 062 | 4 639 359 | 44 488 722 | 193 031 | 3 309 094 | 20 869 | 2 860 970 | 701 872 | 14 982 778 | 26 367 | | | |
| Austria | 90 | 273 210 | 7 217 498 | 155 266 | - | 10 297 | - | - | - | 107 647 | - | - | | | |
| Italy | 90 | 3 023 344 | 22 702 356 | 2 660 024 | 16 666 285 | 95 045 | 1 208 337 | - | - | 262 684 | 4 827 734 | 5 591 | | | |
| Spain | 89 | 2 284 944 | 42 939 208 | 1 824 069 | 27 822 437 | 87 689 | 2 100 757 | 20 869 | 2 860 970 | 331 541 | 10 155 044 | 20 776 | | | |
| OCEANIA [2] | | 503 | 8 185 | 425 | 2 500 | 38 | 4 617 | - | - | 40 | 1 068 | - | | | |
| American Samoa | 90 | 384 | 2 349 | 358 | 2 284 | 10 | 24 | - | - | 16 | 41 | - | | | |
| Northern Mariana Isl. | 90 | 119 | 5 836 | 67 | 216 | 28 | 4 593 | - | - | 24 | 1 027 | - | | | |

Note: for a correct interpretation of tables 3.2 and 3.3, see paragraph 3.2.1

(1) Tenure of main parcel

(2) Excluding 149 Government holdings with an area of 103 035 Ha.

Table 3.3**Area of holdings by tenure of land operated**

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Total area of all holdings (Ha) | Area owned by the holder or in ownerlike possession (Ha) | Area rented from others (Ha) | Area operated under other tenure forms (Ha) |
|--|------------------------|--|---|---|--|
| TOTAL [26] | | 240 053 510 | 179 222 073 | 52 213 915 | 8 557 712 |
| AFRICA [5] | | 6 945 270 | 1 135 567 | 172 036 | 5 637 667 |
| Congo, Dem. Rep. of | 90 | 2 387 700 | 470 500 | 64 000 | 1 853 200 |
| Guinea | 89 | 727 544 | 94 638 | 89 401 | 543 505 |
| Guinea Bissau | 88 | 96 375 | 53 770 | 518 | 42 087 |
| Reunion (1) | 89 | 50 363 | 31 646 | 18 117 | 600 |
| Uganda | 91 | 3 683 288 | 485 013 | - | 3 198 275 |
| NORTH AND CENTRAL AMERICA [10] | | 179 908 685 | 149 950 251 | 27 514 542 | 2 443 892 |
| Barbados (2) | 89 | 19 861 | 15 119 | 1 498 | 3 244 |
| Canada | 91 | 67 753 700 | 42 961 352 | 24 792 348 | - |
| Dominica | 95 | 21 146 | 16 085 | 1 160 | 3 901 |
| Grenada | 95 | 14 164 | 12 344 | 1 659 | 161 |
| Guadeloupe (1) | 89 | 46 740 | 30 890 | 10 081 | 5 769 |
| Honduras | 93 | 3 637 469 | 3 083 727 | 88 168 | 465 574 |
| Martinique (1) | 89 | 37 173 | 24 286 | 8 363 | 4 524 |
| Mexico (3) | 91 | 108 346 084 | 103 779 709 | 2 608 653 | 1 957 722 |
| Saint Lucia | 86 | 23 478 | 19 463 | 1 927 | 2 088 |
| St. Kitts & Nevis | 87 | 8 870 | 7 276 | 685 | 909 |
| SOUTH AMERICA [1] | | 20 642 | 3 520 | 11 800 | 5 322 |
| French Guiana (1) | 89 | 20 642 | 3 520 | 11 800 | 5 322 |
| EUROPE [6] | | 52 517 213 | 28 034 636 | 24 218 649 | 204 118 |
| Belgium (1) | 90 | 1 357 366 | 448 824 | 908 542 | - |
| France (1) | 88 | 28 595 799 | 12 866 128 | 15 729 671 | - |
| Luxembourg (1) | 90 | 126 298 | 63 275 | 62 434 | 589 |
| Portugal (1) | 89 | 4 005 594 | 2 761 911 | 1 050 917 | 192 766 |
| Switzerland (4) | 90 | 1 131 156 | 633 498 | 427 085 | 10 763 |
| United Kingdom | 93 | 17 301 000 | 11 261 000 | 6 040 000 | - |
| OCEANIA [4] | | 661 700 | 98 099 | 296 888 | 266 713 |
| Fiji | 91 | 591 407 | 93 365 | 294 972 | 203 070 |
| Niue | 89 | 2 760 | 2 489 | 125 | 146 |
| Palau | 89 | 158 | 125 | 20 | 13 |
| Western Samoa | 89 | 67 375 | 2 120 | 1 771 | 63 484 |

Note: for a correct interpretation of tables 3.2 and 3.3, see paragraph 3.2.1.

(1) Data refer to agricultural land.

(2) Area reported by tenure.

(3) Data refer to Rural Production Units only.

(4) Data refer to agricultural land, but excluding 59 810 Ha of communal grazing land (alpages).

Table 3.4
Number and area of holdings by legal status of the holder

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | All holdings | | Civil persons | | Other | |
|--|----------------|-----------------|---------------|------------------|-------------|---------|-------------|
| | | Number | Area (Ha) | Number | Area (Ha) | Number | Area (Ha) |
| TOTAL [28] | | 123 027 626 | 1 015 624 988 | 122 429 507 | 642 891 212 | 580 753 | 224 238 784 |
| NORTH AND CENTRAL AMERICA [10] | | 2 663 164 | 461 464 984 | 2 548 206 | 318 590 513 | 107 960 | 75 063 113 |
| Bahamas | 94 | 1 760 | 20 336 | 1 727 | 12 641 | 33 | 7 695 |
| Barbados | 89 | 17 178 | 21 560 | 17 054 | 6 404 | 124 | 15 156 |
| Canada | 91 | 280 043 | 67 753 700 | 255 719 | - | 24 324 | - |
| Dominica (1) | 95 | 9 026 | 21 146 | 8 374 | - | 60 | - |
| Grenada (2) | 95 | 18 277 | 14 164 | 11 764 | - | 107 | - |
| Panama | 90 | 213 895 | 2 941 583 | 211 556 | 2 329 566 | 2 339 | 612 017 |
| Puerto Rico | 87 | 20 245 | 348 530 | 18 302 | 269 069 | 1 943 | 79 461 |
| Saint Lucia | 86 | 11 551 | 23 478 | 11 476 | - | 75 | - |
| St. Kitts & Nevis | 87 | 3 430 | 8 870 | 3 351 | - | 79 | - |
| U.S.A. | 87 | 2 087 759 | 390 311 617 | 2 008 883 | 315 972 833 | 78 876 | 74 338 784 |
| SOUTH AMERICA [3] | | 2 441 719 | 236 636 944 | 2 289 303 | 105 676 906 | 142 048 | 107 142 301 |
| Argentina | 88 | 378 357 | 177 437 398 | 294 507 | 91 730 201 | 83 850 | 85 707 197 |
| Paraguay | 91 | 307 221 | 23 817 737 | 306 385 | - | 836 | - |
| Peru (3) | 94 | 1 756 141 | 35 381 809 | 1 688 411 | 13 946 705 | 57 362 | 21 435 104 |
| ASIA [5] | | 109 995 254 | 210 898 078 | 109 817 120 | 163 318 624 | 178 134 | 1 421 434 |
| Cyprus | 85 | 48 046 | 178 058 | 47 521 | 160 624 | 525 | 17 434 |
| India | 86 | 97 155 000 | 164 562 000 | 96 990 000 | 163 158 000 | 165 000 | 1 404 000 |
| Japan | 90 | 3 846 352 | 5 243 000 | 3 834 732 | - | 11 620 | - |
| Thailand | 88 | 4 877 424 | 17 463 921 | 4 876 435 | - | 989 | - |
| Turkey | 91 | 4 068 432 | 23 451 099 | 4 068 432 | - | - | - |
| EUROPE [8] | | 7 820 990 | 105 966 200 | 7 673 192 | 55 237 814 | 147 798 | 40 621 916 |
| Austria | 90 | 273 210 | 7 217 498 | 268 869 | 5 675 345 | 4 341 | 1 542 153 |
| Belgium | 90 | 87 180 | 1 400 364 | 86 072 | - | 1 108 | - |
| Czechoslovakia (former) (4) | 90 | 1 245 889 | 12 790 007 | 1 179 608 | 331 187 | 66 281 | 6 325 448 |
| Finland | 90 | 199 385 | 12 338 439 | 197 640 | 2 508 798 | 1 745 | 9 829 641 |
| Italy | 90 | 3 023 344 | 22 702 356 | 3 002 127 | 17 245 534 | 21 217 | 5 456 822 |
| Portugal (5) | 89 | 598 742 | 5 316 161 | 593 590 | 3 367 824 | 5 152 | 637 770 |
| Spain | 89 | 2 284 944 | 42 939 208 | 2 238 612 | 26 109 126 | 46 332 | 16 830 082 |
| Switzerland | 90 | 108 296 | 1 262 167 | 106 674 | - | 1 622 | - |
| OCEANIA [2] | | 106 499 | 658 782 | 101 686 | 67 355 | 4 813 | 20 |
| Fiji | 91 | 95 400 | 591 407 | 90 588 | - | 4 812 | - |
| Western Samoa | 89 | 11 099 | 67 375 | 11 098 | 67 355 | 1 | 20 |

(1) Excluding 592 holdings without land.

(2) Data refer to holdings 0.05 Ha and over.

(3) Excluding 10 368 holdings without land.

(4) Data by legal status refer to 6 656 635 Ha of agricultural land.

(5) Data by legal status refer to agricultural land.

Table 3.5**Members of holder's household and hired permanent workers**

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Total number of holdings | Persons who are members of holder's household | | | Hired permanent workers | Average per holding | |
|---|----------------|-----------------------------------|---|-------------|-------------|-------------------------------|-------------------------------------|-------------------------------|
| | | | Total | Male | Female | | Members of holder's household | Hired permanent workers |
| | | | | | | | | |
| TOTAL [47] | | 49 174 272 | 295 566 497 | 133 081 185 | 126 507 864 | 1 686 400 | 6.6 | 0.1 |
| AFRICA [13] | | 18 296 815 | 106 508 657 | 36 722 310 | 36 242 599 | 3 913 | 5.8 | - |
| Benin | 92 | 408 020 | 3 191 856 | 1 559 572 | 1 632 284 | - | 7.8 | - |
| Botswana (1) | 93 | 101 434 | 539 753 | - | - | - | 5.3 | - |
| Burkina Faso | 93 | 886 638 | 8 301 689 | 4 041 375 | 4 260 314 | - | 9.4 | - |
| Cape Verde | 88 | 32 193 | 172 363 | 81 762 | 90 601 | - | 5.4 | - |
| Congo, Dem. Rep. of | 90 | 4 479 600 | 25 982 500 | 13 144 600 | 12 837 900 | - | 5.8 | - |
| Ethiopia | 89/92 | 6 091 840 | 31 570 040 | - | - | - | 5.2 | - |
| Guinea | 89 | 431 277 | 3 946 295 | 1 992 750 | 1 953 545 | 3 913 | 9.2 | - |
| Guinea Bissau | 88 | 84 221 | 706 168 | 353 117 | 353 051 | - | 8.4 | - |
| Libya | 87 | 175 528 | 1 433 955 | - | - | - | 8.2 | - |
| Reunion | 89 | 15 198 | 71 270 | 37 681 | 33 589 | - | 4.7 | - |
| Sao Tome & Principe | 90 | 13 822 | 35 072 | 18 213 | 16 859 | - | 2.5 | - |
| Tanzania | 94/95 | 3 872 323 | 21 020 227 | 10 674 310 | 10 345 917 | - | 5.4 | - |
| Uganda | 91 | 1 704 721 | 9 537 469 | 4 818 930 | 4 718 539 | - | 5.6 | - |
| NORTH AND CENTRAL AMERICA [10] | | 4 557 328 | 307 528 | 156 849 | 150 679 | 462 405 | 3.5 | 0.1 |
| Bahamas | 94 | 1 760 | 6 933 | 3 504 | 3 429 | - | 3.9 | - |
| Barbados | 89 | 17 178 | 65 766 | 32 398 | 33 368 | 7 672 | 3.8 | 0.4 |
| Dominica | 95 | 9 026 | 26 458 | 14 302 | 12 156 | - | 2.9 | - |
| Grenada | 95 | 18 277 | 43 400 | 19 964 | 23 436 | - | 2.4 | - |
| Guadeloupe | 89 | 16 530 | 62 310 | 33 532 | 28 778 | 3 718 | 3.8 | 0.2 |
| Martinique | 89 | 16 038 | 60 840 | 31 931 | 28 909 | 5 432 | 3.8 | 0.3 |
| Mexico | 91 | 4 437 863 | - | - | - | 427 337 | - | 0.1 |
| Puerto Rico | 87 | 20 245 | - | - | - | 13 283 | - | 0.7 |
| Saint Lucia | 86 | 11 551 | - | - | - | 4 963 | - | 0.4 |
| St. Vincent & Grenadines | 86 | 8 860 | 41 821 | 21 218 | 20 603 | - | 4.7 | - |
| SOUTH AMERICA [5] | | 3 994 056 | 17 589 916 | 9 235 687 | 8 354 229 | 222 093 | 4.4 | 0.1 |
| Argentina | 88 | 378 357 | 1 447 365 | 856 840 | 590 525 | - | 3.8 | - |
| Colombia | 88 | 1 547 846 | 6 521 346 | 3 455 125 | 3 066 221 | - | 4.2 | - |
| French Guiana | 89 | 4 491 | 18 781 | 9 819 | 8 962 | 613 | 4.2 | 0.1 |
| Paraguay (2) | 91 | 307 221 | 1 122 830 | 595 430 | 527 400 | 26 640 | 3.7 | 0.1 |
| Peru | 94 | 1 756 141 | 8 479 594 | 4 318 473 | 4 161 121 | 194 840 | 4.8 | 0.1 |

Table 3.5
Members of holder's household and hired permanent workers (cont'd)

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Total number of holdings | Persons who are members of holder's household | | | Hired permanent workers | Average per holding | |
|---|----------------|-----------------------------------|---|------------|------------|-------------------------------|-------------------------------------|-------------------------------|
| | | | Total | Male | Female | | Members of holder's household | Hired permanent workers |
| | | | | | | | | |
| ASIA [6] | | 17 426 031 | 155 837 999 | 80 268 403 | 75 569 596 | 871 361 | 8.9 | 0.1 |
| Cyprus | 85 | 48 046 | 174 231 | 88 956 | 85 275 | 1 676 | 3.6 | - |
| Korea, Rep. of | 90 | 1 768 501 | 6 661 322 | 3 278 764 | 3 382 558 | - | 3.8 | - |
| Myanmar | 93 | 2 924 898 | 15 876 566 | 7 906 835 | 7 969 731 | 382 772 | 5.4 | 0.1 |
| Nepal | 92 | 2 736 050 | 16 258 220 | 8 496 843 | 7 761 377 | - | 5.9 | - |
| Pakistan | 90 | 5 071 112 | 93 973 600 | 49 017 400 | 44 956 200 | 486 913 | 18.5 | 0.1 |
| Thailand | 88 | 4 877 424 | 22 894 060 | 11 479 605 | 11 414 455 | - | 4.7 | - |
| EUROPE [8] | | 4 780 600 | 14 656 662 | 6 346 403 | 5 876 559 | 125 737 | 3.1 | - |
| Albania | 95 | 444 300 | 2 433 700 | - | - | - | 5.5 | - |
| Austria | 90 | 273 210 | 1 056 978 | 539 860 | 517 118 | 21 258 | 3.9 | 0.1 |
| Denmark | 89 | 81 267 | - | - | - | 19 304 | - | 0.2 |
| Finland | 90 | 199 385 | 422 932 | 232 408 | 190 524 | - | 2.1 | - |
| Italy | 90 | 3 023 344 | 8 179 161 | 4 285 042 | 3 894 119 | 84 580 | 2.7 | - |
| Luxembourg | 90 | 3 803 | 14 593 | 7 673 | 6 920 | 595 | 3.8 | 0.2 |
| Portugal | 89 | 598 742 | 1 974 808 | 995 482 | 979 326 | - | 3.3 | - |
| Slovenia | 91 | 156 549 | 574 490 | 285 938 | 288 552 | - | 3.7 | - |
| OCEANIA [5] | | 119 442 | 665 735 | 351 533 | 314 202 | 891 | 5.6 | 0.1 |
| Cook Islands | 88 | 2 188 | 11 887 | 6 169 | 5 718 | - | 5.4 | - |
| Fiji | 91 | 95 400 | 469 797 | 248 732 | 221 065 | - | 4.9 | - |
| New Caledonia | 91 | 10 302 | 47 824 | 25 413 | 22 411 | 891 | 4.6 | 0.1 |
| Niue | 89 | 453 | 446 | 392 | 54 | - | 1.0 | - |
| Western Samoa | 89 | 11 099 | 135 781 | 70 827 | 64 954 | - | 12.2 | - |

(1) Excluding Commercial Sector.

(2) Excluding 475 894 holder's household members under 10 years of age.

Table 3.6
Area of holdings classified by land use groups (Area: in hectares)

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Total area of country | Total area of holdings | Agricultural land | | | | | Wood or forest land | All other land | |
|--|----------------|--------------------------|---------------------------|-------------------|---------------|-------------|---|-------------------------------|---------------------------|----------------------|---|
| | | | | total | Cropland | | Land under permanent meadows and pastures | Land under permanent crops | | | Land under permanent meadows and pastures |
| | | | | | Arable land | Arable land | | | | | |
| TOTAL [74] | | 5 519 772 107 | 1 117 985 111 | 626 130 292 | 173 991 077 | 25 556 939 | 444 927 514 | 147 538 794 | 577 928 963 | | |
| AFRICA [14] | | 759 204 000 | 29 667 264 | 28 300 403 | 5 532 622 | 654 384 | 301 816 | 6 174 | 1 058 881 | | |
| Botswana | 93 | 58 173 000 | 322 200 | 278 617 (1) | - | - | - | - | 43 583 | | |
| Burkina Faso | 93 | 27 400 000 | 3 472 480 | 3 472 480 (1) | - | - | - | - | - | | |
| Cape Verde | 88 | 403 000 | 41 383 | 41 393 (1) | - | - | - | - | - | | |
| Congo, Dem. Rep. of | 90 | 234 486 000 | 2 387 700 | 2 387 700 (1) | - | - | - | - | - | | |
| Lesotho | 89/90 | 3 035 000 | 331 000 | 331 000 (1) | - | - | - | - | - | | |
| Ethiopia | 89 | 110 076 000 | 4 871 020 | 4 871 020 (1) | 4 612 510 (2) | 258 510 | - | - | - | | |
| Guinea | 89 | 24 566 000 | 727 544 | 727 544 (1) | - | - | - | - | - | | |
| Guinea Bissau | 88 | 3 612 000 | 96 375 | 96 375 (1) | - | - | - | - | - | | |
| Lesotho | 89/90 | 3 035 000 | 331 000 | 331 000 (1) | - | - | - | - | - | | |
| Libya | 87 | 175 954 000 | 2 495 906 | 1 527 020 | 880 092 | 354 411 | 292 517 | - | 968 886 | | |
| Reunion | 89 | 251 000 | 67 154 | 49 415 | 37 910 | 2 206 | 9 299 | 6 174 | 11 565 | | |
| Sao Tome & Principe | 89 | 96 000 | 76 214 | 41 367 | 2 110 | 39 257 | - | - | 34 847 | | |
| Tanzania | 94/95 | 94 509 000 | 10 764 000 | 10 764 000 (1) | - | - | - | - | - | | |
| Uganda | 91 | 23 588 000 | 3 683 288 | 3 683 288 (1) | - | - | - | - | - | | |
| NORTH AND CENTRAL AMERICA [16] | | 2 196 020 000 | 573 571 502 | 494 369 856 | 1 071 124 | 586 521 | 236 533 173 | 43 062 075 | 36 139 571 | | |
| Bahamas | 94 | 1 388 000 | 20 336 | 13 986 | 7 838 | 3 919 | 2 229 | 5 749 | 601 | | |
| Barbados | 89 | 43 000 | 21 560 | 18 906 | 16 453 | 525 | 1 928 | 138 | 2 516 | | |
| Canada | 91 | 997 614 000 | 67 753 700 | 45 569 948 | - | - | - | - | 22 183 752 | | |
| Dominica | 95 | 75 000 | 21 146 | 14 763 | 1 172 | 11 876 | 1 715 | 5 991 | 392 | | |
| Grenada | 95 | 34 000 | 14 164 | 10 644 | 728 | 9 025 | 891 | 2 954 | 566 | | |
| Guadeloupe | 89 | 171 000 | 53 559 | 46 740 | 22 312 | 8 195 | 16 233 | 2 516 | 4 303 | | |
| Honduras | 93 | 11 209 000 | 3 637 469 | 2 430 490 | 503 371 | 364 622 | 1 562 497 | 1 131 748 | 75 231 | | |
| Martinique | 89 | 110 000 | 50 192 | 37 173 | 8 222 | 9 890 | 19 061 | 4 485 | 8 534 | | |
| Mexico | 91 | 195 820 000 | 108 346 084 (3) | 98 337 044 | - | - | 67 232 593 | 8 793 066 | 1 215 974 | | |
| Panama | 90 | 7 552 000 | 2 941 583 | 2 124 983 | 499 311 | 155 113 | 1 470 559 | 709 896 | 106 704 | | |
| Puerto Rico | 87 | 890 000 | 348 530 | 259 128 | - | - | 161 714 | 66 467 | 22 935 | | |
| Saint Lucia | 86 | 62 000 | 23 478 | 19 768 | 3 300 | 15 851 | 617 | 3 368 | 342 | | |
| St. Kitts & Nevis | 87 | 36 000 | 8 870 | 7 430 | 4 802 | 1 004 | 1 624 | 966 | 474 | | |
| St. Vincent & Grenadines | 88 | 39 000 | 12 017 | 10 116 | 3 615 | 6 501 | - | 1 484 | 417 | | |
| U.S.A. | 87 | 980 943 000 | 390 311 617 | 345 462 550 | - | - | 166 056 094 | 32 332 504 | 12 516 563 | | |
| Virgin Islands (U.S.) | 87 | 34 000 | 7 197 | 6 187 | - | - | 5 419 | 743 | 267 | | |
| SOUTH AMERICA [6] | | 586 518 000 | 288 994 014 | 181 563 279 | 32 381 151 | 4 546 401 | 144 635 727 | 59 821 541 | 47 009 194 | | |
| Argentina | 88 | 276 689 000 | 177 437 398 | 120 893 990 | 19 881 257 | 1 024 720 | 99 988 013 | 37 732 552 | 18 810 856 | | |
| Colombia | 88 | 113 891 000 | 36 033 713 | 22 775 871 | 2 795 047 | 2 504 498 | 17 476 326 | 5 040 596 | 8 217 246 | | |
| French Guiana | 89 | 9 000 000 | 41 553 | 20 642 | 9 172 | 2 708 | 8 762 | 97 | 20 814 | | |
| Paraguay | 86 | 40 675 000 | 23 817 737 | 14 807 229 | 4 465 902 | 85 171 | 10 256 156 | 7 818 423 | 1 192 085 | | |
| Peru | 94 | 128 522 000 | 35 381 809 | 22 383 447 | 4 592 432 | 884 545 | 16 906 470 | 9 053 705 | 3 944 657 | | |
| Uruguay | 90 | 17 741 000 | 15 681 804 | 682 100 | 637 341 | 44 759 | - | 176 168 | 14 823 536 | | |

Table 3.6
Area of holdings classified by land use groups (Area: in hectares) (cont'd)

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Total area of country | Total area of holdings | Agricultural land | | | | | Wood or forest land | All other land |
|--|----------------|--------------------------|---------------------------|-------------------|----------------|-------------------------------|---|---------------------------|---------------------------|----------------------|
| | | | | total | Cropland | | Land under permanent meadows and pastures | Wood or forest land | | |
| | | | | | Arable land | Land under permanent crops | | | | |
| ASIA [11] | | 862 771 000 | 268 523 442 | 247 613 778 | 245 686 985 | 67 907 846 | 10 302 213 | 1 926 793 | 1 057 067 | 19 852 597 |
| Cyprus | 85 | 925 000 | 178 058 | 129 518 | 125 049 | 82 904 | 42 145 | 4 469 | 4 871 | 43 669 |
| India | 86 | 328 759 000 | 164 562 000 | 150 022 000 | 150 022 000 | - | - | - | - | 14 540 000 |
| Iran | 88 | 164 800 000 | 16 872 000 | 16 872 000 | 16 872 000 | 15 660 000 | 1 212 000 | - | - | 278 000 |
| Japan | 90 | 37 780 000 | 5 243 000 (4) | 5 243 000 | 4 596 000 | 4 121 000 | 475 000 | 647 000 | - | - |
| Korea, Rep. of | 90 | 9 902 000 | 1 857 491 (4) | 1 857 491 | 1 823 380 | - | - | 34 111 | - | - |
| Myanmar | 93 | 67 658 000 | 6 791 359 (5) | 6 772 027 (6) | 6 772 027 | 6 545 246 | 226 781 | - | - | 19 332 |
| Nepal | 92 | 14 080 000 | 2 598 971 | 2 390 648 | 2 353 716 | 2 324 330 | 29 386 | 36 932 | - | 99 478 |
| Pakistan | 90 | 79 610 000 | 19 252 672 | 15 631 547 | 15 631 547 | - | - | - | 304 380 | 3 316 745 |
| Philippines | 91 | 30 000 000 | 9 974 871 | 9 790 440 | 9 659 497 | 5 486 957 | 4 172 540 | 130 943 | 108 845 | 114 287 |
| Thailand | 88 | 51 312 000 | 17 463 921 | 16 533 531 | 16 382 287 (1) | 14 177 986 (2) | 2 204 301 | 151 244 | 372 004 | 558 386 |
| Turkey | 91 | 77 945 000 | 23 451 099 | 22 371 576 | 21 449 482 | 19 509 423 | 1 940 059 | 922 094 | 196 823 | 882 700 |
| EUROPE [17] | | 312 662 407 | 198 257 279 | 133 046 056 | 84 039 320 | 67 022 146 | 9 277 290 | 47 649 370 | 42 141 809 | 23 069 414 |
| Austria | 90 | 8 385 000 | 7 217 498 | 3 406 082 | 1 502 723 | - | - | 1 903 359 | 3 061 962 | 749 454 |
| Belgium | 90 | 3 051 800 | 1 400 364 | 1 357 366 | - | - | - | - | 6 730 | 36 268 |
| Czechoslovakia (former) | 90 | 12 790 007 | 12 790 007 | 6 736 128 | 5 095 339 | 4 964 193 | 131 146 | 1 640 789 | 4 618 473 | 1 435 406 |
| Denmark | 89 | 4 309 000 | 3 069 430 | 2 774 127 | 2 555 043 | - | - | 219 084 | - | 295 303 |
| Finland | 90 | 33 813 000 | 12 338 439 | 2 666 452 | 2 544 192 | - | - | 122 260 | 7 151 684 | 2 520 303 |
| France | 88 | 55 150 000 | 31 985 606 | 28 595 799 | 18 381 713 | 17 201 088 | 1 180 625 | 10 214 086 | 2 188 206 | 1 201 601 |
| Ireland | 91 | 7 028 000 | 4 441 755 (4) | 4 441 755 | 601 525 | 599 963 | 1 562 | 3 840 230 | - | - |
| Italy | 90 | 30 127 000 | 22 702 356 | 15 045 899 | 10 917 091 | 8 129 732 | 2 787 359 | 4 128 808 | 5 615 538 | 2 040 919 |
| Luxembourg | 90 | 258 600 | 137 653 | 126 298 | 57 471 | 56 031 | 1 440 | 68 827 | 10 272 | 1 083 |
| Netherlands | 89 | 3 733 000 | 2 163 472 | 1 873 733 | 795 822 | - | - | 1 077 911 | - | 289 739 |
| Norway | 89 | 32 390 000 | 9 917 771 (4) | 9 917 771 | 877 171 | 871 392 | 5 779 | 113 906 | - | - |
| Poland | 90 | 31 268 000 | 31 268 000 | 18 719 800 | 14 659 600 | 14 387 800 | 271 800 | 4 060 200 | 8 754 000 | 3 794 200 |
| Portugal | 89 | 9 239 000 | 5 316 161 | 4 005 594 | 3 135 152 | 2 345 700 | 789 452 | 870 442 | 978 314 | 332 253 |
| Slovenia | 91 | 2 025 000 | 912 013 | 487 247 | 199 627 | 173 918 | 25 709 | 287 620 | 378 928 | 45 838 |
| Spain | 89 | 50 478 000 | 42 939 208 | 24 740 543 | 16 247 747 | 12 165 329 | 4 082 418 | 8 492 796 | 9 246 692 | 8 951 973 |
| Switzerland | 90 | 4 129 000 | 1 283 240 | 1 131 156 | 342 104 (1) | - | - | 789 052 | 131 010 | 21 074 |
| United Kingdom | 93 | 24 488 000 | 17 301 000 | 15 947 000 | 6 127 000 | 6 127 000 | - | 9 820 000 | - | 1 354 000 |
| OCEANIA [10] | | 802 596 700 | 485 039 367 | 32 789 933 | 18 909 299 | 76 188 | 190 130 | 13 880 635 | 1 450 128 | 450 799 306 |
| American Samoa | 87 | 20 000 | 2 349 | 1 817 | 1 680 | - | - | 137 | - | 532 |
| Australia | 90 | 771 336 000 | 466 561 000 | 18 130 000 (1) | 18 130 000 (1) | - | - | - | - | 448 431 000 |
| Fiji | 91 | 1 827 000 | 591 407 | 424 685 | 251 279 | 67 157 | 184 122 | 173 406 | 112 697 | 54 025 |
| Guam | 87 | 55 000 | 5 315 | 2 508 | 939 | - | - | 1 569 | - | 2 807 |
| New Caledonia | 91 | 1 858 000 | 313 769 | 228 969 | 15 039 | 9 031 | 6 008 | 213 930 | 33 191 | 51 609 |
| New Zealand | 90 | 27 099 000 | 17 489 398 | 13 945 269 | 455 441 | - | - | 13 489 828 | 1 304 240 | 2 239 889 |
| Niue | 89 | 26 000 | 2 760 | 635 | 635 (1) | - | - | - | - | 2 125 |
| Northern Mariana Islands | 87 | 47 700 | 5 836 | 3 684 | 1 919 | - | - | 1 765 | - | 2 152 |
| Palau | 89 | 44 000 | 158 | 130 (1) | 130 (1) | - | - | - | - | 28 |
| Western Samoa | 89 | 284 000 | 67 375 | 52 236 | 52 236 (1) | - | - | - | - | 15 139 |

(1) Data refer to land under crops. (2) Data refer to land under temporary crops. (3) Data refer to Rural Production Units only. (4) Data refer to agricultural land. (5) Excluding 95 597 Ha belonging to "special holdings". (6) Data refer to cropland.

Table 3.7**Wheat: number of holdings reporting and area**

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Total number of holdings | Wheat | | | |
|---|----------------|--------------------------------|--------------------|---------------------|-------------|-------------------------------------|
| | | | Holdings reporting | | Area (Ha) | |
| | | | Number | Percent of total | Total | Average per holding reporting |
| TOTAL [37] | | 157 402 412 | 36 540 032 | 27.2 | 114 023 809 | 2.9 |
| AFRICA [5] | | 14 302 488 | 1 791 | 0.3 | 639 525 | 8.7 |
| Congo, Dem. rep. of | 90 | 4 479 600 | - | - | 2 800 | - |
| Ethiopia | 89/92 | 6 091 840 | - | - | 497 270 | - |
| Lesotho | 89/90 | 3 035 000 | - | - | 15 100 | - |
| Libya | 87 | 175 528 | - | - | 108 778 | - |
| Zambia | 90 | 520 520 | 1 791 | 0.3 | 15 577 | 8.7 |
| NORTH AND CENTRAL AMERICA [3] | | 6 805 665 | 571 421 | 8.4 | 36 661 281 | 64.1 |
| Canada | 91 | 280 043 | 105 805 | 37.8 | 14 163 143 | 133.9 |
| Mexico | 91 | 4 437 863 | 113 379 | 2.6 | 958 847 | 8.5 |
| U.S.A. | 87 | 2 087 759 | 352 237 | 16.9 | 21 539 291 | 61.1 |
| SOUTH AMERICA [2] | | 685 578 | 49 820 | 7.3 | 4 117 532 | 82.6 |
| Argentina | 88 | 378 357 | 45 881 | 12.1 | 3 963 695 | 86.4 |
| Paraguay | 91 | 307 221 | 3 939 | 1.3 | 153 837 | 39.1 |
| ASIA [8] | | 119 175 890 | 34 792 381 | 29.2 | 46 861 700 | 1.3 |
| Cyprus | 85 | 48 046 | 3 193 | 6.6 | 3 802 | 1.2 |
| India | 86 | 97 155 000 | 24 020 000 | 24.7 | 23 680 000 | 1.0 |
| Iran (1) | 88 | 3 326 000 | 1 763 000 | 53.0 | 5 337 647 | 3.0 |
| Japan (2) | 90 | 3 846 352 | 297 655 | 7.7 | 244 357 | 0.8 |
| Myanmar | 93 | 2 924 898 | 92 675 | 3.2 | 142 625 | 1.5 |
| Nepal | 92 | 2 736 050 | 1 636 465 | 59.8 | 633 074 | 0.4 |
| Pakistan | 90 | 5 071 112 | 4 182 820 | 82.5 | 8 168 657 | 2.0 |
| Turkey | 91 | 4 068 432 | 2 796 573 | 68.7 | 8 651 538 | 3.1 |
| EUROPE [17] | | 16 222 347 | 1 091 669 | 15.6 | 16 699 121 | 8.9 |
| Albania | 95 | 2 875 000 | 248 200 | 8.6 | 114 100 | 0.5 |
| Austria | 90 | 273 210 | - | - | 278 640 | - |
| Belgium | 90 | 87 180 | 29 553 | 33.9 | 205 050 | 6.9 |
| Czechoslovakia (former) | 90 | 1 245 889 | - | - | 1 238 887 | - |
| Denmark | 89 | 81 267 | 40 029 | 49.3 | 444 503 | 11.1 |
| Finland | 90 | 199 385 | 20 828 | 10.4 | 190 477 | 9.1 |
| France (3) | 88 | 1 016 755 | 439 148 | 43.2 | 4 667 531 | 10.6 |
| Ireland | 91 | 170 578 | - | - | 85 652 | - |
| Italy | 90 | 3 023 344 | - | - | 2 612 181 | - |
| Luxembourg | 90 | 3 803 | - | - | 8 625 | - |
| Netherlands | 90 | 127 367 | 14 747 | 11.6 | 139 628 | 9.5 |
| Norway | 89 | 99 382 | 5 779 | 5.8 | 38 248 | 6.6 |
| Poland | 90 | 3 783 000 | - | - | 2 280 700 | - |
| Portugal | 89 | 598 742 | - | - | 319 330 | - |
| Spain | 89 | 2 284 944 | 249 001 | 10.9 | 2 219 384 | 8.9 |
| Switzerland | 90 | 108 296 | - | - | 97 185 | - |
| United Kingdom | 93 | 244 205 | 44 384 | 18.2 | 1 759 000 | 39.6 |
| OCEANIA [2] | | 210 444 | 32 950 | 15.6 | 9 044 650 | 274.5 |
| Australia | 90 | 129 540 | 30 932 | 23.9 | 9 004 000 | 291.1 |
| New Zealand | 90 | 80 904 | 2 018 | 2.5 | 40 650 | 20.1 |

(1) Data on number of holdings reporting wheat refer to 1987.

(2) Data refer to 2 971 000 commercial households only.

(3) Data on number of holdings reporting wheat refer to holdings reporting soft wheat.

Table 3.8**Rice: number of holdings reporting and area**

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Total number of holdings | Rice | | | |
|---|----------------|--------------------------------|--------------------|---------------------|------------|-------------------------------------|
| | | | Holdings reporting | | Area (Ha) | |
| | | | Number | Percent of total | Total | Average per holding reporting |
| TOTAL [27] | | 152 377 304 | 59 984 714 | 41.2 | 70 607 167 | 1.2 |
| AFRICA [7] | | 10 682 599 | 679 179 | 15.5 | 848 761 | 0.4 |
| Benin | 92 | 408 020 | - | - | 7 777 | - |
| Burkina Faso | 93 | 886 638 | - | - | 26 947 | - |
| Congo, Dem. Rep. of | 90 | 4 479 600 | - | - | 167 600 | - |
| Guinea | 89 | 431 277 | - | - | 312 805 | - |
| Guinea Bissau | 88 | 84 221 | - | - | 43 821 | - |
| Tanzania | 94/95 | 3 872 323 | 657 870 | 17.0 | 274 428 | 0.4 |
| Zambia | 90 | 520 520 | 21 309 | 4.1 | 15 383 | 0.7 |
| NORTH AND CENTRAL AMERICA [5] | | 7 085 512 | 119 399 | 1.7 | 1 208 210 | 10.1 |
| Honduras | 93 | 325 750 | 19 929 | 6.1 | 20 612 | 1.0 |
| Mexico | 91 | 4 437 863 | 21 480 | 0.5 | 96 608 | 4.5 |
| Panama | 90 | 213 895 | 65 977 | 30.8 | 109 320 | 1.7 |
| Puerto Rico | 87 | 20 245 | - | - | 352 | - |
| U.S.A. | 87 | 2 087 759 | 12 013 | 0.6 | 981 318 | 81.7 |
| SOUTH AMERICA [1] | | 378 357 | - | - | 97 413 | - |
| Argentina | 88 | 378 357 | - | - | 97 413 | - |
| ASIA [10] | | 130 383 810 | 59 171 678 | 45.4 | 68 098 000 | 1.1 |
| India | 86 | 97 155 000 | 43 388 000 | 44.7 | 42 226 000 | 1.0 |
| Iran (1) | 88 | 3 326 000 | 433 000 | 13.0 | 436 122 | 1.0 |
| Japan | 90 | 3 846 352 | 2 573 859 | 66.9 | 1 849 128 | 0.7 |
| Korea, Rep. of | 90 | 1 768 501 | 1 505 549 | 85.1 | 1 186 232 | 0.8 |
| Myanmar | 93 | 2 924 898 | 1 858 944 | 63.6 | 4 226 426 | 2.3 |
| Nepal (2) | 92 | 2 736 050 | 1 906 935 | 69.7 | 1 481 256 | 0.8 |
| Pakistan | 90 | 5 071 112 | 1 354 766 | 26.7 | 2 420 562 | 1.8 |
| Philippines | 91 | 4 610 041 | 2 367 084 | 51.3 | 4 009 128 | 1.7 |
| Thailand | 88 | 4 877 424 | 3 754 361 | 77.0 | 10 225 132 | 2.7 |
| Turkey | 91 | 4 068 432 | 29 180 | 0.7 | 38 014 | 1.3 |
| EUROPE [2] | | 3 622 086 | 13 155 | 0.4 | 240 141 | 18.2 |
| Italy | 90 | 3 023 344 | 7 657 | 0.3 | 205 918 | 26.9 |
| Portugal | 89 | 598 742 | 5 498 | 0.9 | 34 223 | 6.2 |
| OCEANIA [2] | | 224 940 | 1 303 | 1.0 | 114 642 | 80.6 |
| Australia | 90 | 129 540 | 1 303 | 1.0 | 105 000 | 80.6 |
| Fiji | 91 | 95 400 | - | - | 9 642 | - |

(1) Data on number of holdings reporting rice refer to 1987.

(2) Data on holdings reporting rice refer to holdings reporting main paddy.

Table 3.9**Maize: number of holdings reporting and area**

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Total number of holdings | Maize | | | |
|---|----------------|--------------------------------|--------------------|---------------------|------------|-------------------------------------|
| | | | Holdings reporting | | Area (Ha) | Average per holding reporting |
| | | | Number | Percent of total | | |
| TOTAL [53] | | 164 735 591 | 25 427 914 | 17.6 | 62 140 629 | 2.3 |
| AFRICA [12] | | 18 883 639 | 2 701 917 | 59.1 | 4 412 415 | 0.7 |
| Benin | 92 | 408 020 | - | - | 480 221 | - |
| Botswana | 93 | 101 434 | 43 258 | 42.6 | 23 384 | 0.5 |
| Burkina Faso | 93 | 886 638 | - | - | 282 153 | - |
| Congo, Dem. Rep. of | 90 | 4 479 600 | - | - | 397 000 | - |
| Ethiopia | 89/92 | 6 091 840 | - | - | 722 790 | - |
| Guinea | 89 | 431 277 | - | - | 87 404 | - |
| Guinea Bissau | 88 | 84 221 | - | - | 5 827 | - |
| Lesotho | 89/90 | 229 300 | - | - | 147 300 | - |
| Swaziland | 93 | 73 745 | 62 328 | 84.5 | - | - |
| Tanzania | 94/95 | 3 872 323 | 2 216 547 | 57.2 | 1 368 246 | 0.6 |
| Uganda | 91 | 1 704 721 | - | - | 267 484 | - |
| Zambia | 90 | 520 520 | 379 784 | 73.0 | 630 606 | 1.7 |
| NORTH AND CENTRAL AMERICA [12] | | 7 415 327 | 3 750 491 | 51.0 | 36 973 063 | 9.9 |
| Bahamas | 94 | 1 760 | 574 | 32.6 | 174 | 0.3 |
| Barbados | 89 | 17 178 | - | - | 96 | - |
| Canada | 91 | 280 043 | 27 819 | 9.9 | 2 732 235 | 98.2 |
| Grenada | 95 | 18 277 | - | - | 13 | - |
| Honduras | 93 | 325 750 | 268 152 | 82.3 | 358 334 | 1.3 |
| Mexico | 91 | 4 437 863 | 2 752 020 | 62.0 | 7 705 165 | 2.8 |
| Panama | 90 | 213 895 | 73 605 | 34.4 | 79 396 | 1.1 |
| Puerto Rico | 87 | 20 245 | - | - | 334 | - |
| St. Kitts & Nevis | 87 | 3 430 | - | - | 33 | - |
| St. Vincent & Grenadines | 86 | 8 860 | 719 | 8.1 | 93 | 0.1 |
| U.S.A. (1) | 87 | 2 087 759 | 627 602 | 30.1 | 26 097 189 | 41.6 |
| Virgin Islands (US) | 87 | 267 | - | - | 1 | - |
| SOUTH AMERICA [2] | | 685 578 | 307 843 | 44.9 | 2 645 556 | 8.6 |
| Argentina | 88 | 378 357 | 96 151 | 25.4 | 2 402 341 | 25.0 |
| Paraguay | 91 | 307 221 | 211 692 | 68.9 | 243 215 | 1.1 |
| ASIA [8] | | 124 768 957 | 17 228 456 | 13.8 | 12 050 827 | 0.7 |
| India | 86 | 97 155 000 | 11 395 000 | 11.7 | 5 736 000 | 0.5 |
| Iran (2) | 88 | 3 326 000 | 37 000 | 1.1 | 49 000 | 1.3 |
| Myanmar | 93 | 2 924 898 | 181 922 | 6.2 | 177 580 | 1.0 |
| Nepal (3) | 92 | 2 736 050 | 1 716 993 | 62.8 | 768 743 | 0.4 |
| Pakistan | 90 | 5 071 112 | 1 067 098 | 21.0 | 823 993 | 0.8 |
| Philippines | 91 | 4 610 041 | 1 771 618 | 38.4 | 2 737 131 | 1.5 |
| Thailand | 88 | 4 877 424 | 558 993 | 11.5 | 1 458 194 | 2.6 |
| Turkey | 91 | 4 068 432 | 499 832 | 12.3 | 300 186 | 0.6 |
| EUROPE [11] | | 12 642 293 | 1 420 743 | 20.6 | 5 987 708 | 3.6 |
| Albania | 95 | 444 300 | 340 000 | 76.5 | 99 600 | 0.3 |
| Austria | 90 | 273 210 | - | - | 305 621 | - |
| Belgium | 90 | 87 180 | - | - | 7 329 | - |
| Czechoslovakia (former) | 90 | 1 245 889 | - | - | 134 796 | - |
| France (4) | 88 | 1 016 755 | 257 833 | 25.3 | 3 464 737 | 1.4 |
| Italy | 90 | 3 023 344 | 473 195 | 15.7 | 877 728 | 1.9 |
| Luxembourg | 90 | 3 803 | - | - | 7 473 | - |
| Netherlands | 90 | 127 367 | 43 170 | 33.9 | 202 691 | 4.7 |
| Poland | 90 | 3 783 000 | - | - | 383 300 | - |
| Spain | 89 | 2 284 944 | 306 545 | 13.4 | 404 166 | 1.3 |
| Switzerland | 90 | 108 296 | - | - | 27 367 | - |
| United Kingdom | 93 | 244 205 | - | - | 72 900 | - |
| OCEANIA [8] | | 339 797 | 18 464 | 7.9 | 71 060 | 31.9 |
| American Samoa | 90 | 384 | - | - | 2 | - |
| Australia | 90 | 129 540 | 1 229 | 0.9 | 52 000 | 42.3 |
| Fiji | 91 | 95 400 | - | - | 1 483 | - |
| Guam | 87 | 351 | - | - | 12 | - |
| New Zealand | 90 | 80 904 | 951 | 1.2 | 17 556 | 18.5 |
| Northern Mariana Isl. | 90 | 119 | - | - | 2 | - |
| Vanuatu | 93 | 22 000 | 16 284 | 74.0 | - | - |
| Western Samoa | 89 | 11 099 | - | - | 5 | - |

(1) Data on holdings reporting maize refer to holdings reporting maize for grain.

(2) Data on holdings reporting maize refer to 1987.

(3) Data on holdings reporting maize refer to holdings reporting Summer Maize.

(4) Data on holdings reporting maize refer to holdings reporting maize for grain.

Table 3.10
Number of holdings reporting and number of head of Cattle

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Total number of holdings | Cattle | | | |
|---|----------------|--------------------------------|--------------------|---------------------|----------------|-------------------------------------|
| | | | Holdings reporting | | Number of head | |
| | | | Number | Percent of total | Total | Average per holding reporting |
| TOTAL [77] | | 77 808 634 | 21 379 805 | 42.7 | 449 696 495 | 18.6 |
| AFRICA [16] | | 18 713 495 | 2 111 816 | 28.4 | 54 225 495 | 14.0 |
| Botswana | 93 | 101 434 | 54 349 | 53.6 | 1 820 400 | 33.5 |
| Burkina Faso | 93 | 886 638 | 266 270 | 30.0 | 2 507 317 | 9.4 |
| Cape Verde | 88 | 32 193 | 9 246 | 28.7 | 17 996 | 1.9 |
| Congo, Dem. Rep. of | 90 | 4 479 600 | - | - | 1 225 700 | - |
| Djibouti | 95 | 1 135 | 159 | 14.0 | - | - |
| Ethiopia | 89/92 | 6 091 840 | - | - | 22 032 800 | - |
| Guinea | 89 | 431 277 | - | - | 1 011 873 | - |
| Guinea Bissau | 88 | 84 221 | - | - | 236 355 | - |
| Lesotho | 89/90 | 229 300 | 125 000 | 54.5 | 523 000 | 4.2 |
| Libya | 87 | 175 528 | - | - | 97 629 | - |
| Reunion | 89 | 15 198 | 3 069 | 20.2 | 18 601 | 6.1 |
| Sao Tome & Principe | 90 | 13 822 | - | - | 232 | - |
| Swaziland | 93 | 73 745 | 36 659 | 49.7 | 551 167 | 15.0 |
| Tanzania | 94/95 | 3 872 323 | 1 139 321 | 29.4 | 15 644 802 | 13.7 |
| Uganda | 91 | 1 704 721 | 341 075 | 20.0 | 3 356 609 | 9.8 |
| Zambia | 90 | 520 520 | 136 668 | 26.3 | 5 181 014 | 37.9 |
| NORTH AND CENTRAL AMERICA [16] | | 7 468 472 | 2 944 478 | 39.6 | 137 344 676 | 46.6 |
| Bahamas | 94 | 1 760 | 34 | 1.9 | 769 | 22.6 |
| Barbados | 89 | 17 178 | - | - | 12 587 | - |
| Canada | 91 | 280 043 | 145 747 | 52.0 | 12 972 038 | 89.0 |
| Dominica | 95 | 9 026 | 1 017 | 11.3 | 3 305 | 3.2 |
| Grenada | 95 | 18 277 | 1 800 | 9.8 | 4 400 | 2.4 |
| Guadeloupe | 89 | 16 530 | 10 135 | 61.3 | 65 302 | 6.4 |
| Honduras | 93 | 325 750 | 99 911 | 30.7 | 2 077 460 | 20.8 |
| Martinique | 89 | 16 038 | 7 420 | 46.3 | 35 467 | 4.8 |
| Mexico | 91 | 4 437 863 | 1 453 245 | 32.7 | 24 611 862 | 16.9 |
| Panama | 90 | 213 895 | 39 172 | 18.3 | 1 399 487 | 35.7 |
| Puerto Rico | 87 | 20 245 | 7 218 | 35.7 | 293 244 | 40.6 |
| Saint Lucia | 86 | 11 551 | - | - | 8 500 | - |
| St. Kitts & Nevis | 87 | 3 430 | 688 | 20.1 | 3 510 | 5.1 |
| St. Vincent & Grenadines | 86 | 8 860 | 1 650 | 18.6 | 4 368 | 2.6 |
| U.S.A. | 87 | 2 087 759 | 1 176 346 | 56.3 | 95 847 299 | 81.5 |
| Virgin Islands (US) | 87 | 267 | 95 | 35.6 | 5 078 | 53.5 |
| SOUTH AMERICA [6] | | 4 048 875 | 1 326 632 | 54.2 | 86 109 453 | 44.6 |
| Argentina | 88 | 378 357 | 249 984 | 66.1 | 47 075 156 | 188.3 |
| Colombia | 88 | 1 547 846 | - | - | 18 759 688 | - |
| French Guiana | 89 | 4 491 | 341 | 7.6 | 15 662 | 45.9 |
| Paraguay | 91 | 307 221 | 229 478 | 74.7 | 7 626 617 | 33.2 |
| Peru | 94 | 1 756 141 | 846 829 | 48.2 | 4 495 263 | 5.3 |
| Uruguay | 90 | 54 819 | - | - | 8 137 067 | - |
| ASIA [10] | | 33 276 856 | 9 862 665 | 48.7 | 53 111 624 | 3.7 |
| Cyprus | 85 | 48 046 | 1 607 | 3.3 | 40 604 | 25.3 |
| Iran | 88 | 3 326 000 | - | - | 6 368 000 | - |
| Japan | 90 | 3 846 352 | - | - | 4 682 000 | - |
| Korea, Rep. of | 90 | 1 768 501 | - | - | 2 109 541 | - |
| Myanmar | 93 | 2 924 898 | 2 032 756 | 69.5 | - | - |
| Nepal | 92 | 2 736 050 | 2 067 141 | 75.6 | 7 359 326 | 3.6 |
| Pakistan | 90 | 5 071 112 | 4 039 765 | 79.7 | 14 717 837 | 3.6 |
| Philippines | 91 | 4 610 041 | 899 353 | 19.5 | 1 991 022 | 2.2 |
| Thailand | 88 | 4 877 424 | 822 043 | 16.9 | 4 798 872 | 5.8 |
| Turkey | 91 | 4 068 432 | - | - | 11 044 422 | - |

Table 3.10
Number of holdings reporting and number of head of Cattle (cont'd)

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Total number of holdings | Cattle | | | |
|---|----------------|--------------------------------|--------------------|---------------------|----------------|-------------------------------------|
| | | | Holdings reporting | | Number of head | |
| | | | Number | Percent of total | Total | Average per holding reporting |
| EUROPE [18] | | 13 948 196 | 4 954 827 | 40.7 | 87 173 634 | 14.8 |
| Albania | 95 | 444 300 | 374 700 | 84.3 | 862 700 | 2.3 |
| Austria | 90 | 273 210 | 139 951 | 51.2 | 2 538 766 | 18.1 |
| Belgium | 90 | 87 180 | 58 205 | 66.8 | 3 248 780 | 55.8 |
| Czechoslovakia (former) | 90 | 1 245 889 | - | - | 4 923 046 | - |
| Denmark | 89 | 81 267 | 37 130 | 45.7 | 2 221 485 | 59.8 |
| Finland | 90 | 199 385 | - | - | 1 359 705 | - |
| France | 88 | 1 016 755 | 503 659 | 49.5 | 21 217 251 | 42.1 |
| Ireland | 91 | 170 578 | - | - | 6 912 000 | - |
| Italy | 90 | 3 023 344 | 319 566 | 10.6 | 7 673 484 | 24.0 |
| Luxembourg | 90 | 3 803 | - | - | 217 451 | - |
| Netherlands | 90 | 127 367 | 66 380 | 52.1 | 4 771 641 | 71.9 |
| Norway | 89 | 99 382 | 37 584 | 37.8 | 949 369 | 25.3 |
| Poland | 90 | 3 783 000 | 2 667 015 | 70.5 | 10 048 929 | 3.8 |
| Portugal | 89 | 598 742 | 219 550 | 36.7 | 1 401 206 | 6.4 |
| Slovenia | 91 | 156 549 | - | - | 410 965 | - |
| Spain | 89 | 2 284 944 | 328 130 | 14.4 | 4 800 129 | 14.6 |
| Switzerland | 90 | 108 296 | 66 249 | 61.2 | 1 865 727 | 28.2 |
| United Kingdom | 93 | 244 205 | 136 708 | 56.0 | 11 751 000 | 86.0 |
| OCEANIA [11] | | 352 740 | 179 387 | 52.9 | 31 731 613 | 176.8 |
| American Samoa | 90 | 384 | 4 | 1.0 | 179 | 44.8 |
| Australia | 90 | 129 540 | 75 105 | 58.0 | 23 191 000 | 308.8 |
| Cook Islands | 88 | 2 188 | - | - | 246 | - |
| Fiji | 91 | 95 400 | 42 789 | 44.9 | 280 221 | 6.5 |
| Guam | 87 | 351 | 56 | 16.0 | 317 | 5.7 |
| New Caledonia | 91 | 10 302 | 2 125 | 20.6 | 125 461 | 59.0 |
| New Zealand | 90 | 80 904 | 49 852 | 61.6 | 8 033 976 | 161.1 |
| Niue | 89 | 453 | - | - | 129 | - |
| Northern Mariana Isl. | 90 | 119 | 36 | 30.3 | 4 513 | 125.4 |
| Vanuatu | 93 | 22 000 | 9 420 | 42.8 | 82 140 | 8.7 |
| Western Samoa | 89 | 11 099 | - | - | 13 431 | - |

Table 3.11
Number of holdings reporting and number of head of Buffaloes

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Total number of holdings | Buffaloes | | | |
|---|----------------|--------------------------------|--------------------|---------------------|----------------|-------------------------------------|
| | | | Holdings reporting | | Number of head | |
| | | | Number | Percent of total | Total | Average per holding reporting |
| TOTAL [8] | | 31 183 624 | 7 921 988 | 29.0 | 26 098 131 | 3.5 |
| AFRICA [1] | | 3 872 323 | - | - | 7 911 | - |
| Tanzania | 94/95 | 3 872 323 | - | - | 7 911 | - |
| ASIA [6] | | 24 287 957 | 7 919 854 | 32.6 | 26 004 645 | 3.5 |
| Myanmar | 93 | 2 924 898 | 443 255 | 15.2 | - | - |
| Nepal | 92 | 2 736 050 | 1 307 832 | 47.8 | 3 116 316 | 2.4 |
| Pakistan | 90 | 5 071 112 | 4 261 480 | 84.0 | 14 547 424 | 3.4 |
| Philippines | 91 | 4 610 041 | 1 810 937 | 39.3 | 2 766 405 | 1.5 |
| Thailand | 88 | 4 877 424 | 1 821 956 | 37.4 | 5 300 195 | 2.9 |
| Turkey | 91 | 4 068 432 | 85 331 | 2.1 | 274 305 | 3.2 |
| EUROPE [1] | | 3 023 344 | 2 134 | 0.1 | 85 575 | 40.1 |
| Italy | 90 | 3 023 344 | 2 134 | 0.1 | 85 575 | 40.1 |

Table 3.12
Number of holdings reporting and number of head of Sheep and Goats

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Sheep | | | Goats | | | | | |
|---|----------------|--------------------------------|--------------------|---------------------|-------------|-------------------------------------|------------|-------------------------------------|-------------|------|
| | | Total number of holdings | Holdings reporting | | Total | Number of head | | | | |
| | | | Number | Percent of total | | Average per holding reporting | Total | Average per holding reporting | | |
| TOTAL [72] | | 69 062 021 | 6 074 314 | 14.3 | 532 160 643 | 72.3 | 11 005 926 | 26.2 | 140 749 431 | 7.9 |
| AFRICA [16] | | 18 713 495 | 1 382 671 | 18.6 | 22 678 870 | 6.6 | 2 909 259 | 39.1 | 43 981 735 | 8.1 |
| Botswana | 93 | 101 434 | 19 214 | 18.9 | 250 100 | 13.0 | 79 189 | 78.1 | 1 837 700 | 23.2 |
| Burkina Faso | 93 | 386 638 | 410 811 | 46.3 | 3 216 628 | 7.8 | 594 326 | 67.0 | 4 604 671 | 7.7 |
| Cape Verde | 88 | 32 193 | 1 611 | 5.0 | 4 193 | 2.6 | 22 667 | 70.4 | 95 338 | 4.2 |
| Congo, Dem. Rep. of | 90 | 4 479 600 | - | - | 2 185 200 | - | - | - | 10 036 700 | - |
| Djibouti | 95 | 1 135 | 223 | 19.6 | - | - | 275 | 24.2 | - | - |
| Ethiopia | 89/92 | 6 091 840 | - | - | 9 629 010 | - | - | - | 5 095 170 | - |
| Guinea | 89 | 431 277 | - | - | 506 573 | - | - | - | 768 826 | - |
| Guinea Bissau | 88 | 84 221 | - | - | 90 608 | - | - | - | 222 952 | - |
| Lesotho | 89/90 | 229 300 | 196 900 | 85.9 | 1 377 000 | 7.0 | 60 100 | 26.2 | 994 000 | 16.5 |
| Libya | 87 | 175 528 | - | - | 1 172 201 | - | - | - | 4 364 546 | - |
| Reunion | 89 | 15 198 | 107 | 0.7 | 2 280 | 21.3 | 3 796 | 25.0 | 31 318 | 8.3 |
| Sao Tome & Principe | 90 | 13 822 | - | - | 1 172 | - | - | - | 22 905 | - |
| Swaziland | 93 | 73 745 | 2 027 | 2.7 | 24 161 | 11.9 | 23 355 | 31.7 | 332 232 | 14.2 |
| Tanzania | 94/95 | 3 872 323 | 521 892 | 13.5 | 3 493 033 | 6.7 | 1 262 965 | 32.6 | 10 682 406 | 8.5 |
| Uganda | 91 | 1 704 721 | 218 506 | 12.8 | 743 603 | 3.4 | 749 428 | 44.0 | 3 880 412 | 5.2 |
| Zambia | 90 | 520 520 | 11 380 | 2.2 | 83 108 | 7.3 | 113 758 | 21.9 | 1 013 159 | 8.9 |
| NORTH AND CENTRAL AMERICA [16] | | 7 468 472 | 546 558 | 7.3 | 16 166 746 | 29.5 | 560 656 | 8.0 | 9 282 614 | 16.5 |
| Bahamas | 94 | 1 760 | 227 | 12.9 | 6 269 | 27.6 | 271 | 15.4 | 13 680 | 50.1 |
| Barbados | 89 | 17 178 | - | - | 39 128 | - | - | - | 4 381 | - |
| Canada | 91 | 280 043 | 13 144 | 4.7 | 935 891 | 71.2 | - | - | 10 918 | 5.5 |
| Dominica | 95 | 9 026 | 939 | 10.4 | 3 323 | 3.5 | 1 968 | 21.8 | 7 000 | 3.7 |
| Grenada | 95 | 18 277 | 3 300 | 18.1 | 13 100 | 4.0 | 1 900 | 10.4 | 28 187 | 8.7 |
| Guadeloupe | 89 | 16 530 | 405 | 2.5 | 3 385 | 8.4 | 3 243 | 19.6 | 27 077 | 4.6 |
| Honduras | 93 | 325 750 | 816 | 0.3 | 13 145 | 16.1 | 5 889 | 1.8 | 16 520 | 5.7 |
| Martinique | 89 | 16 038 | 6 613 | 41.2 | 36 158 | 5.5 | 2 902 | 18.1 | 6 882 767 | 14.0 |
| Mexico | 91 | 4 437 863 | 420 827 | 9.5 | 4 010 610 | 9.5 | 493 384 | 11.1 | - | - |
| Panama (1) | 90 | 213 895 | 636 | 0.3 | 5 184 | 8.2 | - | - | 22 959 | 14.4 |
| Puerto Rico | 87 | 20 245 | 451 | 2.2 | 8 944 | 19.8 | 1 589 | 7.8 | 6 600 | 4.0 |
| Saint Lucia | 86 | 11 551 | 2 892 | 25.0 | 10 900 | 3.8 | 1 658 | 14.4 | 6 107 | 7.3 |
| St. Kitts & Nevis | 87 | 3 430 | 948 | 27.6 | 7 591 | 8.0 | 831 | 24.2 | 6 616 | 3.5 |
| St. Vincent & Grenadines | 86 | 8 860 | 2 817 | 31.8 | 10 587 | 3.8 | 1 896 | 21.4 | 2 246 587 | 49.9 |
| U.S.A. | 87 | 2 087 759 | 92 489 | 4.4 | 11 059 397 | 119.6 | 45 032 | 2.2 | 3 315 | 35.6 |
| Virgin Islands (US) | 87 | 267 | 54 | 20.2 | 3 134 | 58.0 | 93 | 34.8 | 7 026 266 | 22.3 |
| SOUTH AMERICA [6] | | 4 048 875 | 787 940 | 32.2 | 60 021 140 | 44.2 | 260 205 | 12.2 | 3 710 065 | 74.0 |
| Argentina | 88 | 378 357 | 83 581 | 22.1 | 22 408 681 | 268.1 | 50 152 | 13.3 | 1 233 887 | - |
| Colombia | 88 | 1 547 846 | - | - | 1 498 778 | - | - | - | 1 317 | 21.2 |
| French Guiana | 89 | 4 491 | 138 | 3.1 | 3 801 | 27.5 | 62 | 1.4 | - | - |
| Paraguay | 91 | 307 221 | 20 882 | 6.8 | 356 980 | 17.1 | - | - | - | - |

Table 3.12
Number of holdings reporting and number of head of Sheep and Goats (cont'd)

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Sheep | | | | Goats | | | | |
|---|----------------|--------------------------------|--------------------|---------------------|----------------|-------------------------------------|------------------------------|----------------|-------------------------------------|-------|
| | | Total number of holdings | Holdings reporting | | Number of head | | Holdings reporting Number | Number of head | | |
| | | | Number | Percent of total | Total | Average per holding reporting | | Total | Average per holding reporting | |
| Peru | 94 | 1 756 141 | 683 339 | 38.9 | 12 085 683 | 17.7 | 209 991 | 12.0 | 2 080 997 | 9.9 |
| Uruguay | 90 | 54 819 | - | - | 23 667 217 | - | - | - | - | - |
| ASIA [8] | | 24 553 080 | 2 277 832 | 13.7 | 99 486 239 | 26.0 | 6 711 616 | 39.1 | 71 374 280 | 5.9 |
| Cyprus | 85 | 48 046 | 4 276 | 8.9 | 276 316 | 64.6 | 9 661 | 20.1 | 173 246 | 17.9 |
| Iran | 88 | 3 326 000 | - | - | 40 665 000 | - | - | - | 21 759 000 | - |
| Korea, Rep. of | 90 | 1 768 501 | 309 | - | 4 164 | 13.5 | 87 299 | 4.9 | 325 474 | 3.7 |
| Myanmar | 93 | 2 924 898 | 11 664 | 0.4 | - | - | 79 894 | 2.7 | 820 859 | 10.3 |
| Nepal | 92 | 2 736 050 | 92 748 | 3.4 | 602 802 | 6.5 | 1 382 786 | 50.5 | 5 515 540 | 4.0 |
| Pakistan | 90 | 5 071 112 | 1 151 455 | 22.7 | 18 027 930 | 15.7 | 4 283 977 | 84.5 | 30 078 854 | 7.0 |
| Philippines | 91 | 4 610 041 | - | - | - | - | 867 999 | 18.8 | 2 402 993 | 2.8 |
| Turkey | 91 | 4 068 432 | 1 017 380 | 25.0 | 39 910 027 | 39.2 | - | - | 10 298 314 | - |
| EUROPE [18] | | 13 948 196 | 976 824 | 11.6 | 105 654 805 | 93.6 | 528 506 | 6.6 | 7 249 606 | 13.4 |
| Albania | 95 | 444 300 | 199 000 | 44.8 | 2 209 000 | 11.1 | 145 000 | 32.6 | 1 441 000 | 9.9 |
| Austria | 90 | 273 210 | 20 996 | 7.7 | 260 996 | 12.4 | 9 562 | 3.5 | 26 799 | 2.8 |
| Belgium | 90 | 87 180 | 8 180 | 9.4 | 192 133 | 23.5 | 1 064 | 1.2 | 9 111 | 8.6 |
| Czechoslovakia (former) | 90 | 1 245 889 | - | - | 1 030 132 | - | - | - | 51 789 | - |
| Denmark | 89 | 81 267 | 5 939 | 7.3 | 144 168 | 24.3 | - | - | - | - |
| Finland | 90 | 199 385 | - | - | 103 258 | - | - | - | 5 871 | - |
| France | 88 | 1 016 755 | 165 104 | 16.2 | 11 498 746 | 69.6 | 60 933 | 6.0 | 888 654 | 14.6 |
| Ireland | 91 | 170 578 | - | - | 8 888 200 | - | - | - | 17 400 | - |
| Italy | 90 | 3 023 344 | 163 160 | 5.4 | 8 739 253 | 53.6 | 91 289 | 3.0 | 1 258 962 | 13.8 |
| Luxembourg | 90 | 3 803 | - | - | 7 281 | - | - | - | 506 | - |
| Netherlands | 90 | 127 367 | 23 482 | 18.4 | 1 404 348 | 59.8 | 2 240 | 1.8 | 42 429 | 18.9 |
| Norway (2) | 89 | 99 382 | 29 108 | 29.3 | 2 183 098 | 75.0 | 1 474 | 1.5 | 67 691 | 45.9 |
| Poland | 90 | 3 783 000 | - | - | 4 158 500 | - | - | - | - | - |
| Portugal | 89 | 598 742 | 101 289 | 16.9 | 2 926 278 | 28.9 | 94 003 | 15.7 | 720 522 | 7.7 |
| Slovenia | 91 | 156 549 | - | - | 28 137 | - | - | - | - | - |
| Spain | 89 | 2 284 944 | 147 228 | 6.4 | 17 576 632 | 119.4 | 112 768 | 4.9 | 2 553 748 | 22.6 |
| Switzerland | 90 | 108 296 | 19 805 | 18.3 | 403 645 | 20.4 | 10 173 | 9.4 | 68 124 | 6.7 |
| United Kingdom | 93 | 244 205 | 93 533 | 38.3 | 43 901 000 | 469.4 | - | - | 97 000 | - |
| OCEANIA [8] | | 329 903 | 102 489 | 46.4 | 228 152 843 | 2 226.1 | 35 684 | 11.3 | 1 834 930 | 51.2 |
| Australia | 90 | 129 540 | 63 716 | 49.2 | 170 297 000 | 2 672.8 | 2 799 | 2.2 | 560 400 | 200.2 |
| Cook Islands | 88 | 2 188 | - | - | - | - | - | - | 5 470 | - |
| Fiji | 91 | 95 400 | - | - | - | - | 24 027 | 25.2 | 187 235 | 7.8 |
| Guam | 87 | 351 | - | - | - | - | 63 | 17.9 | 851 | 13.5 |
| New Caledonia | 91 | 10 302 | 37 | 0.4 | 3 651 | 98.7 | 857 | 8.3 | 16 498 | 19.3 |
| New Zealand | 90 | 80 904 | 38 736 | 47.9 | 57 852 192 | 1493.5 | 7 917 | 9.8 | 1 062 900 | 134.3 |
| Northern Mariana Isl. | 90 | 119 | - | - | - | - | 21 | 17.6 | 482 | 23.0 |
| Western Samoa | 89 | 11 099 | - | - | - | - | - | - | 1 094 | - |

(1) Data refer to sheep and goats.

(2) Data on goats refer to goats 1 year of age and over.

Table 3.13
Number of holdings reporting and number of head of Pigs and Horses

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Total number of holdings | Pigs | | | Horses | | | | |
|---|----------------|--------------------------------|------------------------------|---------------------|-------------------------|-------------------------------------|------------------------------|---------------------|-------------------------|-------------------------------------|
| | | | Holdings reporting Number | Percent of total | Number of head Total | Average per holding reporting | Holdings reporting Number | Percent of total | Number of head Total | Average per holding reporting |
| | | | | | | | | | | |
| TOTAL [71] | | 66 314 668 | 12 013 375 | 28.9 | 214 315 040 | 16.3 | 3 559 725 | 15.1 | 14 035 948 | 3.5 |
| AFRICA [14] | | 18 536 832 | 388 608 | 16.6 | 5 957 705 | 3.5 | 8 970 | 5.1 | 1 587 323 | 3.6 |
| Botswana | 93 | 101 434 | - | - | - | - | 8 624 | 8.5 | 31 400 | 3.6 |
| Burkina Faso | 93 | 886 638 | - | - | 718 298 | - | - | - | - | - |
| Cape Verde | 88 | 32 193 | 26 153 | 81.2 | 57 977 | 2.2 | - | - | 299 | - |
| Congo, Dem. Rep. of | 90 | 4 479 600 | - | - | 3 230 500 | - | - | - | - | - |
| Ethiopia | 89/92 | 6 091 840 | - | - | - | - | - | - | 1 030 590 | - |
| Guinea | 89 | 431 277 | - | - | 3 082 | - | - | - | - | - |
| Guinea Bissau | 88 | 84 221 | - | - | 120 170 | - | - | - | 550 | - |
| Lesotho | 89/90 | 229 300 | - | - | 66 500 | - | - | - | 103 800 | - |
| Reunion | 89 | 15 198 | 5 662 | 37.3 | 70 921 | 12.5 | - | - | - | - |
| Sao Tome & Principe (1) | 90 | 13 822 | - | - | 34 324 | - | - | - | 8 | - |
| Swaziland | 93 | 73 745 | 12 487 | 16.9 | 42 443 | 3.4 | 346 | 0.5 | 1 362 | 3.9 |
| Tanzania (1) | 94/95 | 3 872 323 | - | - | 434 638 | - | - | - | 419 314 | - |
| Uganda | 91 | 1 704 721 | 255 795 | 15.0 | 671 712 | 2.6 | - | - | - | - |
| Zambia | 90 | 520 520 | 88 511 | 17.0 | 507 140 | 5.7 | - | - | - | - |
| NORTH AND CENTRAL AMERICA [16] | | 7 468 472 | 2 398 297 | 32.2 | 74 053 527 | 30.9 | 1 800 625 | 24.4 | 6 115 577 | 3.4 |
| Bahamas (2) | 94 | 1 760 | 122 | 6.9 | 4 777 | 39.2 | 14 | 0.8 | - | - |
| Barbados | 89 | 17 178 | - | - | 28 897 | - | - | - | - | - |
| Canada | 91 | 280 043 | 29 592 | 10.6 | 10 216 083 | 345.2 | 58 509 | 20.9 | 356 204 | 6.1 |
| Dominica | 95 | 9 026 | 1 117 | 12.4 | 3 858 | 3.5 | - | - | - | - |
| Grenada | 95 | 18 277 | 1 100 | 6.0 | 5 300 | 4.8 | - | - | - | - |
| Guadeloupe | 89 | 16 530 | 6 625 | 40.1 | 28 658 | 4.3 | - | - | - | - |
| Honduras | 93 | 325 750 | 100 376 | 30.8 | 479 434 | 4.8 | 107 198 | 32.9 | 232 492 | 2.2 |
| Martinique | 89 | 16 038 | 6 991 | 43.6 | 21 185 | 3.0 | - | - | - | - |
| Mexico | 91 | 4 437 863 | 1 962 892 | 44.2 | 10 581 242 | 5.4 | 1 165 124 | 26.3 | 2 904 594 | 2.5 |
| Panama | 90 | 213 895 | 39 345 | 18.4 | 256 361 | 6.5 | 51 972 | 24.3 | 155 506 | 3.0 |
| Puerto Rico | 87 | 20 245 | 4 700 | 23.2 | 141 031 | 30.0 | 2 215 | 10.9 | 9 606 | 4.3 |
| Saint Lucia | 86 | 11 551 | - | - | 7 500 | - | - | - | - | - |
| St. Kitts & Nevis | 87 | 3 430 | 1 323 | 38.6 | 3 694 | 2.8 | - | - | - | - |
| St. Vincent & Grenadines | 86 | 8 860 | 654 | 7.4 | 1 851 | 2.8 | - | - | - | - |
| U.S.A. | 87 | 2 087 759 | 243 398 | 11.7 | 52 271 120 | 214.8 | 415 565 | 19.9 | 2 456 951 | 5.9 |
| Virgin Islands (US) | 87 | 267 | 62 | 23.2 | 2 536 | 40.9 | 28 | 10.5 | 224 | 8.0 |
| SOUTH AMERICA [5] | | 3 994 056 | 960 143 | 39.2 | 8 610 410 | 6.8 | 1 022 309 | 41.9 | 4 489 892 | 4.4 |
| Argentina | 88 | 378 357 | 100 972 | 26.7 | 3 341 652 | 33.1 | 235 867 | 62.3 | 1 994 241 | 8.4 |
| Colombia | 88 | 1 547 846 | - | - | 2 068 849 | - | - | - | - | - |
| French Guiana | 89 | 4 491 | 298 | 6.6 | 9 162 | 30.7 | - | - | - | - |
| Paraguay | 91 | 307 221 | 210 413 | 68.5 | 1 003 880 | 3.3 | 93 846 | 30.5 | 319 921 | 3.4 |
| Peru (2) | 94 | 1 756 141 | 648 460 | 36.9 | 2 186 867 | 3.4 | 692 596 | 39.4 | 2 175 730 | 3.1 |

Table 3.13
Number of holdings reporting and number of head of Pigs and Horses (cont'd)

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Pigs | | | Horses | | | | |
|---|----------------|--------------------------------|--------------------|---------------------|-------------------------|--------------------|---------------------|-------------------------|-----|
| | | Total number of holdings | Holdings reporting | | Number of head Total | Holdings reporting | | Number of head Total | |
| | | | Number | Percent of total | | Number | Percent of total | | |
| ASIA [7] | | 22 036 072 | 4 389 169 | 25.9 | 14 017 271 | 3.9 | 219 552 | 282 926 | 1.3 |
| Cyprus | 85 | 48 046 | 1 228 | 2.6 | 197 280 | 160.7 | 213 | 598 | 2.8 |
| Korea, Rep. of | 90 | 1 768 501 | 139 684 | 7.9 | 4 490 952 | 32.2 | - | - | - |
| Myanmar | 93 | 2 924 898 | 650 890 | 22.3 | 1 354 664 | 2.1 | - | - | - |
| Nepal | 92 | 2 736 050 | 267 465 | 9.8 | 495 798 | 1.9 | 9 034 | 14 311 | 1.6 |
| Pakistan | 90 | 5 071 112 | - | - | - | - | 210 305 | 268 017 | 1.3 |
| Philippines | 91 | 4 610 041 | 2 551 789 | 55.4 | 7 478 577 | 2.9 | - | - | - |
| Thailand | 88 | 4 877 424 | 778 113 | 16.0 | - | - | - | - | - |
| EUROPE [18] | | 13 948 196 | 3 845 962 | 31.9 | 108 283 531 | 21.9 | 438 496 | 1 104 365 | 2.2 |
| Albania (2) | 95 | 444 300 | 90 000 | 20.3 | 164 500 | 1.8 | 224 500 | 242 600 | 1.1 |
| Austria | 90 | 273 210 | 139 033 | 50.9 | 3 704 196 | 26.6 | - | - | - |
| Belgium | 90 | 87 180 | 20 189 | 23.2 | 6 700 422 | 331.9 | - | 7 900 | - |
| Czechoslovakia (former) | 90 | 1 245 889 | - | - | 7 089 828 | - | - | 38 862 | - |
| Denmark | 89 | 81 267 | 31 205 | 38.4 | 9 189 981 | 294.5 | 9 442 | 35 446 | 3.8 |
| Finland | 90 | 199 385 | - | - | 1 381 442 | - | - | 3 164 | - |
| France (2) | 88 | 1 016 755 | 170 339 | 16.8 | 12 212 554 | 71.7 | 79 869 | 331 476 | 4.2 |
| Ireland | 91 | 170 578 | - | - | 1 303 700 | - | 72 193 | 225 673 | 3.1 |
| Italy (2) | 90 | 3 023 344 | 357 381 | 11.8 | 8 406 521 | 23.5 | - | 407 | - |
| Luxembourg | 90 | 3 803 | - | - | 75 463 | - | - | 66 674 | 3.6 |
| Netherlands | 90 | 127 367 | - | - | 13 729 209 | - | 18 690 | - | - |
| Norway | 89 | 99 382 | 8 272 | 8.3 | 656 695 | 79.4 | - | - | - |
| Poland | 90 | 3 783 000 | 2 371 941 | 62.7 | 19 464 225 | 8.2 | - | 36 246 | 1.8 |
| Portugal | 89 | 598 742 | 238 729 | 39.9 | 2 439 199 | 10.2 | 20 643 | 10 500 | - |
| Slovenia | 91 | 156 549 | - | - | 265 752 | - | - | - | - |
| Spain | 89 | 2 284 944 | 376 357 | 16.5 | 11 955 303 | 31.8 | - | - | - |
| Switzerland | 90 | 108 296 | 25 896 | 23.9 | 1 788 541 | 69.1 | 13 159 | 42 317 | 3.2 |
| United Kingdom | 93 | 244 205 | 16 620 | 6.8 | 7 756 000 | 466.7 | - | - | - |
| OCEANIA [11] | | 331 040 | 31 196 | 9.8 | 3 392 596 | 102.1 | 69 773 | 455 865 | 6.5 |
| American Samoa (2) | 90 | 384 | 263 | 68.5 | 7 580 | 28.8 | 2 | - | - |
| Australia | 90 | 129 540 | 6 847 | 5.3 | 2 648 000 | 386.7 | 33 137 | 310 400 | 9.4 |
| Cook Islands | 88 | 2 188 | - | - | 16 459 | - | - | 355 | - |
| Fiji (3) | 91 | 95 400 | 14 609 | 15.3 | 90 850 | 6.2 | 18 766 | 36 570 | 1.9 |
| Guam | 87 | 351 | 195 | 55.6 | 2 627 | 13.5 | 10 | 21 | 2.1 |
| New Caledonia | 91 | 10 302 | 4 261 | 41.4 | 38 252 | 9.0 | 1 992 | 11 425 | 5.7 |
| New Zealand | 90 | 80 904 | 4 509 | 5.6 | 394 701 | 87.5 | 15 884 | 93 980 | 5.9 |
| Niue | 89 | 453 | 315 | 69.5 | 1 527 | 4.8 | - | - | - |
| Northern Mariana Isl. (2) | 90 | 119 | 66 | 55.5 | 1 260 | 19.1 | 2 | - | - |
| Palau | 89 | 300 | 131 | 43.7 | 1 527 | 11.7 | - | - | - |
| Western Samoa | 89 | 11 099 | - | - | 189 813 | - | - | 3 114 | - |

(1) Data on horses include asses.

(2) Data on horses include mules and asses.

(3) Excluding commercial farms.

Table 3.14**Number of holdings reporting and number of head of Chickens**

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Total number of holdings | Chickens | | | |
|---|----------------|--------------------------------|--------------------|---------------------|----------------|-------------------------------------|
| | | | Holdings reporting | | Number of head | |
| | | | Number | Percent of total | Total | Average per holding reporting |
| TOTAL [64] | | 58 110 327 | 16 637 866 | 58.1 | 2 122 605 672 | 70.6 |
| AFRICA [12] | | 13 489 097 | 1 736 959 | 70.9 | 91 638 945 | 15.1 |
| Botswana | 93 | 101 434 | 65 142 | 64.2 | 1 077 100 | 16.5 |
| Burkina Faso (1) | 93 | 886 638 | - | - | 12 727 886 | - |
| Cape Verde | 88 | 32 193 | 26 721 | 83.0 | 172 379 | 6.5 |
| Djibouti (1) | 95 | 1 135 | 30 | 2.6 | - | - |
| Ethiopia (1) | 89/92 | 6 091 840 | - | - | 17 878 050 | - |
| Libya | 87 | 175 528 | - | - | 7 578 367 | - |
| Reunion | 89 | 15 198 | 6 898 | 45.4 | 209 744 | 30.4 |
| Sao Tome & Principe | 90 | 13 822 | - | - | 103 441 | - |
| Swaziland | 93 | 73 745 | 61 386 | 83.2 | 704 324 | 11.5 |
| Tanzania | 94/95 | 3 872 323 | - | - | 27 065 384 | - |
| Uganda | 91 | 1 704 721 | 1 147 791 | 67.3 | 11 442 120 | 10.0 |
| Zambia | 90 | 520 520 | 428 991 | 82.4 | 12 680 150 | 29.6 |
| NORTH AND CENTRAL AMERICA [14] | | 7 463 282 | 3 957 162 | 53.7 | 736 527 298 | 183.0 |
| Barbados | 89 | 17 178 | - | - | 3 642 506 | - |
| Canada | 91 | 280 043 | 42 661 | 15.2 | 94 872 875 | 2 223.9 |
| Dominica (1) | 95 | 9 026 | 2 212 | 24.5 | 66 522 | 30.1 |
| Grenada | 95 | 18 277 | 3 600 | 19.7 | 81 700 | 22.7 |
| Guadeloupe | 89 | 16 530 | - | - | 319 930 | - |
| Honduras (1) | 93 | 325 750 | 244 319 | 75.0 | 11 696 636 | 47.9 |
| Martinique | 89 | 16 038 | - | - | 255 591 | - |
| Mexico | 91 | 4 437 863 | 3 362 919 | 75.8 | 232 560 043 | 69.2 |
| Panama | 90 | 213 895 | 156 948 | 73.4 | 9 387 125 | 59.8 |
| Puerto Rico | 87 | 20 245 | - | - | 7 966 972 | - |
| Saint Lucia (1) | 86 | 11 551 | - | - | 52 800 | - |
| St. Vincent & Grenadines | 86 | 8 860 | - | - | 42 086 | - |
| U.S.A. | 87 | 2 087 759 | 144 438 | 6.9 | 375 577 186 | 2 600.3 |
| Virgin Islands (US) | 87 | 267 | 65 | 24.3 | 5 326 | 81.9 |
| SOUTH AMERICA [3] | | 2 067 853 | 273 193 | 88.9 | 81 251 142 | 41.1 |
| French Guiana | 89 | 4 491 | - | - | 182 211 | - |
| Paraguay | 91 | 307 221 | 273 193 | 88.9 | 11 233 769 | 41.1 |
| Peru | 94 | 1 756 141 | - | - | 69 835 162 | - |
| ASIA [7] | | 20 811 312 | 9 742 040 | 57.4 | 324 275 532 | 29.9 |
| Cyprus | 85 | 48 046 | 21 655 | 45.1 | 2 086 427 | 96.3 |
| Japan | 90 | 3 846 352 | - | - | 33 293 100 | - |
| Korea, Rep. of | 90 | 1 768 501 | 131 990 | 7.5 | 77 228 511 | 585.1 |
| Myanmar | 93 | 2 924 898 | 1 311 021 | 44.8 | 16 863 846 | 12.9 |
| Nepal | 92 | 2 736 050 | 1 400 435 | 51.2 | 12 333 139 | 8.8 |
| Philippines | 91 | 4 610 041 | 3 627 762 | 78.7 | 87 297 919 | 24.1 |
| Thailand | 88 | 4 877 424 | 3 249 177 | 66.6 | 95 172 590 | 29.3 |

Table 3.14
Number of holdings reporting and number of head of Chickens (cont'd)

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Total number of holdings | Chickens | | | |
|---|----------------|--------------------------------|--------------------|---------------------|----------------|-------------------------------------|
| | | | Holdings reporting | | Number of head | |
| | | | Number | Percent of total | Total | Average per holding reporting |
| EUROPE [18] | | 13 948 196 | 861 895 | 69.9 | 824 016 185 | 67.6 |
| Albania (1) | 95 | 444 300 | 393 400 | 88.5 | 4 329 300 | 11.0 |
| Austria | 90 | 273 210 | - | - | 12 218 046 | - |
| Belgium | 90 | 87 180 | - | - | 26 757 719 | - |
| Czechoslovakia (former) | 90 | 1 245 889 | - | - | 47 983 495 | - |
| Denmark | 89 | 81 267 | 13 858 | 17.1 | 16 266 298 | 1 173.8 |
| Finland | 90 | 199 385 | - | - | 9 520 018 | - |
| France | 88 | 1 016 755 | - | - | 130 830 722 | - |
| Ireland (1) | 91 | 170 578 | - | - | 12 052 800 | - |
| Italy | 90 | 3 023 344 | - | - | 142 100 216 | - |
| Luxembourg | 90 | 3 803 | - | - | 69 021 | - |
| Netherlands | 90 | 127 367 | - | - | 89 777 520 | - |
| Norway | 89 | 99 382 | - | - | 7 878 359 | - |
| Poland | 90 | 3 783 000 | - | - | 44 791 049 | - |
| Portugal | 89 | 598 742 | 415 852 | 69.5 | 31 152 651 | 74.9 |
| Spain | 89 | 2 284 944 | - | - | 109 972 000 | - |
| Slovenia (1) | 91 | 156 549 | - | - | 1 612 154 | - |
| Switzerland | 90 | 108 296 | 38 785 | 35.8 | 6 529 817 | 168.4 |
| United Kingdom | 93 | 244 205 | - | - | 130 175 000 | - |
| OCEANIA [10] | | 330 587 | 66 617 | 21.7 | 64 896 570 | 962.8 |
| American Samoa | 90 | 384 | 173 | 45.1 | 27 401 | 158.4 |
| Australia | 90 | 129 540 | 1 097 | 0.8 | 59 956 000 | 54 655.0 |
| Cook Islands | 88 | 2 188 | - | - | 44 687 | - |
| Fiji | 91 | 95 400 | 64 788 | 67.9 | 781 173 | 12.1 |
| Guam | 87 | 351 | - | - | 60 494 | - |
| New Caledonia | 91 | 10 302 | - | - | 344 920 | - |
| New Zealand | 90 | 80 904 | 365 | 0.4 | 3 360 809 | 9208 |
| Northern Mariana Isl. | 90 | 119 | 63 | 52.9 | 9 580 | 152.1 |
| Palau | 89 | 300 | 131 | 43.7 | 1 527 | 11.7 |
| Western Samoa | 89 | 11 099 | - | - | 309 979 | - |

(1) Data refer to poultry in general.

Table 4.1
Number and area of holdings classified by size (1) (Area: in hectares)

| Countries by continents. | | Measure of size | Item | All holdings | Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | | | | | | | | | |
|---------------------------------------|-------------|--------------------------|---------------|--------------|--|------------------|------------------|-------------------|--------------------|--------------------|---------------------|----------------------|----------------------|----------------------|
| Number of reporting countries | Census year | | | | Under 1 Ha (2) | 1 and under 2 Ha | 2 and under 5 Ha | 5 and under 10 Ha | 10 and under 20 Ha | 20 and under 50 Ha | 50 and under 100 Ha | 100 and under 200 Ha | 200 and under 500 Ha | 500 and over 1000 Ha |
| TOTAL [67] | | Number of holdings | 164 617 164 | 79 803 939 | 28 688 576 | 31 626 290 | 11 625 865 | 6 000 009 | 3 368 223 | 1 560 661 | 916 626 | 623 894 | 283 384 | 119 697 |
| | | Area of holdings | 1 487 552 300 | 32 485 115 | 40 582 894 | 94 013 210 | 79 613 470 | 89 159 868 | 103 011 829 | 131 987 759 | 122 176 363 | 163 517 169 | 296 866 371 | 334 138 432 |
| AFRICA [11] | | Number of holdings | 14 618 535 | 9 623 540 | 2 490 425 | 1 932 761 | 400 334 | 149 162 | 18 234 | 3 393 | 686 | | | |
| | | Area of holdings | 15 192 395 | 3 860 113 | 3 265 882 | 4 028 239 | 2 180 207 | 1 843 243 | 14 711 | | | | | |
| Burkina Faso | 1993 | Total number of holdings | 886 638 | 114 377 | 172 894 | 365 295 | 186 194 | 47 878 | | | | | | |
| | | Cultivated area | 3 472 480 | 62 504 | 256 963 | 1 201 476 | 1 274 404 | 677 133 | | | | | | |
| Congo, Dem. Rep. of | 1990 | Total number of holdings | 4 479 600 | 3 882 900 | 468 100 | 128 600 | | | | | | | | |
| | | Cultivated area | 2 387 700 | 1 500 400 | 552 500 | 334 800 | | | | | | | | |
| Djibouti | 1995 | Total number of holdings | 1 135 | 944 | 191 | | | | | | | | | |
| Ethiopia | 1989/92 | Total number of holdings | 6 091 840 | 4 392 500 | 1 227 640 | 452 670 | 18 040 | 990 | | | | | | |
| | | Land under crops | 4 871 020 | 1 795 780 | 1 115 800 | 1 238 800 | 107 700 | 11 940 | | | | | | |
| Guinea | 1989 | Total number of holdings | 431 277 | 197 747 | 107 245 | 106 486 | 17 145 | 2 654 | | | | | | |
| | | Total area | 727 544 | 94 207 | 154 692 | 327 346 | 115 100 | 35 999 | | | | | | |
| Guinea Bissau | 1988 | Total number of holdings | 84 221 | 59 120 | 14 809 | 8 531 | 1 590 | 171 | | | | | | |
| Lesotho | 1989/90 | Total number of holdings | 229 300 | 107 400 | 67 000 | 46 800 | 8 100 | | | | | | | |
| Libya | 1987 | Total number of holdings | 175 528 | 25 213 | 17 654 | 43 904 | 40 406 | 28 285 | 15 987 | 3 393 | 686 | | | |
| Reunion | 1989 | Number of holdings | 13 755 | 3 970 | 3 082 | 4 198 | 1 896 | 414 | 195 | | | | | |
| | | Agricultural area | 50 363 | 1 613 | 4 119 | 12 664 | 11 972 | 5 284 | 14 711 | | | | | |
| Uganda | 1991 | Total number of holdings | 1 704 721 | 839 369 | 411 810 | 296 560 | 97 013 | 59 969 | | | | | | |
| | | Total area | 3 683 288 | 404 609 | 581 608 | 913 153 | 671 031 | 1 112 887 | | | | | | |
| Zambia | 1990 | Total number of holdings | 520 520 | | 479 717 | 29 950 | | 8 801 | 2 052 | | | | | |
| NORTH AND CENTRAL AMERICA [15] | | Number of holdings | 3 029 612 | 168 850 | 46 796 | 461 868 | 242 909 | 284 397 | 542 183 | 449 229 | 364 187 | 303 771 | 165 318 | 103 |
| | | Area of holdings | 397 443 010 | 34 723 | 45 528 | 840 777 | 1 491 747 | 3 769 586 | 17 416 104 | 27 983 592 | 44 152 528 | 74 187 589 | 226 969 301 | 551 535 |
| Bahamas | 1994 | Total number of holdings | 1 760 | 639 | 437 | 360 | 140 | 78 | 50 | 56 | | | | |
| | | Total area | 20 336 | 290 | 584 | 1 025 | 872 | 966 | 1 456 | 15 143 | | | | |
| Barbados | 1989 | Total number of holdings | 17 178 | 16 315 | 485 | 190 | 44 | 27 | 23 | 26 | 33 | 34 | 1 | |
| | | Total area | 21 560 | 2 146 | 660 | 552 | 294 | 365 | 659 | 1 938 | 4 680 | 9 605 | 650 | |
| Canada | 1991 | Total number of holdings | 280 043 | | 6 971 | 9 250 | 10 039 | 14 030 | 38 329 | 55 843 | 51 621 | 56 577 | 35 443 | |
| Dominica | 1995 | Total number of holdings | 9 026 | 4 800 | 1 922 | 1 654 | 443 | 89 | 69 | 30 | 14 | 5 | | |
| | | Total area | 21 146 | 1 783 | 3 196 | 4 618 | 2 942 | 1 181 | 2 119 | 2 112 | 1 902 | 1 293 | | |
| Grenada | 1995 | Total number of holdings | 18 277 | 15 534 | 1 372 | 978 | 243 | 74 | 76 | | | | | |
| | | Total area | 14 164 | 2 683 | 1 950 | 2 791 | 1 598 | 980 | 4 262 | | | | | |
| Guadeloupe | 1999 | Number of holdings | 16 272 | 5 043 | 4 441 | 5 204 | 1 163 | 272 | 149 | | | | | |
| | | Agricultural area | 46 740 | 2 409 | 5 926 | 15 393 | 7 539 | 3 489 | 11 984 | | | | | |
| Honduras | 1993 | Total number of holdings | 325 750 | | | 178 250 | 52 770 | 55 960 | 11 984 | | | | | |
| | | Total area | 3 637 469 | | | 280 531 | 249 098 | 369 364 | 2 738 476 | | | | | |
| Martinique | 1989 | Number of holdings | 15 460 | 9 830 | 2 086 | 634 | 634 | 252 | 231 | | | | | |
| | | Agricultural area | 37 173 | 3 181 | 2 931 | 7 286 | 4 212 | 3 346 | 16 217 | | | | | |
| Panama | 1990 | Total number of holdings | 213 895 | 99 905 | 24 345 | 28 698 | 16 172 | 15 232 | 16 383 | 8 115 | 3 251 | 1 480 | 231 | 103 |
| | | Total area | 2 941 583 | 15 162 | 27 584 | 79 804 | 103 986 | 196 241 | 486 161 | 522 322 | 412 164 | 396 453 | 150 171 | 551 535 |
| Puerto Rico | 1987 | Total number of holdings | 20 245 | | | 11 291 | 3 520 | 2 418 | 1 688 | 674 | 654 | | | |
| | | Total area | 348 530 | | | 20 138 | 23 879 | 32 128 | 51 603 | 45 777 | 175 005 | | | |
| Saint Lucia | 1986 | Total number of holdings | 11 551 | 9 835 | 562 | 611 | 360 | 100 | 42 | 16 | 12 | 13 | | |
| | | Total area | 23 478 | 5 388 | 1 315 | 2 184 | 2 375 | 1 919 | 1 242 | 1 089 | 1 479 | 7 077 | | |
| St. Kitts & Nevis | 1987 | Total number of holdings | 3 268 | | 3 148 | 87 | 11 | 23 | | | | | | |

Table 4.1
Number and area of holdings classified by size (1) (Area: in hectares) (cont'd)

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Measure of size | Item | All holdings | Under | | 5 and under 10 Ha | 10 and under 20 Ha | 20 and under 50 Ha | 50 and under 100 Ha | 100 and under 200 Ha | 200 and under 500 Ha | 500 and under 1000 Ha | 1000 Ha and over |
|--|-----------------------|--------------------------|-----------------|-------------|------------|----------------------------|-----------------------------|-----------------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|------------------------|
| | | | | 1 Ha (2) | 2 Ha | | | | | | | | |
| St. Vincent & Grenadines [1986] | Total area | Total number of holdings | 8 860 | 974 | 733 | 119 | 35 | 23 | 14 | 4 | 9 | 9 | |
| | Total area | Total area | 12 017 | 1 874 | 1 874 | 736 | 473 | 733 | 927 | 483 | 3 722 | 3 722 | |
| U.S.A. [1987] | Total area | Total number of holdings | 2 087 759 | 222 077 | 157 220 | 157 220 | 212 970 | 429 141 | 384 448 | 308 593 | 243 667 | 129 643 | |
| | Total area | Total area | 390 311 617 | 424 401 | 1 084 014 | 1 084 014 | 3 159 370 | 14 100 582 | 27 393 780 | 43 556 049 | 73 764 941 | 226 818 480 | |
| Virgin Islands (US) [1987] | Total area | Total number of holdings | 257 | 113 | 58 | 31 | 27 | 19 | 7 | 5 | 6 | 6 | |
| | Total area | Total area | 7 197 | 94 | 180 | 202 | 363 | 600 | 494 | 766 | 4 488 | 4 488 | |
| SOUTH AMERICA [6] | | | | | | | | | | | | | |
| Argentina [1988] | Total area | Number of holdings | 9 815 033 | 837 367 | 2 709 173 | 1 363 733 | 1 233 739 | 1 260 700 | 633 727 | 383 095 | 249 965 | 86 971 | 82 570 |
| | Area of holdings | Area of holdings | 648 977 876 | 1 097 588 | 6 629 240 | 14 800 000 | 16 830 192 | 38 927 113 | 67 831 473 | 51 455 443 | 76 466 263 | 59 931 848 | 319 832 413 |
| | Total area | Total number of holdings | 378 357 | 57 057 | 148 000 | 148 000 | 39 074 | 59 129 | 48 006 | 47 083 | 47 772 | 21 101 | 27 455 |
| | Total area | Total area | 177 437 398 | 1 049 666 | 2 471 140 | 2 471 140 | 612 991 | 2 063 096 | 3 648 960 | 6 929 412 | 15 290 155 | 14 870 541 | 133 639 103 |
| Brazil (3) [1985] | Total area | Total number of holdings | 5 820 988 | 619 828 | 1 049 666 | 770 723 | 818 157 | 910 075 | 438 192 | 283 503 | 175 003 | 60 112 | 50 105 |
| | Total area | Total area | 376 286 577 | 3 364 936 | 3 364 936 | 5 482 618 | 11 345 762 | 28 179 753 | 30 153 422 | 37 456 164 | 53 145 325 | 41 292 068 | 164 684 305 |
| Colombia [1988] | Total area | Total number of holdings | 1 547 846 | 185 142 | 315 796 | 232 498 | 182 621 | 167 864 | 88 304 | 48 230 | 23 707 | 4 233 | 1 770 |
| | Total area | Total area | 36 033 713 | 228 550 | 992 196 | 1 589 575 | 2 504 414 | 5 171 668 | 6 063 791 | 6 500 698 | 6 980 749 | 2 758 287 | 3 150 744 |
| French Guiana [1989] | Agricultural area | Number of holdings | 4 480 | 1 403 | 1 902 | 269 | 68 | 109 | | | | | |
| | Agricultural area | Agricultural area | 20 642 | 1 791 | 5 189 | 1 751 | 911 | 10 608 | | | | | |
| Paraguay [1991] | Total area | Total number of holdings | 307 221 | 61 817 | 66 605 | 66 223 | 66 223 | 66 223 | 7 577 | 4 279 | 3 503 | 1 525 | 3 240 |
| | Total area | Total area | 23 817 737 | 191 374 | 430 658 | 806 802 | 857 909 | 857 909 | 502 648 | 569 169 | 1 050 034 | 1 010 952 | 18 958 261 |
| Peru [1994] | Total area | Total number of holdings | 1 756 141 | 1 222 935 | 2 611 958 | 1 271 596 | 1 559 312 | 2 654 079 | 27 464 652 | | | | |
| | Total area | Total area | 35 381 809 | 1 927 545 | | | | | | | | | |
| ASIA [10] | | | | | | | | | | | | | |
| | Number of holdings | Number of holdings | 126 585 355 | 23 815 167 | 24 441 660 | 8 268 972 | 3 196 959 | 452 963 | 68 208 | 16 052 | 7 203 | 441 | |
| | Area of holdings | Area of holdings | 263 273 004 | 33 787 566 | 77 774 855 | 55 507 681 | 49 471 123 | 13 358 933 | 5 202 763 | 2 020 226 | 1 828 327 | 478 944 | |
| | Total area | Total number of holdings | 48 046 | 20 377 | 12 446 | 6 453 | 2 442 | 619 | 119 | 59 | 18 083 | | |
| | Total area | Total area | 178 058 | 11 084 | 39 316 | 43 536 | 32 509 | 16 786 | 7 916 | | | | |
| India [1986] | Total area | Total number of holdings | 97 155 000 | 17 922 000 | 16 152 222 | 5 015 778 | 1 918 000 | | | | | | |
| | Total area | Total area | 164 562 000 | 25 708 000 | 49 440 487 | 34 369 513 | 33 002 000 | | | | | | |
| Iran [1988] | Total area | Total number of holdings | 3 326 000 | 420 000 | 688 000 | 482 000 | 306 000 | 136 000 | 22 000 | 7 000 | 4 000 | | |
| | Total area | Total area | 17 150 000 | 295 000 | 544 000 | 482 000 | 3 974 000 | 3 784 000 | 1 427 000 | 879 000 | 912 000 | | |
| Korea, Rep. of [1990] | Cropland area | Total number of holdings | 1 768 501 | 543 182 | 173 458 | | | | | | | | |
| | Agricultural area | Agricultural area | 1 857 491 | 765 943 | 523 857 | | | | | | | | |
| Myanmar [1993] | Total area | Total number of holdings | 2 924 898 | 696 812 | 956 792 | | | | | | | | |
| | Total area | Total area | 6 886 956 | 1 015 361 | 2 975 518 | | | | | | | | |
| Nepal [1992] | Total area | Total number of holdings | 2 736 050 | 1 909 811 | 529 467 | 256 614 | 31 952 | 8 206 | | | | | |
| | Total area | Total area | 2 598 971 | 793 454 | 716 532 | 209 338 | 151 331 | 237 929 | | | | | |
| Pakistan (4) [1990] | Total area | Total number of holdings | 5 070 963 | 703 523 | 1 446 796 | 1 698 682 | 623 110 | 65 297 | 21 888 | | | | |
| | Total area | Total area | 19 149 637 | 1 036 286 | 4 134 346 | 3 032 872 | 2 279 270 | 2 279 270 | 2 269 598 | | | | |
| Philippines [1991] | Total area | Total number of holdings | 4 610 041 | 1 685 380 | 1 177 144 | 325 242 | 85 581 | 22 998 | | | | | |
| | Total area | Total area | 9 974 871 | 728 112 | 1 607 689 | 3 265 301 | 1 040 604 | 1 286 703 | | | | | |
| Thailand [1988] | Total area | Total number of holdings | 4 877 424 | 596 037 | 2 051 693 | 794 664 | 214 604 | 32 605 | | | | | |
| | Total area | Total area | 17 463 921 | 1 005 232 | 970 177 | 6 544 932 | 2 721 249 | 1 212 953 | | | | | |
| Turkey [1991] | Total area | Total number of holdings | 4 069 432 | 762 156 | 1 274 609 | 713 149 | 363 323 | 173 774 | 24 201 | 8 993 | 3 203 | 441 | |
| | Total area | Total area | 23 451 099 | 1 004 250 | 4 675 069 | 4 921 663 | 4 648 743 | 1 498 249 | 1 123 143 | 916 327 | 478 944 | 441 | |
| EUROPE [18] | | | | | | | | | | | | | |
| | Number of holdings | Number of holdings | 10 329 548 | 2 675 857 | 2 054 151 | 1 123 397 | 1 081 240 | 392 090 | 134 640 | 35 320 | 10 730 | 5 417 | |
| | Area of holdings | Area of holdings | 162 058 504 | 1 267 378 | 7 672 909 | 10 837 827 | 17 159 460 | 33 185 753 | 30 874 460 | 24 415 667 | 11 035 010 | 9 486 278 | 13 754 484 |
| Albania [1995] | Land under crops | Total number of holdings | 444 300 | 170 300 | | | | | | | | | |
| Austria [1990] | Productive area | Total number of holdings | 273 210 | 29 804 | 58 104 | 48 678 | 54 508 | 56 719 | 9 958 | 2 724 | 1 177 | 314 | 334 |
| | Total area | Total area | 7 217 498 | 62 788 | 287 209 | 490 221 | 973 319 | 2 004 177 | 726 871 | 404 834 | 365 038 | 216 558 | 1 679 914 |
| Belgium [1990] | Agricultural area | Total number of holdings | 87 190 | 7 385 | 13 537 | 16 944 | 16 944 | 18 783 | 4 131 | 780 | | | |
| | Total area | Total area | 1 400 364 | 9 667 | 48 834 | 98 050 | 255 189 | 586 511 | 278 044 | 111 886 | | | |
| Denmark [1989] | Agricultural area | Total number of holdings | 81 267 | 14 749 | 95 462 | 14 749 | 19 605 | 31 348 | 12 162 | 3 403 | | | |
| | Total area | Total area | 2 774 127 | | | | 284 791 | 1 007 856 | 818 355 | 567 663 | | | |

Table 4.1
Number and area of holdings classified by size (1) (Area: in hectares) (cont'd)

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Measure of size | Item | All holdings | Census year | | | | | | | | | | | | | | |
|--|-----------------------|--------------------------|-----------------|----------------------|---------------------------|---------------------------|----------------------------|-----------------------------|-----------------------------|------------------------------|-------------------------------|-------------------------------|---|--|--|--|--|--|
| | | | | Under 1 Ha (2) | 1 and under 2 Ha | 2 and under 5 Ha | 5 and under 10 Ha | 10 and under 20 Ha | 20 and under 50 Ha | 50 and under 100 Ha | 100 and under 200 Ha | 200 and under 500 Ha | 500 and under 1000 Ha and over | | | | | |
| Finland | Arable area | Total number of holdings | 199 385 | 27 114 | 41 901 | 42 786 | 47 665 | 35 108 | 4 311 | 500 | | | | | | | | |
| | Total area | Total area | 12 338 439 | 614 660 | 1 621 469 | 2 395 496 | 3 340 276 | 3 393 687 | 708 722 | 264 129 | | | | | | | | |
| France | Agricultural area | Number of holdings | 1 006 120 | 78 685 | 116 684 | 111 925 | 166 548 | 288 055 | 128 261 | 43 714 | | | | | | | | |
| | Agricultural area | Total number of holdings | 28 585 799 | 36 765 | 381 321 | 812 275 | 2 425 937 | 9 348 064 | 8 708 912 | 6 781 580 | | | | | | | | |
| Germany (5) | Arable area | Total number of holdings | 606 000 | 29 700 | 162 000 | 95 200 | 111 700 | 141 800 | 65 600 | | | | | | | | | |
| | Total area | Total area | 17 022 100 | 15 400 | 410 500 | 688 300 | 1 627 300 | 4 494 600 | 9 786 000 | | | | | | | | | |
| Greece (5) | Agricultural area | Number of holdings | 819 200 | 356 100 | 201 700 | 148 500 | 72 800 | 34 100 | 6 000 | | | | | | | | | |
| | Agricultural area | Total number of holdings | 3 538 700 | 326 500 | 568 300 | 815 100 | 791 100 | 937 000 | 102 700 | | | | | | | | | |
| Ireland | Arable area | Total number of holdings | 170 576 | 2 930 | 14 717 | 24 134 | 48 265 | 59 392 | 15 701 | 3 298 | 611 | | | | | | | |
| | Total area | Total number of holdings | 3 023 344 | 997 253 | 708 845 | 354 401 | 201 321 | 114 985 | 32 722 | 21 875 | | | | | | | | |
| Italy | Total area | Total area | 22 702 356 | 481 722 | 2 210 779 | 2 436 234 | 2 747 371 | 3 432 212 | 2 217 720 | 8 361 678 | | | | | | | | |
| | Agricultural area | Total number of holdings | 3 803 | 326 | 465 | 319 | 388 | 992 | 1 010 | 106 | | | | | | | | |
| Luxembourg | Arable area | Total number of holdings | 126 293 | 149 | 283 | 2301 | 5 721 | 35 329 | 67 768 | 13 180 | | | | | | | | |
| | Agricultural area | Total number of holdings | 127 367 | 9 993 | 19 823 | 21 651 | 26 555 | 31 440 | 5 058 | 613 | | | | | | | | |
| Netherlands | Arable area | Total number of holdings | 99 382 | 4 281 | 23 427 | 24 989 | 25 330 | 11 194 | 801 | 57 | | | | | | | | |
| | Total area | Total number of holdings | 991 077 | 2 809 | 77 325 | 177 475 | 355 193 | 307 374 | 50 155 | 7 809 | | | | | | | | |
| Norway | Agricultural area | Number of holdings | 594 418 | 178 930 | 167 480 | 141 665 | 27 414 | 13 596 | 3 846 | 2 417 | | | | | | | | |
| | Agricultural area | Total number of holdings | 4 005 594 | 91 833 | 230 813 | 435 287 | 374 771 | 407 243 | 268 912 | 338 671 | 1 471 454 | | | | | | | |
| Portugal | Arable area | Total number of holdings | 156 549 | 44 428 | 36 335 | 28 112 | 19 637 | 8 045 | | | | | | | | | | |
| | Total area | Total number of holdings | 2 284 944 | 654 441 | 481 345 | 302 253 | 216 649 | 154 712 | 59 040 | 29 544 | 18 934 | 7 104 | 5 083 | | | | | |
| Spain | Total area | Total area | 42 939 208 | 287 727 | 1 521 460 | 2 105 962 | 2 987 872 | 4 725 044 | 4 064 342 | 4 050 124 | 5 782 870 | 4 867 110 | 12 074 570 | | | | | |
| | Productive area | Total number of holdings | 108 296 | 7 724 | 11 988 | 15 543 | 31 006 | 19 432 | 1 115 | 107 | | | | | | | | |
| Switzerland | Arable area | Total number of holdings | 1 262 167 | 8 236 | 12 760 | 117 567 | 458 887 | 539 443 | 70 112 | 17 177 | | | | | | | | |
| | Productive area | Total number of holdings | 244 205 | 13 777 | 21 615 | 29 399 | 37 062 | 59 539 | 42 374 | 25 502 | 3 312 | | | | | | | |
| United Kingdom (6) | Arable area | Total number of holdings | 17 144 777 | 15 142 | 70 874 | 216 774 | 533 733 | 1 967 213 | 3 005 847 | 3 516 936 | 4 402 610 | | | | | | | |
| | Total area | Number of holdings | 239 081 | 43 959 | 25 677 | 18 279 | 12 355 | 12 903 | 14 014 | 17 966 | 27 615 | 19 924 | 31 607 | | | | | |
| OCEANIA (7) | Arable area | Area of holdings | 607 511 | 11 975 | 67 190 | 88 045 | 86 064 | 109 215 | 95 471 | 132 499 | | | | | | | | |
| | Total area | Area of holdings | 384 | 77 | 98 | 77 | 27 | 18 | 18 | 18 | | | | | | | | |
| American Samoa | Total area | Total number of holdings | 2 349 | 35 | 268 | 454 | 340 | 1 136 | 1 136 | 1 136 | 19 924 | | | | | | | |
| | Total area | Total number of holdings | 129 540 | 3 368 | 3 052 | 3 052 | 4 808 | 4 808 | 4 808 | 4 808 | 27 615 | | | | | | | |
| Australia | Total area | Total number of holdings | 2 188 | 497 | 406 | 406 | 406 | 406 | 406 | 406 | | | | | | | | |
| | Total area | Total number of holdings | 2 604 | 518 | 1 425 | 1 425 | 1 425 | 1 425 | 1 425 | 1 425 | 1 407 | | | | | | | |
| Cook Islands | Total area | Total number of holdings | 95 400 | 41 320 | 18 703 | 18 703 | 18 703 | 18 703 | 18 703 | 18 703 | 1 407 | | | | | | | |
| | Total area | Total number of holdings | 591 407 | 11 358 | 65 189 | 87 283 | 85 334 | 85 334 | 85 334 | 85 334 | 152 499 | | | | | | | |
| Fiji | Arable area | Total number of holdings | 351 | 85 | 76 | 34 | 21 | 16 | 16 | 16 | | | | | | | | |
| | Total area | Total number of holdings | 5 315 | 111 | 221 | 210 | 264 | 4 458 | 4 458 | 4 458 | | | | | | | | |
| Northern Mariana Isl. | Arable area | Total number of holdings | 119 | 22 | 30 | 14 | 10 | 17 | 17 | 17 | | | | | | | | |
| | Total area | Total number of holdings | 5 836 | 13 | 87 | 98 | 126 | 5 480 | 5 480 | 5 480 | | | | | | | | |
| Western Samoa | Arable area | Total number of holdings | 11 099 | 1 162 | 3 996 | 2 399 | 1 157 | 535 | 535 | 535 | | | | | | | | |
| | Total area | Total number of holdings | 11 099 | 1 162 | 3 996 | 2 399 | 1 157 | 535 | 535 | 535 | | | | | | | | |

(1) Interpolated data are shown in *italics*; bold

(2) Includes holdings without land

(3) Due to lack of data for the period 1986 - 95, data from 1985 Agricultural Census are presented.

(4) Data by size exclude 149 Government holdings with 49 995 Ha.

(5) Data source: Eurostat - Farm Structure - 1993 Sample Survey

(6) Area classified by size of holding excludes 156 223 Ha reported by Minor Holdings.

Table 4.2
Number and area of holdings classified by size: 1990, 1980 and 1970 rounds of censuses (including only countries providing this information for the 1990 round of censuses) (Area: in hectares)

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Measure of size | Item | All holdings | 1 | | 2 | | 5 | | 10 | | 20 | | 50 | | 100 | | 200 | | 500 | | 1000 Ha and over | |
|--|----------------|--------------------------|---------------|-----------------|----------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|
| | | | | | Under 1 Ha (1) | and under 2 Ha | and under 5 Ha | and under 10 Ha | and under 20 Ha | and under 50 Ha | and under 100 Ha | and under 200 Ha | and under 500 Ha | and under 1000 Ha | and under 2000 Ha | and under 5000 Ha | and under 10000 Ha | and under 20000 Ha | and under 50000 Ha | and under 100000 Ha | and under 200000 Ha | and under 500000 Ha | and under 1000000 Ha | and under 2000000 Ha |
| TOTAL [44] | 1990 | Number of holdings | 151 212 511 | 75 699 381 | 26 451 206 | 28 060 641 | 10 127 924 | 5 202 774 | 2 872 663 | 1 330 319 | 744 481 | 462 175 | 202 682 | 58 865 | | | | | | | | | | |
| [39] | 1980 | Number of holdings | 124 320 266 | 55 392 370 | 22 105 627 | 24 638 792 | 10 628 132 | 5 339 202 | 3 394 161 | 1 347 851 | 759 111 | 465 965 | 193 469 | 55 586 | | | | | | | | | | |
| [35] | 1970 | Number of holdings | 105 550 032 | 44 375 649 | 18 976 960 | 21 196 277 | 9 414 984 | 5 331 663 | 3 404 129 | 1 383 574 | 804 636 | 441 134 | 129 184 | 91 622 | | | | | | | | | | |
| TOTAL [43] | 1990 | Area of holdings | 1 241 111 661 | 29 728 243 | 37 297 634 | 84 946 791 | 70 792 296 | 80 157 775 | 91 136 526 | 121 783 604 | 108 363 449 | 140 319 865 | 279 236 893 | 197 348 585 | | | | | | | | | | |
| [39] | 1980 | Area of holdings | 1 192 817 689 | 22 780 580 | 31 512 115 | 77 878 516 | 76 371 128 | 76 249 400 | 105 503 669 | 102 785 434 | 105 612 705 | 142 516 966 | 256 020 642 | 195 586 534 | | | | | | | | | | |
| [35] | 1970 | Area of holdings | 1 130 273 691 | 18 273 338 | 26 184 742 | 67 751 695 | 70 453 141 | 78 456 025 | 107 407 143 | 100 788 414 | 119 245 267 | 134 429 538 | 88 028 515 | 319 255 973 | | | | | | | | | | |
| AFRICA [4] | 1990 | Number of holdings | 10 815 638 | 8 388 213 | 1 765 822 | 632 268 | 28 036 | 1 404 | 195 | | | | | | | | | | | | | | | |
| [2] | 1980 | Number of holdings | 4 818 088 | 2 407 891 | 1 282 112 | 954 344 | 165 111 | 8 630 | | | | | | | | | | | | | | | | |
| [3] | 1970 | Number of holdings | 2 763 148 | 1 136 479 | 1 042 210 | 543 701 | 36 001 | 4 757 | | | | | | | | | | | | | | | | |
| AFRICA [3] | 1990 | Area of holdings | 7 325 874 | 3 301 712 | 2 273 859 | 1 588 757 | 123 204 | 18 344 | 19 998 | | | | | | | | | | | | | | | |
| [2] | 1980 | Area of holdings | 6 936 234 | 1 202 470 | 1 852 790 | 2 611 035 | 1 066 289 | 203 650 | | | | | | | | | | | | | | | | |
| [3] | 1970 | Area of holdings | 4 271 469 | 1 551 528 | 1 551 885 | 1 619 614 | 298 356 | 70 106 | | | | | | | | | | | | | | | | |
| Congo, Dem. Rep. of | 1990 | Cultivated area | 4 479 600 | 3 882 900 | 468 100 | 128 600 | | | | | | | | | | | | | | | | | | |
| | 1970 | Cultivated area | 2 536 616 | 1 052 684 | 974 056 | 479 157 | 25 962 | 4 757 | | | | | | | | | | | | | | | | |
| | 1990 | Cultivated area | 2 387 700 | 1 500 400 | 552 500 | 334 800 | 200 192 | 70 106 | | | | | | | | | | | | | | | | |
| | 1970 | Cultivated area | 3 821 916 | 686 007 | 1 448 857 | 1 417 754 | | | | | | | | | | | | | | | | | | |
| Ethiopia | 1999/92 | Total number of holdings | 6 091 840 | 4 392 500 | 452 670 | 18 040 | 990 | 8 200 | | | | | | | | | | | | | | | | |
| | 1989/92 | Total number of holdings | 4 871 020 | 1 796 780 | 1 715 800 | 1 238 800 | 107 700 | 11 940 | | | | | | | | | | | | | | | | |
| | 1977 | Total number of holdings | 6 862 200 | 1 194 100 | 1 845 900 | 2 593 900 | 1 056 800 | 171 500 | | | | | | | | | | | | | | | | |
| Lesotho | 1990 | Total number of holdings | 229 300 | 107 400 | 67 000 | 46 600 | 8 100 | | | | | | | | | | | | | | | | | |
| | 1970 | Total number of holdings | 187 421 | 54 905 | 63 314 | 60 544 | 8 658 | | | | | | | | | | | | | | | | | |
| | 1990 | Cropland area | 372 342 | 32 288 | 95 017 | 183 376 | 61 661 | | | | | | | | | | | | | | | | | |
| | 1970 | Cropland area | 15 198 | 5 413 | 3 082 | 4 198 | 1 896 | 414 | 195 | | | | | | | | | | | | | | | |
| Reunion | 1989 | Agricultural area | 20 788 | 10 591 | 3 912 | 4 744 | 1 111 | 430 | | | | | | | | | | | | | | | | |
| | 1979 | Agricultural area | 39 111 | 28 890 | 4 840 | 4 000 | 1 381 | | | | | | | | | | | | | | | | | |
| | 1973 | Agricultural area | 67 154 | 4 532 | 5 559 | 15 157 | 15 504 | 6 404 | 19 998 | | | | | | | | | | | | | | | |
| | 1989 | Agricultural area | 74 034 | 8 370 | 6 890 | 17 135 | 9 489 | 32 150 | | | | | | | | | | | | | | | | |
| | 1979 | Agricultural area | 77 231 | 14 233 | 8 011 | 18 484 | 36 503 | | | | | | | | | | | | | | | | | |
| NORTH AND CENTRAL AMERICA [9] | 1990 | Number of holdings | 2 385 744 | 141 044 | 33 357 | 271 704 | 179 463 | 231 423 | 447 779 | 393 316 | 312 515 | 245 146 | 129 874 | 103 | | | | | | | | | | |
| [8] | 1980 | Number of holdings | 2 692 101 | 90 282 | 28 703 | 293 468 | 200 168 | 261 776 | 547 498 | 502 369 | 385 055 | 259 306 | 123 364 | 112 | | | | | | | | | | |
| [6] | 1970 | Number of holdings | 2 912 028 | 119 155 | 66 915 | 129 613 | 179 855 | 294 986 | 649 887 | 639 570 | 463 830 | 252 169 | 70 169 | 45 879 | | | | | | | | | | |
| NORTH AND CENTRAL AMERICA [9] | 1990 | Area of holdings | 395 757 637 | 30 154 | 41 446 | 554 809 | 1 239 412 | 3 998 795 | 14 675 788 | 27 978 615 | 44 145 463 | 74 172 969 | 226 968 651 | 551 535 | | | | | | | | | | |
| [8] | 1980 | Area of holdings | 396 829 121 | 23 097 | 35 971 | 605 226 | 1 420 731 | 3 923 894 | 18 098 255 | 35 587 344 | 54 068 200 | 77 759 240 | 204 994 677 | 313 486 | | | | | | | | | | |
| [6] | 1970 | Area of holdings | 433 050 198 | 41 626 | 90 492 | 423 418 | 1 326 102 | 4 269 333 | 21 683 672 | 45 311 407 | 65 087 810 | 75 549 842 | 47 361 360 | 171 905 136 | | | | | | | | | | |
| Bahamas | 1994 | Total number of holdings | 1 760 | 639 | 437 | 360 | 140 | 78 | 50 | 56 | | | | | | | | | | | | | | |
| | 1978 | Cultivated area | 4 246 | 2 089 | 905 | 782 | 255 | 110 | 53 | 52 | | | | | | | | | | | | | | |
| | 1994 | Total area | 20 336 | 290 | 584 | 1 025 | 872 | 966 | 1 456 | 15 143 | | | | | | | | | | | | | | |
| | 1978 | Cultivated area | 36 246 | 841 | 1 222 | 2 284 | 1 668 | 1 495 | 1 540 | 27 196 | | | | | | | | | | | | | | |
| Grenada | 1995 | Total number of holdings | 18 277 | 15 534 | 1 372 | 978 | 243 | 74 | 75 | | | | | | | | | | | | | | | |
| | 1981 | Total number of holdings | 8 202 | 6 074 | 1 171 | 661 | 174 | 60 | 62 | | | | | | | | | | | | | | | |
| | 1995 | Total area | 14 164 | 1 950 | 1 591 | 1 583 | 1 598 | 980 | 4 262 | | | | | | | | | | | | | | | |
| | 1981 | Total area | 13 858 | 2 430 | 1 875 | 2 109 | 1 234 | 854 | 5 356 | | | | | | | | | | | | | | | |

Table 4.2

Number and area of holdings classified by size: 1990, 1980 and 1970 rounds of censuses (including only countries providing this information for the 1990 round of censuses) (Area: in hectares) (cont'd)

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Census year | Measure of size | Item | All holdings | Under 1 Ha (1) | | 1 and under 2 Ha | | 2 and under 5 Ha | | 5 and under 10 Ha | | 10 and under 20 Ha | | 20 and under 50 Ha | | 50 and under 100 Ha | | 100 and under 200 Ha | | 200 and under 500 Ha | | 500 and over 1000 Ha | | |
|--|----------------|-----------------------|------------------------------|-----------------|----------------------|-----------|------------------------|-----------|------------------------|------------|-------------------------|------------|--------------------------|-------------|--------------------------|---------|---------------------------|---------|----------------------------|----------|----------------------------|-----------|----------------------------|-----------|------------|
| | | | | | 1 Ha | 2 Ha | 1 Ha | 2 Ha | 5 Ha | 10 Ha | 20 Ha | 50 Ha | 100 Ha | 200 Ha | 500 Ha | 1000 Ha | 2000 Ha | 5000 Ha | 10000 Ha | 20000 Ha | 50000 Ha | 100000 Ha | 200000 Ha | 500000 Ha | 1000000 Ha |
| Guadeloupe | 1989 | Agricultural area | Total number of holdings | 16 530 | 5 301 | 4 441 | 5 204 | 1 163 | 272 | 149 | | | | | | | | | | | | | | | |
| | 1979 | Agricultural area | Total number of holdings | 18 957 | 6 078 | 4 726 | 6 374 | 1 343 | 266 | 170 | | | | | | | | | | | | | | | |
| | 1969/72 | Agricultural area | Total number of holdings | 22 577 | 9 267 | 6 716 | 5 371 | 917 | 177 | 75 | 30 | 24 | | | | | | | | | | | | | |
| | 1989 | Agricultural area | Total area | 53 559 | 3 550 | 6 988 | 17 000 | 8 274 | 4 082 | 13 665 | | | | | | | | | | | | | | | |
| | 1979 | Agricultural area | Total area | 70 503 | 4 545 | 7 877 | 22 239 | 10 294 | 4 486 | 21 062 | | | | | | | | | | | | | | | |
| Martinique | 1969/72 | Agricultural area | Total area | 68 714 | 5 267 | 9 701 | 16 728 | 37 018 | | | | | | | | | | | | | | | | | |
| | 1989 | Agricultural area | Total number of holdings | 15 460 | 9 830 | 2 086 | 2 557 | 634 | 252 | 231 | | | | | | | | | | | | | | | |
| | 1981 | Agricultural area | Total number of holdings | 19 573 | 13 211 | 2 605 | 2 557 | 661 | 268 | 271 | | | | | | | | | | | | | | | |
| | 1989 | Agricultural area | Agricultural area | 37 173 | 3 181 | 2 931 | 7 286 | 4 212 | 3 346 | 16 217 | | | | | | | | | | | | | | | |
| | 1981 | Agricultural area | Agricultural area | 41 353 | 3 974 | 3 426 | 7 523 | 4 229 | 3 610 | 18 591 | | | | | | | | | | | | | | | |
| Panama | 1990 | Total area | Total number of holdings | 213 895 | 99 905 | 24 345 | 28 698 | 16 172 | 15 232 | 16 383 | 8 115 | 3 251 | 1 460 | 231 | 103 | | | | | | | | | | |
| | 1981 | Total area | Total number of holdings | 153 194 | 62 830 | 17 801 | 20 550 | 14 179 | 13 864 | 13 845 | 6 010 | 2 625 | 1 164 | 214 | 112 | | | | | | | | | | |
| | 1971 | Total area | Total number of holdings | 115 364 | 30 124 | 14 859 | 19 509 | 13 937 | 14 179 | 14 138 | 5 526 | 1 920 | 853 | 211 | 108 | | | | | | | | | | |
| | 1990 | Total area | Total area | 2 941 583 | 15 162 | 27 584 | 79 804 | 103 986 | 196 241 | 486 161 | 522 322 | 412 164 | 396 453 | 150 171 | 551 535 | | | | | | | | | | |
| | 1981 | Total area | Total area | 2 258 558 | 11 307 | 20 135 | 57 757 | 91 225 | 178 465 | 407 282 | 390 620 | 330 824 | 318 565 | 138 891 | 313 486 | | | | | | | | | | |
| Puerto Rico | 1971 | Total area | Total area | 2 098 062 | 5 243 | 16 717 | 55 135 | 89 971 | 182 521 | 415 008 | 363 439 | 252 262 | 238 270 | 138 360 | 341 136 | | | | | | | | | | |
| | 1987 | Total area | Total number of holdings | 20 245 | | 11 291 | 11 291 | 3 520 | 2 418 | 1 688 | 674 | 654 | | | | | | | | | | | | | |
| | 1978 | Total area | Total number of holdings | 11 211 | | 1 346 | 2 572 | 2 390 | 2 005 | 1 500 | 707 | 281 | | | | | | | | | | | | | |
| | 1970 | Total area | Total number of holdings | 32 687 | 2 477 | 5 108 | 12 096 | 5 683 | 3 543 | 2 001 | 810 | 557 | 412 | | | | | | | | | | | | |
| | 1987 | Total area | Total area | 348 530 | | 20 138 | 20 138 | 23 879 | 32 128 | 51 603 | 45 777 | 175 005 | | | | | | | | | | | | | |
| Saint Lucia | 1987 | Total area | Total area | 337 495 | | 1 321 | 8 146 | 16 413 | 26 649 | 46 596 | 48 884 | 56 810 | 132 676 | | | | | | | | | | | | |
| | 1978 | Total area | Total area | 525 000 | | 6 000 | 34 000 | 38 000 | 47 000 | 61 000 | 61 000 | 87 000 | 195 000 | | | | | | | | | | | | |
| | 1986 | Total area | Total number of holdings | 11 551 | 9 835 | 562 | 611 | 360 | 100 | 42 | 16 | 12 | 13 | | | | | | | | | | | | |
| | 1974 | Total area | Total number of holdings | 10 938 | 7 625 | 1 435 | 1 229 | 325 | 201 | 66 | 20 | 18 | 19 | | | | | | | | | | | | |
| | 1986 | Total area | Total area | 23 478 | 5 388 | 1 315 | 2 184 | 2 375 | 1 319 | 1 242 | 1 099 | 1 479 | 7 077 | | | | | | | | | | | | |
| U.S.A. | 1974 | Total area | Total area | 29 138 | 2 095 | 2 034 | 3 447 | 1 972 | 2 541 | 2 102 | 1 534 | 2 486 | 10 927 | | | | | | | | | | | | |
| | 1987 | Total area | Total number of holdings | 2 087 759 | | 222 077 | 222 077 | 157 220 | 212 970 | 429 141 | 394 448 | 308 593 | 243 667 | 129 643 | | | | | | | | | | | |
| | 1979 | Total area | Total number of holdings (2) | 2 476 340 | | 259 865 | 259 865 | 181 122 | 245 178 | 531 574 | 495 588 | 382 010 | 257 853 | 123 150 | | | | | | | | | | | |
| | 1969 | Total area | Total number of holdings | 2 730 250 | 69 604 | 38 766 | 91 368 | 158 970 | 276 868 | 633 568 | 533 177 | 461 304 | 250 876 | 69 958 | 45 771 | | | | | | | | | | |
| | 1987 | Total area | Total area | 390 311 617 | | 424 014 | 424 014 | 1 094 014 | 3 159 370 | 14 100 582 | 27 393 780 | 43 558 049 | 73 764 941 | 226 818 480 | | | | | | | | | | | |
| Virgin Islands (US) | 1979 | Total area (2) | Total area | 394 061 235 | | 504 869 | 504 869 | 1 295 377 | 3 707 989 | 17 597 156 | 53 679 232 | 77 301 030 | 204 855 786 | | | | | | | | | | | | |
| | 1969 | Total area | Total area | 430 321 000 | | 314 000 | 314 000 | 1 159 000 | 4 037 000 | 21 205 000 | 44 890 000 | 64 745 000 | 75 100 000 | 47 223 000 | 171 564 000 | | | | | | | | | | |
| | 1987 | Total area | Total number of holdings | 267 | | 114 | 58 | 31 | 27 | 19 | 7 | 5 | 6 | | | | | | | | | | | | |
| | 1978 | Total area | Total number of holdings | 378 | | 149 | 107 | 44 | 25 | 23 | 12 | 10 | 8 | | | | | | | | | | | | |
| | 1970 | Total area | Total number of holdings | 212 | 58 | 31 | 40 | 23 | 18 | 19 | 7 | 7 | 9 | | | | | | | | | | | | |
| SOUTH AMERICA [4] | 1987 | Total area | Total area | 7 197 | | 94 | 180 | 202 | 363 | 600 | 494 | 766 | 4 498 | | | | | | | | | | | | |
| | 1978 | Total area | Total area | 9 873 | | 115 | 299 | 290 | 346 | 672 | 848 | 1 334 | 5 969 | | | | | | | | | | | | |
| | 1970 | Total area | Total area | 8 284 | 21 | 40 | 108 | 141 | 271 | 562 | 434 | 1 062 | 5 645 | | | | | | | | | | | | |
| | 1990 | Number of holdings | Number of holdings | 7 888 830 | 676 292 | 652 225 | 2 336 320 | 1 099 555 | 1 012 153 | 1 033 598 | 497 417 | 287 782 | 178 506 | 61 637 | 53 345 | | | | | | | | | | |
| | [3] | Number of holdings | Number of holdings | 5 402 294 | 491 672 | 537 908 | 950 293 | 759 431 | 827 895 | 890 058 | 398 401 | 264 725 | 172 375 | 59 405 | 50 130 | | | | | | | | | | |
| SOUTH AMERICA [4] | [2] | Number of holdings | Number of holdings | 6 296 519 | 860 785 | 749 260 | 1 254 562 | 872 528 | 847 147 | 870 738 | 354 798 | 226 363 | 185 759 | 49 518 | 39 061 | | | | | | | | | | |
| | 1990 | Area of holdings | Area of holdings | 435 505 765 | 375 299 | 869 038 | 5 489 044 | 7 671 248 | 13 723 395 | 31 691 741 | 58 120 722 | 38 025 333 | 54 195 359 | 42 303 020 | 183 042 566 | | | | | | | | | | |
| | [3] | Area of holdings | Area of holdings | 389 802 301 | 286 270 | 734 571 | 3 081 176 | 5 380 511 | 11 450 049 | 27 327 256 | 27 823 458 | 35 210 149 | 52 558 446 | 40 876 728 | 182 073 587 | | | | | | | | | | |
| | [2] | Area of holdings | Area of holdings | 317 690 513 | 421 225 | 1 006 972 | 4 029 882 | 6 196 859 | 11 768 758 | 26 764 272 | 24 745 199 | 30 608 258 | 47 200 869 | 34 171 298 | 130 777 521 | | | | | | | | | | |

Table 4.2
Number and area of holdings classified by size: 1990, 1980 and 1970 rounds of censuses (including only countries providing this information for the 1990 round of censuses) (Area: in hectares) (cont'd)

| Countries by continents. | | Measure of size | Item | All holdings | Under 1 Ha (1) | 1 and under 2 Ha | 2 and under 5 Ha | 5 and under 10 Ha | 10 and under 20 Ha | 20 and under 50 Ha | 50 and under 100 Ha | 100 and under 200 Ha | 200 and under 500 Ha | 500 and under 1000 Ha | 1300 Ha and over |
|--|--------------------|--------------------------|--------------------------|--------------|----------------|------------------|------------------|-------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|------------------|
| Number of reporting countries is given in square brackets. | Census year | | | | | | | | | | | | | | |
| Totals refer to reporting countries only. | | | | | | | | | | | | | | | |
| Brazil (3) | 1985 | Total area | Total number of holdings | 5 820 988 | 645 824 | 619 828 | 1 049 666 | 770 723 | 818 157 | 910 075 | 438 192 | 283 503 | 175 003 | 60 112 | 50 105 |
| | 1980 | Total area | Total number of holdings | 5 151 155 | 469 091 | 515 515 | 903 590 | 709 823 | 771 330 | 854 051 | 391 393 | 260 714 | 169 455 | 58 352 | 47 841 |
| | 1970 | Total area | Total number of holdings | 4 905 642 | 396 846 | 488 562 | 914 835 | 719 387 | 768 448 | 824 090 | 341 854 | 215 329 | 151 514 | 47 903 | 36 874 |
| | 1985 | Total area | Total area | 376 286 577 | 366 408 | 835 816 | 3 364 936 | 5 462 618 | 11 345 762 | 28 179 753 | 30 153 422 | 37 456 184 | 53 145 325 | 41 292 068 | 164 684 305 |
| | 1980 | Total area | Total area | 364 854 421 | 280 042 | 706 942 | 2 942 802 | 5 074 510 | 10 751 394 | 26 384 898 | 27 368 050 | 34 671 996 | 51 957 472 | 40 169 719 | 164 558 635 |
| | 1970 | Total area | Total area | 294 145 456 | 236 093 | 657 544 | 3 003 485 | 5 186 364 | 10 742 832 | 25 424 849 | 23 902 023 | 29 700 402 | 45 958 057 | 33 084 216 | 116 249 591 |
| | 1989 | Agricultural area | Number of holdings | 4 480 | 729 | 1 403 | 1 902 | 269 | 177 | 89 | | | | | |
| | 1981 | Agricultural area | Number of holdings | 2 209 | 1 113 | 612 | 298 | 97 | | | | | | | |
| | 1989 | Agricultural area | Agricultural area | 20 642 | 392 | 1 791 | 5 189 | 1 751 | 11 519 | 4 465 | | | | | |
| | 1981 | Agricultural area | Agricultural area | 7 349 | 567 | 776 | 891 | 650 | 4 465 | | | | | | |
| 1991 | Total area | Total number of holdings | 307 221 | 29 939 | 30 994 | 61 817 | 66 605 | 66 223 | 66 223 | 31 519 | 7 577 | 4 279 | 3 503 | 1 525 | 3 240 |
| 1981 | Total area | Total number of holdings | 248 980 | 21 468 | 21 781 | 46 405 | 49 511 | 56 475 | 56 475 | 36 007 | 7 008 | 4 012 | 2 920 | 1 053 | 2 289 |
| 1991 | Total area | Total area | 23 817 737 | 8 499 | 31 431 | 191 374 | 430 658 | 806 802 | 806 802 | 857 909 | 502 648 | 569 169 | 1 050 034 | 1 010 952 | 18 358 261 |
| 1981 | Total area | Total area | 21 940 531 | 5 700 | 26 953 | 137 483 | 305 351 | 694 190 | 694 190 | 942 358 | 465 408 | 538 153 | 600 974 | 707 009 | 17 516 952 |
| 1994 | Total area | Total number of holdings | 1 756 141 | 483 939 | 260 698 | 1 222 935 | 261 958 | 1 222 935 | 1 222 935 | 92 004 | 51 648 | 7 034 | 4 245 | 1 615 | 2 187 |
| 1972 | Total area | Total number of holdings | 1 390 877 | 483 939 | 260 698 | 339 727 | 153 141 | 1 559 312 | 1 559 312 | 2 654 079 | 27 464 652 | 843 176 | 1 242 812 | 1 087 082 | 14 527 930 |
| 1994 | Total area | Total area | 35 381 809 | 185 132 | 349 428 | 1 927 545 | 1 776 221 | 1 010 495 | 1 025 926 | 1 339 423 | 843 176 | 907 856 | 1 242 812 | 1 087 082 | 14 527 930 |
| 1972 | Total area | Total area | 23 545 147 | 185 132 | 349 428 | 1 025 897 | 1 776 221 | 1 010 495 | 1 025 926 | 1 339 423 | 843 176 | 907 856 | 1 242 812 | 1 087 082 | 14 527 930 |
| 1990 | Number of holdings | Number of holdings | 120 286 411 | 64 084 227 | 22 693 620 | 22 788 626 | 7 503 896 | 8 057 848 | 2 847 644 | 314 672 | 46 049 | 8 993 | 3 203 | 441 | 441 |
| 1980 | Number of holdings | Number of holdings | 101 079 590 | 50 066 282 | 18 747 042 | 20 386 997 | 8 057 848 | 8 057 848 | 2 936 861 | 787 534 | 53 994 | 2 112 | 761 | 159 | 159 |
| 1970 | Number of holdings | Number of holdings | 80 752 375 | 39 477 896 | 15 444 879 | 16 204 956 | 6 322 441 | 2 520 879 | 2 520 879 | 686 498 | 94 812 | 14 | | | |
| 1990 | Area of holdings | Area of holdings | 239 057 990 | 26 157 827 | 32 194 426 | 69 677 982 | 50 444 024 | 50 444 024 | 44 869 801 | 9 427 669 | 3 767 847 | 1 123 143 | 916 327 | 478 944 | 478 944 |
| 1980 | Area of holdings | Area of holdings | 234 359 303 | 20 003 946 | 26 286 240 | 63 158 606 | 54 567 434 | 38 826 305 | 38 826 305 | 22 250 484 | 8 276 088 | 248 230 | 224 058 | 477 952 | 477 952 |
| 1970 | Area of holdings | Area of holdings | 194 317 233 | 16 245 638 | 22 002 833 | 50 924 762 | 43 400 000 | 33 483 000 | 33 483 000 | 18 833 000 | 9 424 000 | 4 000 | | | |
| 1986 | Total area | Total number of holdings | 97 155 000 | 56 147 000 | 17 922 000 | 16 152 222 | 5 015 778 | 5 015 778 | 1 918 000 | 460 000 | 47 000 | | | | |
| 1977 | Total area | Total number of holdings | 81 569 000 | 44 523 000 | 14 728 000 | 14 497 000 | 5 381 000 | 5 381 000 | 1 943 000 | 460 000 | 47 000 | | | | |
| 1971 | Total area | Total number of holdings | 70 493 000 | 35 662 000 | 13 432 000 | 13 365 000 | 5 248 000 | 5 248 000 | 2 135 000 | 566 000 | 65 000 | | | | |
| 1986 | Total area | Total area | 164 562 000 | 22 042 000 | 25 708 000 | 49 440 487 | 34 369 513 | 33 002 000 | 33 002 000 | 12 310 000 | 4 528 000 | | | | |
| 1977 | Total area | Total area | 163 343 000 | 17 509 000 | 20 905 000 | 44 989 000 | 37 087 000 | 26 035 000 | 26 035 000 | 12 310 000 | 4 528 000 | | | | |
| 1971 | Total area | Total area | 162 124 000 | 14 545 000 | 19 282 000 | 41 928 000 | 36 305 000 | 28 521 000 | 28 521 000 | 15 572 000 | 5 971 000 | | | | |
| 1990 | Cropland area | Total number of holdings | 1 768 501 | 1 051 851 | 543 182 | 173 458 | | | | | | | | | |
| 1980 | Cropland area | Total number of holdings | 2 157 555 | 1 388 928 | 629 438 | 139 189 | | | | | | | | | |
| 1970 | Cropland area | Total number of holdings | 2 421 420 | 1 620 438 | 639 788 | 161 194 | | | | | | | | | |
| 1990 | Cropland area | Agricultural area | 1 857 491 | 567 691 | 765 943 | 523 857 | | | | | | | | | |
| 1980 | Cropland area | Agricultural area | 2 025 795 | 755 069 | 889 756 | 400 970 | | | | | | | | | |
| 1970 | Cropland area | Agricultural area | 2 132 253 | 820 638 | 862 833 | 448 762 | | | | | | | | | |
| 1992 | Total area | Total number of holdings | 2 736 050 | 1 909 811 | 529 467 | 256 614 | 31 952 | 8 206 | 8 206 | 1 512 | 147 | 14 | | | |
| 1982 | Total area | Total number of holdings | 2 193 956 | 1 463 321 | 379 051 | 276 630 | 60 082 | 14 872 | 14 872 | 1 512 | 147 | 14 | | | |
| 1972 | Total area | Total number of holdings | 1 721 546 | 1 335 478 | 190 295 | 146 437 | 36 666 | 10 997 | 10 997 | 1 512 | 147 | 14 | | | |
| 1992 | Total area | Total area | 2 598 971 | 793 454 | 716 532 | 728 316 | 209 338 | 151 331 | 151 331 | 43 000 | 9 000 | 4 000 | | | |
| 1982 | Total area | Total area | 2 463 717 | 426 929 | 480 413 | 855 282 | 388 679 | 322 434 | 322 434 | 43 000 | 9 000 | 4 000 | | | |
| 1972 | Total area | Total area | 1 654 000 | 450 000 | 287 000 | 456 000 | 256 000 | 149 000 | 149 000 | 43 000 | 9 000 | 4 000 | | | |

Table 4.2

Number and area of holdings classified by size: 1990, 1980 and 1970 rounds of censuses (including only countries providing this information for the 1990 round of censuses) (Area: in hectares) (cont'd)

| Countries by continents. | | Measure of size | Item | All holdings | 1 | | 2 | | 5 | | 10 | | 20 | | 50 | | 100 | | 200 | | 500 | | 1000 Ha and over | | |
|--|-------------------|--------------------------|--------------------------|--------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|----------------------|----------------------|----------------------|
| Number of reporting countries is given in square brackets. | Census year | | | | Under 1 Ha (1) | and under 2 Ha | and under 5 Ha | and under 10 Ha | and under 20 Ha | and under 50 Ha | and under 100 Ha | and under 200 Ha | and under 500 Ha | and under 1000 Ha | and under 2000 Ha | and under 5000 Ha | and under 10000 Ha | and under 20000 Ha | and under 50000 Ha | and under 100000 Ha | and under 200000 Ha | and under 500000 Ha | and under 1000000 Ha | and under 2000000 Ha | and under 5000000 Ha |
| Pakistani (4) | 1989 | Total area | Total number of holdings | 5 070 963 | 1 367 771 | 1 036 286 | 1 698 632 | 623 110 | 237 929 | 85 297 | 21 888 | | | | | | | | | | | | | | |
| | 1990 | Total area | Total number of holdings | 4 069 419 | 701 380 | 685 014 | 1 602 085 | 706 395 | 263 989 | 89 989 | 20 587 | | | | | | | | | | | | | | |
| | 1971/73 | Total area | Total number of holdings | 3 761 940 | 520 617 | 538 421 | 1 500 772 | 793 928 | 289 146 | 94 951 | 24 105 | | | | | | | | | | | | | | |
| | 1989 | Total area | Total area | 19 149 637 | 703 523 | 1 446 796 | 5 283 232 | 4 134 346 | 3 032 872 | 2 279 270 | 2 269 598 | | | | | | | | | | | | | | |
| | 1990 | Total area | Total area | 19 058 970 | 703 640 | 972 766 | 5 192 935 | 4 703 818 | 3 392 721 | 2 463 823 | 1 962 267 | | | | | | | | | | | | | | |
| | 1971/73 | Total area | Total area | 19 913 000 | 268 000 | 769 000 | 4 993 000 | 5 286 000 | 3 729 000 | 2 605 000 | 2 605 000 | | | | | | | | | | | | | | |
| | 1991 | Total area | Total number of holdings | 4 610 041 | 1 685 380 | 1 314 492 | 1 176 348 | 325 243 | 85 582 | 22 996 | 5 560 | | | | | | | | | | | | | | |
| | 1981 | Total area | Total number of holdings | 3 420 323 | 775 791 | 964 220 | 1 201 975 | 360 006 | 92 645 | 25 686 | | | | | | | | | | | | | | | |
| | 1971 | Total area | Total number of holdings | 2 354 469 | 319 563 | 644 375 | 1 031 553 | 243 847 | 85 736 | 24 035 | | | | | | | | | | | | | | | |
| | 1991 | Total area | Total area | 9 974 871 | 728 112 | 1 582 728 | 3 290 262 | 2 046 380 | 1 040 686 | 1 286 703 | | | | | | | | | | | | | | | |
| | 1981 | Total area | Total area | 9 749 200 | 369 000 | 1 189 900 | 2 242 900 | 2 242 900 | 1 128 591 | 1 419 809 | | | | | | | | | | | | | | | |
| | 1971 | Total area | Total area | 8 494 000 | 162 000 | 802 000 | 3 099 000 | 1 553 000 | 1 084 000 | 613 000 | | | | | | | | | | | | | | | |
| 1988 | Total area | Total number of holdings | 4 877 424 | 1 187 821 | 596 037 | 2 081 693 | 794 664 | 214 504 | 32 605 | | | | | | | | | | | | | | | | |
| 1978 | Total area | Total number of holdings | 4 018 427 | 638 664 | 834 138 | 1 505 496 | 811 989 | 200 832 | 27 308 | | | | | | | | | | | | | | | | |
| 1988 | Total area | Total area | 17 463 921 | 1 005 232 | 970 177 | 6 544 992 | 5 009 378 | 2 721 249 | 1 212 983 | | | | | | | | | | | | | | | | |
| 1988 | Total area | Total area | 14 954 592 | 341 498 | 1 148 784 | 4 727 281 | 4 839 213 | 4 727 281 | 888 144 | | | | | | | | | | | | | | | | |
| 1991 | Total area | Total number of holdings | 4 068 432 | 734 683 | 752 156 | 1 274 609 | 713 149 | 383 323 | 173 774 | | | | | | | | | | | | | | | | |
| 1980 | Total area | Total number of holdings | 3 650 910 | 575 198 | 527 181 | 1 184 642 | 478 376 | 421 523 | 194 551 | | | | | | | | | | | | | | | | |
| 1991 | Total area | Total area | 23 451 099 | 317 815 | 1 004 250 | 3 866 896 | 6 675 069 | 4 921 663 | 4 921 663 | | | | | | | | | | | | | | | | |
| 1980 | Total area | Total area | 22 764 029 | 231 810 | 709 621 | 3 614 158 | 4 839 213 | 5 424 498 | 5 208 688 | | | | | | | | | | | | | | | | |
| 1990 | Total area | Number of holdings | 9 739 334 | 2 368 064 | 1 294 776 | 2 017 816 | 1 303 526 | 1 103 760 | 1 073 195 | | | | | | | | | | | | | | | | |
| [15] | 1990 | Total area | Number of holdings | 10 258 188 | 2 291 477 | 1 504 689 | 2 043 850 | 1 440 069 | 1 301 566 | | | | | | | | | | | | | | | | |
| [16] | 1970 | Total area | Number of holdings | 12 789 697 | 2 751 508 | 1 689 309 | 3 084 904 | 1 996 072 | 1 650 185 | | | | | | | | | | | | | | | | |
| 1990 | Total area | Area of holdings | 167 313 342 | 1 356 726 | 2 460 733 | 7 920 391 | 11 241 867 | 18 067 780 | 35 232 113 | | | | | | | | | | | | | | | | |
| [15] | 1990 | Total area | Area of holdings | 167 668 688 | 1 264 118 | 2 602 074 | 8 405 844 | 13 906 605 | 21 843 579 | | | | | | | | | | | | | | | | |
| [16] | 1970 | Total area | Area of holdings | 184 955 849 | 1 551 683 | 3 078 013 | 12 348 302 | 19 476 288 | 28 885 841 | | | | | | | | | | | | | | | | |
| Austria | 1990 | Total area | Total number of holdings | 273 210 | 8 890 | 29 804 | 58 104 | 48 678 | 54 508 | | | | | | | | | | | | | | | | |
| | 1990 | Productive area | Total number of holdings | 312 418 | 20 907 | 33 641 | 60 025 | 52 495 | 63 632 | | | | | | | | | | | | | | | | |
| | 1969 | Productive area | Total number of holdings | 362 216 | 34 171 | 41 669 | 71 034 | 62 281 | 73 464 | | | | | | | | | | | | | | | | |
| | 1990 | Total area | Total area | 7 217 498 | 6 570 | 62 788 | 287 208 | 490 221 | 973 319 | 2 004 177 | | | | | | | | | | | | | | | |
| 1979 | Productive area | Total area | 7 325 853 | 10 742 | 52 227 | 208 289 | 393 117 | 975 457 | 2 019 035 | | | | | | | | | | | | | | | | |
| 1969 | Productive area | Total area | 7 490 463 | 26 485 | 64 518 | 245 121 | 463 905 | 1 104 026 | 1 925 931 | | | | | | | | | | | | | | | | |
| 1990 | Agricultural area | Total number of holdings | 87 180 | 12 698 | 7 385 | 13 537 | 12 922 | 16 944 | 18 783 | | | | | | | | | | | | | | | | |
| 1979 | Agricultural area | Total number of holdings | 119 277 | 25 424 | 10 411 | 16 496 | 19 031 | 25 015 | 19 136 | | | | | | | | | | | | | | | | |
| 1970 | Agricultural area | Total number of holdings | 184 005 | 53 608 | 15 373 | 28 799 | 33 059 | 33 480 | 17 089 | | | | | | | | | | | | | | | | |
| 1990 | Agricultural area | Total area | 1 400 364 | 9 667 | 12 183 | 48 834 | 98 050 | 255 189 | 586 511 | | | | | | | | | | | | | | | | |
| 1979 | Agricultural area | Total area | 1 475 140 | 16 247 | 16 433 | 59 120 | 145 594 | 370 080 | 577 079 | | | | | | | | | | | | | | | | |
| 1970 | Agricultural area | Total area | 1 602 864 | 30 416 | 24 459 | 103 714 | 251 881 | 488 619 | 500 439 | | | | | | | | | | | | | | | | |
| 1989 | Agricultural area | Total number of holdings | 81 267 | | | 14 749 | 14 749 | 19 605 | 31 348 | | | | | | | | | | | | | | | | |
| 1979 | Agricultural area | Total number of holdings | 122 722 | | | 16 660 | 21 588 | 32 098 | 40 928 | | | | | | | | | | | | | | | | |
| 1970 | Agricultural area | Total number of holdings | 140 197 | | | 14 528 | 29 510 | 43 589 | 43 904 | | | | | | | | | | | | | | | | |
| 1989 | Agricultural area | Agricultural area | 2 774 127 | | | 95 462 | 284 791 | 1 007 856 | 818 355 | | | | | | | | | | | | | | | | |
| 1979 | Agricultural area | Agricultural area | 2 919 721 | | | 39 651 | 465 679 | 1 262 565 | 612 709 | | | | | | | | | | | | | | | | |
| 1970 | Agricultural area | Agricultural area | 2 941 316 | | | 41 510 | 216 135 | 623 279 | 1 304 638 | | | | | | | | | | | | | | | | |

Table 4.2

Number and area of holdings classified by size: 1990, 1980 and 1970 rounds of censuses (including only countries providing this information for the 1990 round of censuses) (Area: in hectares) (cont'd)

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | | Measure of size | All holdings | Under 1 Ha (1) | 1 and under 2 Ha | 2 and under 5 Ha | 5 and under 10 Ha | 10 and under 20 Ha | 20 and under 50 Ha | 50 and under 100 Ha | 100 and under 200 Ha | 200 and under 500 Ha | 500 and under 1000 Ha | 1000 Ha and over |
|--|-------------------|--------------------------|-----------------|----------------------|---------------------------|---------------------------|----------------------------|-----------------------------|-----------------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|------------------------|
| Finland | 1990 | Arable area | 198 385 | | 27 114 | 41 901 | 42 786 | 47 665 | 35 108 | 4 311 | 500 | | | |
| | 1980 | Arable area | 224 721 | | 20 673 | 48 771 | 69 172 | 56 806 | 26 346 | 2 566 | 387 | | | |
| | 1970 | Total number of holdings | 297 257 | | 33 573 | 75 223 | 67 935 | 67 989 | 20 625 | 292 | 292 | | | |
| | 1990 | Total area | 12 338 439 | | 614 660 | 1 621 469 | 2 395 496 | 3 340 276 | 3 393 887 | 708 722 | 264 129 | | | |
| | 1980 | Total area | 12 800 326 | | 1 690 484 | 3 699 272 | 3 831 196 | 3 790 019 | 2 457 670 | 465 777 | 195 908 | | | |
| 1970 | Total area | 15 150 223 | | 498 156 | 2 513 225 | 5 023 987 | 4 409 763 | 2 126 332 | 381 895 | 191 865 | | | | |
| France | 1989 | Agricultural area | 1 016 755 | | 89 320 | 116 684 | 111 925 | 166 548 | 288 055 | 128 261 | 43 714 | | | |
| | 1980 | Agricultural area | 1 262 572 | | 119 671 | 149 212 | 166 719 | 243 204 | 347 319 | 114 079 | 34 538 | | | |
| | 1971 | Agricultural area | 1 587 643 | | 166 719 | 209 798 | 250 466 | 354 826 | 369 610 | 93 222 | 27 129 | | | |
| | 1989 | Agricultural area | 31 985 608 | | 121 424 | 587 839 | 1 097 744 | 2 978 714 | 10 458 826 | 9 341 299 | 7 217 668 | | | |
| | 1980 | Agricultural area | 33 648 959 | | 178 025 | 224 821 | 1 654 609 | 4 340 654 | 12 506 818 | 8 319 990 | 5 864 115 | | | |
| 1971 | Agricultural area | 35 039 217 | | 243 910 | 1 050 513 | 2 475 654 | 6 293 473 | 12 892 497 | 6 895 577 | 4 854 509 | | | | |
| Germany (5) | 1993 | Total number of holdings | 606 000 | | 29 700 | 162 000 | 95 200 | 111 700 | 141 800 | 65 600 | | | | |
| | 1979 | Total number of holdings | 850 005 | | 102 536 | 156 829 | 152 971 | 186 425 | 178 454 | 25 983 | 4 269 | | | |
| | 1971 | Total number of holdings | 1 074 637 | | 57 054 | 225 420 | 213 417 | 252 773 | 166 691 | 17 898 | 3 240 | | | |
| | 1993 | Total area | 17 022 100 | | 15 400 | 410 500 | 688 300 | 1 627 300 | 4 494 600 | 9 786 000 | 904 945 | | | |
| | 1979 | Total area | 14 487 137 | | 39 908 | 662 357 | 1 349 701 | 3 220 721 | 6 131 021 | 1 967 679 | 904 945 | | | |
| 1971 | Total area | 15 236 139 | | 88 298 | 922 529 | 1 852 995 | 4 311 461 | 5 623 646 | 1 423 739 | 741 971 | | | | |
| Greece (5) | 1993 | Total number of holdings | 819 200 | | 356 100 | 201 700 | 148 500 | 72 800 | 34 100 | 6 000 | | | | |
| | 1971 | Total number of holdings | 1 047 260 | | 236 480 | 593 960 | 164 340 | 42 760 | 8 840 | 880 | | | | |
| | 1993 | Agricultural area | 3 588 700 | | 326 500 | 566 300 | 815 100 | 791 100 | 937 000 | 102 700 | | | | |
| | 1971 | Agricultural area | 3 586 294 | | 113 482 | 1 495 060 | 1 092 600 | 552 988 | 243 258 | 88 906 | | | | |
| | 1991 | Agricultural area | 170 578 | | 1 530 | 14 717 | 24 134 | 48 265 | 59 392 | 15 701 | 3 298 | | | |
| 1979 | Agricultural area | 263 558 | | 2 469 | 30 212 | 49 691 | 72 609 | 68 825 | 15 902 | 3 849 | | | | |
| 1970 | Agricultural area | 279 450 | | 7 476 | 33 469 | 56 577 | 78 903 | 67 399 | 15 920 | 4 087 | | | | |
| 1979 | | | | | | | | | | | | | | |
| Italy | 1970 | Agricultural area | 5 650 000 | | 24 000 | 140 000 | 451 000 | 1 155 000 | 2 072 000 | 1 084 000 | 718 000 | | | |
| | 1990 | Total area | 3 023 344 | | 997 253 | 709 845 | 354 401 | 201 321 | 114 985 | 32 722 | 21 875 | | | |
| | 1982 | Total area | 3 270 560 | | 1 046 590 | 788 950 | 400 790 | 218 210 | 116 640 | 54 650 | | | | |
| | 1970 | Total area | 3 607 262 | | 1 187 295 | 889 714 | 467 362 | 240 362 | 111 103 | 29 265 | 22 098 | | | |
| | 1990 | Total area | 22 702 356 | | 481 722 | 2 210 779 | 2 436 234 | 2 747 371 | 3 432 212 | 2 217 720 | 8 361 678 | | | |
| 1982 | Total area | 23 559 924 | | 505 956 | 2 460 674 | 2 753 009 | 2 973 736 | 3 460 818 | 10 515 834 | 10 515 834 | | | | |
| 1970 | Total area | 25 064 218 | | 1 030 344 | 2 337 614 | 3 325 069 | 3 354 160 | 3 552 727 | 2 037 416 | 8 411 792 | | | | |
| Luxembourg | 1990 | Agricultural area | 3 803 | | 326 | 465 | 319 | 388 | 992 | 1 010 | 106 | | | |
| | 1980 | Agricultural area | 5 173 | | 476 | 580 | 513 | 679 | 1 807 | 744 | 43 | | | |
| | 1970 | Total number of holdings | 7 608 | | 506 | 975 | 994 | 1 547 | 2 619 | 298 | | | | |
| | 1990 | Agricultural area | 126 298 | | 149 | 1 567 | 2 301 | 5 721 | 35 329 | 67 768 | 13 180 | | | |
| | 1980 | Agricultural area | 130 061 | | 209 | 1 956 | 3 761 | 10 133 | 61 847 | 46 487 | 5 196 | | | |
| 1970 | Agricultural area | 135 143 | | 286 | 3 205 | 7 314 | 22 983 | 81 412 | 19 239 | | | | | |
| Netherlands | 1989 | Agricultural area | 127 367 | | 13 234 | 18 823 | 21 651 | 26 555 | 31 440 | 5 058 | 613 | | | |
| | 1979 | Agricultural area | 148 674 | | 16 809 | 20 586 | 27 065 | 38 553 | 30 628 | 3 382 | 362 | | | |
| | 1970 | Total number of holdings | 184 613 | | 20 494 | 28 014 | 39 155 | 52 079 | 27 881 | 2 283 | 224 | | | |
| | 1989 | Agricultural area | 1 865 031 | | 4 669 | 40 964 | 118 571 | 355 543 | 935 598 | 314 102 | 85 256 | | | |
| | 1979 | Agricultural area | 2 033 483 | | 7 345 | 67 666 | 199 136 | 554 982 | 893 304 | 215 348 | 78 732 | | | |
| 1970 | Agricultural area | 2 142 597 | | 9 711 | 94 050 | 290 172 | 736 700 | 794 010 | 143 986 | 53 624 | | | | |

Table 4.2
Number and area of holdings classified by size: 1990, 1980 and 1970 rounds of censuses (including only countries providing this information for the 1990 round of censuses) (Area: in hectares) (cont'd)

| Countries by continents. | | Measure of size | Item | All holdings | Under 1 Ha (1) | 1 and under 2 Ha | 2 and under 5 Ha | 5 and under 10 Ha | 10 and under 20 Ha | 20 and under 50 Ha | 50 and under 100 Ha | 100 and under 200 Ha | 200 and under 500 Ha | 500 and under 1000 Ha | 1000 Ha and over |
|--|-------------|--------------------|--------------------------|--------------|----------------|------------------|------------------|-------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|------------------|
| Number of reporting countries is given in square brackets. | Census year | | | | | | | | | | | | | | |
| Totals refer to reporting countries only. | | | | | | | | | | | | | | | |
| Norway | 1989 | Agricultural area | Total number of holdings | 99 382 | 4 261 | 9 343 | 23 427 | 24 969 | 25 330 | 11 194 | 801 | 57 | | | |
| | 1979 | Agricultural area | Total number of holdings | 125 302 | 7 917 | 16 637 | 37 464 | 32 716 | 21 632 | 8 228 | 655 | 53 | | | |
| | 1969 | Agricultural area | Total number of holdings | 154 977 | 12 077 | 21 237 | 55 167 | 42 240 | 17 938 | 5 822 | 496 | | | | |
| Portugal | 1989 | Agricultural area | Agricultural area | 991 077 | 2 809 | 12 937 | 77 325 | 177 475 | 355 193 | 307 374 | 50 155 | 7 809 | | | |
| | 1979 | Agricultural area | Agricultural area | 953 528 | 5 217 | 22 891 | 123 183 | 228 755 | 296 390 | 277 092 | | | | | |
| | 1969 | Agricultural area | Agricultural area | 955 333 | 8 820 | 31 217 | 184 498 | 291 655 | 241 299 | 162 832 | 35 012 | | | | |
| | 1989 | Agricultural area | Total number of holdings | 594 418 | 178 930 | 167 480 | 141 665 | 56 097 | 27 414 | 13 596 | 3 846 | 2 417 | 2 973 | | |
| | 1979 | Agricultural area | Total number of holdings | 783 944 | 348 386 | 171 984 | 156 566 | 60 395 | 26 060 | 12 068 | 3 587 | 2 146 | 1 795 | 524 | 433 |
| | 1968 | Agricultural area | Total number of holdings | 811 656 | 316 627 | 167 189 | 181 427 | 77 748 | 41 716 | 17 716 | 4 494 | 2 102 | 1 497 | 652 | 488 |
| Spain | 1989 | Agricultural area | Agricultural area | 4 005 594 | 91 833 | 230 813 | 435 287 | 386 610 | 374 771 | 407 243 | 268 912 | 338 671 | 1 471 454 | | |
| | 1979 | Productive area | Total area | 5 182 992 | 210 925 | 272 168 | 557 451 | 462 377 | 595 977 | 405 124 | 283 427 | 352 626 | 637 799 | 398 693 | 1 225 745 |
| | 1968 | Total area | Total area | 4 975 000 | 125 000 | 208 000 | 537 000 | 475 000 | 579 000 | 504 000 | 298 000 | 282 000 | 458 000 | 443 000 | 1 066 000 |
| | 1989 | Total area | Total number of holdings | 2 284 944 | 654 441 | 355 839 | 481 345 | 302 253 | 216 649 | 154 712 | 59 040 | 29 544 | 18 934 | 7 104 | 5 083 |
| | 1982 | Total area | Total number of holdings | 2 375 327 | 626 244 | 362 347 | 518 439 | 334 285 | 241 925 | 168 253 | 61 618 | 31 118 | 19 240 | 6 947 | 4 911 |
| | 1972 | Total area | Total number of holdings | 2 571 059 | 631 937 | 394 567 | 584 333 | 388 002 | 271 160 | 181 443 | 59 102 | 29 063 | 19 452 | 6 955 | 5 045 |
| Switzerland | 1989 | Total area | Total area | 42 939 208 | 287 727 | 492 127 | 1 521 460 | 2 105 962 | 2 987 042 | 4 725 044 | 4 064 342 | 4 030 124 | 5 782 870 | 4 867 110 | 12 074 570 |
| | 1982 | Total area | Total area | 44 311 769 | 264 960 | 493 854 | 1 652 679 | 2 324 654 | 3 339 424 | 5 126 525 | 4 234 152 | 4 255 428 | 5 887 565 | 4 778 802 | 11 973 726 |
| | 1972 | Total area | Total area | 45 702 620 | 271 819 | 542 170 | 1 885 029 | 2 708 630 | 3 742 303 | 5 489 373 | 4 052 560 | 3 994 376 | 5 844 423 | 4 774 876 | 12 326 861 |
| | 1989 | Productive area | Total number of holdings | 108 296 | 21 381 | 7 724 | 11 988 | 15 543 | 31 006 | 19 432 | 1 115 | 107 | | | |
| | 1979 | Cultivated area | Total number of holdings | 128 274 | 27 094 | 9 891 | 15 680 | 20 158 | 34 638 | 16 783 | 925 | 90 | 15 | | |
| | 1969 | Cultivated area | Total number of holdings | 152 859 | 32 688 | 13 445 | 22 939 | 33 469 | 38 023 | 11 475 | 706 | 88 | 26 | | |
| United Kingdom (6) | 1989 | Productive area | Productive area | 1 262 167 | 8 236 | 12 760 | 39 985 | 117 567 | 456 887 | 539 443 | 70 112 | 17 177 | 5 092 | | |
| | 1979 | Cultivated area | Total area | 1 271 545 | 11 584 | 15 124 | 53 647 | 153 415 | 501 097 | 461 134 | 58 723 | 11 729 | 9 796 | | |
| | 1969 | Cultivated area | Total area | 1 292 110 | 14 533 | 20 673 | 80 014 | 257 280 | 537 806 | 314 066 | 45 764 | 12 178 | | | |
| | 1983 | Total area | Total number of holdings | 244 205 | 13 777 | 21 615 | 21 615 | 29 399 | 37 062 | 59 539 | 42 374 | 25 502 | 11 625 | 3 312 | |
| | 1979 | Agricultural area | Total number of holdings | 268 560 | 9 420 | 9 820 | 27 390 | 32 480 | 40 080 | 68 040 | 43 580 | 24 050 | 10 640 | 3 070 | |
| | 1970 | Total area | Total number of holdings | 326 698 | 14 213 | 17 568 | 40 104 | 39 517 | 49 576 | 80 399 | 47 318 | 24 669 | 10 295 | 1 890 | 1 149 |
| OCEANIA (4) | 1990 | Total area | Total area | 17 144 777 | 13 000 | 15 142 | 70 874 | 216 774 | 533 733 | 1 967 213 | 3 005 847 | 3 516 836 | 3 415 648 | 4 402 610 | |
| | 1979 | Agricultural area | Total area | 17 568 330 | 17 140 | 17 140 | 107 760 | 249 050 | 609 230 | 2 302 700 | 3 155 120 | 3 999 610 | 3 220 930 | 4 493 790 | |
| | 1970 | Total area | Total area | 17 992 312 | 7 845 | 24 926 | 135 120 | 286 811 | 727 981 | 2 625 306 | 3 331 052 | 3 377 813 | 3 017 022 | 1 277 981 | 3 180 455 |
| | 1980 | Number of holdings | Number of holdings | 96 254 | 41 541 | 11 406 | 18 907 | 12 828 | 6 390 | 3 224 | 1 407 | 551 | | | |
| | 1980 | Number of holdings | Number of holdings | 70 005 | 44 766 | 5 173 | 9 840 | 5 505 | 2 474 | 1 449 | 798 | | | | |
| | 1970 | Number of holdings | Number of holdings | 36 565 | 9 826 | 4 407 | 8 541 | 8 087 | 3 709 | 1 977 | 18 | | | | |
| OCEANIA (4) | 1990 | Area of holdings | Area of holdings | 604 907 | 11 457 | 16 391 | 65 765 | 88 045 | 86 064 | 109 215 | 95 471 | 132 499 | | | |
| | 1980 | Area of holdings | Area of holdings | 296 076 | 9 049 | 7 259 | 33 764 | 39 047 | 34 073 | 45 962 | 126 922 | | | | |
| | 1970 | Area of holdings | Area of holdings | 259 798 | 3 166 | 6 432 | 25 731 | 53 692 | 49 093 | 113 632 | 7 952 | | | | |
| American Samoa | 1990 | Total area | Total number of holdings | 384 | 87 | 87 | 98 | 77 | 27 | 18 | | | | | |
| | 1979 | Total area | Total number of holdings | 1 331 | 535 | 467 | 278 | 34 | 11 | 6 | | | | | |
| | 1970 | Total area | Total number of holdings | 1 923 | 783 | 598 | 394 | 86 | 53 | 9 | | | | | |
| 1990 | Total area | Total area | Total area | 2 349 | 35 | 116 | 268 | 454 | 340 | 1 136 | | | | | |
| | Total area | Total area | Total area | 2 428 | 268 | 620 | 694 | 199 | 142 | 505 | | | | | |
| | Total area | Total area | Total area | 4 212 | 1 201 | 1 117 | 1 117 | 500 | 636 | 758 | | | | | |

Table 4.2

Number and area of holdings classified by size: 1990, 1980 and 1970 rounds of censuses (including only countries providing this information for the 1990 round of censuses) (Area: in hectares) (cont'd)

| Countries by continents. Number of reporting countries is given in square brackets. Totals refer to reporting countries only. | Year Census year | Measure of size | Item | All holdings | Under 1 Ha (1) | 1 | | 2 | | 5 | | 10 | | 20 | | 50 | | 100 | | 200 | | 500 | | 1000 Ha and over | |
|--|------------------------|-----------------------|--------------------------|-----------------|----------------------|----------------------|--------|----------------------|--------|-----------------------|---------|-----------------------|-------|-----------------------|--------|------------------------|--------|------------------------|--------|------------------------|---------|-------------|--|------------------------|--|
| | | | | | | and under 2 Ha | 5 Ha | and under 5 Ha | 10 Ha | and under 10 Ha | 20 Ha | and under 20 Ha | 50 Ha | and under 50 Ha | 100 Ha | and under 100 Ha | 200 Ha | and under 200 Ha | 500 Ha | and under 500 Ha | 1000 Ha | and over | | | |
| Fiji | 1991 | Total area | Total number of holdings | 95 400 | 41 320 | 11 211 | 18 703 | 12 703 | 6 332 | 3 173 | 1 407 | 551 | | | | | | | | | | | | | |
| | 1978 | Total area | Total number of holdings | 66 376 | 42 662 | 4 427 | 9 283 | 5 382 | 2 427 | 1 409 | 786 | | | | | | | | | | | | | | |
| | 1969 | Total area | Total number of holdings | 33 521 | 8 508 | 3 533 | 7 972 | 7 945 | 3 620 | 1 943 | | | | | | | | | | | | | | | |
| | 1991 | Total area | Total area | 591 407 | 11 358 | 16 132 | 65 189 | 87 283 | 85 334 | 98 141 | 95 471 | 132 499 | | | | | | | | | | | | | |
| | 1978 | Total area | Total area | 277 134 | 8 308 | 6 307 | 32 315 | 38 257 | 33 448 | 41 062 | 117 437 | | | | | | | | | | | | | | |
| | 1969 | Total area | Total area | 245 000 | 3 000 | 5 000 | 24 000 | 53 000 | 48 000 | 112 000 | | | | | | | | | | | | | | | |
| Guam | 1987 | Total area | Total number of holdings | 351 | 118 | 86 | 76 | 34 | 21 | 16 | | | | | | | | | | | | | | | |
| | 1978 | Total area | Total number of holdings | 1 999 | 1 525 | 225 | 157 | 47 | 19 | 14 | 12 | | | | | | | | | | | | | | |
| | 1970 | Total area | Total number of holdings | 1 121 | 535 | 276 | 175 | 56 | 36 | 25 | 18 | | | | | | | | | | | | | | |
| | 1987 | Total area | Total area | 5 315 | 51 | 111 | 221 | 210 | 264 | 4 458 | | | | | | | | | | | | | | | |
| Northern Mariana Isl. | 1978 | Total area | Total area | 11 582 | 452 | 252 | 422 | 322 | 263 | 386 | 9 485 | | | | | | | | | | | | | | |
| | 1970 | Total area | Total area | 10 586 | 166 | 231 | 614 | 392 | 457 | 774 | 7 952 | | | | | | | | | | | | | | |
| | 1990 | Total area | Total number of holdings | 119 | 26 | 22 | 30 | 14 | 10 | 17 | | | | | | | | | | | | | | | |
| | 1990 | Total area | Total area | 299 | 44 | 54 | 122 | 42 | 17 | 20 | | | | | | | | | | | | | | | |
| 1990 | Total area | Total area | 5 836 | 13 | 32 | 87 | 98 | 98 | 126 | 5 480 | | | | | | | | | | | | | | | |
| | 1990 | Total area | Total area | 4 932 | 21 | 80 | 333 | 269 | 220 | 4 009 | | | | | | | | | | | | | | | |

(1) Includes holdings without land.

(2) Excluding 328 904 "abnormal holdings" (i.e. institutional, experimental, research farms and Indian Reservations) with an area of 26 313 102 Ha.

(3) Due to lack of data for the period 1986 - 95, data from 1985 Agricultural Census are presented.

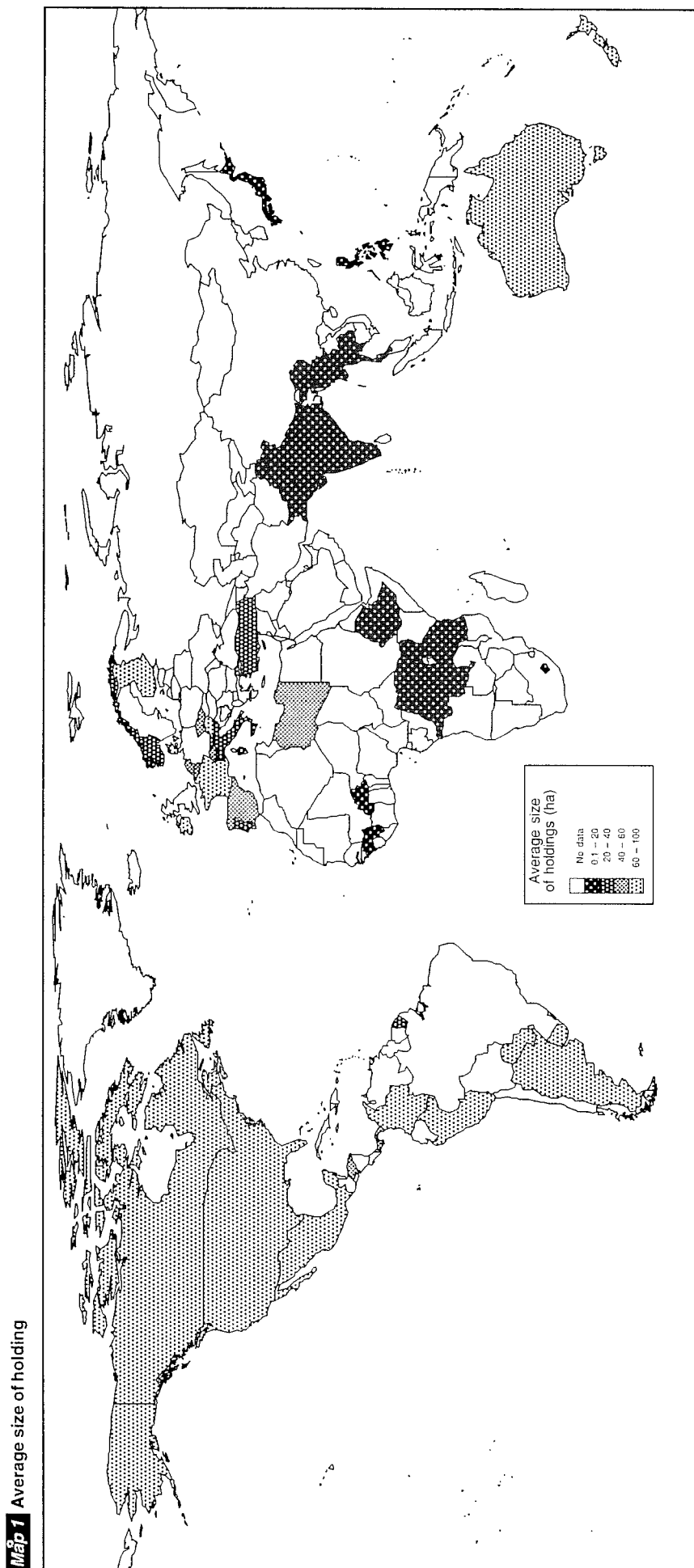
(4) Data by size exclude 149 Government holdings with 49 995 Ha.

(5) Data source: Eurostat - Farm Structure - 1993 Sample Survey.

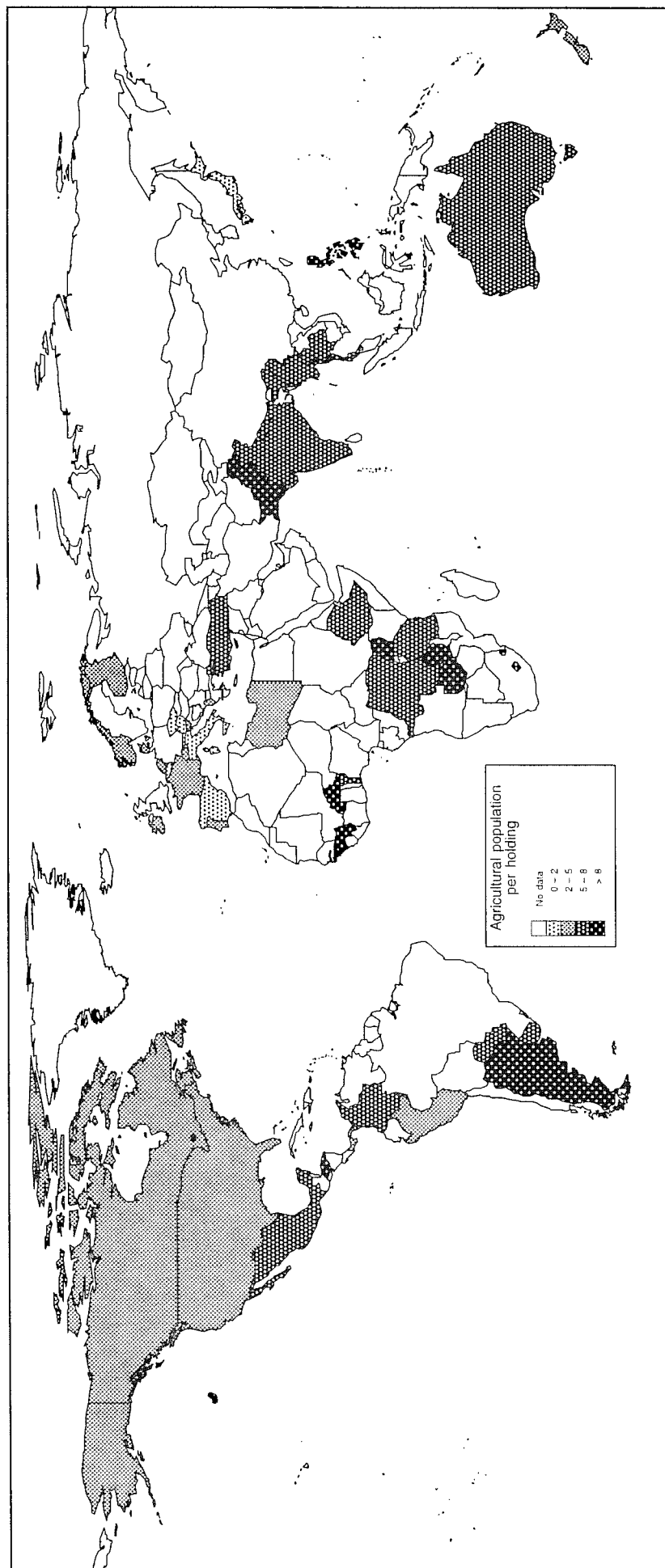
(6) Area classified by size of holding for 1993 excludes 156 223 Ha reported by Minor Holdings.

International Comparison

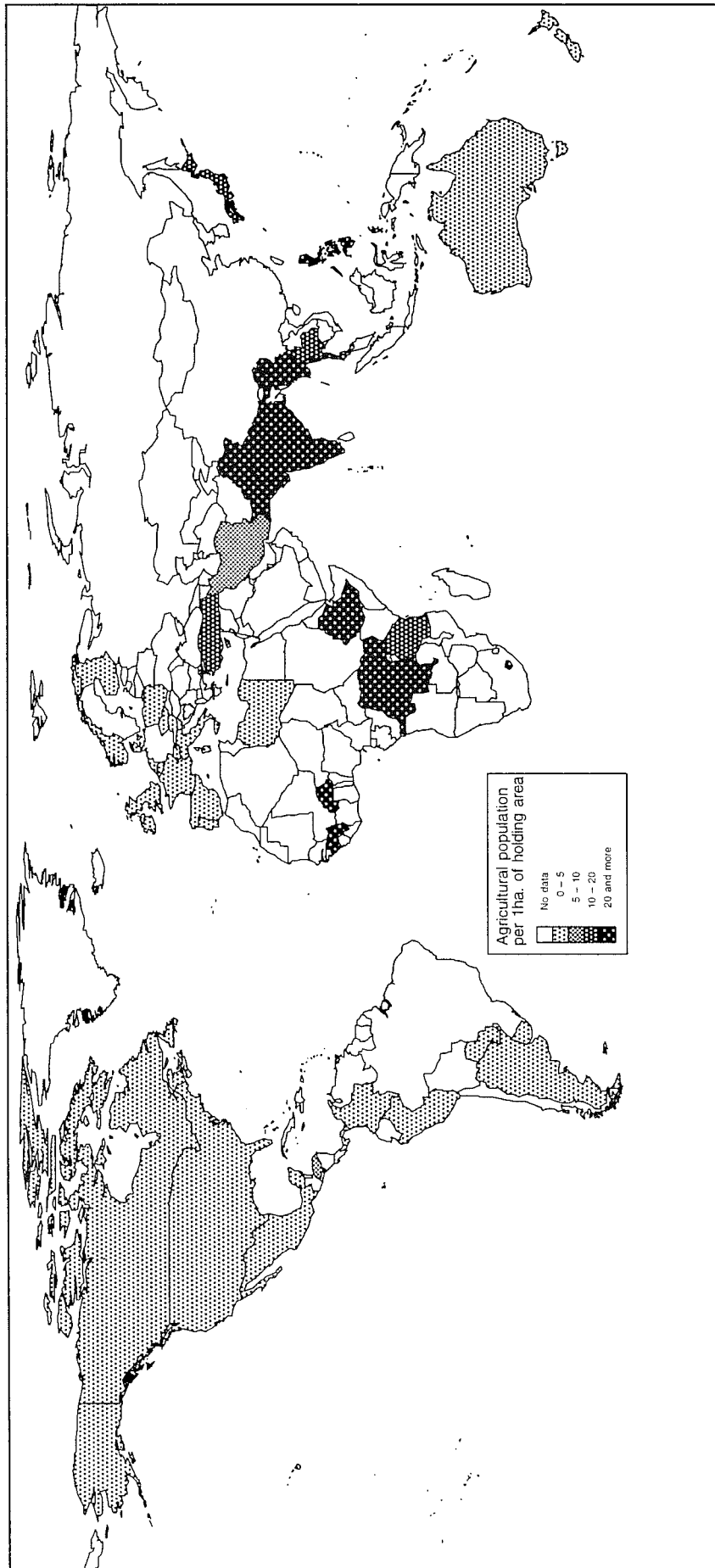
Maps



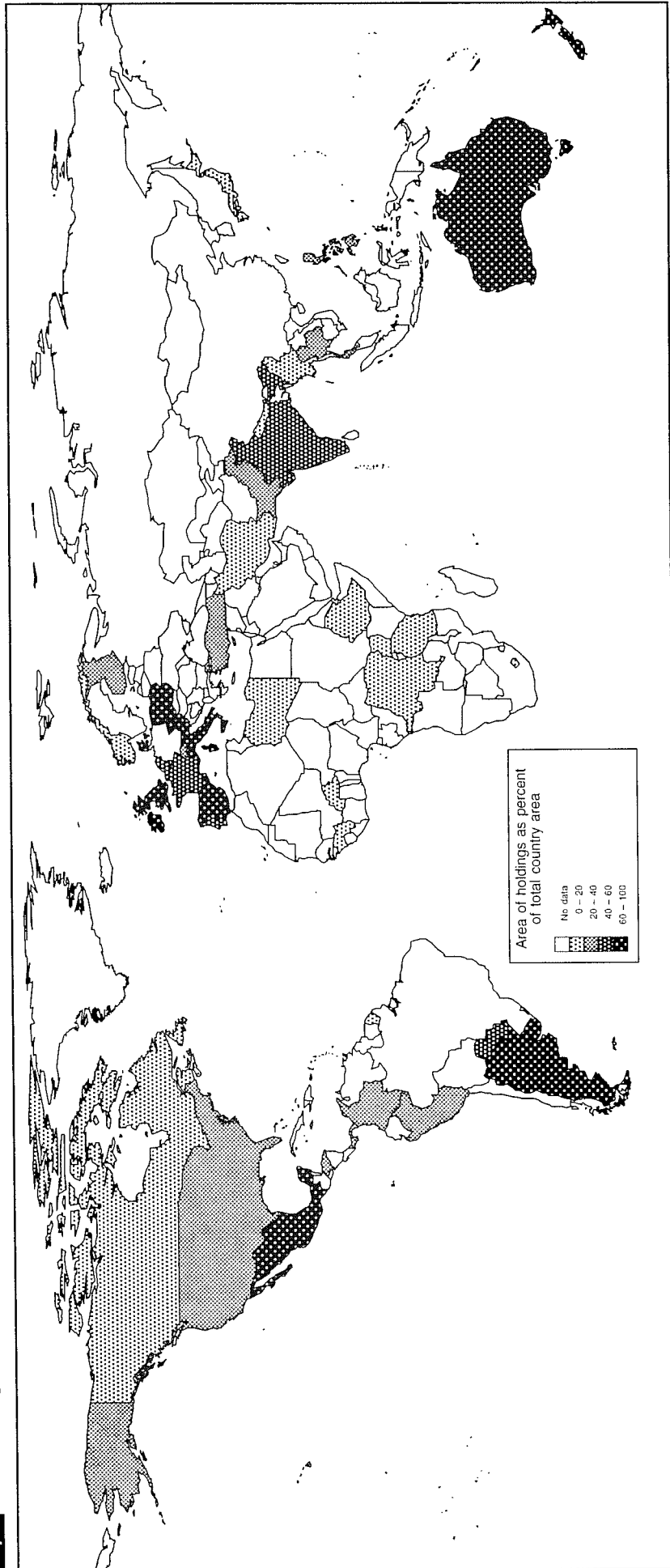
Map 2 Agricultural population per holding

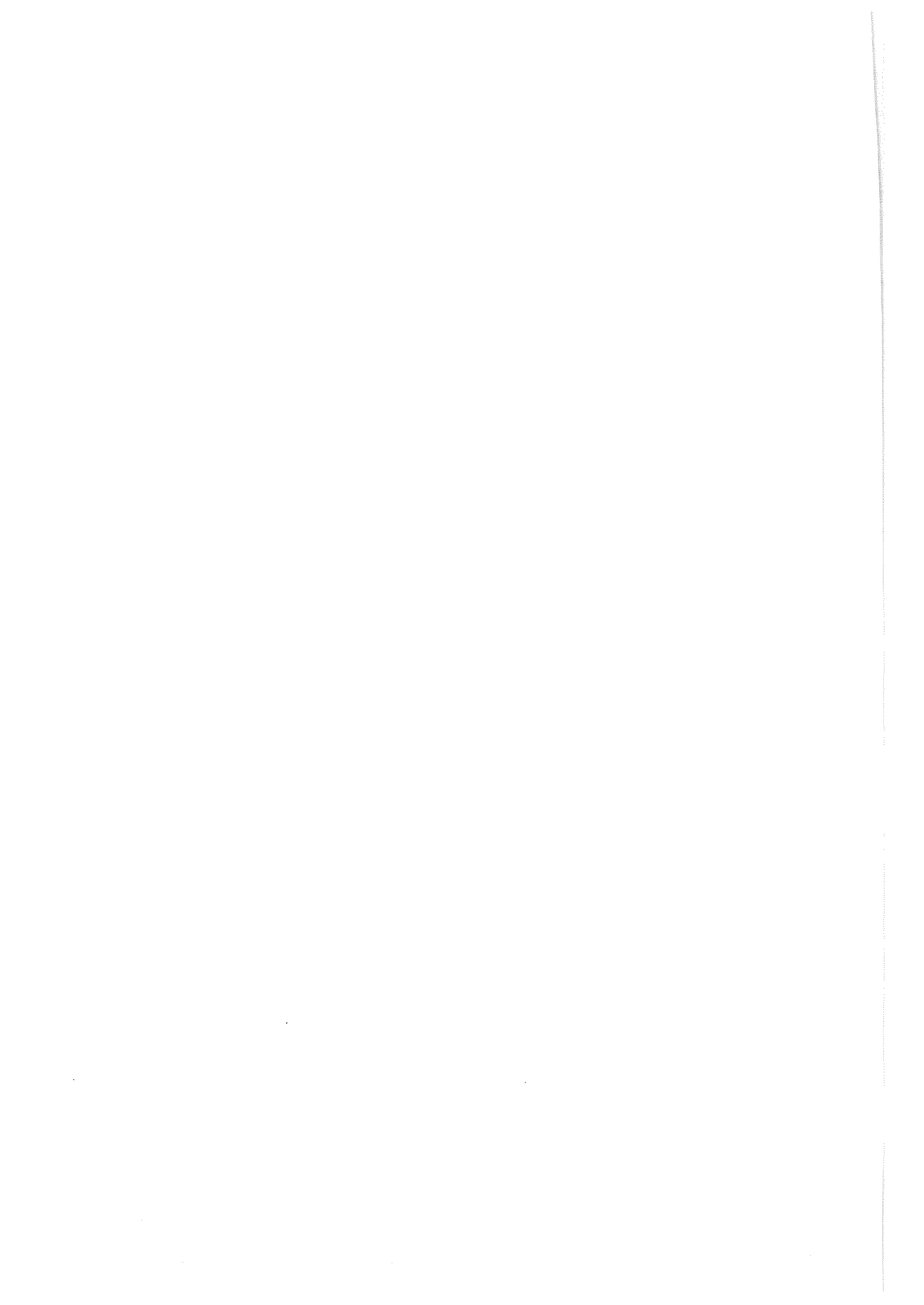


Map 3 Agricultural population per 1 ha of holding area



Map 4 Area of holdings as percent of total country area





Part II

Primary Results
by
Country

BENIN - Agricultural Census 1992 - Explanatory Notes

Historical outline: The 1992-93 Agricultural Survey in Benin was the first undertaken at national level since 1976. Although the Survey was not a general census of agriculture, publication of recent data on agricultural holdings and farm population was considered useful. Thus data on the above-mentioned subjects were collected in addition to those on crop areas and yields, which were the main subjects of the Survey.

Organization: The survey was organized by the Analysis, Forecasting and Synthesis Direction of the Ministry of Rural Development (DAPS/MDR), in collaboration with the Rural Development Regional Centres (CARDER), and with the technical and financial assistance of the United Nations Development Program (UNDP), through the project "Macro-economic planning at sectorial and regional level." The staff consisted of 7 technical directors at the headquarters, assisted by UNDP consultants, 12 coordinators and supervisors at departmental level, and 23 supervisors and 82 enumerators in the field.

Enumeration period: The census was carried out from May 1992 to February 1993.

Reference date: Data refer to the agricultural year 1992-93. (Two agricultural seasons in Southern and Central departments, one season in Northern departments, were considered).

Coverage: The Survey covered the Traditional Sector holdings only, (Modern Sector having been excluded), and all territories with agriculture as main activity; consequently, excluded from the survey were: (a) the towns of Cotonou, Porto-Novo, Bohicon, Abomey and Parakou; (b) the urban districts of Ouidah and Grand-Popo; (c) the Lake Territories in the sub-prefectures of So-Ava, Grand-Popo and Aguegues.

Frame: A complete list of villages and relative population updated to 1984 was used as primary sampling unit frame. Exhaustive enumeration of holdings in each sampled village was done, and the complete list was used as secondary sampling unit frame.

Methods: A two-stage sampling design was used; the primary sampling units, the villages, were drawn with unequal probabilities and repetitions permitted (each village was drawn with probability proportional to its population). In weighing the available resources with the required degree of precision, a sampling size of 10% was considered adequate; consequently, the number of villages sampled was 319 out of a total of 3191. A fixed number of five secondary sampling units, the traditional sector holdings, were randomly selected with equal probability and without repetitions from all sampled villages. All villages drawn twice had 10 holdings drawn or, better, all villages drawn n times, had $5n$ holdings drawn. The total number of holdings sampled in the country was 1595. This sample design was independently applied to the six departments of the country; in each department, the sub-prefectures were considered as strata. The number of villages selected in each sub-prefecture was proportional to the population of the same sub-prefecture.

Data source: Rapport de l'Enquête Statistique Agricole 1992-93. (ESA-92) Volumes 1, 2. June 1993.

Mailing address: République du Bénin - Ministère du Développement Rural - Direction de l'Analyse, de la Prévision et de la Synthèse - Service de la Statistique - B. P. 03-2900 Cotonou, Bénin - Tél.00229 300496-301955; Fax 00229 300326.

BENIN - Agricultural Census 1992 (1) - Primary Results

Area: in hectares

Production: in metric tons

| NUMBER AND AREA OF HOLDINGS | |
|--|-----------|
| Holdings reporting | 408 020 |
| HOLDERS BY SEX | |
| Holdings, total | 408 020 |
| Male | 370 338 |
| Female | 37 682 |
| FARM POPULATION | |
| Household members, total | 3 191 856 |
| Male | 1 559 572 |
| Under 10 years of age | 636 460 |
| 10 to 14 years of age | 219 593 |
| 15 to 64 years of age | 656 503 |
| 65 years of age and over | 47 016 |
| Female | 1 632 284 |
| Under 10 years of age | 581 501 |
| 10 to 14 years of age | 199 712 |
| 15 to 64 years of age | 816 541 |
| 65 years of age and over | 34 530 |
| EMPLOYMENT | |
| Household members engaged in agricultural work (2) | |
| Total | 1 973 895 |
| Male | 923 112 |
| Female | 1 050 783 |
| CROPS, TEMPORARY | |
| Maize | |
| Area | 480 221 |
| Production | 602 659 |
| Sorghum | |
| Area | 131 515 |
| Production | 106 522 |
| Millet | |
| Area | 33 469 |
| Production | 14 072 |

| CROPS, TEMPORARY (cont'd) | |
|---------------------------|-----------|
| Rice | |
| Area | 7 777 |
| Production | 14 021 |
| Cassava | |
| Area | 122 379 |
| Production | 1 036 024 |
| Yams | |
| Area | 100 156 |
| Production | 1 239 376 |
| Sweet potatoes | |
| Area | 6 772 |
| Production | 33 612 |
| Niebe | |
| Area | 81 811 |
| Production | 76 886 |
| Bambarra nut | |
| Area | 5 974 |
| Production | 8 271 |
| Tomatoes | |
| Area | 11 085 |
| Production | 56 692 |
| Pepper | |
| Area | 9 294 |
| Production | 10 589 |
| Okra | |
| Area | 3 660 |
| Production | 7 749 |
| Groundnuts | |
| Area | 87 450 |
| Production | 108 271 |

(1) Enquête Statistique Agricole 1992/93 (ESA 92).

(2) Potentially engaged.

BOTSWANA - Agricultural Census 1993 - Explanatory Notes

Historical outline: Since 1967, the Government of Botswana has been generating national agricultural statistics through an annual agricultural sample survey on crops and livestock. The first livestock census was carried out in 1971, while the first agricultural census, which covered both livestock and crops, was conducted in 1982. The census was based on a sample larger than the annual agricultural survey with both the scope and coverage more expanded. Data presented are from the 1993 Botswana Agricultural Census (1993 BAC), which aimed to establish new data bench-mark for the agricultural sector and a frame for annual surveys to be conducted over the next ten years.

Organization: The 1993 BAC was conducted under the overall responsibility of the Central Statistics Office in the Ministry of Finance and Development Planning, in close cooperation with the Ministry of Agriculture (MOA). Within MOA, the major operational responsibility for the census was given to the Agricultural Statistics Unit (ASU). Technical and financial assistance were also provided by the Food and Agricultural Organization of the UN (FAO). A total of 200 enumerators were employed to carry out the field operations.

Enumeration period: Data collection for the Traditional Sector lasted from May 1993 to January 1994. Data collection periods for the Commercial Sector were the month of September 1993 and the period December 1993 to January 1994, with a few data collection operations lasting until February 1994.

Reference date: The reference date for structural data (i.e. demographic characteristics, land use, etc.) was the day of enumeration. The reference date for crops was the agricultural season, starting, in Botswana, in October with ploughing and planting operations, and ending in August of following year with crop harvesting operations. The time reference for livestock was the 12 month period preceding 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. A holding may consist of one or more pieces of land, located inside or outside the selected block, in one or more separated areas, but inside the same Agricultural District, provided the pieces of land share the same production means utilized by the holding.

Coverage: The Census covered the entire country. The statistical population for the 1993 BAC consisted of all agricultural holdings in the rural areas, including large villages considered urban in the 1991 Population and Housing Census. This universe was divided into two parts, i.e. the Traditional and the Commercial Sector.

Frame: The 1982 Block Sampling Frame, used for traditional holdings in the annual surveys, was updated with information obtained from the 1991 Population and Housing Census. A total of 3471 blocks were constructed and a sample of 999 blocks (clusters) was selected. The list prepared by the CSO, and reporting information from the Register of Deeds, was used as the frame for commercial holdings.

Methods: The sampling design of the 1993 BAC was a probability stratified cluster (block) two-stage sample. In the first stage, Primary Sampling Units (PSUs) or Clusters (Blocks), further classified into three strata, i.e. Village stratum (1251 blocks), Land stratum (1589 blocks), and Cattle Post stratum (667 blocks), within each of the 26 Agricultural Districts, were selected systematically and with Probability Proportional to Size (PPS) of the number of total dwellings (occupied and not occupied). In the second stage, around 8000 Holdings or Secondary Sampling Units (SSUs) were systematically selected. In traditional sector, data were collected through direct interview and objective measurement techniques were applied. In commercial sector, questionnaires were mailed to holdings, with interviewers visiting non-respondents for an interview.

Data source: Division of Agricultural Planning and Statistics, Ministry of Agriculture - Central Statistics Office, Ministry of Finance and Development Planning - 1993 Botswana Agricultural Census Report - Gaborone, December 1995.

Mailing address: Central Statistics Office - Private Bag 0024, Gaborone, Botswana - Tel.: 352- 200; Fax: 352-201.

BOTSWANA - Agricultural Census 1993 - Primary Results

Area: in hectares

Production: in metric tons

| NUMBER AND AREA OF HOLDINGS | |
|---------------------------------|---------|
| Holdings reporting | 101 434 |
| Total area | 322 200 |
| HOLDERS BY SEX (1) | |
| Holdings, total | 100 927 |
| Male | 66 441 |
| Female | 34 486 |
| FARM POPULATION (1) | |
| Household members, total | 539 753 |
| Under 5 years of age | 93 388 |
| 5 to 11 years of age | 99 774 |
| 12 to 24 years of age | 141 895 |
| 25 to 64 years of age | 157 080 |
| 65 years of age and over | 35 807 |
| Of age not stated | 11 809 |
| LAND USE | |
| Land under crops | |
| Holdings | 56 307 |
| Area | 278 617 |
| All other land | |
| Area | 43 583 |
| CROPS, TEMPORARY | |
| Maize | |
| Holdings reporting | 43 258 |
| Area harvested | 23 384 |
| Production | 4 254 |
| Sorghum | |
| Holdings reporting | 51 085 |
| Area harvested | 72 383 |
| Production | 16 527 |
| Millet | |
| Holdings reporting | 12 823 |
| Area harvested | 105 029 |
| Production | 1 546 |
| Edible dry beans / other pulses | |
| Holdings reporting | 28 833 |
| Area harvested | 9 390 |
| Production | 718 |
| Groundnuts | |
| Holdings reporting | 1 744 |
| Area harvested | 714 |
| Production | 123 |

| CROPS, TEMPORARY (cont'd) | |
|------------------------------|-----------|
| Sunflower seed | |
| Holdings reporting | 586 |
| Area harvested | 1 329 |
| Production | 327 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 54 349 |
| Animals | 1 820 400 |
| Sheep | |
| Holdings reporting | 19 214 |
| Animals, total | 250 100 |
| Lambs under 1 year of age | |
| Total | 74 200 |
| Male | 34 900 |
| Female | 39 300 |
| Sheep 1 year of age and over | |
| Total | 175 900 |
| Male | 41 200 |
| Female | 134 700 |
| Goats | |
| Holdings reporting | 79 189 |
| Animals, total | 1 837 700 |
| Goats under 1 year of age | |
| Total | 623 500 |
| Male | 295 300 |
| Female | 328 200 |
| Goats 1 year of age and over | |
| Total | 1 214 200 |
| Male | 260 400 |
| Female | 953 800 |
| Horses | |
| Holdings reporting | 8 624 |
| Animals | 31 400 |
| Asses | |
| Holdings reporting | 39 147 |
| Animals | 230 600 |
| Chickens | |
| Holdings reporting | 65 142 |
| Animals | 1 077 100 |

(1) Excluding Commercial Sector.

BURKINA FASO - Agricultural Census 1993 - Explanatory Notes

Historical outline: Data presented are from the National Survey of Agricultural Statistics which was conducted in 1993. In the preparation of the survey, several test-surveys, aiming to develop survey methodology, were conducted from 1985 to 1990 in some regions of the country, such as Kaia (Centre-North), and Kokologho (Centre-West).

Organization: The Department of Agriculture and Livestock Statistics of the Ministry of Agriculture and Livestock Resources was responsible for the organization of the survey. The survey was organized in two phases. In the first phase, data on agricultural population, equipment, livestock and use of production were collected. In the second phase, data on crop areas and yields, labour and use of inputs were collected. 567 enumerators, 140 supervisors, 12 regional supervisors and 8 teams at the headquarters participated in the first phase of the survey. 367 enumerators, 125 supervisors, 12 regional supervisors and 8 teams at the headquarters participated in the second phase. Financial assistance was provided by the Government of Burkina Faso, the Government of The Netherlands, the European Economic Community, and the World Bank; technical and financial assistance was also provided by the Food and Agriculture Organization of the UN.

Enumeration period: The census was officially launched on 1 April 1993. The first phase of the survey lasted from 1 April to 30 June 1993, while the second phase lasted from 1 July to 31 December 1993.

Reference date: Reference date is, depending on census items, either the day of interview or the agricultural year 1992-93.

Definitions:

- Household - is a group of persons generally related through blood or marriage, living together, making common provision for food, headed by one person acknowledged as head by the other members, and entrusted with primary authority and responsibility for household affairs.
- Agricultural household - is a household where one or more members cultivate land.

Coverage: The Survey covered the agricultural households of the traditional sector practising agriculture, livestock keeping, or a combination of the two. Nomadic livestock holdings were excluded from the survey as well as agricultural activities carried out by experimental farms and in peri-urban areas.

Frame: Two lists, one reporting the villages and the other reporting the holdings in selected villages, were prepared and used as a frame in both phases of the census.

Methods: In phase one data were collected through direct interview. In phase two data were collected through direct interview and, in addition, objective measurement techniques were applied. In each phase a two-stage sampling design was used with villages as primary sampling units and agricultural households as secondary sampling units. The villages were selected proportionally to the size of their population: 2077 for the first phase and a sub-sample of the 1097 villages for the second phase. Around 8 agricultural holdings were selected with equal probabilities from each sample village giving the ultimate sample of 18160 and 8776 agricultural holdings respectively in the first and second phase.

Data source: Ministère de l'Agriculture et des Ressources Animales - Direction des Statistiques Agro-Pastorales - Enquête Nationale de Statistique Agricole (ENSA) 1993 - Rapport Général - Décembre 1995.

Mailing address: Ministère de l'Agriculture et des Ressources Animales - Direction des Statistiques Agro-Pastorales - B. P. 03 7044 Ouagadougou 03, Burkina Faso - Tél. 00226 313330/324114; Fax 00226 310870.

BURKINA FASO - Agricultural Census 1993 (1) - Primary Results

| Area: in hectares | Production: in metric tons | |
|---|----------------------------|-----------|
| NUMBER AND CULTIVATED AREA OF HOLDINGS BY SIZE OF CULTIVATED AREA OF HOLDING | | |
| Size classification | Number | Area |
| All holdings | 886 638 | 3 472 480 |
| Under 0.5 Ha | 45 219 | 10 417 |
| 0.5 - 1 Ha | 69 158 | 52 087 |
| 1 - 2 Ha | 172 894 | 256 963 |
| 2 - 3 Ha | 156 048 | 388 917 |
| 3 - 4 Ha | 120 583 | 416 697 |
| 4 - 5 Ha | 88 664 | 395 862 |
| 5 - 10 Ha | 186 194 | 1 274 404 |
| 10 Ha and over | 47 878 | 677 133 |
| FRAGMENTATION | | |
| Parcels | 8 491 204 | |
| HOLDINGS BY NUMBER OF PERSONS | | |
| Holdings with: | | |
| 1 person | 31 918 | |
| 2 to 3 persons | 79 797 | |
| 4 to 5 persons | 134 768 | |
| 6 to 9 persons | 300 570 | |
| 10 persons and over | 339 585 | |
| HOLDERS BY AGE | | |
| Holders, total | 886 638 | |
| Under 25 years of age | 23 259 | |
| 25 to 34 years of age | 128 984 | |
| 35 to 44 years of age | 184 236 | |
| 45 to 54 years of age | 197 777 | |
| 55 to 64 years of age | 163 540 | |
| 65 years of age and over | 168 235 | |
| Of age not stated | 20 607 | |
| HOLDERS BY SEX | | |
| Holders, total | 886 638 | |
| Male | 812 079 | |
| Female | 74 559 | |
| FARM POPULATION | | |
| Household members, total | 8 301 689 | |
| Male | 4 041 374 | |
| Under 6 years of age | 1 092 871 | |
| 7 to 14 years of age | 1 016 705 | |
| 15 to 24 years of age | 672 073 | |
| 25 to 54 years of age | 912 166 | |
| 55 years of age and over | 340 213 | |
| Of age not stated | 7 346 | |
| Female | 4 260 314 | |
| Under 6 years of age | 1 023 586 | |
| 7 to 14 years of age | 945 249 | |
| 15 to 24 years of age | 718 276 | |
| 25 to 54 years of age | 1 222 705 | |
| 55 years of age and over | 335 496 | |
| Of age not stated | 15 002 | |
| EMPLOYMENT | | |
| Household members engaged mainly in agricultural work | | |
| Total | 4 377 762 | |
| Male | 2 180 161 | |
| Female | 2 197 601 | |
| CROPS, TEMPORARY | | |
| Millet | | |
| Area | 1 484 735 | |
| Production | 899 197 | |
| Sorghum | | |
| Area | 1 752 402 | |
| Production | 1 310 431 | |

| CROPS, TEMPORARY (cont'd) | |
|----------------------------------|------------|
| Maize | |
| Area | 282 153 |
| Production | 270 721 |
| Rice | |
| Area | 26 947 |
| Production | 53 809 |
| Fonio | |
| Area | 22 516 |
| Production | 22 555 |
| Cotton | |
| Area | 122 138 |
| Production | 114 764 |
| Groundnuts | |
| Area | 240 666 |
| Production | 206 320 |
| Sesame seed | |
| Area | 25 243 |
| Production | 8 253 |
| Soybeans | |
| Area | 4 586 |
| Production | 4 015 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 266 270 |
| Animals | 2 507 317 |
| Sheep | |
| Holdings reporting | 410 811 |
| Animals | 3 216 628 |
| Goats | |
| Holdings reporting | 594 326 |
| Animals | 4 604 671 |
| Pigs | |
| Animals | 718 298 |
| Asses | |
| Animals | 257 000 |
| Poultry | |
| Animals | 12 727 886 |
| MACHINERY / EQUIPMENT | |
| 4-Wheel tractors | 1 933 |
| Units | |
| 2-Wheel tractors | 485 |
| Units | |
| Sprayers / Dusters | 1 295 |
| Units | |
| Pumps, engine operated | 685 |
| Units | |
| Ploughs | 337 500 |
| Units | |

CAPE VERDE - Agricultural Census 1988 - Explanatory Notes

Historical outline: The 1988 Agricultural Census is the second undertaken in Cape Verde. It follows the first Agricultural Census of the Republic of Cape Verde which was carried out in 1978-81.

Organization: The census was organized by the Statistics Division of the Studies and Planning Office of the Ministry of Rural Development and Fisheries. Both financial and technical assistance were given through the project FAO/UNDP "Agricultural Statistics", and by the Permanent Interstate Committee for Drought Control in the Sahel (CILSS). Bilateral cooperations were also established with French, Dutch, and Portuguese Governments for the completion of the task. The field staff consisted of 4 technicians, 8 supervisors, and 55 enumerators.

Enumeration period: The census was carried out during the period 1 May - 31 July 1988.

Reference date: All census items refer to the agricultural year 1987-88.

Coverage: During the census all "Zonas Agrícolas" in all islands of the country were investigated and all agricultural holdings whose holder was resident in the investigated zona, were covered. (The zona is the smallest administrative sub-division of the country; each zona is controlled by a Commission of Residents, and consists of an area composed of one or more pieces of land). Not covered by the census were:

- households in the zonas but not practising agriculture;
- households in non agricultural zonas (i.e. urban areas of Praia and Mindelo).

Methods: Four categories of holdings were identified:

- 1) Small holdings producing mainly for home consumption;
- 2) Large commercial holdings;
- 3) Cooperatives;
- 4) Government holdings.

The first category was considered the "traditional sector", while the holdings belonging to categories 2, 3, and 4, were grouped into the "modern sector". Holdings of modern sector were completely enumerated while two groups of traditional sector holdings were identified:

- holdings on the islands of Boa Vista, Brava, Maio, Sal, St.Nicolau, and St.Vicente, which were completely enumerated; and
- holdings on the islands of Fogo, Santiago and Santo Antao, for which a simple random sample was taken: for each agricultural zone 50% of holdings, with holder living in the zone, were drawn by systematic selection.

A pilot survey preceded the census.

Data source: Republica de Cabo Verde - Ministerio do Desenvolvimento Rural e Pescas - Gabinete de Estudos e Planeamento - Recenseamento Agrícola 1988 - Volume I: Dados globais - Janeiro 1990.

Mailing address: Republica de Cabo Verde - Ministerio do Desenvolvimento Rural e Pescas - Gabinete de Estudos e Planeamento - Statistics Division - Tel.00238 65713; Fax 00238 64054.

CAPE VERDE - Agricultural Census 1988 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS | |
|---|---------|
| Holdings reporting | 32 193 |
| Total area | 41 383 |
| HOLDERS BY AGE | |
| Holdings, total | 32 193 |
| Under 30 years of age | 4 185 |
| 30 and up to 39 years of age | 5 151 |
| 40 and up to 49 years of age | 4 507 |
| 50 and up to 59 years of age | 7 726 |
| 60 years of age and over | 10 624 |
| HOLDERS BY SEX | |
| Holdings, total | 32 193 |
| Male | 20 539 |
| Female | 11 654 |
| FARM POPULATION | |
| Household members, total | 172 363 |
| Male | 81 762 |
| Under 15 years of age | 36 083 |
| 15 and up to 24 years of age | 20 141 |
| 25 and up to 34 years of age | 7 305 |
| 35 and up to 44 years of age | 2 712 |
| 45 and up to 54 years of age | 4 168 |
| 55 and up to 64 years of age | 5 559 |
| 65 years of age and over | 5 794 |
| Female | 90 601 |
| Under 15 years of age | 35 526 |
| 15 and up to 24 years of age | 19 588 |
| 25 and up to 34 years of age | 10 165 |
| 35 and up to 44 years of age | 5 803 |
| 45 and up to 54 years of age | 7 229 |
| 55 and up to 64 years of age | 6 305 |
| 65 years of age and over | 5 985 |
| EMPLOYMENT BY SEX | |
| Household members engaged in agricultural work on the holding: | |
| Total | 89 229 |
| Male | 41 862 |
| Female | 47 367 |

| EMPLOYMENT BY AGE | |
|---|---------|
| Household members engaged in agricultural work on the holding: | |
| Total | 89 229 |
| Under 20 years of age | 18 738 |
| 20 and up to 29 years of age | 27 661 |
| 30 and up to 39 years of age | 10 707 |
| 40 and up to 49 years of age | 8 031 |
| 50 and up to 59 years of age | 11 600 |
| 60 years of age and over | 12 492 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 9 246 |
| Animals | 17 996 |
| Sheep | |
| Holdings reporting | 1 611 |
| Animals | 4 193 |
| Goats | |
| Holdings reporting | 22 667 |
| Animals | 95 338 |
| Pigs | |
| Holdings reporting | 26 153 |
| Animals | 57 977 |
| Horses | 299 |
| Asses | 10 394 |
| Mules / Hinnies | 1 319 |
| Chickens | |
| Holdings reporting | 26 721 |
| Animals | 172 379 |

CONGO, DEM. REP. of - Agricultural Census 1990 - Explanatory Notes

Historical outline: The first General Agricultural Census in the Democratic Republic of Congo was carried out in 1970, while the second, to which these data refer, was conducted in 1988-90.

Organization: The Census was undertaken by the National Agricultural Statistics Service of the Ministry of Agriculture. Financial assistance was given by the United Nations Development Program (UNDP), the US Agency for International Development (USAID) and the World Bank. Technical assistance was given by the Food and Agriculture Organization of the United Nations (FAO). The Regional Agricultural Inspectorates selected the field staff, which consisted of 451 enumerators, 150 controllers, and 40 supervisors.

Enumeration period: The census was conducted in 1988-1990.

Reference date: The reference period was the agricultural year 1988-89 for the regions of Bandundu, Lower Congo, Equateur, Shaba, Kivu, East and West Kasai, while for the Upper Congo and Kinshasa regions it was the agricultural year 1989-90.

Definition: Since traditional agriculture is almost totally managed by rural households, the agricultural holdings were defined as rural household in which at least one member, not necessarily the chief of the household, was engaged in agricultural operations. Households without land and not raising livestock were not considered agricultural holdings.

Coverage: Agricultural holdings of the traditional sector from all over the country were included, while holdings belonging to the modern sector were excluded from the census.

Frame: A list of villages was used as frame for the Village Sample Survey; a list of agricultural holdings was subsequently prepared, to be used as frame for the Agricultural Holdings Sample Survey which followed the Village survey.

Methods: A stratified two-stage sample survey was carried out. First rural communities (generally including several villages), town-quarters, and regional and sub-regional chief-towns, considered as three different strata, were systematically divided into two halves, each with the same approximately population, and one half was retained. Then, 50 villages (the primary sampling units) were systematically selected, with a random start, from each retained half-community. At this stage a "village questionnaire" was filled in for the 50 sample villages, to complete the Village Sample Survey. Out of the 50 villages sampled in each community, a sub-sample of 5 villages (10 in Lower Congo region, in order to balance the size of the sampling units), was retained. A fixed number of 5 agricultural holdings (the secondary sampling units) were selected from each of the 5 villages, while 10 holdings were selected from each town-quarter and from each chief-town, to form a national sample of 11615 agricultural holdings.

Data source: Recensement Général de l'Agriculture Zaïroise 1988-90 - Résultats définitifs - Février 1991.

Mailing address: République Démocratique du Congo - Ministère de l'Agriculture, Animation Rurale et Développement Communautaire - Service National des Statistiques Agricoles, B. P. 8722 Kinshasa - Tél. 00243 12 31126.

CONGO, DEM. REP. of - Agricultural Census 1990 - Primary Results

Area: in hectares

| NUMBER AND CULTIVATED AREA OF HOLDINGS BY SIZE OF CULTIVATED AREA OF HOLDING | | |
|---|-----------|------------|
| Size classes | Number | Area |
| All holdings | 4 479 600 | 2 387 700 |
| Under 0.5 Ha | 2 760 900 | 729 100 |
| 0.5 - 1 Ha | 1 122 000 | 771 300 |
| 1 - 2 Ha | 468 100 | 552 500 |
| 2 Ha and over | 128 600 | 334 800 |
| FRAGMENTATION OF HOLDINGS | | |
| Holdings with: | | |
| 1 parcel | | 1 896 100 |
| 2 to 3 parcels | | 2 076 400 |
| 4 to 5 parcels | | 448 900 |
| 6 parcels and over | | 58 200 |
| Parcels | | 8 747 700 |
| TENURE (area) | | |
| Area owned or in ownerlike possession | | 470 500 |
| Area rented from others | | 64 000 |
| Area under tribal or traditional communal forms of tenure | | 1 660 000 |
| Area operated on squatter basis | | 175 400 |
| Area under other forms of tenure | | 17 800 |
| HOLDERS BY AGE | | |
| Holdings, total | | 4 479 600 |
| Under 30 years of age | | 633 800 |
| 30 to 44 years of age | | 1 648 200 |
| 45 to 59 years of age | | 1 519 800 |
| 60 years of age and over | | 677 800 |
| HOLDERS BY SEX | | |
| Holdings, total | | 4 479 600 |
| Male | | 4 081 200 |
| Female | | 398 400 |
| FARM POPULATION | | |
| Household members, total | | 25 982 500 |
| Male | | 13 144 600 |
| Under 15 years of age | | 5 528 400 |
| 15 and up to 29 years of age | | 3 574 900 |
| 30 and up to 44 years of age | | 1 874 400 |
| 45 and up to 59 years of age | | 1 530 500 |
| 60 years of age and over | | 636 400 |
| Female | | 12 837 900 |
| Under 15 years of age | | 5 161 600 |
| 15 and up to 29 years of age | | 3 607 800 |
| 30 and up to 44 years of age | | 2 166 500 |
| 45 and up to 59 years of age | | 1 476 100 |
| 60 years of age and over | | 425 900 |
| EMPLOYMENT | | |
| Holdings with: | | |
| 1 worker | | 771 600 |
| 2 workers | | 1 678 300 |
| 3 workers | | 886 800 |
| 4 workers | | 591 400 |
| 5 workers | | 295 100 |
| 6 workers and more | | 256 400 |
| Hired occasional workers | | |
| Holdings reporting | | 394 400 |
| Household members engaged in agricultural work on the holding | | |
| Total | | 12 542 600 |
| Male | | 5 560 900 |
| Under 15 years of age | | 449 200 |
| 15 to 29 years of age | | 1 752 100 |
| 30 to 44 years of age | | 1 510 400 |
| 45 to 59 years of age | | 1 305 700 |
| 60 years of age and over | | 543 500 |

| EMPLOYMENT (cont'd) | |
|---|------------|
| Household members engaged in agricultural work on the holding | |
| Female | 6 981 700 |
| Under 15 years of age | 642 900 |
| 15 to 29 years of age | 2 658 200 |
| 30 to 44 years of age | 1 906 100 |
| 45 to 59 years of age | 1 397 900 |
| 60 years of age and over | 376 600 |
| CROPS, TEMPORARY (area) | |
| Wheat | 2 800 |
| Rice | 167 600 |
| Maize | 397 000 |
| Sorghum / Millet | 23 700 |
| Millet, finger | 3 500 |
| Potatoes | 19 400 |
| Sweet potatoes | 28 900 |
| Cassava | 1 083 500 |
| Taro (cocoyam) | 4 500 |
| Yams | 2 900 |
| Beans, dry | 96 800 |
| Bambara nuts | 900 |
| Vigna Catjang | 3 500 |
| Soybeans | 1 100 |
| Groundnuts | 188 200 |
| Sugar cane | 100 |
| Tobacco | 600 |
| Cotton | 6 000 |
| Eggplant | 500 |
| Gourds | 26 900 |
| CROPS, PERMANENT (area) | |
| Citrus fruits | 100 |
| Bananas | 152 800 |
| Cocoa | 4 000 |
| Coffee | 100 000 |
| Oil palm | 900 |
| Papaya | 300 |
| LIVESTOCK (head) | |
| Cattle, total | 1 225 700 |
| Cattle under 1 year of age | 282 000 |
| Cattle 1 year of age and over | |
| Total | 943 700 |
| Male | 181 500 |
| Female | 762 200 |
| Sheep, total | 2 185 200 |
| Sheep under 1 year of age | 643 500 |
| Sheep 1 year of age and over | |
| Total | 1 541 700 |
| Male | 384 600 |
| Female | 1 157 100 |
| Goats, total | 10 036 700 |
| Goats under 1 year of age | 3 720 300 |
| Goats 1 year of age and over | |
| Total | 6 316 400 |
| Male | 1 512 200 |
| Female | 4 804 200 |
| Pigs, total | 3 230 500 |
| Pigs under 1 year of age | 1 614 400 |
| Pigs 1 year of age and over | |
| Total | 1 616 100 |
| Male | 470 700 |
| Female | 1 145 400 |
| FERTILIZERS / PESTICIDES | |
| Fertilizers | |
| Holdings reporting use | 88 200 |
| Pesticides | |
| Holdings reporting use | 39 000 |

DJIBOUTI - Agricultural Census 1995 - Explanatory Notes

Historical outline: The Republic of Djibouti made its first attempt to develop agricultural statistics in 1988, with a statistical study regarding horticulture and the restructuring of irrigated agriculture called "Techniplan". As a result of this exercise, 84 agricultural sites reporting 1200 holdings with an area of 750 Ha were enumerated. On the basis of these experiences and information collected during Techniplan, the Government of Djibouti decided to launch the first census of agriculture of the country in 1995. Nomadic livestock which is an important sector of agriculture was excluded from this census, but will be the subject of a special enquiry.

Organization: The Ministry of Agriculture and Rural Development created, inside its Agriculture and Forests Service, the Agricultural Statistics Division, responsible for the collection, analysis and dissemination of all information concerning the rural sector, including the organization and implementation of the 1995 census of agriculture. Technical and financial support was provided by the Food and Agriculture Organization of the UN, through the Project "Appui aux Statistiques Agricoles".

Enumeration period: The census was carried out in 1995, and the enumeration period lasted for about 3 months.

Reference date: Reference date for all census items was the enumeration day.

Definitions:

- Site: is a place, generally characterized by the presence of a source of water, reporting a concentration of agricultural holdings.
- Agricultural holding: the definition of agricultural holding corresponds to that reported by the FAO 1990 World Census of Agriculture Programme. Holdings reporting only nomadic livestock were excluded from this census.

Coverage: The census covered the economic districts of Djibouti, Ali Sabieh, Dikhil and Tadjourah, but in the district of Obock it was not possible to carry out the field work because of migratory movements of the population created by social and political pressures.

Frame: One of the goals of the 1995 agricultural census was to update the lists of sites, and of the agricultural holdings in the sites, prepared during the study Techniplan in 1988.

Methods: The Site was considered as enumeration area, while the Agricultural Holding was considered the unit of enumeration. A team of about ten enumerators, working under the supervision of the project leader, carried out the complete enumeration of all holdings; the exhaustive enumeration was carried out district by district and, inside each district, site by site. Data were collected through direct interview; objective measurement techniques were applied together with the estimation of crop areas.

Data source: République de Djibouti - Résultats du Recensement Agricole en République de Djibouti - Dénombrement des sites et exploitations agricoles - Djibouti, Décembre 1995.

Mailing address: République de Djibouti - Ministère de l'Agriculture et de l'Hydraulique - B. P. 453 Djibouti, Djibouti - Tél. 00253 351297; Fax 00253 353178.

DJIBOUTI - Agricultural Census 1995 - Primary Results

Area: in hectares

| NUMBER OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | |
|--|--------|
| Size classification | Number |
| All holdings | 1 135 |
| Under 0.1 Ha | 101 |
| 0.1 - 0.2 Ha | 95 |
| 0.2 - 0.5 Ha | 222 |
| 0.5 - 1 Ha | 526 |
| 1 Ha and over | 191 |
| TENURE | |
| Holdings owned or in ownerlike possession | |
| Holdings | 1 071 |
| Holdings under other forms of tenure | |
| Holdings | 64 |
| HOLDERS BY AGE | |
| Under 20 years of age | 4 |
| 20 to 29 years of age | 48 |
| 30 to 39 years of age | 172 |
| 40 to 49 years of age | 290 |
| 50 to 59 years of age | 358 |
| 60 years of age and over | 263 |

| HOLDERS BY SEX | |
|--------------------|-------|
| Holdings, total | 1 135 |
| Male | 1 078 |
| Female | 57 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 159 |
| Sheep | |
| Holdings reporting | 223 |
| Goats | |
| Holdings reporting | 275 |
| Camels | |
| Holdings reporting | 36 |
| Asses | |
| Holdings reporting | 48 |
| Poultry | |
| Holdings reporting | 30 |

ETHIOPIA - Agricultural Census 1989-92 - Explanatory Notes

Historical outline: The Agricultural Sample Survey has been conducted annually since 1980-81. Data presented here are from two different annual surveys: data on holdings, holder, farm population, land use and crops are from the 1988-89 Cropland Utilization Survey, while data on livestock are from the 1991-92 Livestock and Poultry Sample Survey.

Organization: The annual surveys are organized in the context of the Integrated System of Food and Agricultural Statistics Programme started in 1980, which is part of the Rural Integrated Household Survey Programme, which is, in turn, part of the National Integrated Household Survey Programme. Twelve regional supervisors, 170 field supervisors, and 835 enumerators were engaged in the operation of the 1988-89 Cropland Utilization Survey.

Enumeration period: The Cropland Utilization Survey field work was carried out from September 1988 to February 1989, while data on livestock and poultry were collected through the Annual Agricultural Sample Survey conducted in 1991-92.

Reference date: The reference period for area under crops is related to the agricultural year 1988-89. The enumeration date for livestock and poultry is 1 January 1992.

Coverage:

- The 1988-89 Cropland Utilization Survey was launched in 25 of the newly formed administrative regions plus one autonomous region; autonomous regions of Eritrea, Tigray, Asab, and Ogaden were excluded; private peasant holdings, cooperatives and state farms were considered as enumeration units.
- The 1991-92 Livestock Survey included the same geographic area but excluded the Nomadic Areas; private peasant holdings were selected as enumeration units.

Frame: The complete list of agricultural households in selected Farmers' Associations (FAS) was updated, refreshed and used as frame.

Methods:

- For the Cropland Utilization Survey the following sampling design was used: 867 Farmers' Associations were selected without replacement, from the 25 administrative regions plus one autonomous region in the country, with probability proportional to size. From each selected Farmers' Association, a systematic sample of 25 agricultural households was selected from a fresh list of agricultural households. Data were collected through direct interview and objective measurement techniques.
- For Livestock and Poultry Survey, information was collected from 639 Farmers' Associations out of 864 sampled; 25 agricultural households were drawn from sampled Farmers' Associations using a systematic random sample design. Information related to livestock was collected by interviewing the sample holders within the selected households.

Data source: Report on Cropland Utilization 1988-89 (Statistical Bulletin No.118), and Report on Livestock, Poultry & Beehives Population of private holdings 1991-92 (Statistical Bulletin No.119) - Agricultural Sample Survey - Addis Ababa - June 1993.

Mailing address: Transitional Government of Ethiopia - Central Statistical Authority - P.O. Box 1143 Addis Ababa, Ethiopia.

ETHIOPIA - Agricultural Census 1989/1992 (1)(2) - Primary Results

Area: in hectares

**NUMBER AND AREA OF HOLDINGS
BY SIZE OF LAND UNDER CROPS**

| Size classes | Number | Area |
|----------------|-----------|-----------|
| All holdings | 6 091 840 | 4 871 020 |
| Under 0.1 Ha | 640 540 | 31 760 |
| 0.1 - 0.5 Ha | 2 204 180 | 639 320 |
| 0.5 - 1 Ha | 1 547 780 | 1 125 700 |
| 1 - 2 Ha | 1 227 640 | 1 715 800 |
| 2 - 5 Ha | 452 670 | 1 238 800 |
| 5 - 10 Ha | 18 040 | 107 700 |
| 10 Ha and over | 990 | 11 940 |

HOLDERS BY AGE

| | |
|---------------------------|-----------|
| Holders, total (3) | 6 199 170 |
| Under 18 years of age | 50 440 |
| 18 to 24 years of age | 482 240 |
| 25 to 39 years of age | 2 253 860 |
| 40 to 49 years of age | 1 322 620 |
| 50 to 59 years of age | 937 570 |
| 60 years of age and over | 1 145 940 |
| Holders of age not stated | 6 500 |

HOLDINGS BY NUMBER OF PERSONS

| | |
|---------------------|-----------|
| Holdings with: | |
| 1 person | 190 180 |
| 2 to 3 persons | 1 426 850 |
| 4 to 5 persons | 2 055 970 |
| 6 to 9 persons | 2 146 870 |
| 10 persons and over | 271 970 |

FARM POPULATION

| | |
|--------------------------|------------|
| Household members, total | 31 570 040 |
|--------------------------|------------|

LAND USE

| | |
|----------------------------|-----------|
| Land under crops | 4 871 020 |
| Land under temporary crops | |
| Holdings | 5 680 740 |
| Area | 4 612 510 |
| Land under permanent crops | |
| Holdings | 1 652 870 |
| Area | 258 510 |

CROPS, TEMPORARY (area)

| | |
|---------------|-----------|
| Teff | 1 273 460 |
| Maize | 722 790 |
| Barley | 600 260 |
| Sorghum | 563 550 |
| Wheat | 497 270 |
| Millet | 129 310 |
| Oats | 27 110 |
| Horse beans | 210 140 |
| Chick peas | 92 440 |
| Field peas | 75 870 |
| Haricot beans | 60 810 |

CROPS, TEMPORARY (area) (cont'd)

| | |
|--------------------|---------|
| Vetches | 43 240 |
| Lentils | 31 350 |
| Neug | 110 520 |
| Linseed | 49 660 |
| Groundnuts | 10 330 |
| Rapeseed | 3 500 |
| Sesame seed | 3 360 |
| Sunflower for seed | 1 450 |
| Castor beans | 340 |

LIVESTOCK (head)(4)

| | | |
|----------|------------|--|
| Cattle | | |
| Total | 22 032 800 | |
| Male | 9 849 540 | |
| Female | 12 183 260 | |
| Sheep | | |
| Total | 9 529 010 | |
| Male | 2 705 980 | |
| Female | 6 823 030 | |
| Goats | | |
| Total | 5 095 170 | |
| Male | 1 810 120 | |
| Female | 3 285 050 | |
| Horses | | |
| Total | 1 030 590 | |
| Male | 518 900 | |
| Female | 511 690 | |
| Mules | | |
| Total | 149 760 | |
| Male | 67 860 | |
| Female | 81 900 | |
| Asses | | |
| Total | 1 757 310 | |
| Male | 724 980 | |
| Female | 1 032 330 | |
| Camels | | |
| Total | 14 260 | |
| Male | 8 740 | |
| Female | 5 520 | |
| Poultry | | |
| Total | 17 878 050 | |
| Male | 10 599 360 | |
| Female | 7 278 690 | |
| Beehives | | |
| Units | 2 808 310 | |

(1) Data are from various sources: see Explanatory Notes.

(2) Excluding Eritrea, Tigray, Asab, Ogaden autonomous regions, and Nomadic Areas.

(3) A holding could be managed by more than one holder.

(4) Data refer to private peasant holdings.

GUINEA - Agricultural Census 1989 - Explanatory Notes

Historical outline: The 1988/89 National Agricultural Census is the first taken in the Republic of Guinea. It follows a 1974-81 project planned to develop agricultural surveys, and a pilot survey on a 500 holdings sample, taken in 1984.

Organization: The census was organized by the National Department of Statistics and Computerization of the Ministry of Planning and International Cooperation, in collaboration with the Ministry of Agriculture and Animal Resources, and with the technical and financial assistance of the United Nations Development Program and the Food and Agriculture Organization of the United Nations. The staff consisted of 10 supervisors at the headquarters, 12 supervisors at the regional level, and 155 supervisors and enumerators in the prefectures.

Enumeration period: The census was carried out in 1988/89.

Reference date: All census items refer to the agricultural year 1988/89.

Coverage: The census covered all traditional and large holdings, but excluded the agricultural holdings located in urban areas.

Frame: A list based on the administrative statements prepared by prefectures, sub-prefectures and districts, reporting the number of households and the population amount, was used as frame. A list of large holdings was also prepared.

Methods: A multistage sampling design was used; four population strata (up to 300, 300-500, 500-1000, 1000 persons and over) were identified. A number of sectors were selected from each stratum, up to a total of 647 sectors, as primary sampling units. Subsequently, 4269 holdings (households), as secondary sampling units, were randomly selected from the above-mentioned sectors.

Data source: Recensement National de l'Agriculture 1988-89, Tome I, Résultats Nationaux et Régionaux, Janvier 1990.

Mailing address: République de Guinée - Conakry - Ministère du Plan et de la Coopération Internationale - Direction Nationale de la Statistique et de l'Informatique - Tél. 00224 413433; Fax 00224 412020.

GUINEA - Agricultural Census 1989 - Primary Results (1)

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|--|---------|-----------|
| Size classes | Number | Area |
| All holdings | 431 277 | 727 544 |
| Under 0.2 Ha | 54 006 | 7 499 |
| 0.2 - 0.5 Ha | 54 276 | 21 285 |
| 0.5 - 1 Ha | 89 465 | 65 423 |
| 1 - 2 Ha | 107 245 | 154 892 |
| 2 - 5 Ha | 106 486 | 327 346 |
| 5 - 10 Ha | 17 145 | 115 100 |
| 10 Ha and over | 2 654 | 35 999 |
| FRAGMENTATION OF HOLDINGS | | |
| Parcels | | 722 554 |
| TENURE (area) | | |
| Area owned or in ownerlike possession | | 94 638 |
| Area rented from others | | 89 401 |
| For an agreed amount of money/produce | | 2 560 |
| For a share of produce | | 6 452 |
| Under other rental arrangements | | 80 389 |
| Area operated under tribal or traditional communal forms of tenure | | 529 604 |
| Area operated under other forms of tenure | | 13 901 |
| HOLDERS BY AGE | | |
| Holders, total | | 431 277 |
| Under 25 years of age | | 23 345 |
| 25 to 34 years of age | | 21 374 |
| 35 to 44 years of age | | 21 531 |
| 45 to 54 years of age | | 52 567 |
| 55 to 64 years of age | | 22 832 |
| 65 years of age and over | | 289 628 |
| HOLDINGS BY NUMBER OF PERSONS | | |
| Holdings with: | | |
| 1 person | | 1 723 |
| 2 persons | | 10 638 |
| 3 to 5 persons | | 110 896 |
| 6 to 9 persons | | 161 793 |
| 10 persons and more | | 146 227 |
| FARM POPULATION | | |
| Household members, total | | 3 946 295 |
| Male | | 1 992 750 |
| Under 10 years of age | | 688 145 |
| 10 and up to 14 years of age | | 255 343 |
| 15 and up to 24 years of age | | 319 179 |
| 25 and up to 34 years of age | | 217 720 |
| 35 and up to 44 years of age | | 166 746 |
| 45 and up to 54 years of age | | 130 033 |
| 55 and up to 64 years of age | | 113 985 |
| 65 years of age and over | | 101 599 |
| Female | | 1 953 545 |
| Under 10 years of age | | 568 449 |
| 10 and up to 14 years of age | | 185 876 |
| 15 and up to 24 years of age | | 321 371 |
| 25 and up to 34 years of age | | 316 746 |
| 35 and up to 44 years of age | | 238 046 |
| 45 and up to 54 years of age | | 142 876 |
| 55 and up to 64 years of age | | 95 039 |
| 65 years of age and over | | 85 142 |
| EMPLOYMENT | | |
| Household members engaged in agricultural work on the holding | | 2 020 544 |
| Household members engaged in work off the holding | | 288 234 |
| Household members not economically active | | 1 637 517 |
| Permanent workers | | |
| Total | | 1 916 214 |
| Household members | | 1 912 301 |
| Hired permanent workers | | 3 913 |

| IRRIGATION | |
|--------------------------------|-----------|
| Normally irrigated land | |
| Area | 22 184 |
| CROPS, TEMPORARY (area) | |
| Beans, dry edible | 1 117 |
| Beans, french | 400 |
| Cassava | 42 640 |
| Cotton | 2 515 |
| Eggplant | 168 |
| Fonio | 95 774 |
| Groundnuts | 81 173 |
| Lettuce / Endive | 40 |
| Maize | 87 404 |
| Millet | 49 309 |
| Okra | 9 716 |
| Peas, dry edible | 2 901 |
| Pimento | 1 863 |
| Potatoes | 58 |
| Pumpkin / Squash / Gourds | 599 |
| Rice | 312 805 |
| Sesame seed | 3 625 |
| Sorghum | 13 181 |
| Sweet potatoes | 10 784 |
| Taro (cocoyam) | 18 315 |
| Tobacco | 273 |
| Tomatoes | 59 |
| Yams | 1 871 |
| CROPS, PERMANENT (area) | |
| Avocados | 2 949 |
| Bananas | 7 582 |
| Cocoa | 7 597 |
| Coconuts | 22 |
| Coffee | 90 896 |
| Kolanuts | 22 981 |
| Mangoes | 6 857 |
| Oil palm | 1 097 |
| Oranges | 2 976 |
| LIVESTOCK (head) | |
| Cattle | |
| Total | 1 011 873 |
| Male | 388 573 |
| Female | 623 300 |
| Cattle under 2 years of age | |
| Total | 328 448 |
| Male | 159 748 |
| Female | 168 700 |
| Cattle 2 years of age and over | |
| Total | 683 425 |
| Male | 228 825 |
| Female | 454 600 |
| Sheep, total | 506 573 |
| Sheep under 1 year of age | 145 555 |
| Sheep 1 year of age and over | |
| Total number | 361 018 |
| Male | 89 471 |
| Female | 271 547 |
| Goats, total | 768 826 |
| Goats under 1 year of age | 229 698 |
| Goats 1 year of age and over | 539 128 |
| Pigs, total | 33 082 |
| Pigs under 6 months of age | 13 167 |
| Pigs 6 months of age and over | 19 915 |

(1) Data refer to traditional sector only; modern sector (95 457 Ha) is excluded.

GUINEA BISSAU - Agricultural Census 1988 - Explanatory Notes

Historical outline: The 1988-89 National Agricultural Census follows those undertaken in the formerly called Portuguese Guinea in 1953 and in 1960-61.

Organization: The census was organized by the Agricultural Statistics Division of the Ministry of Rural Development in collaboration with the General Department of Statistics of the Ministry of Planning and with the financial assistance of the Permanent Interstate Committee for Drought Control in the Sahel (CILSS), and the technical assistance of the UN Development Program and the Food and Agricultural Organization of the UN. The staff consisted of 12 scrutiny clerks at the headquarters, 57 supervisors and 202 enumerators in the field.

Enumeration period: The census was carried out in 1988-89.

Reference date: All census items refer to the agricultural year 1988-89.

Coverage: The census aimed to include both traditional and large holdings, but the complete enumeration of Large Holdings (Ponteiros) failed because only 339 questionnaires, out of a total distribution of 1500, were sent back duly filled in; consequently, the report deals with the census results of the Traditional Sector only. Geographic coverage refers to the entire country, but excludes the autonomous sector of the capital city, Bissau.

Frame: A complete list of villages (tabancas), together with an estimate of their population by sector, was obtained by systematically scanning villages all over the country.

Methods: A stratified two-stage sampling design was adopted; the administrative sectors were considered as strata. Guinea-Bissau consists of 8 regions divided into 37 sectors; each sector consists of sections divided into villages. In weighing the available resources with the required degree of precision (sampling error not exceeding 5 percent), a sample size of 3863 holdings was considered adequate. The primary sampling units, the villages, were systematically drawn with unequal probabilities and with repetitions permitted (each village was drawn with probability proportional to its population). The number of villages sampled was 970, almost 1/3 of the total. The secondary sampling units, the traditional sector holdings, were selected with equal probability and without repetitions permitted, from all sampled villages, in a fixed number of 4, up to the total number of 3863, (almost 1/22 of the total). Data were collected by enumerators through direct interview; objective measurements were made by enumerators on areas and yields.

Data source: Résultats du Recensement National de l'Agriculture 1988-89, Tome I, Résultats Nationaux et Régionaux, Mai 1990.

Mailing address: République de Guinée-Bissau - Ministère du Développement Rural et de l'Agriculture - Cabinet de Planification - B. P. 71 Bissau, Guinée Bissau - Fax 00245 212617.

GUINEA BISSAU - Agricultural Census 1988 - Primary Results

Area: in hectares

| NUMBER OF HOLDINGS BY SIZE OF LAND UNDER CROPS | |
|---|---------|
| Size classes | Number |
| All holdings | 84 221 |
| Under 0.2 Ha | 26 776 |
| 0.2 - 0.5 Ha | 15 238 |
| 0.5 - 1 Ha | 17 106 |
| 1 - 2 Ha | 14 809 |
| 2 - 5 Ha | 8 531 |
| 5 - 10 Ha | 1 590 |
| 10 Ha and over | 171 |
| AREA OF HOLDINGS | |
| Land under crops | 96 375 |
| FRAGMENTATION OF HOLDINGS | |
| Parcels | 232 638 |
| TENURE (area) | |
| Area owned or in ownerlike possession | 53 770 |
| Area rented from others | 518 |
| Area under tribal or traditional communal forms of tenure | 9 725 |
| Area under other forms of tenure | 32 362 |
| HOLDERS BY AGE | |
| Holders, total | 84 221 |
| Under 25 years of age | 1 822 |
| 25 to 34 years of age | 11 781 |
| 35 to 44 years of age | 15 911 |
| 45 to 54 years of age | 15 309 |
| 55 to 64 years of age | 16 580 |
| 65 years of age and over | 22 818 |
| HOLDINGS BY NUMBER OF PERSONS | |
| Holdings with: | |
| 1 person | 1 996 |
| 2 persons | 4 129 |
| 3 to 5 persons | 23 411 |
| 6 to 9 persons | 30 291 |
| 10 persons and more | 24 394 |
| FARM POPULATION | |
| Household members, total | 706 168 |
| Male | 353 117 |
| Under 10 years of age | 120 929 |
| 10 and up to 14 years of age | 46 947 |
| 15 and up to 24 years of age | 55 746 |
| 25 and up to 34 years of age | 39 736 |
| 35 and up to 44 years of age | 26 358 |
| 45 and up to 54 years of age | 18 924 |
| 55 and up to 64 years of age | 18 440 |
| 65 years of age and over | 26 037 |
| Female | 353 051 |
| Under 10 years of age | 109 892 |
| 10 and up to 14 years of age | 36 042 |
| 15 and up to 24 years of age | 62 287 |
| 25 and up to 34 years of age | 56 162 |
| 35 and up to 44 years of age | 35 052 |
| 45 and up to 54 years of age | 23 469 |
| 55 and up to 64 years of age | 15 738 |
| 65 years of age and over | 14 409 |
| EMPLOYMENT | |
| Household members engaged in agricultural work on the holding | 396 343 |
| Household members engaged in work off the holding | 14 903 |
| Household members not economically active | 294 922 |

| LAND USE | |
|--------------------------------|---------|
| Land under crops | 96 375 |
| CROPS, TEMPORARY (area) | |
| Rice | 43 831 |
| Maize | 5 827 |
| Millet | 16 778 |
| Sorghum | 8 036 |
| Fonio | 2 209 |
| Sweet potatoes | 250 |
| Cassava | 1 258 |
| Yams | 209 |
| Beans, edible dry | 1 197 |
| Groundnuts | 13 590 |
| Cotton | 2 901 |
| CROPS, PERMANENT (area) | |
| Cashew nuts | 272 |
| LIVESTOCK (head) | |
| Cattle | |
| Total | 236 355 |
| Male | 89 146 |
| Female | 147 209 |
| Cattle under 2 years of age | |
| Total | 89 736 |
| Male | 39 659 |
| Female | 50 077 |
| Cattle 2 years of age and over | 146 619 |
| Male | 49 487 |
| Female | 97 132 |
| Sheep, total | 90 684 |
| Sheep under 1 year of age | 29 352 |
| Sheep 1 year of age and over | |
| Total | 61 332 |
| Male | 23 856 |
| Female | 37 476 |
| Goats, total | 222 352 |
| Goats under 1 year of age | 84 039 |
| Goats 1 year of age and over | |
| Total | 138 313 |
| Male | 55 233 |
| Female | 83 080 |
| Pigs, total | 120 170 |
| Pigs under 6 months of age | 41 393 |
| Pigs 6 months of age and over | |
| Total | 78 777 |
| Male | 31 675 |
| Female | 47 102 |
| Horses | 550 |
| Asses | 8 951 |
| Chickens | 441 291 |
| Ducks | 25 433 |
| Turkeys | 55 984 |
| Beehives | |
| Units | 19 245 |

LESOTHO - Agricultural Census 1989/90 - Explanatory Notes

Historical outline: Lesotho has been participating in the FAO Programme for the World Census of Agriculture ever since 1950. The first census of agriculture, conducted in 1949/50, and the second, conducted in 1959/60, were both organized by the Ministry of Agriculture, while the third, conducted in 1969/70, the fourth, conducted in 1979/80, and the fifth, conducted in 1989/90, to which data here refer, were organized by the Bureau of Statistics. The 1989/90 census complements the annual statistical survey on crops and livestock production started in 1973.

Organization: The census was conducted by the Bureau of Statistics (BOS), which was responsible for its planning, organization, data collection, processing, analysis and tabulation; administrative and financial responsibility was also with the BOS. Objectives and coverage of the census were determined in collaboration with a coordinating committee which also included the Ministry of Agriculture. The field work was carried out by about 80 specially trained enumerators, called Field Assistants, permanently employed by the BOS, and by 40 temporarily employed enumerators. Each enumerator was in charge of a Primary Sampling Unit (PSU), and their field work was supervised by one District Statistical Officer in each of the ten districts, with some additional Field Officers assisting in large districts.

Enumeration period: Data were collected during the period August 1989 to July 1990; enumerators visited the selected households at different times during the year depending on the information to be collected.

Reference date: Data generally refer to the agricultural year 1 August to 31 July. Data on livestock refer to 1 August 1989.

Definition: An agricultural holding is an economic unit of agricultural production under single management. It consists of all livestock kept and all land used for agricultural production, without regard to title. For the purpose of the census, the agricultural holdings were restricted to those meeting one or more of the following conditions:

- having or operating at least one field of arable land;
- raising one or more cattle;
- raising five or more sheep and/or goats.

Coverage: The census covered the entire country. The types of holdings covered include peasant farms, large farms, prison farms, school farms, projects, etc. Agricultural activities in urban areas were also included.

Frame: The 1986 Population Census data were used as a sampling frame for the agricultural census. The frame of Primary Sampling Units (PSUs) was prepared by district (ten) and, within district, by agro-ecological zone (four).

Methods: A stratified multi-stage sampling scheme was adopted (excluding prisons and project farms which were completely enumerated). Enumeration areas constituted the PSUs and individual agricultural holdings (farming households) constituted the Secondary Sampling Units (SSUs) for estimation of land use, crop areas and livestock population. Fields under specific crops formed the secondary sampling units for estimation of crop yields. 120 PSUs and over 3000 holdings were selected, there being about 25 selected holdings in each PSU. The PSUs were selected with probability proportional to size, the size estimate being obtained from the 1986 Population Census. In each PSU, the 25 agricultural households were selected through systematic sampling from a list of all agricultural households. Data on crop areas were obtained using actual measurement of all fields on selected holdings.

Data source: Lesotho Bureau of Statistics - The Agricultural Census in Lesotho 1989/90 - Technical Report, December 1991 and Analytical Report, May 1994.

Mailing address: Bureau of Statistics, P.O. Box 455, Maseru 100, Lesotho.

LESOTHO - Agricultural Census 1989/90 - Primary Results

Area: in hectares

Production: in metric tons

| NUMBER OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | |
|--|---------|
| Size classes | Number |
| All holdings | 229 300 |
| Holdings without land | 8 000 |
| Under 0.25 Ha | 25 500 |
| 0.25 - 0.5 Ha | 25 100 |
| 0.5 - 1 Ha | 48 800 |
| 1 - 2 Ha | 67 000 |
| 2 - 3 Ha | 28 600 |
| 3 - 5 Ha | 18 200 |
| 5 Ha and over | 8 100 |
| AREA OF HOLDINGS | |
| Land under crops | 331 000 |
| FRAGMENTATION OF HOLDINGS | |
| Holdings with: | |
| 1 parcel | 47 700 |
| 2 to 3 parcels | 133 700 |
| 4 to 5 parcels | 36 200 |
| 6 parcels and over | 3 700 |
| HOLDERS BY AGE | |
| Holdings, total | 229 300 |
| 15 to 24 years of age | 800 |
| 25 to 34 years of age | 24 000 |
| 35 to 44 years of age | 49 800 |
| 45 to 54 years of age | 54 800 |
| 55 to 64 years of age | 47 800 |
| 65 years of age and over | 52 100 |
| HOLDERS BY SEX | |
| Holdings, total | 229 300 |
| Male | 169 400 |
| Female | 59 900 |
| CROPS, TEMPORARY | |
| Wheat | |
| Area harvested | 15 100 |
| Production | 30 500 |
| Maize | |
| Area harvested | 147 300 |
| Production | 171 600 |
| Sorghum | |
| Area harvested | 37 300 |
| Production | 36 100 |

LIVESTOCK

| | |
|--------------------------------|-----------|
| Cattle | |
| Holdings reporting | 125 000 |
| Animals, total | 523 000 |
| Calves under 1 year of age | 62 000 |
| Cattle 1 - 2 years of age | |
| Total | 71 000 |
| Male | 37 000 |
| Female | 34 000 |
| Cattle 2 years of age and over | |
| Total | 390 000 |
| Male | 175 000 |
| Female | 215 000 |
| Sheep | |
| Holdings reporting | 196 900 |
| Animals, total | 1 377 000 |
| Lambs under 1 year of age | 333 000 |
| Sheep 1 year of age and over | |
| Total | 1 044 000 |
| Male | 266 000 |
| Female | 778 000 |
| Goats | |
| Holdings reporting | 60 100 |
| Animals, total | 994 000 |
| Goats under 1 year of age | 190 000 |
| Goats 1 year of age and over | |
| Total | 804 000 |
| Male | 193 000 |
| Female | 611 000 |
| Pigs | |
| Animals, total | 66 500 |
| Pigs under 6 months of age | 30 300 |
| Pigs 6 months of age and over | 36 200 |
| Horses | |
| Animals, total | 103 800 |
| Horses under 1 year of age | 4 700 |
| Horses 1 - 2 years of age | 11 000 |
| Horses 2 years of age and over | 88 100 |

LIBYA - Agricultural Census 1987 - Explanatory Notes

Historical outline: A census of agriculture was conducted in the United Kingdom of Libya in 1960; subsequently, two censuses of agriculture were conducted in the Libyan Arab Jamahiriya, the first in 1974 and the second, to which data here refer, in 1987.

Organization: The 1987 Census of Agriculture was planned, organized and conducted by the Department of Statistics and Census as central authority. At local level, municipalities were also involved in census operations.

Enumeration period: The field operations continued from late 1987 through 1988 and the first half of 1989.

Reference date: Census items refer to the agricultural year October 1986 to September 1987.

Definition: Holding - is defined as a technoeconomic unit of agricultural production wholly or partly used for crop production or livestock keeping or tree crops growing or a mixture of land, livestock and tree crops, operated as an independent economic unit. Economic units raising race horses only were not included in the census.

Coverage: The census covered the entire country.

Frame: A list of agricultural holders and holdings was obtained from the 1984 Population Census.

Methods: Complete enumeration of all holdings was carried out. Data were collected through direct interview.

Data source: The Socialist People's Libyan Arab Jamahiriya - The General People's Committee for Economic Planning - Department of Statistics and Census - Agricultural Census 1987, Final Results.

Mailing address: Statistics and Census Department, P.O. Box 600, Tripoli, Libyan Arab Jamahiriya.

LIBYA - Agricultural Census 1987 - Primary Results

Area: in hectares

Production: in metric tons

| NUMBER OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | |
|---|-----------|
| Size classes | Number |
| All holdings | 175 528 |
| Holdings without land | 11 711 |
| Under 0.5 Ha | 5 887 |
| 0.5 - 1 Ha | 7 615 |
| 1 - 2 Ha | 17 654 |
| 2 - 3 Ha | 16 495 |
| 3 - 4 Ha | 14 909 |
| 4 - 5 Ha | 12 500 |
| 5 - 10 Ha | 40 406 |
| 10 - 20 Ha | 28 285 |
| 20 - 50 Ha | 15 987 |
| 50 - 100 Ha | 3 393 |
| 100 Ha and over | 686 |
| AREA OF HOLDINGS | |
| Total area | 2 495 906 |
| FRAGMENTATION OF HOLDINGS | |
| Parcels | 297 445 |
| HOLDERS BY TYPE OF ACTIVITY | |
| Holders engaged: | |
| In agricultural work on the holding | 67 199 |
| In work off the holding | 108 329 |
| FARM POPULATION | |
| Household members, total | 1 433 955 |
| LAND USE (area) | |
| Agricultural land | 1 527 020 |
| Cropland | 1 234 503 |
| Arable land | 880 092 |
| Land under permanent crops | 354 411 |
| Land under perm. meadows/pastures | 292 517 |
| All other land | 968 886 |
| IRRIGATION | |
| Normally irrigated land | 363 665 |
| CROPS, TEMPORARY | |
| Wheat | |
| Area | 108 778 |
| Barley | |
| Area | 629 713 |
| Onions | |
| Production | 131 154 |
| Garlic | |
| Production | 5 562 |
| Peppers, green | |
| Production | 23 434 |
| Eggplant | |
| Production | 1 178 |

| CROPS, TEMPORARY (cont'd) | |
|--------------------------------|-----------|
| Carrots | |
| Production | 4 289 |
| Cabbages | |
| Production | 2 375 |
| Lettuce | |
| Production | 10 237 |
| Cucumbers | |
| Production | 10 690 |
| Potatoes | |
| Production | 156 887 |
| Tomatoes | |
| Production | 195 582 |
| CROPS, PERMANENT | |
| Olives | |
| Trees | 7 015 703 |
| Production | 159 669 |
| Dates | |
| Trees | 3 439 885 |
| Production | 103 705 |
| Bananas | |
| Trees | 3 501 624 |
| Production | 14 615 |
| Grapes | |
| Trees | 8 991 282 |
| Production | 28 496 |
| Pomegranates | |
| Trees | 1 735 579 |
| Production | 15 499 |
| Figs | |
| Trees | 1 581 245 |
| Production | 9 971 |
| LIVESTOCK (head) | |
| Cattle | 97 629 |
| Camels | 81 418 |
| Sheep | 1 172 201 |
| Goats | 4 364 546 |
| Chickens | 7 578 367 |
| Beehives / Bee colonies | |
| Units | 12 645 |
| MACHINERY / EQUIPMENT | |
| Harvester-threshers (combines) | |
| Holdings reporting use | 88 135 |
| Electric generators | |
| Holdings reporting use | 62 134 |

REUNION - Agricultural Census 1989 - Explanatory Notes

Information: Réunion is part of the French Territory, and it is only for practical purposes that it is recorded in the Data Bank at country level in the African Region. Consequently, results related to France bear only upon the territory of France in Europe (France Métropolitaine).

Historical outline: The 1988-89 Agricultural Census is the second taken in Réunion; the first was carried out in 1980-81.

Organization: The census was organized by the Central Service of Statistical Surveys and Studies (SCEES) of the Ministry of Agriculture and Forestry, in collaboration with the local Statistical Offices of the above-mentioned Ministry.

Enumeration period: The census was carried out in 1988-89.

Definitions:

- "Superficie agricole utilisée" includes arable land, land under permanent crops, and land under permanent meadows and pastures.
- "Superficie agricole utile" includes "superficie agricole utilisée", land occupied by buildings, roads, and ditches as well as unproductive land.
- "Superficie totale" includes "superficie agricole utile", wood or forest land, aquaculture basins, and all other land not suitable for agriculture.
- Agricultural holding is an economic unit of agricultural production satisfying at the same time the following four conditions:
 - an agricultural output;
 - at least 0.5 Ha of "superficie agricole utile" or 0.1 Ha of "superficie agricole utilisée", or overstepping a certain number of livestock (depending on the type of animal), or a certain level of agricultural output;
 - an autonomous management;
 - accurately located in a municipality and identified by the most important building or the most important parcel.

Coverage: The census covered the entire country.

Frame: In the first half of 1988, a list of agricultural holdings, based on the list prepared for the previous census, was established in each municipality and used as frame.

Methods: Complete enumeration of holdings was conducted through direct interview.

Data source: Recensement Agricole 1988-89, Résultats Départementaux.

Mailing address:

- Ministère de l'Agriculture et de la Forêt, Service Central des Enquêtes et Etudes Statistiques, 4, avenue de Saint-Mandé - 75570 Paris Cedex 12; Tél.: (1) 43444633.
- Saint-Denis - Réunion: Boulevard de la Providence - B.P. 447 - 97489 Saint Denis; Tél.: 19 (262) 211373.

REUNION - Agricultural Census 1989 - Primary Results

Area: in hectares

| NUMBER AND AGRICULTURAL AREA OF HOLDINGS BY SIZE OF AGRICULTURAL AREA OF HOLDING | | |
|---|--------|--------|
| Size classes | Number | Area |
| All holdings | 13 755 | 50 363 |
| Under 1 Ha | 3 970 | 1 613 |
| 1 - 2 Ha | 3 082 | 4 119 |
| 2 - 3 Ha | 2 103 | 4 805 |
| 3 - 4 Ha | 1 162 | 3 841 |
| 4 - 5 Ha | 933 | 4 018 |
| 5 - 10 Ha | 1 896 | 11 972 |
| 10 - 20 Ha | 414 | 5 284 |
| 20 Ha and over | 195 | 14 711 |
| TENURE (area) (1) | | |
| Area owned or in ownerlike possession | | 31 646 |
| Area rented from others | | 18 117 |
| For an agreed amount of money and/or produce | | 9 615 |
| For a share of produce | | 8 502 |
| Area under other forms of tenure | | 600 |
| HOLDERS BY AGE | | |
| Holders, total | | 15 198 |
| Under 35 years of age | | 3 837 |
| 35 and up to 49 years of age | | 5 919 |
| 50 and up to 64 years of age | | 4 644 |
| 65 years of age and over | | 798 |
| HOLDERS BY SEX | | |
| Holders, total | | 15 198 |
| Male | | 13 695 |
| Female | | 1 503 |
| FARM POPULATION BY AGE | | |
| Household members, total | | 71 270 |
| Under 35 years of age | | 47 931 |
| 35 and up to 49 years of age | | 11 947 |
| 50 and up to 64 years of age | | 8 975 |
| 65 years of age and over | | 2 417 |
| FARM POPULATION BY SEX | | |
| Household members, total | | 71 270 |
| Male | | 37 681 |
| Female | | 33 589 |
| EMPLOYMENT | | |
| Household members engaged in agricultural work on the holding | | 8 603 |
| Household members engaged in work off the holding | | 16 577 |
| Household members not economically active | | 46 090 |
| LAND USE | | |
| All holdings | | |
| Holdings | | 15 198 |
| Area | | 67 154 |
| Agricultural land | | |
| Holdings | | 13 755 |
| Area | | 50 363 |
| Cropland | | |
| Area | | 40 116 |
| Arable land | | |
| Area | | 37 910 |
| Land under temporary crops | | |
| Area | | 37 290 |
| Land temporarily fallow | | |
| Area | | 620 |
| Land under permanent crops | | |
| Area | | 2 206 |
| Land under perm. meadows/pastures | | |
| Area | | 10 247 |
| Wood or forest land | | |
| Area | | 6 174 |
| All other land | | |
| Area | | 11 565 |

| CROPS, TEMPORARY | |
|-------------------------------|---------|
| Sugar cane | |
| Holdings reporting | 7 535 |
| Area | 30 570 |
| CROPS, PERMANENT | |
| Bananas | |
| Holdings reporting | 699 |
| Area | 499 |
| Pineapples | |
| Holdings reporting | 313 |
| Area | 215 |
| LIVESTOCK | |
| Cattle, total | |
| Holdings reporting | 3 069 |
| Animals | 18 601 |
| Cattle under 1 year of age | |
| Holdings reporting | 1 323 |
| Animals | 3 672 |
| Cattle 1 year of age and over | |
| Animals | 14 929 |
| Sheep | |
| Holdings reporting | 107 |
| Animals | 2 280 |
| Goats | |
| Holdings reporting | 3 796 |
| Animals | 31 318 |
| Pigs | |
| Holdings reporting | 5 662 |
| Animals | 70 921 |
| Chickens | |
| Holdings reporting | 6 898 |
| Animals | 209 744 |
| MACHINERY / EQUIPMENT | |
| 4-Wheel tractors | |
| owned by the holder | |
| Holdings reporting | 1 197 |
| Units | 1 464 |
| 2-Wheel tractors | |
| owned by the holder | |
| Holdings reporting | 198 |
| Units | 209 |
| Sprayers / Dusters | |
| owned by the holder | |
| Holdings reporting | 8 464 |
| Units | 10 687 |
| Manure distributors | |
| used on the holding | |
| Holdings reporting | 182 |
| Units | 209 |
| Trucks | |
| used on the holding | |
| Holdings reporting | 1 245 |
| Units | 1 301 |

(1) Data refer to agricultural land.

SAO TOME AND PRINCIPE - Agricultural Census 1990 - Explanatory Notes

Historical outline: The 1990 Agricultural Census of São Tomé and Príncipe follows the one undertaken in 1961-64 and published in 1968.

Organization: The Census was conducted by the Ministry of Agriculture and Rural Development in collaboration with the Statistical Office of the Ministry of Economics and Statistics. Technical advice was also given by the Statistics Division of the Studies and Planning Office of the Ministry of Rural Development and Fisheries of the Republic of Cape Verde. Financial and technical assistance was also granted by the French Cooperation, the UN Development Program, and the International Fund for Agricultural Development; 130 enumerators and 6 supervisors participated in the collection of data.

Enumeration period: After a preparatory stage from April 1989 to January 1990, the field work was carried out during the period March - May 1990. Data processing and checking were carried out from June 1990 to July 1991.

Reference date: The reference period for all census items was the agricultural season 1989.

Coverage: All agricultural holdings for which the holder had the seat in the investigated Agricultural Zone were covered. The holdings to be enumerated were divided into three groups:

- a) Households growing crops or raising livestock mainly for home consumption;
- b) Government holdings;
- c) Roças (holdings operating under legal rights, with buildings and other agricultural infrastructures, generally growing permanent crops).

Holdings belonging to group (a) formed the Traditional Sector, while those belonging to groups (b) and (c) were considered as Modern Sector.

Excluded from the enumeration were:

- households residing in the agricultural zones but not practising agriculture;
- households living in the urban area of São Tomé.

Frame: For census purposes, the so-called Agricultural Zones were identified in the seven districts into which the country is administratively divided. These Agricultural Zones provided the enumeration frame for the agricultural holdings.

Methods: Holdings belonging to the Modern Sector (i.e. government holdings and estates/roças) were completely enumerated. Out of 13779 Traditional Sector holdings identified, 11874 were investigated. Data were collected by enumerators through direct interviews.

Data source: Republica Democratica de São Tomé e Príncipe - Ministerio da Agricultura e Desenvolvimento Rural - Recenseamento Agrícola 1990 - Março 1993.

Mailing address: Republica Democratica de São Tomé e Príncipe - Ministerio da Agricultura e Desenvolvimento Rural - P.O. Box 47 São Tomé - Tel. 00239 12 22714/22347; Fax 00239 12 22347.

SAO TOME AND PRINCIPE - Agricultural Census 1990 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS | |
|--|--------|
| All sectors | |
| Holdings reporting | 13 822 |
| Total area | 76 214 |
| Traditional sector | |
| Holdings reporting | 13 779 |
| Area | 3 542 |
| Modern sector | |
| Holdings reporting | 43 |
| Area | 72 672 |
| FRAGMENTATION OF HOLDINGS (1) | |
| Parcels | 14 372 |
| HOLDERS BY SEX (1) | |
| Holdings, total | 13 779 |
| Male | 9 156 |
| Female | 4 623 |
| HOLDERS BY TYPE OF ACTIVITY (1) | |
| Holders engaged: | |
| In agricultural work on the holding | |
| Total | 10 663 |
| Male | 7 346 |
| Female | 3 317 |
| In work off the holding | |
| | 3 116 |
| FARM POPULATION (1) | |
| Household members, total | 35 072 |
| Male | |
| Under 15 years of age | 5 947 |
| 15 and up to 29 years of age | 5 269 |
| 30 and up to 44 years of age | 2 663 |
| 45 and up to 59 years of age | 2 541 |
| 60 years of age and over | 1 793 |
| Female | |
| Under 15 years of age | 16 859 |
| 15 and up to 29 years of age | 5 250 |
| 30 and up to 44 years of age | 5 027 |
| 45 and up to 59 years of age | 2 828 |
| 60 years of age and over | 2 291 |
| | 1 463 |

| LAND USE (area) | |
|-------------------------------------|---------|
| Cropland | 41 367 |
| Arable land | 2 110 |
| Land under permanent crops | 39 257 |
| All other land | 34 847 |
| CROPS, TEMPORARY (area) | |
| Vegetables | 2 110 |
| Pimento | 4 |
| CROPS, PERMANENT (area) | |
| Citrus fruits | 65 |
| Pineapples | 3 |
| Bananas | 592 |
| Coffee | 984 |
| Cocoa | 26 076 |
| Coconut | 7 676 |
| Oil palm | 3 857 |
| LIVESTOCK (head) | |
| Cattle | 232 |
| Sheep | 1 172 |
| Goats | 22 905 |
| Pigs | 34 324 |
| Horses / Asses | 8 |
| Rabbits | 5 100 |
| Chickens | 103 441 |
| Ducks | 20 718 |
| Turkeys | 546 |
| MACHINERY / EQUIPMENT (1) | |
| Sprayers / Dusters | |
| Holdings reporting use | 607 |
| Water pumps | |
| Holdings reporting use | 223 |
| FERTILIZERS / PESTICIDES (1) | |
| Chemical fertilizers | |
| Holdings reporting use | 993 |
| Organic fertilizers | |
| Holdings reporting use | 1 824 |
| Pesticides | |
| Holdings reporting use | 749 |

(1) Data refer to Traditional Sector only.

SWAZILAND - Agricultural Census 1993 - Explanatory Notes

Historical outline: The first Census of Agriculture in Swaziland was conducted in 1971-72, the second in 1983-84, while the last one was carried out in 1992-93. Agriculture surveys are undertaken annually.

Organization: 1992-93 Census operations were carried out by the Agriculture Section of the Central Statistical Office with collaboration of the Ministry of Agriculture and Cooperatives, the Social Science Research Unit of the University of Swaziland for the development of the questionnaire, and the Regional Administration Offices that requested the community chiefs to collaborate with the enumerators; the Food and Agriculture Organization of the UN provided technical assistance with both developing the census programme and processing of results; 435 enumerators assisted by community chiefs' representatives (helpers), 44 supervisors, and two coordinators, carried out the field work.

Enumeration period: The 1992-93 Census consisted of three phases: data collection for the first phase, to which present notes and data reported refer, began on 1 November 1992 and was completed during the first half of December of the same year.

Reference date: Census data refer to the agricultural season 1992-93.

Coverage: The 1992-93 Census of Agriculture consisted of three phases: in the first phase of the census all homesteads (holdings) on Swazi Nation Land (Communal Land) and all squatters on title deed farms, were covered; in the second phase, a number of homesteads selected on sample basis in the areas included in the first phase, were revisited; and in the third phase, the large estates/plantations and the owners of title deed farms, were investigated. Urban areas were excluded from the agricultural census.

Frame: The same Enumeration Areas (EAs) identified for the 1986 population census were used as the frame for the 1992-93 Census of Agriculture. Population census EAs are also used as the frame for the annual agriculture surveys.

Methods: The first phase of the 1992-93 Census of Agriculture was carried out on a complete enumeration basis; 911 EAs were assigned to the 435 enumerators assisted by the helpers, in numbers of two and sometimes three EAs each, with a total of about 161 homesteads for enumerator; as a result, more than 70,000 homesteads were investigated. The EAs formed the primary sampling units for the second phase of the census. The information on large industrial plantations/estates and owners of title deed farms was collected through a postal enquiry.

Data source: Swaziland Census of Agriculture 1992-93 - Phase I - Complete Coverage of Rural Areas.

Mailing address: Central Statistical Office - P.O. Box 456 - Mbabane - Swaziland.

SWAZILAND - Agricultural Census 1993 - Primary Results (1)

Area: in hectares

| NUMBER AND AREA OF HOLDINGS | |
|---------------------------------------|--------|
| Holdings reporting | 73 745 |
| HOLDERS BY SEX | |
| Holdings, total | 73 745 |
| Male | 61 062 |
| Female | 12 683 |
| HOLDERS BY AGE | |
| Holdings, total | 73 745 |
| Under 20 years of age | 6 |
| 20 to 29 years of age | 2 998 |
| 30 to 39 years of age | 13 116 |
| 40 to 49 years of age | 19 633 |
| 50 to 59 years of age | 16 643 |
| 60 years of age and over | 21 349 |
| HOLDINGS BY NUMBER OF PERSONS | |
| Holdings with: | |
| 1 person | 2 667 |
| 2 persons | 3 390 |
| 3 to 4 persons | 10 590 |
| 5 to 6 persons | 14 437 |
| 7 to 8 persons | 14 117 |
| 9 to 10 persons | 10 584 |
| 11 persons and over | 17 960 |
| IRRIGATION | |
| Normally irrigated land | |
| Holdings reporting | 6 085 |
| IRRIGATION FACILITIES | |
| Holdings reporting use of: | |
| Gravitational flow | 1 418 |
| Sprinklers | 297 |
| Other facilities | 4 370 |
| CROPS, TEMPORARY (holdings reporting) | |
| Maize | 62 328 |
| Sorghum | 2 730 |
| Beans, dry edible | 9 033 |
| Beans, green | 1 652 |
| Jugo beans | 7 570 |
| Cowpeas | 5 876 |
| Groundnuts | 14 222 |
| Potatoes | 2 031 |
| Sweet potatoes | 7 178 |
| Cotton | 8 707 |
| Tobacco | 1 222 |
| Cabbages | 6 043 |
| Tomatoes | 5 954 |
| Spinach | 6 329 |
| Carrots | 3 453 |
| Beets | 3 823 |
| Pumpkins | 31 644 |
| Peppers | 3 441 |
| Onions | 4 294 |

| CROPS, PERMANENT (holdings reporting) | |
|---------------------------------------|---------|
| Oranges | 6 784 |
| Lemons | 4 001 |
| Apples | 2 195 |
| Plums | 2 212 |
| Peaches | 24 188 |
| Grapes | 5 089 |
| Avocados | 15 855 |
| Mangoes | 13 276 |
| Bananas | 10 840 |
| Papayas | 10 758 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 36 659 |
| Animals | 551 167 |
| Sheep | |
| Holdings reporting | 2 027 |
| Animals | 24 161 |
| Goats | |
| Holdings reporting | 23 355 |
| Animals | 332 232 |
| Pigs | |
| Holdings reporting | 12 487 |
| Animals | 42 443 |
| Horses | |
| Holdings reporting | 346 |
| Animals | 1 362 |
| Asses | |
| Holdings reporting | 3 141 |
| Animals | 14 497 |
| Chickens | |
| Holdings reporting | 61 386 |
| Animals | 704 324 |
| Turkeys | |
| Holdings reporting | 735 |
| Animals | 3 189 |
| Ducks | |
| Holdings reporting | 8 763 |
| Animals | 36 452 |
| MACHINERY / EQUIPMENT | |
| Tractors | |
| Holdings reporting use | 32 959 |
| Units owned | 3 078 |

(1) Data refer to phase one of the census in which information on areas was not collected.

TANZANIA - Agricultural Census 1994/95 - Explanatory Notes

Historical outline: The first agricultural census in Tanzania was conducted in 1950 and repeated in 1960 and in 1971/72. The subsequent agricultural censuses, which were conducted in 1993/94 and in 1994/95, were preceded by a pilot census which took place in 1992. Data presented here refer to the 1994/95 census. Between 1972 and 1992, the Central Bureau of Statistics and the Ministry of Agriculture conducted a number of sample surveys. Livestock censuses were conducted in 1971, 1978, 1984 and 1993/94-1994/95. The censuses of 1978 and 1984 were complete enumerations while those of 1971 and 1993/94-1994/95 were sample censuses.

Organization: The administrative bodies involved in conducting the census were the National Census Committee, led by the Minister of Agriculture, and the Regional Census Committee, chaired by the Regional Agriculture and Livestock Development Office, both directing the implementation of the census operations along with the National Census Technical Committee, chaired by the Government Statistician, (who was also the Census Commissioner) and the Regional Census Technical Committee, led by the Regional Statistical Officer, both conducting and supervising the census. Field activities involved supervision at three levels: Headquarters, Regional and District; 540 enumerators and 96 district supervisors were involved in field operations. Technical and financial assistance were provided by the World Bank, the Food and Agriculture Organization of the United Nations, and the SIDA/Statistics Sweden.

Enumeration period: The census was launched in September 1993 and was completed in 1995.

Reference date: The agricultural year 1 October 1994 to 30 September 1995 was the reference year. The livestock count was as of a specific date, i.e. on 30 October 1994.

Definition: The selected statistical unit was the Agricultural Household, defined as any household operating at least 25 square meters of land or owing/keeping at least one cattle or five goats/sheep/pigs or fifty chickens/ducks/turkeys.

Coverage: The census covered rural areas only. Urban areas and large scale farms were considered outside the scope of the census.

Frame: The selection of the 540 villages throughout the country as Primary Sampling Units (PSU) was based on the National Master Sample, which was designed for conducting sample surveys for Tanzania Mainland. Official lists of households in the villages, representing the Secondary Sampling Units (SSU), were maintained by the villages secretaries.

Methods: The census was conducted on a sampling basis. Strata were developed, out of which villages were selected systematically using probability proportional to size procedure (PPS); this selection was done by stratum and from each stratum two to eight villages (PSUs) were independently selected up to a total of 540; in each of the 540 villages a sample of 15 agricultural households (SSUs) was selected for interview by the district supervisors, using systematic random sampling procedure; 8100 agricultural households were interviewed in the whole country (mainland).

Data source:

- National Sample Census of Agriculture 1993/94 and 1994/95, Tanzania Mainland, Report, Volume I, March 1996.
- National Sample Census of Agriculture 1994/95, Tanzania Mainland, Report, Volumes II and III, March - April 1996.

Mailing address:

- Ministry of Agriculture - Statistics Unit - Tamba Garden Street - P.O. Box 9192, Dar-es-Salaam, Tanzania - Tel. 00255 51 27231; Fax 00255 51 28428.
- Bureau of Statistics - Planning Commission - P.O. Box 796, Dar-es-Salaam, Tanzania.

TANZANIA - Agricultural Census 1994/95 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS | |
|-------------------------------------|------------|
| Holdings reporting | 3 872 323 |
| Total area | 10 764 000 |
| HOLDERS BY AGE | |
| Holdings, total | 3 872 323 |
| Under 25 years of age | 156 726 |
| 25 to 34 years of age | 905 021 |
| 35 to 44 years of age | 908 775 |
| 45 to 54 years of age | 796 263 |
| 55 to 64 years of age | 589 771 |
| 65 years of age and over | 512 973 |
| Of age not stated | 2 794 |
| HOLDERS BY SEX | |
| Holdings, total | 3 872 323 |
| Male | 3 210 455 |
| Female | 661 868 |
| HOLDERS BY TYPE OF ACTIVITY | |
| Holdings engaged mainly: | |
| In agricultural work on the holding | 3 778 543 |
| Permanent | 3 082 602 |
| Occasional | 695 941 |
| In work off the holding | 46 927 |
| Not economically active | 46 853 |
| FARM POPULATION BY AGE | |
| Household members, total | |
| Male | 10 674 310 |
| Under 10 years of age | 3 274 446 |
| 10 to 24 years of age | 3 514 078 |
| 25 to 34 years of age | 1 288 432 |
| 35 to 44 years of age | 906 656 |
| 45 to 54 years of age | 702 625 |
| 55 to 64 years of age | 506 921 |
| 65 years of age and over | 478 355 |
| Of age not stated | 2 797 |
| Female | 10 345 917 |
| Under 10 years of age | 3 210 904 |
| 10 to 24 years of age | 3 387 895 |
| 25 to 34 years of age | 1 472 345 |
| 35 to 44 years of age | 898 340 |
| 45 to 54 years of age | 647 799 |
| 55 to 64 years of age | 414 353 |
| 65 years of age and over | 308 009 |
| Of age not stated | 6 272 |
| HOLDINGS BY NUMBER OF PERSONS | |
| Holdings with: | |
| 1 person | 215 897 |
| 2 to 3 persons | 906 713 |
| 4 to 5 persons | 1 108 924 |
| 6 to 9 persons | 1 288 379 |
| 10 persons and over | 352 410 |
| EMPLOYMENT (1) | |
| Household members engaged mainly: | |
| In agricultural work on the holding | 13 145 179 |
| Permanent | 8 747 385 |
| Occasional | 4 397 794 |
| In work off the holding | 447 182 |
| Not economically active | 942 519 |
| CROPS, TEMPORARY (2) | |
| Maize | |
| Holdings reporting | 2 216 547 |
| Area planted | 1 368 246 |
| Rice | |
| Holdings reporting | 675 870 |
| Area planted | 274 428 |
| Sorghum | |
| Holdings reporting | 634 622 |
| Area planted | 389 644 |

| CROPS, TEMPORARY (2) (cont'd) | |
|---|------------|
| Millet | |
| Holdings reporting | 254 150 |
| Area planted | 207 841 |
| Finger millet | |
| Holdings reporting | 101 788 |
| Area planted | 29 211 |
| Cassava (manioc) | |
| Holdings reporting | 708 102 |
| Area planted | 188 243 |
| Potatoes | |
| Holdings reporting | 18 504 |
| Area planted | 1 500 |
| Sweet potatoes | |
| Holdings reporting | 411 520 |
| Area planted | 59 571 |
| Edible dry beans | |
| Holdings reporting | 880 563 |
| Area planted | 228 418 |
| Sunflower seed | |
| Holdings reporting | 79 398 |
| Area planted | 23 124 |
| Simsim | |
| Holdings reporting | 50 513 |
| Area planted | 8 615 |
| Groundnuts | |
| Holdings reporting | 414 717 |
| Area planted | 91 825 |
| LIVESTOCK (head) | |
| Cattle | 15 644 802 |
| Buffaloes | 7 911 |
| Sheep | 3 493 033 |
| Goats | 10 682 406 |
| Pigs | 434 638 |
| Asses | 419 314 |
| Chickens | 27 065 384 |
| Ducks / Geese | 1 214 330 |
| Turkeys | 91 135 |
| Guinea fowls | 43 193 |
| Rabbits | 224 751 |
| MACHINERY / EQUIPMENT (owned by the holder) (2) | |
| Electric Generators | |
| Holdings reporting | 1 988 |
| Units | 1 988 |
| Tractors | |
| Holdings reporting | 6 740 |
| Units | 7 525 |
| Harvester-threshers (combines) | |
| Holdings reporting | 4 327 |
| Units | 6 815 |
| Sprayers | |
| Holdings reporting | 320 134 |
| Units | 372 638 |
| Grain grinders / crushers | |
| Holdings reporting | 126 948 |
| Units | 159 039 |
| USE OF NON-RESIDENTIAL BUILDINGS | |
| Holdings reporting use of buildings for: | |
| Food storage | 1 132 000 |

(1) Excluding persons under 10 years of age.

(2) Data refer to Long Rain Season, accounting for 80% of total crop growing.

UGANDA - Agricultural Census 1991 - Explanatory Notes

Historical outline: Uganda participated in 1950 World Census of Agriculture and conducted a second agricultural census in 1963-65. The Uganda National Census of Agriculture and Livestock (UNCAL) was launched in 1987. In addition, some small-scale sample surveys, limited both in scope and coverage, were undertaken by the Statistics Section of the Ministry of Agriculture.

Organization: The UNCAL was undertaken as a joint effort between Uganda Government and two UN agencies: the UN Development Program as the funding agency, and the Food and Agriculture Organization of the UN, as the technical executing agency. The UNDP/FAO project commenced in April 1987 and began the main phase in July 1988. The census staff was composed of 4 regional coordinators, 9 area coordinators, 78 supervisors and 520 enumerators, plus 52 clerks as reserve enumerators.

Enumeration period: The National Census of Agriculture and Livestock Project started in April 1987, and the enumeration work was effectively undertaken between March 1990 and April 1991.

Reference date:

- For holding and holder characteristics: 1 February 1990 - 30 April 1991;
- for crops areas and yields: 1 - 31 March 1991;
- for livestock: 1 June - 31 July 1990;
- for machinery and labour force: 1 - 31 December 1990.

Coverage: Uganda was administratively divided into 33 districts (raised to 38 for census purposes), subdivided into 146 counties, 693 sub-counties, 3596 parishes, 7230 sub-parishes in turn. For census purposes only rural areas were considered, thus excluding urban centres with populations of more than 2000 and all gazetted trading centres in the rural areas. The main census took place in 26 only of the 38 districts. Large scale farms, government farms, institutional farms and cooperatives were covered on a complete enumeration basis; small and medium-scale agricultural holdings were covered on a sampling basis.

Frame: Since agriculture constitutes the main economic activity in rural areas and the number of taxpayers is positively correlated with the number of agricultural holdings, the taxpayers list was taken as sampling frame.

Methods: A pilot census and a pretest were conducted first, then, for the main census, a two-stage sampling design was used: at the first stage, 20 sub-parishes, considered as primary sampling units, were systematically selected in each district, with probability proportional to the number of taxpayers; at the second stage, a uniform number of 30 holdings were drawn without replacement and with equal probability within the selected sub-parishes. Consequently, 15600 holders (nearly one percent of agricultural holders in the country) were enumerated. Objective measurements of areas and yield estimation techniques were applied.

Data source: Report on Uganda National Census of Agriculture and Livestock 1990-91 - Vol. 1 to 5 - January 1992-93.

Mailing address: Ministry of Agriculture, Animal Industry and Fisheries - P.O. Box 102 Entebbe - Uganda - Tel. 00256 42 20752; Fax 00256 42 21047.

UGANDA - Agricultural Census 1991 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|-----------|-----------|
| Size classes | Number | Area |
| All holdings | 1 704 721 | 3 683 288 |
| Under 1 Ha | 839 369 | 404 609 |
| 1 - 2 Ha | 411 810 | 581 608 |
| 2 - 5 Ha | 296 560 | 913 153 |
| 5 - 10 Ha | 97 013 | 671 031 |
| 10 Ha and over | 59 969 | 1 112 887 |
| FRAGMENTATION OF HOLDINGS | | |
| Holdings with: | | |
| 1 parcel | | 1 104 803 |
| 2 to 3 parcels | | 498 028 |
| 4 parcels and over | | 101 890 |
| Parcels | | 2 725 222 |
| TENURE (area) | | |
| Area owned or in ownerlike possession | | 485 013 |
| Area under tribal or traditional communal forms of tenure | | 637 684 |
| Area operated on squatter basis | | 144 870 |
| Area under other forms of tenure | | 2 415 721 |
| HOLDERS BY AGE | | |
| Holders, total 1 704 721 | | |
| Under 20 years of age | | 29 882 |
| 20 to 34 years of age | | 558 217 |
| 35 to 64 years of age | | 923 239 |
| 65 years of age and over | | 193 383 |
| HOLDERS BY SEX | | |
| Holders, total 1 704 721 | | |
| Male | | 1 427 028 |
| Female | | 277 693 |
| HOLDINGS BY NUMBER OF PERSONS | | |
| Holdings with: | | |
| Up to 4 persons | | 736 875 |
| 5 to 8 persons | | 689 008 |
| 9 to 15 persons | | 251 545 |
| 16 persons and over | | 27 293 |
| FARM POPULATION | | |
| Household members, total 9 537 469 | | |
| Male | | 4 818 930 |
| Under 20 years of age | | 2 896 829 |
| 20 and up to 34 years of age | | 928 718 |
| 35 and up to 64 years of age | | 823 769 |
| 65 years of age and over | | 169 614 |
| Female | | 4 718 539 |
| Under 20 years of age | | 2 710 891 |
| 20 and up to 34 years of age | | 1 049 936 |
| 35 and up to 64 years of age | | 822 889 |
| 65 years of age and over | | 134 823 |
| CROPS, TEMPORARY | | |
| Maize | | |
| Area | | 267 484 |
| Production | | 433 235 |
| Finger millet | | |
| Area | | 240 437 |
| Production | | 342 436 |
| Sorghum | | |
| Area | | 133 608 |
| Production | | 259 274 |
| Beans, dry | | |
| Area | | 311 729 |
| Production | | 507 391 |
| Groundnuts | | |
| Area | | 142 481 |
| Production | | 162 061 |

| CROPS, TEMPORARY (cont'd) | |
|--|------------|
| Cow peas | |
| Area | 9 377 |
| Soybeans | |
| Area | 17 931 |
| Production | 25 246 |
| Irish potatoes | |
| Area | 20 049 |
| Production | 174 418 |
| Sweet potatoes | |
| Area | 169 522 |
| Production | 1 371 054 |
| Cassava | |
| Area | 183 920 |
| Production | 5 007 204 |
| Pigeon peas | |
| Area | 10 919 |
| Production | 12 481 |
| Cotton | |
| Area | 56 021 |
| Production | 43 853 |
| CROPS, PERMANENT | |
| Bananas | |
| Area | 642 166 |
| Production | 4 717 186 |
| Coffee | |
| Area | 23 638 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 341 075 |
| Animals | 3 356 609 |
| Sheep | |
| Holdings reporting | 218 506 |
| Animals | 743 603 |
| Goats | |
| Holdings reporting | 749 428 |
| Animals | 3 880 412 |
| Pigs | |
| Holdings reporting | 255 795 |
| Animals | 671 712 |
| Mules / Asses | |
| Holdings reporting | 5 393 |
| Animals | 12 443 |
| Chickens | |
| Holdings reporting | 1 147 791 |
| Animals | 11 442 120 |
| Rabbits | |
| Holdings reporting | 33 051 |
| Animals | 186 050 |
| MACHINERY / EQUIPMENT | |
| Tractors | |
| Holdings reporting use | 27 000 |
| HIGH-YIELDING CROP VARIETIES | |
| High-yielding crop varieties of maize | |
| Holdings reporting use | 126 024 |
| High-yielding crop varieties of cotton | |
| Holdings reporting use | 71 991 |

ZAMBIA - Agricultural Census 1990 - Explanatory Notes

Historical outline: Zambia, formerly called Northern Rhodesia, became independent on 24 October 1964. Northern Rhodesia participated in the 1950 World Census of Agriculture (WCA) with a census of both Traditional and Modern Sectors, and in the 1960 WCA with a census of Modern Sector only. The Republic of Zambia participated in the 1970 WCA in 1971-72; another census planned for 1982-83 did not take place due to lack of funds. In 1990-92 an agricultural census was undertaken in two phases: the first in connection with the 1990 Census of Population and Housing; the second, based on information collected during the first phase, carried out as a stand-alone activity. Data here reported refer to the first part of the 1990-92 Agricultural Census.

Organization: The Census was conducted by the Central Statistical Office under the supervision of the National Commission for Development and Planning and in collaboration with the Ministry of Agriculture, Food and Fisheries (MAFF); financial and technical assistance were given by the Government of The Netherlands and by the Food and Agriculture Organization of the United Nations. The Census was expected to give updated benchmark data for annual agricultural surveys. The structure of Census Field Organization was as follows: 15 master trainers, 9 provincial statistical officers, 26 regional census officers, 57 district census officers, 153 field coordinators, 4144 field supervisors, 12936 enumerators.

Enumeration period: Census enumeration started on 20 August 1990 and took two to three weeks.

Reference date: Two reference periods were used: enumeration day was used for inventory items like identification particulars, economic activity, type of holding, demographic characteristics and livestock number. For continuing activities, e.g. crop production and livestock raising, the reference period was the 1989-90 agricultural season beginning 1 October 1989 and ending 30 September 1990.

Coverage: National coverage was achieved in two ways: first, data were collected from every district in the country; second, data were collected from urban as well as suburban areas (which are traditionally excluded from national agricultural sample surveys).

Frame: The existing Census Supervisory Area (CSA) maps, used for the preparatory work of 1980 Census, were updated. Small census units, to be covered by one enumerator, called Standard Enumeration Areas (SEAs), including about 600 people in rural areas and 900 in urban areas were delineated, and their physical boundaries carefully defined.

Methods: The first part of the Census of Agriculture was carried out at the same time as the Population and Housing Census on a complete enumeration basis; an agricultural questionnaire, for those households where one or more members indicated their participation in agricultural activities, was completed. This questionnaire was very brief to allow Census Part I be processed expeditiously so that Part II could be started as soon as possible. Part II, carried out on a sampling basis, was very extensive in order to collect detailed information on the structure and organization of agricultural sector. A Pilot Census and a post-enumeration survey were conducted in connection with the Agricultural Census.

Data source: National Census of Agriculture 1990-92 - Census Report (Part I) - January 1994.

Mailing address: Central Statistical Office - P.O. Box 31908 - Lusaka - Republic of Zambia.

ZAMBIA - Agricultural Census 1990 - Primary Results

Area: in hectares

| NUMBER OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | |
|---|-----------|
| Size classes | Number |
| All holdings | 520 520 |
| Under 5 Ha | 479 717 |
| 5 - 20 Ha | 38 751 |
| 20 Ha and over | 2 052 |
| LEGAL STATUS | |
| Holdings operated by: | |
| Individuals or households | 520 032 |
| Corporation | 69 |
| Government | 419 |
| HOLDERS BY AGE | |
| Holdings, total | 520 520 |
| Under 25 years of age | 32 717 |
| 25 to 34 years of age | 123 102 |
| 35 to 44 years of age | 95 237 |
| 45 to 54 years of age | 104 952 |
| 55 to 64 years of age | 90 967 |
| 65 years of age and over | 71 622 |
| Of age not stated | 1 923 |
| HOLDERS BY SEX | |
| Holdings, total | 520 520 |
| Male | 442 561 |
| Female | 77 959 |
| HOLDINGS BY NUMBER OF PERSONS | |
| Holdings with: | |
| 1 person | 14 502 |
| 2 to 3 persons | 94 901 |
| 4 to 5 persons | 120 785 |
| 6 to 9 persons | 183 028 |
| 10 persons and over | 107 304 |
| EMPLOYMENT | |
| Household members economically active | |
| Total | 1 115 112 |
| Male | 613 569 |
| Female | 501 543 |
| CROPS, TEMPORARY | |
| Wheat | |
| Holdings reporting | 1 791 |
| Area | 15 577 |
| Rice | |
| Holdings reporting | 21 309 |
| Area | 15 383 |
| Maize | |
| Holdings reporting | 379 784 |
| Area | 630 606 |

| CROPS, TEMPORARY (cont'd) | |
|---------------------------|------------|
| Sorghum | |
| Holdings reporting | 50 000 |
| Area | 43 444 |
| Millet | |
| Holdings reporting | 107 742 |
| Area | 69 462 |
| Cassava | |
| Holdings reporting | 168 414 |
| Area | 179 193 |
| Groundnuts | |
| Holdings reporting | 164 168 |
| Area | 97 981 |
| Sunflower for seed | |
| Holdings reporting | 34 247 |
| Area | 36 849 |
| Seed cotton | |
| Holdings reporting | 31 425 |
| Area | 41 893 |
| Soybeans | |
| Holdings reporting | 26 232 |
| Area | 28 061 |
| Beans, dry edible | |
| Holdings reporting | 64 848 |
| Area | 32 911 |
| Tobacco | |
| Area | 26 200 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 136 668 |
| Animals | 5 181 014 |
| Sheep | |
| Holdings reporting | 11 380 |
| Animals | 83 108 |
| Goats | |
| Holdings reporting | 113 758 |
| Animals | 1 013 159 |
| Pigs | |
| Holdings reporting | 88 511 |
| Animals | 507 140 |
| Chickens | |
| Holdings reporting | 428 991 |
| Animals | 12 680 150 |

BAHAMAS - Agricultural Census 1994 - Explanatory Notes

Historical outline: The Commonwealth of Bahamas first participated in the World Census of Agriculture Programme with the 1977-78 Agricultural Census. Data presented here are from the second Census of Agriculture in Bahamas, which was conducted in 1994.

Organization: The 1994 Census of Agriculture was conducted by the Department of Agriculture of the Ministry of Agriculture and Fisheries, in co-operation with the Department of Statistics. Technical assistance was provided by the Food and Agriculture Organization of the UN, and by the US Bureau of the Census.

Enumeration period: Data were collected during the period 1 February to 31 March 1994.

Reference date:

- The agricultural year 1 February 1993 to 31 January 1994 was the reference period for:
 - Use of Fertilizers / Pesticides;
 - Crop area and production;
 - Occupation of holder;
 - Number of hired permanent workers and use of hired occasional workers;
 - Type of holding;
 - Land Tenure;
 - Use of machinery;
 - Irrigation facilities;
 - Livestock production.
- The week of interview was the reference period for:
 - General information on holder;
 - Land utilization and total area of holding;
 - Demographic characteristics of holders' household members;
 - Livestock number and type.

Definition: The selected unit of enumeration was the agricultural holding, defined as an economic unit of agricultural production of crops, livestock or poultry under one management irrespective of size or tenure. For the purpose of the census a holding must satisfy one or more of the following criteria:

- At least 1/4 acre (1 acre = 0.40469 Ha) of any crop;
- At least 2 head of cattle, or 5 head of goats or sheep, or 3 sows or 3 mature pigs (of which 2 sows), or 50 poultry;
- At least 20 fruit trees of productive age.

Coverage: The census covered the entire country.

Frame: The census universe was divided into Census Districts (CDs), with carefully defined boundaries; each CD was, in turn, subdivided into a certain number of Enumeration Areas.

Methods: Complete enumeration of holdings was carried out. All holdings were visited by the enumerators who collected information through direct interview.

Data source: Ministry of Agriculture and Fisheries, Department of Agriculture / Department of Statistics - Second Census of Agriculture 1994, Final Results - Nassau, Bahamas.

Mailing address:

- Ministry of Agriculture and Fisheries - P.O. Box 3028, Nassau, Bahamas - Tel. 325-7502/9; Fax 325-3960.
- Department of Statistics - Thompson Blvd. - P.O. Box 3904 Clarence A. Bain Bldg., Nassau, Bahamas.

BAHAMAS - Agricultural Census 1994 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | | FARM POPULATION (cont'd) | |
|--|--------|--------|--|--------|
| Size classes | Number | Area | Female | 3 429 |
| All holdings | 1 760 | 20 336 | Under 15 years of age | 864 |
| Holdings without land | 27 | 0 | 15 and up to 24 years of age | 616 |
| Under 0.4 Ha | 144 | 29 | 25 and up to 34 years of age | 404 |
| 0.4 - 1.2 Ha | 597 | 400 | 35 and up to 44 years of age | 263 |
| 1.2 - 2.0 Ha | 309 | 445 | 45 and up to 54 years of age | 387 |
| 2.0 - 4.0 Ha | 299 | 781 | 55 and up to 64 years of age | 421 |
| 4.0 - 8.1 Ha | 170 | 860 | 65 years of age and over | 474 |
| 8.1 - 20.2 Ha | 109 | 1 237 | EMPLOYMENT | |
| 20.2 - 40.5 Ha | 40 | 1 043 | Household members engaged mainly: in agricultural work on the holding | |
| 40.5 - 80.9 Ha | 25 | 1 366 | Total | 511 |
| 80.9 Ha and over | 40 | 14 175 | Male | 186 |
| | | | Female | 325 |
| FRAGMENTATION OF HOLDINGS | | | Household members engaged mainly: in work off the holding | |
| Holdings with: | | | Total | 1 556 |
| 1 parcel | | 925 | Male | 720 |
| 2 to 3 parcels | | 706 | Female | 836 |
| 4 to 6 parcels | | 84 | Household members not economically active | |
| 7 parcels and over | | 18 | Total | 3 139 |
| TENURE (of main parcel) | | | Male | 1 406 |
| Holdings owned or in ownerlike possession | | | Female | 1 733 |
| Holdings | | 452 | Hired permanent workers | |
| Area | | 5 820 | Holdings reporting | 427 |
| Holdings rented from others | | | Hired occasional workers | |
| Holdings | | 354 | Holdings reporting | 518 |
| Area | | 8 455 | Workers | 2 034 |
| Holdings operated on squatter basis | | | LAND USE (area) | |
| Holdings | | 196 | Agricultural Land | 13 986 |
| Area | | 1 824 | Cropland | 11 757 |
| Holdings operated under tribal or traditional, communal forms of tenure | | | Arable land | 7 838 |
| Holdings | | 699 | Land under temporary crops | 1 393 |
| Area | | 3 974 | All other arable land | 6 445 |
| Holdings under other forms of tenure | | | Land under permanent crops | 3 919 |
| Holdings | | 59 | Land under perm. meadows/pastures | 2 229 |
| Area | | 262 | Wood or forest land | 5 748 |
| LEGAL STATUS | | | All other land | 601 |
| Holdings operated by: | | | IRRIGATION | |
| An individual or a household | | | Normally irrigated land | |
| Holdings | | 1 618 | Holdings reporting | 163 |
| Area | | 11 293 | Area | 583 |
| Two or more individuals / households | | | CROPS, TEMPORARY (holdings reporting) | |
| Holdings | | 109 | Maize | 574 |
| Area | | 1 348 | Beans, edible dry | 269 |
| Corporation | | | Cabbages | 350 |
| Holdings | | 27 | Cassava (manioc) | 230 |
| Area | | 7 564 | Water melons | 163 |
| Cooperative | | | Onions | 319 |
| Holdings | | 2 | Sweet potatoes | 377 |
| Area | | 8 | Sugar cane | 68 |
| Other | | | Pepper, sweet | 241 |
| Holdings | | 4 | Tomatoes | 503 |
| Area | | 122 | CROPS, PERMANENT (holdings reporting) | |
| HOLDERS BY SEX | | | Star apples | 31 |
| Holdings, total | | 1 727 | Avocados | 157 |
| Male | | 1 192 | Bananas | 483 |
| Female | | 535 | Plantains | 59 |
| HOLDERS BY TYPE OF ACTIVITY | | | Coconut | 53 |
| Holdings engaged mainly: | | | Grapefruit | 239 |
| In agricultural work on the holding | | | Tangerines | 122 |
| Total | | 951 | LIVESTOCK (holdings reporting) | |
| Male | | 610 | Cattle | 34 |
| Female | | 341 | Sheep | 227 |
| In work off the holding | | 776 | Goats | 271 |
| FARM POPULATION | | | Pigs | 122 |
| Household members, total | | 6 933 | MACHINERY / EQUIPMENT | |
| Male | | 3 504 | Holdings reporting use of: | |
| Under 15 years of age | | 912 | 4-Wheel tractors | 188 |
| 15 and up to 24 years of age | | 727 | Track-laying tractors | 282 |
| 25 and up to 34 years of age | | 419 | | |
| 35 and up to 44 years of age | | 240 | | |
| 45 and up to 54 years of age | | 276 | | |
| 55 and up to 64 years of age | | 375 | | |
| 65 years of age and over | | 555 | | |

BARBADOS - Agricultural Census 1989 - Explanatory Notes

Historical outline: Two censuses of agriculture were carried out in Barbados, in 1950 and in 1961. In 1969, a new Statistical Programme was drawn up for Barbados, calling for an agricultural census in years ending in the number 1. The 1971 Agricultural Census was the first conducted under the new programme, and resource constraints precluded taking a census in 1981. The last census of agriculture in Barbados, to which these data relate, was carried out in 1989.

Organization: The census was conducted following the guidelines of the 1990 World Census of Agriculture Programme, coordinated by the Food and Agriculture Organization of the UN. Technical assistance was provided, in the initial stages of planning, by the Inter-American Institute for Cooperation in Agriculture (IICA). The Ministry of Agriculture, Food and Fisheries had major responsibility for the execution of the census. A Census Office, with supporting staff, was established as a subunit of the Agricultural Planning Unit of the Ministry of Agriculture, Food and Fisheries. The Director of the Statistical Service Department was appointed as Census Officer. The Statistical Service Department, and the Data Processing Department, were fully involved in census operations. The Government Printing Department provided support by printing Visitation Record Forms, Questionnaires and Instruction Manuals.

Enumeration period: The census was carried out in 1989.

Reference date: Data on livestock, machinery and other inventory items refer to the enumeration day; data on employment and crop production refer to the agricultural year 1988-89.

Definition: The agricultural holding is considered to be an economic unit of agricultural production associated, during the twelve months preceding the census day, with any one of the following minimum specifications:

- one head of cattle;
- two head of pigs, sheep, goats (or one head of any two);
- at least twelve head of poultry of any type;
- at least ten crop trees of productive age;
- at least 0.05 Ha of land under sugar cane, cotton, vegetables, food or cash crops, tree crops, or fodder grasses;
- at least 0.05 Ha (or 100 potted) of ornamental plants and/or flowers produced mainly for sale;
- an agricultural production of a minimum value of US \$1000 in the past 12 months;
- ten rabbits;
- one beehive;
- a plant or grass nursery.

Coverage: The census covered the entire country.

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

Data source: Barbados - 1989 Agricultural Census - July 1992.

Mailing address: Ministry of Agriculture, Food and Fisheries - P.O. Box 505, Bridgetown, Barbados
- Tel. 00854 4284150/4284061; Fax 00854 4208444.

BARBADOS - Agricultural Census 1989 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|--------|--------|
| Size classes | Number | Area |
| All holdings | 17 178 | 21 560 |
| Holdings without land | 4 161 | 19 |
| Under 0.1 Ha | 4 696 | 214 |
| 0.1 - 0.2 Ha | 3 009 | 320 |
| 0.2 - 0.5 Ha | 3 574 | 991 |
| 0.5 - 1 Ha | 875 | 602 |
| 1 - 2 Ha | 485 | 660 |
| 2 - 3 Ha | 119 | 275 |
| 3 - 4 Ha | 32 | 108 |
| 4 - 5 Ha | 39 | 169 |
| 5 - 10 Ha | 44 | 294 |
| 10 - 20 Ha | 27 | 366 |
| 20 - 50 Ha | 23 | 669 |
| 50 - 100 Ha | 26 | 1 938 |
| 100 - 200 Ha | 33 | 4 680 |
| 200 - 500 Ha | 34 | 9 605 |
| 500 Ha and over | 1 | 650 |
| FRAGMENTATION OF HOLDINGS | | |
| Total holdings reporting fragmentation | | 17 159 |
| Holdings with: | | |
| 1 parcel | | 16 221 |
| 2 to 3 parcels | | 879 |
| 4 to 5 parcels | | 52 |
| 6 parcels and over | | 7 |
| TENURE (area) | | |
| Total area reported by tenure | | 19 861 |
| Area owned or in ownerlike possession | | 15 119 |
| Area rented from others | | 1 498 |
| For a fixed amount of money and/or produce | | 953 |
| For a share of produce | | 46 |
| Under other rental arrangements | | 499 |
| Area under other forms of tenure | | 3 244 |
| LEGAL STATUS | | |
| Holdings operated by: | | |
| An individual or a household | | |
| Holdings reporting | | 16 945 |
| Area | | 5 769 |
| Two or more individuals or households | | |
| Holdings | | 109 |
| Area | | 635 |
| Corporation | | |
| Holdings | | 103 |
| Area | | 14 849 |
| Cooperative | | |
| Holdings | | 2 |
| Area | | 1 |
| Government | | |
| Holdings | | 9 |
| Area | | 304 |
| Other | | |
| Holdings | | 10 |
| Area | | 2 |
| HOLDERS BY AGE | | |
| Holdings reporting: | | 16 584 |
| Under 25 years of age | | 238 |
| 25 to 34 years of age | | 1 863 |
| 35 to 44 years of age | | 3 250 |
| 45 to 54 years of age | | 3 018 |
| 55 to 64 years of age | | 3 065 |
| 65 years of age and over | | 5 150 |
| FARM POPULATION | | |
| Household members, total | | 65 766 |
| Male | | 32 398 |
| Female | | 33 368 |
| EMPLOYMENT | | |
| Holdings reporting: | | 16 834 |
| Holdings engaged in agricultural work on the holding | | 2 877 |

| EMPLOYMENT (cont'd) | |
|--|-----------|
| in work off the holding | 13 957 |
| Paid workers | |
| Permanent | 7 672 |
| Occasional | 7 827 |
| IRRIGATION | |
| Irrigated land | |
| Holdings reporting | 2 653 |
| Area | 5 435 |
| LAND USE (area) | |
| Agricultural land | 18 906 |
| Cropland | 16 978 |
| Arable land | 16 453 |
| Land under temporary crops | 12 144 |
| Land under temporary meadows/pastures | 399 |
| Land temporarily fallow | 2 404 |
| Other arable land | 1 506 |
| Land under permanent crops | 525 |
| Land under perm.meadows/pastures | 1 928 |
| Cultivated | 374 |
| Natural growth | 1 554 |
| Wood or forest land | 138 |
| All other land | 2 516 |
| Potentially productive | 67 |
| Other | 2 449 |
| CROPS, TEMPORARY (area) | |
| Sugar cane | 10 319 |
| Cotton | 332 |
| Sweet potatoes | 326 |
| Yams | 260 |
| Cassava | 155 |
| Carrots | 140 |
| Beans, dry edible | 129 |
| Cucumbers | 122 |
| Maize | 96 |
| Cabbages | 91 |
| Onions | 68 |
| Pumpkins | 52 |
| Beets | 46 |
| Okra | 38 |
| CROPS, PERMANENT (number of trees of productive age) | |
| Apples | 1 775 |
| Avocados | 6 049 |
| Bananas | 81 626 |
| Breadfruit | 1 713 |
| Cherries | 2 101 |
| Coconut | 5 450 |
| Grapefruit | 707 |
| Guavas | 762 |
| Limes | 2 210 |
| Mangoes | 43 |
| Oranges | 767 |
| Plantains | 2 129 |
| Papaws | 450 |
| LIVESTOCK (head) | |
| Cattle | 12 587 |
| Sheep | 39 128 |
| Goats | 4 381 |
| Pigs | 28 897 |
| Chickens | 3 642 506 |
| Turkeys | 59 426 |
| Ducks | 7 361 |
| Rabbits | 9 503 |
| MACHINERY / EQUIPMENT (units) | |
| Wheel tractors | 428 |
| Track-laying tractors | 68 |
| Electric pumps | 24 |
| Electric generators | 13 |
| Ploughs | 205 |
| Sprayers | 2 701 |

CANADA - Agricultural Census 1991 - Explanatory Notes

Historical outline: From 1871 to 1951 the census of agriculture in Canada was undertaken every ten years; then, by 1956, to better monitor the country's rapid economic growth, a census of population and a census of agriculture have been simultaneously undertaken at five-year intervals. Canada participated in all decennial World Censuses of Agriculture promoted by FAO, beginning the one carried out in 1931, up to the most recent, undertaken in 1991, to which data presented here refer.

Organization: Periodic censuses of agriculture and population are undertaken by the national statistics agency called Statistics Canada: it collects directly a large amount of data, at the same time making use of all other existing sources of relevant administrative statistics outside its own organization. Statistics Canada is made up of several Divisions, of which the Agriculture Division deals exclusively with the collection and publication of agricultural statistics. Statistics Canada consists of its Headquarters Offices in the Federal Capital of Ottawa, plus eight Regional Offices.

Enumeration period: The 1991 Census of Agriculture was conducted on 4 June 1991.

Reference date: 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.

Definitions: Census Farm is defined as a farm or ranch or other agricultural holding, which produces at least one of the following products intended for sale: crops, livestock, poultry, animal products, greenhouse or nursery products, mushrooms, sod, honey, or maple syrup products. Census Farms are also commonly referred to as Farm Operations or Agricultural Holdings.

Coverage: The census covered the entire country except some Indian Reserves and Settlements in Yukon and in the North-West Territories, which in 1991 were incompletely enumerated because enumeration was not permitted or interrupted before its completion; however, the impact of missing data at country level is considered very small.

Frame: The frame used was based on the Administrative Subdivisions, i.e.:

- Provinces/Territories, which are the major subdivisions of Canada;
- Census Agricultural Regions, which are sub-provincial geographic areas consisting of groups of Census Divisions;
- Census Divisions, corresponding to counties, districts, municipalities, etc.;
- Census Consolidated Subdivisions (CCS), which are a grouping of towns, townships, cities, parishes, within a Census Division, with a combined land area greater than 25 square kilometres;
- Census subdivisions with a population greater than 100,000 persons are also considered to be a CCS.

Methods: 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; the respondents were asked to complete and return them by mail, using the pre-addressed envelopes provided for that purpose. After being reviewed by the census representatives, the questionnaires were sent to regional processing sites for initial processing, and then forwarded to Statistics Canada Head Office in Ottawa.

Data source: Statistics Canada - Agricultural Profile of Canada, Part 1 - 1991 Census - Catalogue 93-350.

Mailing address: User Services - Census of Agriculture - Agriculture Division - Statistics Canada, Ottawa, K1A 0T6; Tel. 951-8711, or:
Publication Sales, Statistics Canada, Ottawa K1A 0T6; Tel. 1(613)951-7277; Fax 1(613)951- 1584.

CANADA - Agricultural Census 1991 - Primary Results

Area: in hectares

| NUMBER OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | |
|---|------------|
| Size classes | Number |
| All holdings | 280 043 |
| Under 1.2 Ha | 3 961 |
| 1.2 - 4 Ha | 9 710 |
| 4 - 28.3 Ha | 35 216 |
| 28.3 - 52.6 Ha | 32 682 |
| 52.6 - 72.8 Ha | 33 401 |
| 72.8 - 97.1 Ha | 17 161 |
| 97.1 - 161.9 Ha | 39 100 |
| 161.9 - 226.6 Ha | 23 144 |
| 226.6 - 307.6 Ha | 19 983 |
| 307.6 - 453.3 Ha | 24 406 |
| 453.3 - 647.5 Ha | 18 396 |
| 647.5 Ha and over | 22 883 |
| AREA OF HOLDINGS | |
| Total area | 67 753 700 |
| TENURE (area) | |
| Area owned or in ownerlike possession | 42 961 352 |
| Area rented from others | 24 792 348 |
| LEGAL STATUS | |
| Holdings operated by: | |
| Individuals or households | 255 719 |
| Other | 24 324 |
| LAND USE | |
| Land under crops | |
| Holdings | 248 147 |
| Area | 33 507 780 |
| Land temporarily fallow | |
| Holdings | 80 834 |
| Area | 7 920 948 |
| Land under temporary meadows | |
| Holdings | 89 980 |
| Area | 4 141 221 |
| All other land | |
| Holdings | 248 855 |
| Area | 22 183 752 |
| CROPS, TEMPORARY | |
| Wheat | |
| Holdings reporting | 105 805 |
| Area | 14 163 143 |
| Maize | |
| Holdings reporting | 27 819 |
| Area | 2 732 235 |
| Barley | |
| Holdings reporting | 82 677 |
| Area | 11 180 156 |
| Oats | |
| Holdings reporting | 54 969 |
| Area | 1 233 107 |
| Rye | |
| Holdings reporting | 7 878 |
| Area | 257 985 |
| Buckwheat | |
| Holdings reporting | 58 430 |
| Area | 23 646 |
| Rapeseed | |
| Holdings reporting | 39 437 |
| Area | 3 141 325 |
| Linseed | |
| Holdings reporting | 9 883 |
| Area | 500 235 |
| Soybeans | |
| Holdings reporting | 16 098 |
| Area | 558 454 |

| CROPS, TEMPORARY (cont'd) | |
|--------------------------------|------------|
| Sunflower for seed | |
| Holdings reporting | 1 279 |
| Area | 83 385 |
| Potatoes | |
| Holdings reporting | 4 692 |
| Area | 122 391 |
| Tobacco | |
| Holdings reporting | 1 564 |
| Area | 30 000 |
| Mustard seed | |
| Holdings reporting | 1 885 |
| Area | 113 018 |
| Sugar beets | |
| Holdings reporting | 650 |
| Area | 24 906 |
| Beans, dry edible | |
| Holdings reporting | 3 544 |
| Area | 95 302 |
| Peas, dry edible | |
| Holdings reporting | 4 271 |
| Area | 200 582 |
| LIVESTOCK | |
| Cattle, total | |
| Holdings reporting | 145 747 |
| Animals | 12 972 038 |
| Cattle under 1 year of age | |
| Holdings reporting | 127 865 |
| Animals | 4 089 641 |
| Cattle 1 year of age and over | |
| Animals, total | 8 882 397 |
| Male | 1 599 185 |
| Female | 7 283 212 |
| Sheep | |
| Holdings reporting | 13 144 |
| Animals | 935 891 |
| Pigs | |
| Holdings reporting | 29 592 |
| Animals | 10 216 083 |
| Horses | |
| Holdings reporting | 58 509 |
| Animals | 356 204 |
| Chickens | |
| Holdings reporting | 42 661 |
| Animals | 94 872 875 |
| Turkeys | |
| Holdings reporting | 8 462 |
| Animals | 8 076 808 |
| MACHINERY / EQUIPMENT | |
| Tractors | |
| Holdings reporting | 253 802 |
| Units | 734 149 |
| Harvester-threshers (combines) | |
| Holdings reporting | 126 270 |
| Units | 152 114 |
| FERTILIZERS / PESTICIDES | |
| Chemical fertilizers | |
| Holdings reporting use | 165 670 |
| Pesticides | |
| Holdings reporting use | 40 440 |
| Herbicides | |
| Holdings reporting use | 138 367 |

DOMINICA - Agricultural Census 1995 - Explanatory Notes

Historical outline: A complete agricultural census was conducted in 1960/61. Attempts to update this information were made in 1976/77, but the results were considered inadequate. Data presented here are from the last complete census conducted in 1995.

Organization: The 1995 Dominica Agricultural Census (DAC) was carried out under the overall responsibility of the Ministry of Agriculture (MOA), in close cooperation with the Central Statistical Office (CSO) of the Ministry of Finance. Within MOA, the "ad hoc" Agricultural Census Office, organized for this purpose, had the major operational responsibility for the 1995 DAC. The census was financed by the United States Agency for International Development (USAID) and by the Government of Dominica. Technical assistance was provided by the Food and Agriculture Organization of the UN.

Enumeration period: Data collection started on 20 March 1995 and finished, in most of Dominica, the last week of May 1995.

Reference date:

- The enumeration day, for holding and holder characteristics, legal status, land use, permanent crops;
- The agricultural year 1 April 1994 to 31 March 1995, for temporary crops, machinery and equipment, use of fertilizers;
- The six months preceding the census day, for employment;
- The week (Monday to Friday) prior to the enumeration day, for farmer's household population.

Definition: The farm (agricultural holding) was defined as an economic unit of agricultural production under single management, comprising all the livestock kept and all land used wholly or partly for agricultural production purposes, without regard to title, legal form or size. Any piece of land to be considered as an agricultural farm should report at least 0.01 acres (40 square meters) with at least one of the following:

- Temporary and permanent crops and forages;
- Fallow one year or less;
- Fallow more than one year, but less than three;
- Improved and unimproved pastures;
- At least one head of cattle or goat, pig, horse, sheep, donkey, rabbit or poultry.

Coverage: All farms (reporting units) existing in the rural area of Dominica on the census day, excluding the urban areas of Roseau and Portsmouth, were covered in the census.

Frame: The Agricultural Census Frame consisted of the complete list of the 171 Enumeration Districts (EDs) used for the 1991 Population Census located in the rural area of Dominica without considering the 56 EDs of urban areas of Roseau (48 EDs) and Portsmouth (8 EDs).

Methods: A combination of complete enumeration with sample census was used. Firstly, complete listing of all farms existing in Dominica was carried out, including landless holdings; then, detailed information was collected by enumerators from all farms having 5 acres and over of total land through direct interview; at the same time, a special exercise to enumerate the "important and specialized farms" defined as farms with 50 acres or more recorded at the lands registry, was also carried out. To the farms 0.01 and under 5 acres of total land, a 20 % sample survey was applied, based on the stratified systematic sample.

Data source: Commonwealth of Dominica - Ministry of Agriculture and Central Statistical Office - 1995 Dominica Agricultural Census, Final Results - Roseau, Dominica, November 1995.

Mailing address:

- Ministry of Agriculture and the Environment - Roseau, Dominica -Tel. 00854 448 2401; Fax 00854 448 7999.
- Central Statistical Office - Ministry of Finance - Kennedy Avenue - Roseau, Dominica.

DOMINICA - Agricultural Census 1995 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS | | |
|---|--------|--------|
| BY SIZE OF TOTAL AREA OF HOLDING | | |
| Size classes | Number | Area |
| All holdings | 9 026 | 21 146 |
| Holdings without land | 592 | 0 |
| Under 0.4 Ha | 1 635 | 263 |
| 0.4 - 2 Ha | 4 495 | 4 716 |
| 2 - 4 Ha | 1 412 | 3 679 |
| 4 - 10.1 Ha | 689 | 3 923 |
| 10.1 - 20.2 Ha | 86 | 1 156 |
| 20.2 - 40.5 Ha | 54 | 1 486 |
| 40.5 - 80.9 Ha | 36 | 1 888 |
| 80.9 - 202.3 Ha | 22 | 2 764 |
| 202.3 Ha and over | 5 | 1 271 |
| TENURE (area) | | |
| Area owned or in ownerlike possession | | 16 085 |
| Area rented from others | | 1 160 |
| Area operated on squatter basis | | 370 |
| Area operated under tribal or traditional, communal forms of tenure | | 1 179 |
| Area operated under other forms of tenure | | 2 352 |
| LEGAL STATUS (1) | | |
| Holdings operated by: | | |
| An individual or a household | | 8 365 |
| Two or more individuals / households | | 9 |
| Corporation | | 17 |
| Cooperative | | 2 |
| Government | | 9 |
| Other | | 32 |
| HOLDERS BY AGE (1) | | |
| Holders, total | | 8 434 |
| Under 25 years of age | | 345 |
| 25 to 34 years of age | | 1 562 |
| 35 to 44 years of age | | 1 886 |
| 45 to 54 years of age | | 1 595 |
| 55 to 64 years of age | | 1 351 |
| 65 years of age and over | | 1 299 |
| Of age not stated | | 396 |
| HOLDERS BY SEX (1) | | |
| Holders, total | | 8 434 |
| Male | | 6 777 |
| Female | | 1 608 |
| Not stated | | 49 |
| FARM POPULATION BY AGE | | |
| Household members, total | | 26 458 |
| Under 15 years of age | | 7 469 |
| 15 and up to 24 years of age | | 4 133 |
| 25 and up to 34 years of age | | 3 676 |
| 35 and up to 44 years of age | | 2 951 |
| 45 and up to 54 years of age | | 2 392 |
| 55 and up to 64 years of age | | 1 799 |
| 65 years of age and over | | 1 937 |
| Of age not stated | | 2 101 |
| FARM POPULATION BY SEX | | |
| Household members, total | | 26 458 |
| Male | | 13 980 |
| Female | | 11 882 |
| Not stated | | 596 |
| EMPLOYMENT | | |
| Unpaid household members engaged in agricultural work on the holding: | | |
| Total | | 5 888 |
| Male | | 3 278 |
| Female | | 2 563 |
| Not stated | | 47 |
| Hired workers | | |
| Total | | 8 061 |
| Male | | 6 986 |
| Female | | 1 001 |
| Not stated | | 74 |

| LAND USE (area) | |
|---|--------|
| Agricultural land | 14 763 |
| Cropland | 13 048 |
| Arable land | 1 172 |
| Land under temporary crops | 924 |
| Land temporarily fallow | 248 |
| Land under permanent crops | 11 876 |
| Land under perm. meadows/pastures | 1 715 |
| Wood or forest land | 5 991 |
| All other land | 392 |
| CROPS, TEMPORARY (holdings reporting) | |
| Dasheen | 1 637 |
| Yams | 1 218 |
| Tannia | 576 |
| Sweet potatoes | 172 |
| Potatoes | 169 |
| Cabbage | 153 |
| Cassava | 133 |
| Hot pepper | 71 |
| Ginger | 50 |
| CROPS, PERMANENT (holdings reporting) | |
| Bananas | 1 224 |
| Coconut | 691 |
| Plantains | 663 |
| Grapefruit | 240 |
| Oranges | 232 |
| Cocoa | 221 |
| Mangoes | 176 |
| Coffee | 86 |
| Anthurium | 84 |
| Sour limes | 75 |
| Passion fruit | 56 |
| Avocados | 49 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 1 017 |
| Animals | 3 305 |
| Sheep | |
| Holdings reporting | 939 |
| Animals | 3 323 |
| Goats | |
| Holdings reporting | 1 968 |
| Animals | 10 918 |
| Pigs | |
| Holdings reporting | 1 117 |
| Animals | 3 858 |
| Rabbits | |
| Holdings reporting | 423 |
| Animals | 2 308 |
| Poultry | |
| Holdings reporting | 2 212 |
| Animals | 66 522 |
| MACHINERY / EQUIPMENT (owned by the holder) | |
| Sprayers | |
| Holdings reporting | 3 705 |
| Pumps | |
| Holdings reporting | 24 |
| Motor vehicles | |
| Holdings reporting | 628 |
| FERTILIZERS / PESTICIDES | |
| Holdings reporting use of: | |
| Chemical fertilizers | 6 655 |
| Organic fertilizers | 2 211 |
| Pesticides | 6 175 |

(1) Excluding 592 holdings without land.

GRENADA - Agricultural Census 1995 - Explanatory Notes

Historical outline: Five main agricultural censuses took place in Grenada over the last 50 years. The 1946 and 1961 censuses were conducted as a part of the West Indies Censuses of Agriculture, while the 1975, 1981 and 1995 were conducted as the Grenada Agricultural Censuses (GAC).

Organization: The 1995 GAC was conducted under the overall responsibility of the Planning Unit of the Ministry of Agriculture (MOA), in close coordination with the Central Statistics Office of the Ministry of Finance and in cooperation with other units of MOA and agricultural organizations. The field work was carried out by 20 field teams, each one consisting of 5 enumerators and headed by a supervisor; 5 field coordinators controlled the field staff. Technical and financial assistance was provided by the Food and Agriculture Organization of the UN (FAO), and by the US Agency for International Development (USAID) through the Organization of Eastern Caribbean States (OECS).

Enumeration period: Data collection started on 16 October 1995 and was completed, in most of Grenada, the first week of December 1995.

Reference date:

- The day of enumeration for holding and holder identification, legal status, sex, age, education, total land, land use, land tenure, fragmentation, livestock by sex and type, and machinery on the holding.
- The six months preceding the census day for main occupation of the holder.
- The week preceding the census day for holder's household characteristics and for employment.
- The census year 1 January to 31 December 1995 for temporary crops and use of fertilizers.

Definition: The reporting unit for the 1995 GAC is the Farm (agricultural holding), 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, legal form or size. Agricultural holding was considered any piece of land reporting at least one of the following land uses:

- Temporary crops, permanent crops and forages;
- Fallow one year or less;
- Improved or unimproved pastures.

Or, if no land, reporting at least one head of cattle, goat, pig, horse, sheep, donkey, rabbit or any poultry.

Coverage: All farms meeting the above definition, existing in Grenada on the census day, excluding the urban area of St. George's, were enumerated.

Frame: The complete list (form GAC-03) of all Enumeration Districts (EDs) was prepared for the 1995 GAC by the Land Use Division of MOA, using information obtained from the 1991 Population Census and using the digitalization of the cartography prepared for the Geographical Information System.

Methods: Complete enumeration of all holdings was carried out. Information was collected through a listing exercise using Listing Form (GAC-01) on a small number of key variables from all farms existing in Grenada. A second questionnaire, called Long Farm Questionnaire (GAC-02), was filled in for all farms having at least 1/8 acre (0.05 Ha) of temporary crops, or 12 permanent trees/plants, or one cattle or 2 sheep or 2 goats or 2 pigs or 12 poultry or 12 rabbits. A list (form GAC 0-4) of 132 Important and Specialized Farms was also prepared.

Data source: Ministry of Agriculture - Planning Unit - Final Report on 1995 Grenada Agricultural Census - St. George's, Grenada - August 1996.

Mailing address: Ministry of Agriculture, Forestry, Lands and Fisheries - Mt Wheldale, St. George's, Grenada - Tel. 00854 2708 / 3078 / 2722; Fax 00854 4404191.

GRENADA - Agricultural Census 1995 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|--|--------|--------|
| Size classes | Number | Area |
| All holdings | 18 277 | 14 164 |
| Holdings without land | 5 829 | 0 |
| Under 0.4 Ha | 6 828 | 971 |
| 0.4 - 2.0 Ha | 4 249 | 3 562 |
| 2.0 - 4.0 Ha | 849 | 2 266 |
| 4.0 - 10.1 Ha | 374 | 2 145 |
| 10.1 - 20.2 Ha | 73 | 971 |
| 20.2 - 40.5 Ha | 43 | 1 133 |
| 40.5 Ha and over | 32 | 3 116 |
| TENURE (area) | | |
| Holdings owned or in ownerlike possession | | 12 344 |
| Holdings rented from others | | 1 659 |
| Holdings operated on squatter basis | | 40 |
| Holdings under other forms of tenure | | 121 |
| LEGAL STATUS (1) | | |
| Holdings operated by: | | |
| An individual or a household | | 11 607 |
| Two or more individuals / households | | 157 |
| Corporation | | 12 |
| Cooperative | | 5 |
| Government | | 31 |
| Other | | 59 |
| HOLDERS BY AGE (1) | | |
| Holdings, total | | 11 807 |
| Under 20 years of age | | 236 |
| 20 to 29 years of age | | 1 063 |
| 30 to 39 years of age | | 2 480 |
| 40 to 49 years of age | | 2 125 |
| 50 to 59 years of age | | 1 889 |
| 60 to 69 years of age | | 2 243 |
| 70 years of age and over | | 1 771 |
| HOLDERS BY SEX (1) | | |
| Holdings, total | | 11 807 |
| Male | | 7 818 |
| Female | | 3 989 |
| FARM POPULATION BY AGE | | |
| Household members, total | | 43 400 |
| Under 15 years of age | | 17 360 |
| 15 and up to 19 years of age | | 3 906 |
| 20 and up to 29 years of age | | 5 642 |
| 30 and up to 39 years of age | | 5 208 |
| 40 and up to 49 years of age | | 3 472 |
| 50 and up to 59 years of age | | 2 604 |
| 60 and up to 69 years of age | | 3 038 |
| 70 years of age and over | | 2 170 |
| FARM POPULATION BY SEX | | |
| Household members, total | | 43 400 |
| Male | | 19 964 |
| Female | | 23 436 |
| EMPLOYMENT | | |
| Household members engaged mainly: in agricultural work on the holding | | |
| | | 13 049 |
| Hired workers | | 3 729 |
| LAND USE (area) | | |
| Agricultural Land | | 10 644 |
| Cropland | | 9 753 |
| Arable land | | 728 |
| Land under temporary crops | | 607 |
| Land under temporary meadows | | 121 |
| Land under permanent crops | | 9 025 |
| Land under perm. meadows/pastures | | 891 |
| Wood or forest land | | 2 954 |
| All other land | | 566 |

| CROPS, TEMPORARY (pure stand area) | |
|-------------------------------------|--------|
| Dry peas | 115 |
| Sweet potatoes | 34 |
| Dasheen | 30 |
| Yams | 22 |
| Tannia | 17 |
| Maize | 13 |
| Tomatoes | 13 |
| Cassava (manioc) | 11 |
| Cabbages | 9 |
| CROPS, PERMANENT (pure stand area) | |
| Nutmeg | 538 |
| Cocoa | 463 |
| Bananas | 264 |
| Coconut | 152 |
| Sugar cane | 100 |
| Mangoes | 62 |
| Oranges | 24 |
| Cloves | 22 |
| Grapefruit | 21 |
| Sugar apple | 20 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 1 800 |
| Animals | 4 400 |
| Sheep | |
| Holdings reporting | 3 300 |
| Animals | 13 100 |
| Goats | |
| Holdings reporting | 1 900 |
| Animals | 7 000 |
| Pigs | |
| Holdings reporting | 1 100 |
| Animals | 5 300 |
| Chickens | |
| Holdings reporting | 3 600 |
| Animals | 81 700 |
| MACHINERY / EQUIPMENT (units) | |
| Tractors | 18 |
| Sprayers / Dusters | 868 |
| Pumps | 39 |
| Seed planters | 4 |
| Processing equipment | 10 |
| Lawn movers | 119 |
| Brush cutters | 159 |
| Chain saws | 81 |
| Trucks, cars, jeeps, station wagons | 199 |
| FERTILIZERS / PESTICIDES | |
| Chemical fertilizers | |
| Holdings reporting use | 4 560 |
| Organic manure | |
| Holdings reporting use | 3 033 |
| Pesticides | |
| Holdings reporting use | 1 941 |

(1) Data refer only to Long Farm Questionnaire (holdings with at least 0.05 Ha).

GUADELOUPE - Agricultural Census 1989 - Explanatory Notes

Information: Guadeloupe is part of the French Territory, and it is only for practical purposes that it is recorded in the Data Bank at country level in the North and Central American Region. Consequently, results related to France bear only upon the territory of France in Europe (France Metropolitaine).

Historical outline: The 1988-89 Agricultural Census is the second taken in Guadeloupe; the first was carried out in 1980-81.

Organization: The census was organized by the Central Service of Statistical Surveys and Studies (SCEES) of the Ministry of Agriculture and Forestry, in collaboration with the local Statistical Offices of the above-mentioned Ministry.

Enumeration period: The census was carried out in 1988-89.

Definitions:

- "Superficie agricole utilisée" includes arable land, land under permanent crops, and land under permanent meadows and pastures.
- "Superficie agricole utile" includes "superficie agricole utilisée" plus land occupied by buildings, roads, and ditches as well as unproductive land.
- "Superficie totale" includes "superficie agricole utile", wood or forest land, aquaculture basins, and all other land not suitable for agriculture.
- Agricultural holding is an economic unit of agricultural production satisfying at the same time the following four conditions:
 - an agricultural output;
 - at least 0.5 Ha of "superficie agricole utile" or 0.1 Ha of "superficie agricole utilisée", or overstepping a certain number of livestock (depending on the type of animal), or a certain level of agricultural output;
 - an autonomous management;
 - accurately located in a municipality and identified by the most important building or the most important parcel.

Coverage: The census covered the entire country.

Frame: In the first half of 1988, a list of agricultural holdings, based on the list prepared for the previous census, was established in each municipality and used as frame.

Methods: Complete enumeration of holdings was conducted through direct interview.

Data source: Recensement Agricole 1988-89, Résultats Départementaux.

Mailing address:

- Ministère de l'Agriculture et de la Forêt, Service Central des Enquêtes et Etudes Statistiques, 4, avenue de Saint-Mandé - 75570 Paris Cedex 12; Tel.: (1) 43444633.
- Basse Terre - Guadeloupe - Jardin Botanique - 97109 Basse Terre - Tél.: 19 (590) 10344.

GUADELOUPE - Agricultural Census 1989 - Primary Results

Area: in hectares

| NUMBER AND AGRICULTURAL AREA OF HOLDINGS BY SIZE OF AGRICULTURAL AREA OF HOLDING | | | CROPS, TEMPORARY | |
|---|--------|--------|------------------------------|---------|
| Size classes | Number | Area | | |
| All holdings | 16 272 | 46 740 | Sugar cane | |
| Under 1 Ha | 5 043 | 2 409 | Holdings reporting | 7 591 |
| 1 - 2 Ha | 4 441 | 5 926 | Area | 16 723 |
| 2 - 3 Ha | 2 700 | 6 231 | Flowers | |
| 3 - 4 Ha | 1 622 | 5 356 | Holdings reporting | 113 |
| 4 - 5 Ha | 882 | 3 806 | Area | 126 |
| 5 - 10 Ha | 1 163 | 7 539 | CROPS, PERMANENT | |
| 10 - 20 Ha | 272 | 3 489 | Bananas | |
| 20 Ha and over | 149 | 11 984 | Holdings reporting | 2 888 |
| | | | Area | 7 328 |
| TENURE (area) (1) | | | Pineapples | |
| Area owned or in ownerlike possession | | 30 890 | Holdings reporting | 459 |
| Area rented from others | | 10 081 | Area | 261 |
| Area under other forms of tenure | | 5 769 | LIVESTOCK | |
| HOLDERS BY AGE | | | Cattle | |
| Holders, total | | 16 530 | Holdings reporting | 10 135 |
| Under 35 years of age | | 2 476 | Animals | 65 302 |
| 35 and up to 49 years of age | | 4 784 | Pigs | |
| 50 and up to 64 years of age | | 6 188 | Holdings reporting | 6 625 |
| 65 years of age and over | | 3 082 | Animals | 28 658 |
| HOLDERS BY SEX | | | Sheep | |
| Holders, total | | 16 530 | Holdings reporting | 405 |
| Male | | 13 497 | Animals | 3 385 |
| Female | | 3 033 | Goats | |
| HOLDERS BY TYPE OF ACTIVITY | | | Holdings reporting | 3 243 |
| Holders engaged: | | | Animals | 28 187 |
| In agricultural work on the holding | | 9 799 | Chickens | |
| In work off the holding | | 6 731 | Animals | 319 930 |
| FARM POPULATION BY SEX | | | MACHINERY / EQUIPMENT | |
| Household members, total | | 62 310 | 4-Wheel tractors | |
| Male | | 33 532 | used on the holding | |
| Female | | 28 778 | Holdings reporting | 550 |
| EMPLOYMENT | | | Units | 862 |
| Household members engaged | | | owned by the holder | |
| in agricultural work on the holding | | 6 322 | Units | 833 |
| Household members engaged | | | 2-Wheel tractors | |
| in work off the holding | | 21 313 | used on the holding | |
| Household members | | | Holdings reporting | 187 |
| not economically active | | 34 675 | Units | 208 |
| Hired permanent workers | | 3 718 | owned by the holder | |
| Hired occasional workers | | 10 217 | Units | 203 |
| LAND USE | | | Fertilizer distributors | |
| All land | | | used on the holding | |
| Holdings | | 16 530 | Holdings reporting | 254 |
| Area | | 53 559 | Units | 293 |
| Agricultural land | | | owned by the holder | |
| Holdings | | 16 272 | Units | 291 |
| Area | | 46 740 | Sprayers / Dusters | |
| Cropland | | | used on the holding | |
| Area | | 30 507 | Holdings reporting | 4 916 |
| Arable land | | | Units | 5 990 |
| Area | | 22 312 | owned by the holder | |
| Land under temporary crops | | | Units | 5 970 |
| Area | | 21 430 | Lorries | |
| Land temporarily fallow | | | used on the holding | |
| Area | | 882 | Holdings reporting | 339 |
| Land under permanent crops | | | Units | 397 |
| Area | | 8 195 | owned by the holder | |
| Land under perm. meadows/pastures | | | Units | 393 |
| Area | | 16 233 | Trailers | |
| Wood or forest land | | | used on the holding | |
| Area | | 2 516 | Holdings reporting | 419 |
| All other land | | | Units | 677 |
| Area | | 4 303 | | |

(1) Data refer to agricultural land.

HONDURAS - Agricultural Census 1993 - Explanatory Notes

Historical outline: The first census of agriculture in Honduras was undertaken in 1952, the second in 1965-66, and the third in 1974. Two Multi-Purpose National Agricultural Sample Surveys (EAN) were carried out respectively in 1984 and in 1989. The Fourth National Agriculture and Livestock Census was conducted in 1993. Processing of data from 1993 Agricultural Census on holding, holder, tenure and land use is still in progress, although data on crops and livestock are already available. However, to provide users with recent information on structural aspects of holdings, some data on number, area of holdings and land use, abstracted from the 1989 Multi-Purpose National Agricultural Sample Survey (EAN), are shown as temporary source, until 1993 census data are fully available.

Organization: The Ministry of Plans, Coordination and Budget (SECPLAN), in accordance with the Ministry of Natural Resources, was entrusted with the census by the Government of Honduras. An Executing Unit was successively created, assigned to plan and carry out all census operations under the direct control of the SECPLAN. Technical and financial assistance were provided by the UN Development Program, by the Food and Agriculture Organization of the UN, by the United States Agency for International Development (USAID), by the US Bureau of the Census, and by the National Institute of Statistics, Geography and Informatics of Mexico (INEGI). A Census Committee, with advisory functions, was also formed. Census offices were created in the capital city of Tegucigalpa, in the 18 department-capitals, and in the 291 municipalities of the country. The field work was carried out by 945 supervisors and 2967 enumerators, under the guidance of a census coordinator for each of the 18 departments and 291 municipalities of the country.

Enumeration period: The Fourth National Agriculture and Livestock Census was conducted 26 April - 15 May 1993.

Reference date: Data on temporary and permanent crops refer to the period 1 May 1992 - 30 April 1993. Data on livestock numbers refer to 25 April 1993.

Definition: The statistical unit adopted was the Agricultural Holding, defined as all land of at least 0.2 Ha (0.3 manzanas), totally or partially used for agriculture or livestock rearing, made up of one or more parcels laying in the same municipality, kept under a single management, without regard to title or legal form.

Coverage: The Census covered the entire country.

Frame: An adequate cartography work, to clearly define census segments, was carried out in the pre-censal phase.

Methods: The country consists administratively of 7 regions, subdivided into 18 departments, including 291 municipalities which were in turn subdivided, for census purposes, into census segments to be investigated by enumerators. Complete enumeration of all holdings was carried out; data were collected by enumerators through direct interview; as a result, a total of 317,199 questionnaires were filled in.

Data source: República de Honduras - Secretaría de Planificación, Coordinación y Presupuesto (SECPLAN) - IV Censo Nacional Agropecuario 1993 - Tomo II, III, IV, V - Agosto 1993.

Mailing address: Secretaría de Planificación, Coordinación y Presupuesto - Dirección General de Estadística y Censos - Sexta Avenida, Octava Calle, Comayagua; Tel. 22-3279 or 22-8448; Fax: 22-7886.

HONDURAS - Agricultural Census 1993 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING (1) | | |
|---|---------|-----------|
| Size classes | Number | Area |
| All holdings | 325 750 | 3 637 469 |
| 1 - 5 Ha | 178 250 | 280 531 |
| 5 - 10 Ha | 52 770 | 249 098 |
| 10 - 20 Ha | 38 770 | 369 364 |
| 20 Ha and over | 55 960 | 2 738 476 |
| TENURE (area) (1) | | |
| Area owned or in ownerlike possession | | 3 083 727 |
| Area rented from others | | 88 168 |
| Area operated under other forms of tenure | | 465 574 |
| LAND USE (area) (1) | | |
| Agricultural land | | 2 430 490 |
| Cropland | | 867 993 |
| Arable land | | 503 371 |
| Land under temporary crops | | 477 860 |
| Land temporarily fallow | | 25 510 |
| Land under permanent crops | | 364 622 |
| Land under perm. meadows/pastures | | 1 562 497 |
| Wood or forest land | | 1 131 748 |
| All other land | | 75 231 |
| CROPS, TEMPORARY | | |
| Rice | | |
| Holdings reporting | | 19 929 |
| Area | | 20 612 |
| Production | | 48 438 |
| Maize | | |
| Holdings reporting | | 268 152 |
| Area | | 358 334 |
| Production | | 500 364 |
| Beans, dry edible | | |
| Holdings reporting | | 114 276 |
| Area | | 85 465 |
| Production | | 43 276 |
| Gama grass (maicillo) | | |
| Holdings reporting | | 50 803 |
| Area | | 56 781 |
| Production | | 54 826 |
| Soybeans | | |
| Holdings reporting | | 339 |
| Area | | 1 099 |
| Production | | 2 133 |
| Sorghum for forage | | |
| Holdings reporting | | 127 |
| Area | | 1 326 |
| Production | | 36 740 |
| Potatoes | | |
| Holdings reporting | | 2 973 |
| Area | | 1 611 |
| Production | | 17 328 |
| Onions | | |
| Holdings reporting | | 2 147 |
| Area | | 994 |
| Production | | 14 014 |
| Manioc (Yuca) | | |
| Holdings reporting | | 9 654 |
| Area | | 5 296 |
| Production | | 41 230 |
| Sugar cane | | |
| Holdings reporting | | 16 714 |
| Area | | 32 888 |
| Production | | 2 224 079 |

| CROPS, TEMPORARY (cont'd) | |
|---------------------------|------------|
| Tobacco | |
| Holdings reporting | 85 |
| Area | 6 035 |
| Production | 95 578 |
| Tomatoes | |
| Holdings reporting | 3 093 |
| Area | 3 568 |
| Production | 122 815 |
| CROPS, PERMANENT | |
| Bananas | |
| Holdings reporting | 5 536 |
| Area | 23 327 |
| Production | 1 012 868 |
| Plantains | |
| Holdings reporting | 7 411 |
| Area | 7 921 |
| Production | 93 820 |
| Coffee | |
| Holdings reporting | 92 528 |
| Area | 150 605 |
| Production | 110 481 |
| Cocoa | |
| Holdings reporting | 3 231 |
| Area | 3 656 |
| Production | 1 865 |
| Oil palm | |
| Holdings reporting | 393 |
| Area | 20 528 |
| Production | 367 870 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 99 911 |
| Animals | 2 077 460 |
| Pigs | |
| Holdings reporting | 100 376 |
| Animals | 479 434 |
| Goats | |
| Holdings reporting | 5 889 |
| Animals | 27 077 |
| Sheep | |
| Holdings reporting | 816 |
| Animals | 13 145 |
| Horses | |
| Holdings reporting | 107 198 |
| Animals | 232 492 |
| Mules | |
| Holdings reporting | 41 763 |
| Animals | 73 784 |
| Asses | |
| Holdings reporting | 17 442 |
| Animals | 27 259 |
| Poultry | |
| Holdings reporting | 244 319 |
| Animals | 11 696 636 |
| Rabbits | |
| Holdings reporting | 1 281 |
| Animals | 12 559 |
| Beehives | |
| Holdings reporting | 4 795 |
| Units | 1 053 392 |

(1) Data refer to "Enquesta Agrícola Nacional 1993".

MARTINIQUE - Agricultural Census 1989 - Explanatory Notes

Information: Martinique is part of the French Territory, and it is only for practical purposes that it is recorded in the Data Bank at country level in the North and Central American Region. Consequently, results related to France bear only upon the territory of France in Europe (France Metropolitaine).

Historical outline: The 1988-89 Agricultural Census is the second taken in Martinique; the first was carried out in 1980-81.

Organization: The census was organized by the Central Service of Statistical Surveys and Studies (SCEES) of the Ministry of Agriculture and Forestry, in collaboration with the local Statistical Offices of the above-mentioned Ministry.

Enumeration period: The census was carried out in 1988-89.

Definitions:

- "Superficie agricole utilisée" includes arable land, land under permanent crops, and land under permanent meadows and pastures.
- "Superficie agricole utile" includes "superficie agricole utilisée" plus land occupied by buildings, roads, and ditches as well as unproductive land.
- "Superficie totale" includes "superficie agricole utile", wood or forest land, aquaculture basins, and all other land not suitable for agriculture.
- Agricultural holding is an economic unit of agricultural production satisfying at the same time the following four conditions:
 - an agricultural output;
 - at least 0.5 Ha of "superficie agricole utile" or 0.1 Ha of "superficie agricole utilisée", or overstepping a certain number of livestock (depending on the type of animal), or a certain level of agricultural output;
 - an autonomous management;
 - accurately located in a municipality and identified by the most important building or the most important parcel.

Coverage: The census covered the entire country.

Frame: In the first half of 1988, a list of agricultural holdings, based on the list prepared for the previous census, was established in each municipality and used as frame.

Methods: Complete enumeration of holdings was conducted through direct interview.

Data source: Recensement Agricole 1988-89, Résultats Départementaux.

Mailing address:

- Ministère de l'Agriculture et de la Forêt, Service Central des Enquêtes et Etudes Statistiques, 4, avenue de Saint-Mandé - 75570 Paris Cedex 12; Tél.: (1) 43444633.
- Fort-De-France - Martinique - Jardin Desclieux - 97262 Fort-De-France; Tél.: 19 (596) 639401.

MARTINIQUE - Agricultural Census 1989 - Primary Results

Area: in hectares

| NUMBER AND AGRICULTURAL AREA OF HOLDINGS BY SIZE OF AGRICULTURAL AREA OF HOLDING | | |
|---|--------|--------|
| Size classes | Number | Area |
| All holdings | 15 460 | 37 173 |
| Under 1 Ha | 9 830 | 3 181 |
| 1 - 2 Ha | 2 086 | 2 931 |
| 2 - 3 Ha | 1 309 | 3 122 |
| 3 - 4 Ha | 707 | 2 371 |
| 4 - 5 Ha | 411 | 1 793 |
| 5 - 10 Ha | 634 | 4 212 |
| 10 - 20 Ha | 252 | 3 346 |
| 20 Ha and over | 231 | 16 217 |
| TENURE (area) (1) | | |
| Area owned or in ownerlike possession | | 24 286 |
| Area rented from others | | 8 363 |
| Area under other forms of tenure | | 4 524 |
| HOLDERS BY AGE | | |
| Holders, total | | 16 038 |
| Under 35 years of age | | 1 592 |
| 35 and up to 49 years of age | | 3 793 |
| 50 and up to 64 years of age | | 6 323 |
| 65 years of age and over | | 4 330 |
| HOLDERS BY SEX | | |
| Holders, total | | 16 038 |
| Male | | 12 577 |
| Female | | 3 461 |
| HOLDERS BY TYPE OF ACTIVITY | | |
| Holders engaged: | | |
| In agricultural work on the holding | | 6 313 |
| In work off the holding | | 9 725 |
| FARM POPULATION BY SEX | | |
| Household members, total | | 60 840 |
| Male | | 31 931 |
| Female | | 28 909 |
| EMPLOYMENT | | |
| Household members engaged in agricultural work on the holding | | 3 782 |
| Household members engaged in work off the holding | | 22 977 |
| Household members not economically active | | 34 081 |
| Hired permanent workers | | 5 432 |
| Hired occasional workers | | 2 846 |
| LAND USE | | |
| All land | | |
| Holdings | | 16 038 |
| Area | | 50 192 |
| Agricultural land | | |
| Holdings | | 15 460 |
| Area | | 37 173 |
| Cropland | | |
| Area | | 18 112 |
| Arable land | | |
| Area | | 8 222 |
| Land under temporary crops | | |
| Area | | 7 650 |
| Land temporarily fallow | | |
| Area | | 572 |
| Land under permanent crops | | |
| Area | | 9 890 |
| Land under perm. meadows/pastures | | |
| Area | | 19 061 |
| Wood or forest land | | |
| Area | | 4 485 |
| All other land | | |
| Area | | 8 534 |

| CROPS, TEMPORARY | |
|-------------------------|---------|
| Sugar cane | |
| Holdings reporting | 531 |
| Area | 3 073 |
| Flowers | |
| Holdings reporting | 1 581 |
| Area | 416 |
| CROPS, PERMANENT | |
| Bananas | |
| Holdings reporting | 2 007 |
| Area | 8 283 |
| Pineapples | |
| Holdings reporting | 81 |
| Area | 550 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 7 420 |
| Animals | 35 467 |
| Pigs | |
| Holdings reporting | 6 991 |
| Animals | 21 185 |
| Sheep | |
| Holdings reporting | 6 613 |
| Animals | 36 158 |
| Goats | |
| Holdings reporting | 2 902 |
| Animals | 16 520 |
| Chickens | |
| Animals | 255 591 |
| MACHINERY / EQUIPMENT | |
| 4-Wheel tractors | |
| used on the holding | |
| Holdings reporting | 344 |
| Units | 840 |
| owned by the holder | |
| Units | 824 |
| 2-Wheel tractors | |
| used on the holding | |
| Holdings reporting | 75 |
| Units | 86 |
| owned by the holder | |
| Units | 84 |
| Fertilizer distributors | |
| used on the holding | |
| Holdings reporting | 98 |
| Units | 118 |
| owned by the holder | |
| Units | 118 |
| Sprayers / Dusters | |
| used on the holding | |
| Holdings reporting | 1 960 |
| Units | 2 951 |
| owned by the holder | |
| Units | 2 911 |
| Lorries | |
| used on the holding | |
| Holdings reporting | 156 |
| Units | 191 |
| owned by the holder | |
| Units | 187 |
| Trailers | |
| used on the holding | |
| Holdings reporting | 237 |
| Units | 916 |

(1) Data refer to agricultural land.

MEXICO - Agricultural Census 1991 - Explanatory Notes

Historical outline: Agricultural censuses were conducted in the United States of Mexico in 1930, 1935, 1940, 1950, 1970, 1981 and 1991. Data presented here are from the 1991 census.

Organization: The census was planned, organized and conducted by the National Institute of Statistics, Geography and Informatics (INEGI), within the Agriculture and Forests Statistical Information System. The field structure consisted of census coordinators at state, zone and municipality level, and of enumerators, validation officers and their supervisors, at enumeration area level.

Enumeration period: The census was conducted between 1 and 31 October 1991.

Reference date: The agricultural year 1 October 1990 to 30 September 1991 was the reference period for agricultural and forest production, credit and insurance, non-agricultural or non-forest activities. 30 September 1991 was the reference day for livestock and agricultural machinery numbers, for farm buildings and other activities on the holding. Last week of September 1991 was the reference period for employment.

Definitions:

- "Rural production units" were defined those households practising an agricultural activity in rural areas.
- "Ejido" was defined as all land, woods and water sources, conceded to a nucleus of rural population by virtue of the Agrarian Law of January 1915.

Coverage: The census covered the entire country. In addition to agricultural holdings defined above as Rural Production Units and Ejidos, the census covered 1,765,401 additional agriculturally active households, reporting a negligible area.

Frame: Before the enumeration started, an accurate cartography work was performed.

Methods: Complete enumeration of all holdings was carried out. In localities with less than 15,000 inhabitants, a list of holders eligible for enumeration was made as a first step of enumeration work. In localities with more than 15,000 inhabitants, lists of holders divided by groups of census units were already available before the enumeration, so that the interviews could immediately start.

Data source: Instituto Nacional de Estadística, Geografía e Informática - Estados Unidos Mexicanos, VII Censo Agrícola-Ganadero and VII Censo Ejidal, Resultados Definitivos.

Mailing address: Instituto Nacional de Estadística, Geografía e Informática - Edificio Sede, Av. Héroe de Nacozari Sur 2301 Puerta 7, Segundo Nivel, Fracc. Jardines del Parque 20170 Aguascalientes, Ags., Mexico.

MEXICO - Agricultural Census 1991 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|--|-----------|-------------|
| Size classification | Number | Area |
| All holdings | 4 437 863 | 183 838 578 |
| Under 5.1 Ha | 2 620 399 | 5 574 769 |
| 5.1 Ha and over | 1 787 481 | 102 771 315 |
| Ejidos | 29 983 | 75 492 494 |
| TENURE (area) (1) | | |
| Area owned or in ownerlike possession | | 103 779 709 |
| Area rented from others | | 2 608 653 |
| Area under other forms of tenure | | 1 957 722 |
| EMPLOYMENT (1) | | |
| Household members engaged mainly: in agricultural work on the holding | | |
| Total | | 8 370 879 |
| Male | | 7 112 977 |
| Female | | 1 257 902 |
| Hired permanent workers | | |
| Total | | 427 337 |
| Male | | 399 944 |
| Female | | 27 393 |
| Hired occasional workers | | |
| Total | | 1 878 095 |
| Male | | 1 717 275 |
| Female | | 160 820 |
| LAND USE (area) (1) | | |
| Agricultural Land | | 98 337 044 |
| Cropland | | 31 104 451 |
| Land under perm. meadows/pastures | | 67 232 593 |
| Wood or forest land | | 8 793 066 |
| All other land | | 1 215 974 |
| IRRIGATION (1) | | |
| Normally irrigated land | | |
| Area | | 5 616 757 |
| CROPS, TEMPORARY (holdings reporting) (1) | | |
| Maize | | 2 752 020 |
| Edible dry beans | | 893 314 |
| Sorghum | | 141 452 |
| Sugar cane | | 132 419 |
| Wheat | | 113 379 |
| Oats for forage | | 76 322 |
| Alfalfa | | 60 514 |
| Barley | | 49 300 |
| Sesame seed | | 29 606 |
| Chick-peas | | 23 275 |
| Soybeans | | 21 866 |
| Rice | | 21 480 |
| Cotton | | 21 394 |
| Cardamom | | 7 449 |
| CROPS, PERMANENT (holdings reporting) (1) | | |
| Oranges | | 439 482 |
| Coffee | | 391 616 |
| Plantains | | 222 401 |
| Agave | | 123 658 |
| Coconut | | 104 594 |

| LIVESTOCK | |
|---|-------------|
| Cattle (2) | |
| Holdings reporting | 1 453 245 |
| Animals | 24 611 862 |
| Pigs (2) | |
| Holdings reporting | 1 962 892 |
| Animals | 10 581 242 |
| Sheep (2) | |
| Holdings reporting | 420 827 |
| Animals | 4 010 610 |
| Goats (2) | |
| Holdings reporting | 493 384 |
| Animals | 6 882 767 |
| Horses (1) | |
| Holdings reporting | 1 165 124 |
| Animals | 2 904 594 |
| Mules (1) | |
| Holdings reporting | 413 471 |
| Animals | 749 009 |
| Asses (1) | |
| Holdings reporting | 845 148 |
| Animals | 1 527 118 |
| Rabbits (2) | |
| Holdings reporting | 107 957 |
| Animals | 673 145 |
| Beehives (2) | |
| Holdings reporting | 106 802 |
| Units | 1 245 068 |
| Chickens (2) | |
| Holdings reporting | 3 362 919 |
| Animals | 232 560 043 |
| Turkeys (2) | |
| Holdings reporting | 931 960 |
| Animals | 4 682 776 |
| Ducks / Geese (2) | |
| Holdings reporting | 304 841 |
| Animals | 1 676 979 |
| Quails (2) | |
| Holdings reporting | 12 432 |
| Animals | 173 415 |
| MACHINERY / EQUIPMENT (1) | |
| Tractors | |
| Holdings reporting | 240 618 |
| Units | 317 312 |
| Trucks | |
| Holdings reporting | 160 433 |
| Units | 198 200 |
| Cars / Vans / Pick-up / Station -Wagons | |
| Holdings reporting | 547 088 |
| Units | 652 267 |

(1) Data refer to Rural Production Units only.

(2) Data refer to livestock in Rural Production Units and in Agriculturally Active Households.

PANAMA - Agricultural Census 1990 - Explanatory Notes

Historical outline: The first nationwide agricultural census in Panama was undertaken, through complete enumeration, in 1950; the second was carried out, on sample basis, in 1961; the third, the fourth, and the fifth were conducted, through complete enumeration, in 1971, 1981 and 1991 respectively.

Organization: The Constitution of the Republic assigned to the Office of Controller (Contraloría General) the function of directing and making up national statistics through the Statistics and Census Office. The Agricultural Census Section of the Census Division of the Statistics and Census Office, which produces almost all of the national statistics concerning agriculture, was entrusted with the 1991 Census of Agriculture.

Enumeration period: The census was carried out 21 - 28 April 1991.

Reference date: Number of fruit trees, livestock, beehives, machinery units, and household members, refer to the day of enumeration. Data on dairy products and egg production refer to the week preceding the census (14 - 21 April 1991). Data on employment refer to the month preceding the census (March 1991). Data on crop production, livestock sales and use of machinery refer to the agricultural year 1 May 1990 up to the enumeration day. All other data refer to the calendar year 1 January - 31 December 1990.

Definition: The statistical unit is the Agricultural Holding, which is defined as all land wholly or partly used for agricultural production and operated as one technical unit under a single management or together with others, without regard to title, legal form, size or location.

Coverage: The census covered the entire country. The census of the Indigenous Areas was carried out together with the 1989-90 Census of Population and Housing.

Frame: The census segments assigned to the enumerators, defined in such a way to include for each segment an average of 12 holdings in rural areas and 14 in urban areas, were used as census frame.

Methods: The country is divided administratively into 9 Provinces, subdivided into 67 Districts, subdivided, in turn, into 511 Judicial Districts (Corregimientos), and the Indigenous Areas. In each Province a Coordinator operated as a linkage officer between the Central Census Office and the Inspective Regional Offices. For census purposes, the country was divided into 55 Regions, subdivided into Zones controlled by supervisors, and, in turn, into Segments assigned to the enumerators, in number of two or more segments per enumerator. Complete enumeration of all holdings was made; data were collected through direct interview; no objective measurement was done by enumerators.

Data source: República de Panamá - Contraloría General de la República - Dirección de Estadística y Censo - V Censo Agropécuario, volumen I, datos basicos.

Mailing address: Contraloría General de la República - Dirección de Estadística y Censo - Sección de Información y Distribución - Ave. Federico Boyd 2do. piso, lado izquierdo - Panamá, República de Panamá; Tel. 64-0777, exts. 269, 203.

PANAMA - Agricultural Census 1990 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|---------|-----------|
| Size classes | Number | Area |
| All holdings | 213 895 | 2 941 583 |
| Under 0.1 Ha | 62 155 | 2 461 |
| 0.1 - 0.2 Ha | 11 775 | 1 399 |
| 0.2 - 0.5 Ha | 11 155 | 2 922 |
| 0.5 - 1 Ha | 14 820 | 8 380 |
| 1 - 2 Ha | 24 345 | 27 584 |
| 2 - 3 Ha | 14 351 | 30 059 |
| 3 - 4 Ha | 8 714 | 26 822 |
| 4 - 5 Ha | 5 633 | 22 923 |
| 5 - 10 Ha | 16 172 | 103 986 |
| 10 - 20 Ha | 15 232 | 196 241 |
| 20 - 50 Ha | 16 383 | 486 161 |
| 50 - 100 Ha | 8 115 | 522 322 |
| 100 - 200 Ha | 3 251 | 412 164 |
| 200 - 500 Ha | 1 460 | 396 453 |
| 500 - 1000 Ha | 231 | 150 171 |
| 1000 - 2500 Ha | 85 | 123 127 |
| 2500 Ha and over | 18 | 428 408 |
| FRAGMENTATION | | |
| Parcels | | 279 622 |
| TENURE | | |
| Holdings operated under one form of tenure | | |
| Holdings | | 198 793 |
| Area | | 2 387 046 |
| Holdings owned or in ownerlike possession | | |
| Holdings | | 61 235 |
| Area | | 1 007 264 |
| Holdings rented from others | | |
| Holdings | | 3 014 |
| Area | | 36 025 |
| Holdings operated on squatter basis | | |
| Holdings | | 134 544 |
| Area | | 1 343 757 |
| Holdings under more than one form of tenure | | |
| Holdings | | 15 102 |
| Area | | 554 537 |
| LEGAL STATUS | | |
| Holdings operated by: | | |
| Individuals or households | | |
| Holdings | | 211 556 |
| Area | | 2 329 566 |
| Corporation | | |
| Holdings | | 631 |
| Area | | 193 060 |
| Cooperative | | |
| Holdings | | 94 |
| Area | | 4 368 |
| Collective | | |
| Holdings | | 154 |
| Area | | 27 252 |
| Government | | |
| Holdings | | 370 |
| Area | | 382 442 |
| Other | | |
| Holdings | | 1 090 |
| Area | | 4 895 |
| HOLDERS BY AGE | | |
| Holders, total | | 207 847 |
| Under 25 years of age | | 8 693 |
| 25 to 34 years of age | | 38 662 |
| 35 to 44 years of age | | 48 921 |
| 45 to 54 years of age | | 44 908 |
| 55 to 64 years of age | | 33 730 |
| 65 years of age and over | | 32 933 |

| LAND USE (area) | |
|---|-----------|
| Agricultural land | 2 124 983 |
| Cropland | 654 424 |
| Arable land | 499 311 |
| Land under temporary crops | 270 099 |
| Land temporarily fallow | 229 212 |
| Land under permanent crops | 155 113 |
| Land under perm. meadows/pastures | 1 470 559 |
| Wood or forest land | 709 896 |
| All other land | 106 704 |
| CROPS, TEMPORARY (holdings reporting) | |
| Maize | 73 605 |
| Rice | 65 977 |
| Sorghum | 633 |
| Pigeon peas | 28 561 |
| Cassava | 54 607 |
| Yams | 18 122 |
| Potatoes | 529 |
| Tobacco | 875 |
| Sugar cane | 14 648 |
| Onions | 550 |
| Lettuce | 594 |
| Sweet pepper | 579 |
| Cabbages | 573 |
| Tomatoes | 3 206 |
| Carrots | 393 |
| Beets | 230 |
| Cucumbers | 987 |
| Chayote | 617 |
| Watermelons | 988 |
| CROPS, PERMANENT (holdings reporting) | |
| Coffee | 40 740 |
| Bananas | 98 525 |
| Plantains | 82 152 |
| Papayas | 50 250 |
| Oranges | 126 510 |
| Cocoa | 14 130 |
| Pineapples | 31 707 |
| Avocados | 89 427 |
| Coconut | 110 740 |
| Anatto trees | 30 161 |
| Lemons | 89 518 |
| Shaddock | 23 609 |
| Mangoes | 142 397 |
| Maracuja | 11 746 |
| Guavas | 39 778 |
| LIVESTOCK (holdings reporting) | |
| Cattle | 39 172 |
| Sheep / Goats | 636 |
| Pigs | 39 345 |
| Horses | 51 972 |
| Mules / Asses | 2 151 |
| Chickens | 156 948 |
| Ducks / Geese | 223 153 |
| Turkeys | 5 644 |
| MACHINERY / EQUIPMENT (holdings reporting) | |
| Internal combustion engines | 2 133 |
| Electric motors | 812 |
| Wheel tractors | 2 932 |
| Track-laying tractors | 316 |
| Seed drills | 715 |
| Harvester-threshers (self-propelled) | 302 |
| Harvester-threshers (tractor-operated) | 568 |
| Milking machines | 139 |
| Trucks / Pick-up | 6 087 |
| Jeeps | 1 849 |
| Cars | 2 294 |
| Trailers | 926 |
| Carts | 1 653 |

PUERTO RICO - Agricultural Census 1987 - Explanatory Notes

Historical outline: The US Bureau of the Census first included Puerto Rico in the agricultural census programme in 1910 decennial enumeration. It continued to carry out agricultural censuses of the Commonwealth every ten years in conjunction with the decennial population censuses. Puerto Rico was included in the quinquennial agricultural census plan in 1964. In 1982 timing adjustment was established to let agricultural censuses coincide with economic censuses; for this reason collection of data was established on a 5 year cycle, for years ending in 2 and 7.

Organization: The 1987 Census of Agriculture was carried out by an agency of the US Department of Commerce, the US Bureau of the Census; the Agriculture Division, Outlying Areas Branch, was the division of the Bureau of the Census mostly involved in census undertaking. The Bureau established a local office in San Juan; this office and a field enumeration staff carried out the data-collection portion of the census (a combined mail/field enumeration), and the agency's headquarters staff provided supervision and technical assistance. The field operation employed 68 crew leaders, 50 quality control enumerators, and 610 enumerators.

Enumeration period: The Governor of Puerto Rico, in accordance with the US Census Bureau, proclaimed July 1987 Agriculture Census Month. The field enumeration lasted from July 1988 to October 1988.

Reference date: The reference dates/periods are: 1 July 1988 for Inventory data, and the 12 months ending 30 June 1988 for data on Production.

Definitions:

- Farm is any place that had sales of US \$500 or more of agricultural products during the 12 months between 1 July 1987 and 30 June 1988; or that had at least 10 cuerdas (3.92 Ha) of land from which US \$100 of agricultural products were sold in the same period.
- Special Farm is a "large holding" having minimum annual sales of agricultural products of US \$10,000 or having at least 49 cuerdas (19.23 Ha) of land.

Coverage: The census covered the entire country.

Frame: Lists of households in each Enumeration District (ED) were used on the basis of those already prepared for the 1982 Agriculture Census. A list of Special Farms, identified in 1982 Agriculture Census, was also used.

Methods: In predominantly rural EDs, a door-to-door canvas of every household was carried out, except in built-up residential areas identified as clusters; a cluster was any group of 25 or more houses, each on a piece of land of 0.2 Ha or less; in each cluster enumerators spot-checked households to find out which operates a farm, and then visited those households only. In Urbanized EDs, the interviewers visited each place pre-qualified as a farm in their lists and, moreover, they added to the pre-listed farms those newly identified. Special Farms were mailed a census form to be filled in by the farmer; the form was to be held until a field enumerator picked it up during the canvassing operation, or was to be mailed back if the enumerator did not visit the farm. As a result of the field/mail operations, a total of 20,245 farms were enumerated.

Data source: US Department of Commerce, Economics and Statistics Administration, Bureau of the Census - 1987 Census of Agriculture - Puerto Rico - Vol.1, Part 52 - July 1989.

Mailing address: Data User Services Division, Customer Services, Bureau of the Census, Washington DC 20233; Tel. (301) 763-1113 (General Information).

PUERTO RICO - Agricultural Census 1987 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|--------|---------|
| Size classes | Number | Area |
| All holdings | 20 245 | 348 530 |
| Under 3.9 Ha | 9 856 | 14 293 |
| 3.9 - 7.9 Ha | 3 949 | 21 325 |
| 7.9 - 19.7 Ha | 3 387 | 39 808 |
| 19.7 - 39.3 Ha | 1 365 | 36 617 |
| 39.3 - 68.8 Ha | 741 | 37 518 |
| 68.8 - 102.2 Ha | 307 | 25 367 |
| 102.2 Ha and over | 640 | 173 602 |
| TENURE | | |
| Holdings operated under one form of tenure | | |
| Holdings | | 17 591 |
| Area | | 259 165 |
| Holdings owned or in ownerlike possession | | |
| Holdings | | 15 693 |
| Area | | 188 459 |
| Holdings rented from others | | |
| Holdings | | 1 433 |
| Area | | 47 321 |
| Holdings under other single forms of tenure | | |
| Holdings | | 465 |
| Area | | 23 385 |
| Holdings under more than one form of tenure | | |
| Holdings | | 2 654 |
| Area | | 89 365 |
| LEGAL STATUS | | |
| Holdings operated by: | | |
| An individual or a household | | |
| Holdings | | 17 980 |
| Area | | 256 972 |
| Two or more individuals or households | | |
| Holdings | | 322 |
| Area | | 12 097 |
| Corporation | | |
| Holdings | | 354 |
| Area | | 23 071 |
| Other | | |
| Holdings | | 1 589 |
| Area | | 56 391 |
| HOLDERS BY AGE | | |
| Holders, total | | 20 245 |
| Under 25 years of age | | 209 |
| 25 to 34 years of age | | 1 582 |
| 35 to 44 years of age | | 3 489 |
| 45 to 54 years of age | | 4 302 |
| 55 to 64 years of age | | 4 348 |
| 65 years of age and over | | 6 315 |
| HOLDERS BY TYPE OF ACTIVITY | | |
| Holders engaged mainly: | | |
| In agricultural work on the holding | | 11 435 |
| In work off the holding | | 8 485 |
| Not reported | | 325 |
| Hired permanent workers | | |
| Holdings reporting | | 2 984 |
| Workers | | 13 283 |
| LAND USE (area) | | |
| Agricultural land | | 259 128 |
| Cropland | | 97 414 |
| Land under crops | | 68 613 |
| Land temporarily fallow | | 28 802 |
| Land under perm. meadows/pastures | | 161 714 |
| Cultivated | | 90 295 |
| Uncultivated | | 71 419 |
| Wood or forest land | | 66 467 |
| All other land | | 22 934 |
| IRRIGATION | | |
| Normally irrigated land | | |
| Holdings reporting | | 920 |
| Area | | 14 173 |

| CROPS, TEMPORARY (area) | |
|--|-----------|
| Sugar cane | 17 648 |
| Pigeon peas | 2 244 |
| Yams | 700 |
| Taniers | 602 |
| Cassava | 388 |
| Dasheens | 357 |
| Rice | 352 |
| Sweet potatoes | 343 |
| Beans, green | 343 |
| Maize | 334 |
| Celeriac | 246 |
| Beans, edible dry | 139 |
| Tobacco | 48 |
| CROPS, PERMANENT | |
| Oranges | 7 581 |
| Lemons / Limes | 2 689 |
| Citrons | 206 |
| Grapefruit | 4 468 |
| Bananas | 6 917 |
| Plantains | 6 531 |
| Avocados | 5 008 |
| Papayas | 1 306 |
| Mangoes | 2 528 |
| Coconut | 3 408 |
| Passion fruit | 1 122 |
| Chironjas | 1 054 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 7 218 |
| Animals | 293 244 |
| Pigs | |
| Holdings reporting | 4 700 |
| Animals | 141 031 |
| Horses | |
| Holdings reporting | 2 215 |
| Animals | 9 606 |
| Mules / Asses | |
| Holdings reporting | 24 |
| Animals | 61 |
| Sheep | |
| Holdings reporting | 451 |
| Animals | 8 944 |
| Goats | |
| Holdings reporting | 1 589 |
| Animals | 22 959 |
| Rabbits | |
| Holdings reporting | 388 |
| Animals | 22 589 |
| Chickens | |
| Animals | 7 966 972 |
| Beehives | |
| Holdings reporting | 147 |
| Units | 3 729 |
| MACHINERY / EQUIPMENT (holdings reporting) | |
| Wheel tractors | 1 291 |
| Track-laying tractors | 301 |
| Milking machines | 536 |
| Milk coolers | 532 |
| Coffee depulpers | 2 253 |
| USE OF NON-RESIDENTIAL BUILDINGS | |
| Holdings reporting use of buildings for: | |
| Storage of crops | 2 506 |
| Storage of equipment | 1 464 |

SAINT LUCIA - Agricultural Census 1986 - Explanatory Notes

Historical outline: Saint Lucia first participated in the World Census of Agriculture Programme (WCA), as part of the Windward Islands, in 1950; agricultural censuses were also conducted in 1961, 1973/74, 1986, to which data here refer, and in 1996; 1996 results will be published as part of the 2000 WCA, covering the period 1996 - 2005.

Organization: The Statistical Department, empowered by the Statistics Act No.10 of 1973 to conduct all censuses and surveys of national importance, entrusted the Ministry of Agriculture, Lands, Fisheries and Co-operatives, with the Agricultural Census. Technical and financial assistance to the project was provided by the United States Agency for International Development (USAID), by the Inter-American Institute for Co-operation on Agriculture (IICA), and by the Food and Agriculture Organization of the United Nations (FAO). A Census Committee was also established, basically responsible for assisting the Census Office to conduct the census, and comprising personnel from the Ministry of Agriculture, from the Statistics Department, from the Caribbean Agricultural Research and Development Institute (CARDI) and from the Windward Islands Banana Growers Association (WINBAN).

Enumeration period: The field work for the agricultural census began on 14 April and continued until 6 June 1986.

Reference date: The calendar year 1985 was the reference period for most of the items under investigation: items such as crop production, land use, use of machinery, use of fertilizers and other inputs, were related to the situation as obtained in 1985; the list of farms, as well as other characteristics of the holder, relate to the day of enumeration.

Definition: The selected unit of enumeration was the agricultural holding, defined as any unit engaged in rearing any land used wholly or partly for agricultural production, operated by one or more persons as a single business unit, without regard to title, legal form, size or location. For census purposes, a holding must satisfy one of the following criteria:

- at least 0.05 Ha of any crop; or
- at least one head of cattle; or
- at least two head of pigs or goats or one head of any two; or
- at least 12 poultry; or
- at least 10 bearing trees of any tree crop or 100 mats of bananas or plantains.

Coverage: The census covered the entire island except for the commercial section of the city of Castries. The Government's Forest Reserve (about 6900 Ha), sited in the centre of the island, was left out of the enquiry.

Frame: One of the objectives of the census was the provision of a comprehensive list of farms, and farm operators, to be used as a frame for future enquiries. Maps were prepared as reproduction of the Administrative and Enumeration Districts maps that were used for the 1980 Population Census.

Methods: The same Administrative Districts (ADs) demarcation of 1973/74 census, was used in 1986: the island was divided into ten ADs, sub-divided, in turn, into 210 smaller units called Enumeration Districts (ED). A pre-test was conducted in January 1984 on a sample of 50 farms randomly selected, then, in 1986, a complete enumeration of all holdings was carried out through direct interview: the enumerators visited every housing unit located in the assigned areas interviewing the head of each household, aimed to identify all household's members engaged in agricultural activities.

Data source: Ministry of Agriculture, Lands, Fisheries and Co-operatives - Final Report on the 1986 Census of Agriculture in Saint Lucia - Castries, Saint Lucia, June 1987.

Mailing address: Statistics Office - Government Buildings Block A, Castries Waterfront - Castries, Saint Lucia.

SAINT LUCIA - Agricultural Census 1986 - Primary Results

Arrea: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|--------|--------|
| Size classes | Number | Area |
| All holdings | 11 551 | 23 478 |
| Holdings without land | 850 | 0 |
| Under 0.8 Ha | 8 770 | 4 997 |
| 0.8 - 4.0 Ha | 1 191 | 3 157 |
| 4.0 - 10.1 Ha | 560 | 3 142 |
| 10.1 - 20.2 Ha | 98 | 1 303 |
| 20.2 - 40.5 Ha | 35 | 946 |
| 40.5 - 80.9 Ha | 17 | 904 |
| 80.9 - 202.3 Ha | 17 | 1 975 |
| 202.3 Ha and over | 13 | 7 054 |
| FRAGMENTATION OF HOLDINGS | | |
| Holdings reporting: | | 11 504 |
| Holdings with: | | |
| 1 parcel | | 7 251 |
| 2 to 3 parcels | | 2 631 |
| 4 to 5 parcels | | 132 |
| 6 parcels and over | | 12 |
| Not stated | | 1 478 |
| Parcels | | 13 530 |
| TENURE (area) | | |
| Area owned or in ownerlike possession | | 19 463 |
| Area rented from others | | 1 927 |
| Area operated on squatter basis | | 830 |
| Area under other forms of tenure | | 1 258 |
| LEGAL STATUS | | |
| Holdings operated by: | | |
| An individual or a household | | 11 476 |
| Other | | 75 |
| HOLDERS BY AGE | | |
| Holdings, total | | 11 504 |
| Under 20 years of age | | 265 |
| 20 to 30 years of age | | 2 148 |
| 31 to 45 years of age | | 3 613 |
| 46 to 60 years of age | | 3 017 |
| 60 years of age and over | | 2 461 |
| HOLDERS BY SEX | | |
| Holdings, total | | 11 504 |
| Male | | 8 672 |
| Female | | 2 832 |
| HOLDERS BY TYPE OF ACTIVITY | | |
| Holdings engaged mainly: | | |
| In agricultural work on the holding | | 7 455 |
| In non agricultural work | | 4 096 |
| HOLDINGS BY NUMBER OF PERSONS | | |
| Holdings reporting | | 11 504 |
| Holdings with: | | |
| 1 person | | 239 |
| 2 to 3 persons | | 2 708 |
| 4 to 5 persons | | 2 906 |
| 6 to 9 persons | | 3 656 |
| 10 persons and over | | 995 |
| EMPLOYMENT | | |
| Total number of workers | | 13 345 |
| Household members | | 7 114 |
| Hired workers | | 4 963 |
| Others | | 1 268 |
| LAND USE (area) | | |
| Agricultural land | | 19 768 |
| Cropland | | 19 151 |
| Arable land | | 3 300 |
| Land under temporary crops | | 1 246 |
| Land temporarily fallow | | 2 054 |
| Land under permanent crops | | 15 851 |
| Land under perm. meadows/pastures | | 617 |
| Wood or forest land | | 3 368 |
| All other land | | 342 |

| CROPS, PERMANENT | |
|--------------------------|------------|
| Sweet oranges | |
| Holdings reporting | 4 036 |
| Area | 364 |
| Number of trees / plants | 56 000 |
| Limes | |
| Holdings reporting | 3 167 |
| Area | 81 |
| Number of trees / plants | 14 500 |
| Avocados | |
| Holdings reporting | 4 379 |
| Area | 162 |
| Number of trees / plants | 25 100 |
| Grapefruits | |
| Holdings reporting | 3 578 |
| Area | 243 |
| Number of trees / plants | 32 000 |
| Bananas | |
| Holdings reporting | 6 857 |
| Area | 5 342 |
| Number of trees / plants | 11 839 400 |
| Plantains | |
| Holdings reporting | 5 640 |
| Area | 162 |
| Number of trees / plants | 329 300 |
| Coffee | |
| Holdings reporting | 2 659 |
| Area | 40 |
| Number of trees / plants | 42 100 |
| Cocoa | |
| Holdings reporting | 3 214 |
| Area | 283 |
| Number of trees / plants | 219 300 |
| Coconut | |
| Holdings reporting | 7 862 |
| Area | 5 018 |
| Number of trees / plants | 846 200 |
| Mangoes | |
| Holdings reporting | 6 569 |
| Area | 486 |
| Number of trees / plants | 80 200 |
| Breadfruit | |
| Holdings reporting | 6 438 |
| LIVESTOCK | |
| Cattle | |
| Animals | 8 500 |
| Sheep | |
| Holdings reporting | 2 892 |
| Animals | 10 900 |
| Goats | |
| Holdings reporting | 1 658 |
| Animals | 6 600 |
| Pigs | |
| Animals | 7 500 |
| Poultry | |
| Animals | 52 800 |
| Rabbits | |
| Holdings reporting | 375 |
| Animals | 2 400 |
| Beehives | |
| Holdings reporting | 30 |
| Units | 400 |

ST. KITTS and NEVIS - Agricultural Census 1987 - Explanatory Notes

Historical outline: In 1930 and 1950, information on agricultural aspects of St. Kitts and Nevis, then part of the Windward Islands, was collected through special estimates. Other agricultural censuses were undertaken in 1975 and in 1987. Data here presented refer to the 1987 Agricultural Census.

Organization: The Ministry of Agriculture, Lands, Housing and Development was the government agency responsible for the agricultural census project. The Central Planning Unit, advised on the overall management of the census by the Census Committee, was the office responsible for census operations. Census Officer was appointed the Chief Statistician of the Statistical Division, Planning Unit. The field work was directed by a General Census Coordinator selected from the Central Planning Unit staff, and was conducted by 20 supervisors and 90 enumerators. The Government of St. Kitts and Nevis received, upon request, technical assistance from the Food and Agriculture Organization of the UN. Required assistance for conducting the census was also provided by the UN Development Programme.

Enumeration period: The National Cabinet approved 14 July 1987 as the starting date for the Census of Agriculture.

Reference date: Data on crops and employment refer to the agricultural year August 1986 - July 1987, while data on land use, livestock, farm population and all other census items refer to the enumeration day.

Definition:

The agricultural holding is considered an economic unit of agricultural production satisfying, at the day of enumeration, at least one of the following minimum specifications:

- one head of cattle, donkey or horse;
- two head of pigs, sheep, goats (or one head of any two);
- twelve head of poultry of any types;
- ten crop trees of productive age;
- 0.04 Ha of land under any crops.

Coverage: The census covered the entire country.

Frame: The 9 Parishes (administrative subdivisions) of St. Kitts Island, and the 5 Parishes of Nevis Island, were divided into 90 Agricultural Census Enumeration Areas (ACEAs), each one assigned to an enumerator. A "Households List" reporting all households, agricultural or nonagricultural, in every ACEA, was completed and/or updated during the enumeration.

Methods: Complete enumeration of all holdings was carried out through an island-wide house-to-house visitations operation; data were collected by enumerators through direct interview: enumerators canvassed every house or settlement inside the assigned ACEA, and collected information to identify those households satisfying the above mentioned definition of agricultural holding. Information on Fishing Activities was collected during the same interviews and reported on a separate questionnaire.

Data source: TCP/STK/6652 - Report by H. Sobers, Consultant, UNDP - Sample tables resulting from the agricultural census - April 1988

Mailing address: Government of Saint Kitts and Nevis, Ministry of Lands, Housing and Agriculture - P.O. Box 186, Basseterre, St. Kitts - Tel. 00854 465 2521(Min); Fax 00854 465 5202 .

ST. KITTS and NEVIS - Agricultural Census 1987 - Primary Results

Area: in hectares

| NUMBER OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING (1) | |
|---|--------|
| Size classes | Number |
| All holdings | 3 269 |
| Under 1.2 Ha | 2 945 |
| 1.2 - 2.02 Ha | 205 |
| 2.02 - 3.03 Ha | 67 |
| 3.03 - 4 Ha | 13 |
| 4 - 10.1 Ha | 16 |
| 10.1 Ha and over | 23 |
| AREA OF HOLDINGS | |
| Total area | 8 870 |
| TENURE (area) | |
| Area owned or in ownerlike possession | 7 276 |
| Area rented from others | 685 |
| For an agreed amount of money/produce | 666 |
| In exchange for services | 19 |
| Area operated on squatter basis | 261 |
| Area under other forms of tenure | 648 |
| LEGAL STATUS | |
| Holdings operated by: | |
| An individual or a household | 3 269 |
| Two or more individuals or households | 82 |
| Corporation | 4 |
| Government | 27 |
| Others | 48 |
| HOLDERS BY AGE | |
| Holdings, total | 3 269 |
| Under 35 years of age | 664 |
| 35 to 44 years of age | 483 |
| 45 to 54 years of age | 505 |
| 55 to 64 years of age | 617 |
| 65 years of age and over | 945 |
| Holders of age not stated | 55 |
| EMPLOYMENT | |
| Household members, total | 14 361 |
| Household members engaged in agricultural work on the holding | |
| Total | 2 415 |
| Male | 1 434 |
| Female | 981 |
| Household members engaged in work off the holding | |
| Total | 4 409 |
| Male | 2 428 |
| Female | 1 981 |
| Household members not economically active | 7 537 |
| LAND USE (area) | |
| Agricultural land | 7 430 |
| Cropland | 5 806 |
| Arable land | 4 802 |
| Land under temporary crops | 4 104 |
| Land temporarily fallow | 698 |
| Land under permanent crops | 1 004 |
| Land under perm. meadows/pastures | 1 624 |
| Wood or forest land | 966 |
| All other land | 474 |

| IRRIGATION | |
|---------------------------------|-------|
| Normally irrigated land | |
| Holdings reporting | 783 |
| Area | 202 |
| CROPS, TEMPORARY (area) | |
| Maize | 33 |
| Sweet potatoes | 315 |
| Cassava | 25 |
| Yams | 257 |
| Cotton | 49 |
| Cabbages | 253 |
| Eggplant | 285 |
| LIVESTOCK | |
| Cattle, total | |
| Holdings reporting | 688 |
| Animals | 3 510 |
| Cattle under 1 year of age | 948 |
| Cattle 1 - 2 years of age | |
| Total | 920 |
| Male | 309 |
| Female | 611 |
| Cattle 2 years of age and over | |
| Total | 1 642 |
| Male | 274 |
| Female | 1 368 |
| Sheep | |
| Holdings reporting | 948 |
| Animals | 7 591 |
| Sheep under 1 year of age | 2 474 |
| Sheep 1 year of age and over | |
| Total | 5 117 |
| Male | 979 |
| Female | 4 138 |
| Goats | |
| Holdings reporting | 831 |
| Animals | 6 107 |
| Goats under 1 year of age | 2 412 |
| Goats 1 year of age and over | |
| Total | 3 695 |
| Male | 671 |
| Female | 3 024 |
| Pigs | |
| Holdings reporting | 1 323 |
| Animals | 3 694 |
| Pigs under 6 months of age | 1 728 |
| Pigs 6 months of age and over | |
| Total | 1 966 |
| Male | 719 |
| Female | 1 247 |
| FERTILIZERS / PESTICIDES | |
| Chemical fertilizers | |
| Holdings reporting use | 425 |
| Pesticides | |
| Holdings reporting use | 404 |

(1) Excluding 161 joint-operated holdings.

ST. VINCENT and the GRENADINES - Agricultural Census 1986 - Explanatory Notes

Historical outline: Information on agricultural aspects of St. Vincent and the Grenadines, then part of the Leeward Islands, was collected through special estimates in 1930 and 1950; another agricultural census was undertaken in 1946, followed by two sample censuses carried out in 1961 and 1972; lastly, a complete enumeration census, to which data here presented refer, was undertaken in 1985-86.

Organization: The Ministry of Agriculture, Industry and Labour, was appointed as the authority for the census of agriculture. A Chief Census Officer, and two assistants were appointed to supervise census operations. An Interministerial Agricultural Census Committee was formed to give policy guidance to those responsible for the census. The agricultural census was supported by a grant from the United States Agency for International Development (USAID). Part of the technical assistance was provided by a full-time census statistician and some short-term consultants, who advised on technical aspects of the design and execution of the census. The field work was carried out by 30 supervisors and 150 enumerators.

Enumeration period: The Government of St. Vincent and the Grenadines proclaimed 15 May 1986 as Census Day for the 1985-86 Agricultural Census. The enumeration period was 15 May to 15 June 1986.

Reference date:

Time reference was:

- The agricultural year 1 April 1985 to 31 March 1986 for the following items: Hired permanent and occasional workers, area sown or harvested, irrigation, fertilizers and pesticides.
- The week ending on the enumeration day for household members' type of activity.
- The enumeration day for holder and holding characteristics, fragmentation, tenure, legal status, land use, permanent crops, livestock, number of machinery.

Definitions:

- The agricultural holding is considered an economic unit of agricultural production satisfying at least one of the following minimum specifications:
 - one head of cattle;
 - two head of pigs, sheep, goats (or one head of any two);
 - twelve head of poultry of any types;
 - ten of any tree crop, bananas or plantains, of productive age;
 - 0.05 Ha of land under any crops.
- Large or Specialized Farms are those reporting:
 - at least 8.1 Ha, or
 - at least 10 milk animals, or
 - at least 200 head of poultry;
 - nurseries and greenhouses growing stock for sale;
 - special livestock breeding farms;
 - government experimental farms;
 - farms belonging to institutions.

Coverage: The census covered the entire country.

Frame: St. Vincent and the Grenadines consist of 13 administrative units called Divisions, which were, for census purposes, divided into 150 enumeration districts (EDs). All households in every ED were listed by enumerators in the Listing Book. Prior to the field work, a list of Large and/or Specialized Farms was also prepared.

Methods: Complete enumeration of all holdings was carried out. Data were collected by enumerators through direct interview: enumerators canvassed every household inside the assigned ED, filling in the agricultural questionnaire for those households satisfying the definition of agricultural holding.

Data source: Ministry of Agriculture, Industry and Labour, 1985-86 Agricultural Census for St. Vincent and the Grenadines, July 1989.

Mailing address: Ministry of Agriculture, Industry and Labour - Murray's Road, Kingstown, St. Vincent - Tel. 00854 45 61410; Fax 00854 45 71688.

ST. VINCENT and the GRENADINES - Agricultural Census 1986 - Primary results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|--------|--------|
| Size classes | Number | Area |
| All holdings | 8 860 | 12 017 |
| Holdings without land | 2 061 | 0 |
| Under 0.1 Ha | 488 | 20 |
| 0.1 - 0.2 Ha | 921 | 95 |
| 0.2 - 1 Ha | 3 479 | 1 666 |
| 1 - 2 Ha | 974 | 1 288 |
| 2 - 4 Ha | 672 | 1 642 |
| 4 - 10 Ha | 180 | 968 |
| 10 - 20.2 Ha | 35 | 480 |
| 20.2 - 40.5 Ha | 16 | 436 |
| 40.5 - 101.2 Ha | 21 | 1 233 |
| 101.2 - 202.3 Ha | 4 | 475 |
| 202.3 Ha and over | 9 | 3 714 |
| TENURE (1) | | |
| Holdings under one form of tenure | | |
| Holdings | | 6 334 |
| Area | | 9 591 |
| Holdings owned or in ownerlike possession | | |
| Holdings | | 4 763 |
| Area | | 8 120 |
| Holdings rented from others, total | | |
| Holdings | | 1 094 |
| Area | | 1 083 |
| For an agreed amount of money/produce | | |
| Holdings | | 939 |
| Area | | 955 |
| For a share of produce | | |
| Holdings | | 155 |
| Area | | 128 |
| Holdings operated on squatter basis | | |
| Holdings | | 298 |
| Area | | 318 |
| Holdings under other single forms of tenure | | |
| Holdings | | 179 |
| Area | | 70 |
| Holdings under more than one form of tenure | | |
| Holdings | | 465 |
| Area | | 2 426 |
| HOLDERS BY AGE | | |
| Holdings, total | | 8 676 |
| Under 34 years of age | | 2 859 |
| 35 to 44 years of age | | 1 660 |
| 45 to 54 years of age | | 1 520 |
| 55 to 64 years of age | | 1 454 |
| 65 years of age and over | | 1 183 |
| HOLDERS BY TYPE OF ACTIVITY | | |
| Holdings, total | | 8 381 |
| Holdings engaged mainly: | | |
| in agricultural work on the holding | | 7 102 |
| Permanent | | 5 016 |
| Occasional | | 2 086 |
| in work off the holding | | 1 279 |
| FARM POPULATION | | |
| Household members, total | | 41 821 |
| Male | | |
| Under 12 years of age | | 6 627 |
| 12 to 24 years of age | | 3 019 |
| 25 to 34 years of age | | 1 592 |
| 35 to 44 years of age | | 1 264 |
| 45 to 54 years of age | | 1 184 |
| 55 to 64 years of age | | 1 079 |
| 65 years of age and over | | 6 453 |
| Female | | |
| Under 12 years of age | | 6 060 |
| 12 to 24 years of age | | 2 692 |
| 25 to 34 years of age | | 1 703 |
| 35 to 44 years of age | | 1 473 |
| 45 to 54 years of age | | 1 228 |
| 55 to 64 years of age | | 1 076 |
| 65 years of age and over | | 6 371 |

| EMPLOYMENT | |
|--|--------|
| Household members engaged in agricultural work on the holding | |
| Total | 12 598 |
| Male | 7 567 |
| Female | 5 031 |
| Household members engaged in work off the holding | |
| Total | 3 389 |
| Male | 1 718 |
| Female | 1 671 |
| Household members not economically active | |
| Total | 6 853 |
| Male | 2 443 |
| Female | 4 410 |
| LAND USE (area) | |
| Cropland | 10 116 |
| Arable land | 3 615 |
| Land under temporary crops | 1 625 |
| Land under temporary meadows | 913 |
| Land temporarily fallow | 927 |
| All other arable land | 150 |
| Land under permanent crops | 6 501 |
| Wood or forest land | 1 484 |
| All other land | 417 |
| CROPS, TEMPORARY | |
| Maize | |
| Holdings reporting | 719 |
| Area | 93 |
| Sweet potatoes | |
| Holdings reporting | 1 371 |
| Area | 606 |
| Taro (cocoyam) | |
| Holdings reporting | 1 584 |
| Area | 959 |
| Yams | |
| Holdings reporting | 885 |
| Area | 406 |
| Groundnuts | |
| Holdings reporting | 404 |
| Area | 167 |
| CROPS, PERMANENT (holdings reporting) | |
| Coconuts | 1 857 |
| Bananas | 3 263 |
| Plantains | 1 380 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 1 650 |
| Animals | 4 368 |
| Sheep | |
| Holdings reporting | 2 817 |
| Animals | 10 587 |
| Goats | |
| Holdings reporting | 1 896 |
| Animals | 6 616 |
| Pigs | |
| Holdings reporting | 654 |
| Animals | 1 851 |
| Chickens | |
| Animals | 42 086 |

(1) Excluding 2 061 holdings without land.

U.S.A. - Agricultural Census 1987 - Explanatory Notes

Historical outline: The 1987 Census of Agriculture was the 23rd undertaken in the United States of America. The first agricultural census was taken in 1840 as part of the sixth decennial census of population. From 1840 to 1950, agricultural censuses were taken every ten years, while from 1954 to 1974 agricultural censuses were taken every five years, for years ending in 4 and 9. In 1976 an adjustment in timing was established, to let agricultural censuses coincide with economic censuses; for this reason collection of data was established on a 5 year cycle, for years ending in 2 and 7.

Organization: The 1987 Census of Agriculture was carried out by an agency of the US Department of Commerce: the US Bureau of the Census. The Agriculture Division was the division, of the Bureau of the Census, mostly involved in census undertaking; collaboration was also given by the Economic and Programming Division, the Field Division, the Data Preparation Division, and various Data Processing and Publication Divisions.

Enumeration period: The mailout/mailback enumeration method (adopted in the 50 states for the first time in 1969) started with an initial mailing of questionnaires between 16 and 21 December 1987. A reminder card and five followup mailings were carried out at 1-month intervals between January and June 1988.

Reference date: The reference dates/periods are: 31 December 1987 for inventory data, and the calendar year 1987 for data on production.

Definition: A farm is any place involved in agricultural operations under the day-to-day control of an individual or a management, having US \$1000 or more in total value of sales of agricultural products, during the reference year.

Coverage: The census covered all places meeting the farm definition in the 50 states.

Frame: The Census Bureau compiled the mailing list for the 1987 Census of Agriculture from mail lists of previous censuses and from current administrative records of various federal agencies concerned with agriculture. The list was integrated with additional addresses drawn from the National Agricultural Statistics Service (NASS) and the Internal Revenue Service (IRS).

Methods: The mailout/mailback enumeration method required compilation of a mailing list of names and addresses of possible agricultural operators. The mailing list was organized by state in eight geographic segments. The Census Bureau assembled a list of over 16 million possible farm addresses, which were subsequently reduced to approximately 4.1 million addresses. An initial mailing of questionnaires was carried out, followed by a reminder/thank you card and five followup mailings. A telephone followup operation was used for selected large nonrespondent operations. As a result, a total of 2,087,759 farms were enumerated.

Data source: US Department of Commerce, Economics and Statistics Administration, Bureau of the Census - 1987 Census of Agriculture - United States - Vol.1, Part 51 - November 1989.

Mailing address: Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233; Tel. (301) 763-1113 (General Information).

U.S.A. - Agricultural Census 1987 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|-----------|-------------|
| Size classes | Number | Area |
| All holdings | 2 087 759 | 390 311 617 |
| 0.4 - 4 Ha | 183 257 | 272 630 |
| 4 - 20.2 Ha | 412 437 | 4 476 213 |
| 20.2 - 56.7 Ha | 488 112 | 17 438 750 |
| 56.7 - 105.2 Ha | 348 825 | 26 792 985 |
| 105.2 - 202.4 Ha | 286 206 | 41 649 371 |
| 202.4 - 404.7 Ha | 200 058 | 56 066 105 |
| 404.7 - 809.4 Ha | 102 078 | 56 174 838 |
| 809.4 Ha and over | 66 786 | 187 440 725 |
| TENURE | | |
| Holdings operated under one form of tenure | | |
| Holdings | | 1 478 747 |
| Area | | 179 947 878 |
| Holdings owned or in ownerlike possession | | |
| Holdings | | 1 238 547 |
| Area | | 128 605 281 |
| Holdings rented from others | | |
| Holdings | | 240 200 |
| Area | | 51 342 597 |
| Holdings under more than one form of tenure | | |
| Holdings | | 609 012 |
| Area | | 210 363 739 |
| LEGAL STATUS | | |
| Holdings operated by: | | |
| An individual or a household | | |
| Holdings | | 1 809 324 |
| Area | | 253 940 639 |
| Two or more individuals or households | | |
| Holdings | | 199 559 |
| Area | | 62 032 194 |
| Corporation | | |
| Holdings | | 66 969 |
| Area | | 48 336 320 |
| Other | | |
| Holdings | | 11 907 |
| Area | | 26 002 464 |
| HOLDERS BY AGE | | |
| Holdings, total | | 2 087 759 |
| Under 25 years of age | | 35 851 |
| 25 to 34 years of age | | 242 688 |
| 35 to 44 years of age | | 411 153 |
| 45 to 54 years of age | | 454 910 |
| 55 to 64 years of age | | 495 816 |
| 65 years of age and over | | 447 341 |
| HOLDERS BY SEX | | |
| Holdings, total | | 2 087 759 |
| Male | | 1 956 118 |
| Female | | 131 641 |
| LAND USE (area) | | |
| Agricultural land | | 345 462 550 |
| Cropland, total | | 179 406 456 |
| Harvested cropland | | 114 213 182 |
| Pastured cropland | | 26 296 721 |
| Other cropland | | 38 896 552 |
| Land under perm. meadows/pastures | | 166 056 094 |
| Wood or forest land | | 32 332 504 |
| All other land | | 12 516 563 |
| IRRIGATION | | |
| Holdings reporting | | 291 628 |
| Area | | 18 772 032 |
| CROPS, TEMPORARY (holdings reporting) | | |
| Maize for grain | | 627 602 |
| Maize for silage | | 160 544 |

| CROPS, TEMPORARY (holdings reporting) (cont'd) | |
|--|-------------|
| Wheat | 352 237 |
| Barley | 89 948 |
| Sorghum | 89 642 |
| Oats | 206 192 |
| Rice | 12 013 |
| Cotton | 43 046 |
| Tobacco | 136 682 |
| Soybeans | 441 899 |
| Potatoes | 14 782 |
| Groundnuts | 18 905 |
| CROPS, PERMANENT (holdings reporting) | |
| Apples | 36 710 |
| Avocados | 6 902 |
| Grapes | 23 236 |
| Plums / Prunes | 8 789 |
| Grapefruit | 4 998 |
| Oranges | 14 312 |
| Pecan nuts | 21 431 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 1 176 346 |
| Animals, total | 95 847 299 |
| Male | 27 730 528 |
| Female | 68 116 771 |
| For milk production | 10 084 697 |
| Pigs | |
| Holdings reporting | 243 398 |
| Animals | 52 271 120 |
| Sheep | |
| Holdings reporting | 92 489 |
| Animals | 11 059 397 |
| Goats | |
| Holdings reporting | 45 032 |
| Animals | 2 246 587 |
| Horses | |
| Holdings reporting | 415 565 |
| Animals | 2 456 951 |
| Chickens | |
| Holdings reporting | 144 438 |
| Animals | 375 577 186 |
| MACHINERY / EQUIPMENT | |
| Wheel tractors | |
| Holdings reporting | 1 842 654 |
| Units | 4 609 388 |
| Harvester-threshers (combines) | |
| Holdings reporting | 568 846 |
| Units | 667 128 |
| Mowers | |
| Holdings reporting | 585 603 |
| Units | 652 193 |
| Balers | |
| Holdings reporting | 702 477 |
| Units | 822 927 |
| Motortrucks | |
| Holdings reporting | 1 808 431 |
| Units | 3 437 042 |
| FERTILIZERS / PESTICIDES | |
| Chemical fertilizers | |
| Holdings reporting use | 1 379 259 |

VIRGIN ISLANDS (US) - Agricultural Census 1987 - Explanatory Notes

Historical outline: The United States purchased the Virgin Islands from Denmark in 1917, and conducted a special census that included agriculture the same year. The second census of agriculture in the Islands was carried out in 1930 when the Federal Government incorporated the Islands into the general decennial census programme. In 1964, Virgin Islands of the US were included in the quinquennial agricultural census plan.

Organization: In December 1987, the Commissioner of Agriculture for the US Virgin Islands, and the US Bureau of the Census, signed an agreement for undertaking a census of agriculture: the Bureau of the Census agreed to provide technical assistance at various levels, and the Territorial Government accepted responsibility for recruiting and training local office and field staff and supervising local administrative matters. The Agriculture Division of the Bureau of the Census conducted both Agriculture and Economic Census in the US Virgin Islands. A census office was lent by the Department of Economic Development and Agriculture in Charlotte Amalie, St. Thomas. The census staff was composed of 1 project manager, 2 crew leaders, 1 office clerk and 6 enumerators.

Enumeration period: The census was carried out July to August 1988, immediately after the economic enumeration closure.

Reference date: The reference dates/periods are: the enumeration day for Inventory data, and the 12 month period between 1 July 1987 and 30 June 1988 for data on Production.

Definitions:

- Farm is any place that had sales of US \$100 or more of agricultural products during the census year.
- Special Farm is a "large holding" having a minimum annual sales of agricultural products of US \$500, or having at least 20 acres (8.1 Ha) of land.

Coverage: The census covered the entire country.

Frame: Lists of households in each Enumeration District (ED) were used on the basis of those already prepared for the 1982 Agriculture Census and the 1980 Census of Population and Housing. A list of probable Special Farms, identified using 1982 Agriculture Census lists and information from the local Department of Agriculture, was also prepared.

Methods: As in the previous censuses of the U.S. Virgin Islands, the direct enumeration procedure was used in 1987 Census of Agriculture. The collection of data, which lasted from July until the middle of August 1988, was carried out in the six Enumeration Districts (EDs) into which the Islands were divided for census purposes. Each ED was clearly delineated on special maps ad hoc prepared. An enumerator was assigned to each ED. The complete enumeration of all agricultural operations in each ED was carried out through direct interview. The enumerators were also given lists of Special Farms located in each ED. As a result of the field operations, a total of 267 farms was enumerated.

Data source: US Department of Commerce, Bureau of the Census - 1987 Census of Agriculture - Virgin Islands of the United States - Vol.1, Part 54 - May 1989.

Mailing address: Data User Services Division, Customer Services, Bureau of the Census, Washington DC 20233; Tel. (301) 763-1113 (General Information).

VIRGIN ISLANDS (US) - Agricultural Census 1987 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|--------|-------|
| Size classes | Number | Area |
| All holdings | 267 | 7 197 |
| Under 1.2 Ha | 80 | 45 |
| 1.2 - 4 Ha | 81 | 185 |
| 4 - 8.1 Ha | 32 | 165 |
| 8.1 - 20.2 Ha | 37 | 451 |
| 20.2 - 40.5 Ha | 16 | 485 |
| 40.5 - 70.8 Ha | 6 | 299 |
| 70.8 - 105.2 Ha | 4 | 350 |
| 105.2 - 202.3 Ha | 5 | 733 |
| 202.3 - 404.7 Ha | 3 | 824 |
| 404.7 Ha and over | 3 | 3 660 |
| TENURE | | |
| Holdings operated under one form of tenure | | |
| Holdings | | 231 |
| Area | | 3 166 |
| Holdings owned or in ownerlike possession | | |
| Holdings | | 208 |
| Area | | 2 739 |
| Holdings rented from others | | |
| Holdings | | 23 |
| Area | | 427 |
| Holdings under more than one form of tenure | | |
| Holdings | | 36 |
| Area | | 4 031 |
| HOLDERS BY AGE | | |
| Holdings, total | | 267 |
| Under 25 years of age | | 1 |
| 25 to 34 years of age | | 19 |
| 35 to 44 years of age | | 34 |
| 45 to 54 years of age | | 63 |
| 55 to 64 years of age | | 65 |
| 65 years of age and over | | 85 |
| HOLDERS BY TYPE OF ACTIVITY | | |
| Holdings engaged mainly: | | |
| In agricultural work on the holding | | 159 |
| In work off the holding | | 108 |
| LAND USE (area) | | |
| Agricultural land | | 6 187 |
| Cropland | | 769 |
| Harvested cropland | | 246 |
| Other cropland | | 522 |
| Land under perm. meadows/pastures | | 5 419 |
| Wood or forest land | | 743 |
| All other land | | 267 |
| CROPS, TEMPORARY (area) | | |
| Tomatoes | | 6 |
| Okra | | 4 |
| Squash | | 3 |
| Sweet potatoes | | 3 |
| Lettuce | | 3 |
| Green peppers | | 3 |
| Cucumbers | | 2 |
| Eggplant | | 2 |
| Beans, dry edible | | 2 |
| Maize | | 1 |
| Onions | | 1 |
| Yams | | 1 |
| Cabbages | | 1 |
| Celery | | 1 |
| Spinach | | 1 |
| Taniers | | 1 |
| Carrots | | 1 |
| CROPS, PERMANENT | | |
| Avocados | | 137 |
| Holdings reporting | | |
| Trees | | 2 256 |

| CROPS, PERMANENT (cont'd) | |
|-------------------------------|-------|
| Bananas | |
| Holdings reporting | 120 |
| Coconut | |
| Holdings reporting | 123 |
| Trees | 5 204 |
| Grapefruit | |
| Holdings reporting | 49 |
| Trees | 416 |
| Lemons / Limes | |
| Holdings reporting | 116 |
| Trees | 1 292 |
| Mangoes | |
| Holdings reporting | 146 |
| Trees | 3 852 |
| Oranges | |
| Holdings reporting | 57 |
| Trees | 1 004 |
| Papayas | |
| Holdings reporting | 76 |
| Trees | 1 287 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 95 |
| Animals | 5 078 |
| Cattle under 1 year of age | 961 |
| Cattle 1 year of age and over | |
| Total | 4 117 |
| Male | 488 |
| Female | 3 629 |
| Pigs | |
| Holdings reporting | 62 |
| Animals | 2 536 |
| Pigs under 8 months of age | |
| Holdings reporting | 56 |
| Animals | 1 378 |
| Pigs 8 months of age and over | |
| Holdings reporting | 58 |
| Animals | 1 158 |
| Sheep | |
| Holdings reporting | 54 |
| Animals | 3 134 |
| Goats | |
| Holdings reporting | 93 |
| Animals | 3 315 |
| Horses | |
| Holdings reporting | 28 |
| Animals | 224 |
| Chickens | |
| Holdings reporting | 65 |
| Animals | 5 326 |
| MACHINERY / EQUIPMENT | |
| Tractors | |
| Holdings reporting | 44 |
| Units | 76 |
| Trucks | |
| Holdings reporting | 145 |
| Units | 174 |

ARGENTINA - Agricultural Census 1988 - Explanatory Notes

Historical outline: Eleven agricultural censuses have been conducted in Argentina: in 1888, 1895, 1908, 1914, 1937, 1947, 1952, 1960, 1970, 1974, and 1988.

Organization: The Argentine Republic is organized as a federal nation consisting of 23 autonomous provinces subdivided, in turn, into 502 departments and a federal district comprising the capital city of Buenos Aires. The same structure is reported in the field of national and provincial statistics: the National Institute for Statistics and Censuses (INDEC) is the federal agency responsible for data collection and for the planning and coordination of national statistical surveys, while each province operates its own statistical bureau (DPE) as a provincial government agency. The INDEC and every DPE are formally linked into the National Statistical System (SEN) and their activities are closely coordinated. As a result, the 1988 census of agriculture was carried out according to an organizational pattern of centralized norms and decentralized operations. The field work was carried out by 24 coordinators at provincial level, 42 subcoordinators, 158 chief supervisors, 888 supervisors and 4136 enumerators.

Enumeration period: The census enumeration was conducted during September - November 1988 and lasted for about forty days.

Reference date: Data on livestock numbers, buildings and similar structures, number of machinery and other inventory items, refer to 30 June 1988. All other data refer to the agricultural year 1 July 1987 - 30 June 1988.

Definition: The adopted statistical unit was the Agricultural Holding (EAP), defined as a market-oriented production unit over 500 square meters in area, made up of one or more related parcels and having a holder, who assumes the entrepreneurial risk, responsible for its management; the same labour force, and most of the durable equipment and machinery, should be commonly employed in all the EAP's parcels.

Coverage: The census covered the entire country, with the exclusion of urban areas and desert zones unfit to agricultural use.

Frame: The lack of a complete and updated directory of statistical units was compensated by the development of an adequate cartography, together with the use of cadastral registers indicating land ownership. The census universe was subdivided into territorial units, called census segments, whose boundaries were defined through mapping and through the analysis of cadastral subdivisions.

Methods: Complete enumeration of all holdings was carried out based on direct face-to-face interviews; each enumerator was assigned a census segment, defined in order to permit an average of 5 interviews per day, with a total per enumerator of 160 interviews in a 40-day period. Four different types of questionnaires were adopted in relation to the different characteristics of the territory. In marginal or difficult access zones, it was considered less expensive to call agricultural holders to selected enumeration points for interview, instead of the enumerators travelling to the holdings.

Data source: Instituto Nacional de Estadística y Censos (INDEC) - Censo Nacional Agropecuario 1988 - Resultados Generales.

Mailing address: INDEC, Instituto Nacional de Estadística y Censos - Hipolito Yrigoyen 250 - Piso 12, (1310) Buenos Aires, República Argentina.

ARGENTINA - Agricultural Census 1988 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING (1) | | |
|---|---------|-------------|
| Size classes | Number | Area |
| All holdings | 378 357 | 177 437 398 |
| Under 5 Ha | 57 057 | 148 000 |
| 5 - 10 Ha | 31 680 | 247 140 |
| 10 - 25 Ha | 52 938 | 942 054 |
| 25 - 50 Ha | 45 265 | 1 724 033 |
| 50 - 100 Ha | 48 006 | 3 646 960 |
| 100 - 200 Ha | 47 083 | 6 929 412 |
| 200 - 500 Ha | 47 772 | 15 290 155 |
| 500 - 1000 Ha | 21 101 | 14 870 541 |
| 1000 Ha and over | 27 455 | 133 639 103 |
| FRAGMENTATION OF HOLDINGS | | |
| Holdings with: | | |
| 1 parcel | | 237 483 |
| 2 to 3 parcels | | 109 597 |
| 4 to 6 parcels | | 25 222 |
| 7 parcels and over | | 6 055 |
| TENURE | | |
| Holdings operated under one form of tenure | | |
| Holdings | | 324 144 |
| Area | | 147 971 544 |
| Holdings owned or in ownerlike possession | | |
| Holdings | | 273 323 |
| Area | | 133 945 128 |
| Holdings rented from others | | |
| Holdings | | 26 186 |
| Area | | 8 244 686 |
| Holdings operated on squatter basis | | |
| Holdings | | 22 600 |
| Area | | 4 832 530 |
| Holdings under other single forms of tenure | | |
| Holdings | | 2 035 |
| Area | | 949 200 |
| Holdings under more than one form of tenure | | |
| Holdings | | 54 213 |
| Area | | 29 465 854 |
| LEGAL STATUS | | |
| Holdings operated by: | | |
| An individual or a household | | |
| Holdings | | 294 507 |
| Area | | 91 730 201 |
| Corporation | | |
| Holdings | | 81 588 |
| Area | | 82 284 430 |
| Cooperative | | |
| Holdings | | 246 |
| Area | | 101 276 |
| Government | | |
| Holdings | | 551 |
| Area | | 863 246 |
| Other | | |
| Holdings | | 1 465 |
| Area | | 2 458 245 |
| FARM POPULATION BY AGE | | |
| Household members, total | | 1 447 365 |
| Under 15 years of age | | 390 120 |
| 15 and up to 59 years of age | | 915 194 |
| 60 years of age and over | | 142 051 |
| FARM POPULATION BY SEX | | |
| Household members, total | | 1 447 365 |
| Male | | 856 840 |
| Female | | 590 525 |
| EMPLOYMENT | | |
| Household members engaged in agricultural work on the holding | | |
| Total | | 1 032 215 |
| Male | | 851 743 |
| Female | | 180 472 |

| IRRIGATION | |
|-----------------------------------|-------------|
| Normally irrigated land | |
| Holdings reporting | 80 857 |
| Area | 1 246 748 |
| LAND USE (area) | |
| Agricultural land | 120 893 990 |
| Cropland | 20 905 977 |
| Arable land | 19 881 257 |
| Land under temporary crops | 13 804 778 |
| Land under temporary meadows | 5 788 950 |
| All other arable land | 287 529 |
| Land under permanent crops | 1 024 720 |
| Land under perm. meadows/pastures | 99 988 013 |
| Wood or forest land | 37 732 552 |
| All other land, total | 18 810 856 |
| Unused and potentially productive | 6 484 949 |
| Not classified elsewhere | 12 325 907 |
| CROPS, TEMPORARY (area) | |
| Wheat | 3 963 695 |
| Rice | 97 413 |
| Maize | 2 402 341 |
| Barley | 100 494 |
| Oats | 379 533 |
| Rye | 40 415 |
| Millet | 62 272 |
| Sorghum | 796 981 |
| Potatoes | 74 157 |
| Sweet potatoes | 16 118 |
| Cassava | 15 532 |
| Sugar cane | 3 061 218 |
| CROPS, PERMANENT (area) | |
| Oranges | 45 985 |
| Mandarins | 27 543 |
| Lemons | 24 367 |
| Pomelos | 8 535 |
| Apples | 48 977 |
| Pears | 18 534 |
| Quinces | 2 347 |
| Cherries | 1 527 |
| Sour cherries | 83 |
| Peaches | 30 208 |
| Plums | 15 739 |
| Grapes | 222 967 |
| Strawberries | 1 110 |
| Bananas | 9 608 |
| Figs | 155 |
| Pineapples | 783 |
| Almonds | 1 620 |
| Hazelnuts | 51 |
| Chestnuts | 119 |
| Walnuts | 10 113 |
| Tea | 42 900 |
| Yerba Mate | 192 857 |
| Hops | 477 |
| Olives | 20 803 |
| Tung nuts | 33 404 |
| Cardamon | 7 228 |
| Black Pepper | 6 944 |
| LIVESTOCK (head) | |
| Cattle | 47 075 156 |
| Sheep | 22 408 681 |
| Goats | 3 710 065 |
| Pigs | 3 341 652 |
| Horses | 1 994 241 |
| Mules / Asses | 130 625 |
| Llamas / Alpacas / Vicunas | 154 403 |
| MACHINERY / EQUIPMENT (units) | |
| 4-Wheel tractors | 267 782 |
| Harvesters-threshers (combines) | 28 972 |

(1) Excluding 42 864 holdings with undefined boundaries.

COLOMBIA - Agricultural Census 1988 - Explanatory Notes

Historical outline: An attempt to conduct a census of agriculture in Colombia was made in 1951 but, due to several difficulties, the census was not accomplished. In 1960 the National Administrative Department of Statistics (DANE) carried out, through direct interview, the First National Census of Agriculture and Livestock. In 1970-71 DANE conducted the Second National Census of Agriculture and Livestock. However, the Third National Census of Agriculture and Livestock, scheduled for 1980, was not done due to technical and financial problems. In 1985 the Ministry of Agriculture began developing plans for establishing the Agricultural Statistical Sample System (SEAM) which aimed to complete the First National Agricultural Sample Survey, conducted in 1988.

Organization: The Sample Survey was conducted by the Ministry of Agriculture in collaboration with the Agricultural Planning Regional Units, the Agriculture and Planning Departmental Offices and DANE. Technical assistance was provided by the Food and Agriculture Organization of the UN, together with the UN Development Program.

Enumeration period: The census was conducted between April and June 1988.

Reference date: Data on holding and holder characteristics, land use, permanent crops and livestock refer to the enumeration day. Data on crop production refer to the periods June-December 1987 and January-August 1988. Data on employment and farm population refer to the week ending on the Sunday preceding the day of enumeration.

Definition: The basic statistical unit is the Agricultural Production Unit, which is defined as any piece of land on which an agricultural production activity is carried out under a single management or together with others, without regard to tenure, legal status, size or location.

Coverage: The census was carried out in 23 departments of the country. Areas considered of insignificant agricultural value, areas 100% under woods or forests, and cities or city-suburbs, were excluded from the coverage.

Frame: The frame was based on the Sampling Segments, pieces of land identified by physical or cultural boundaries, into which the total area of the departments was subdivided for census purposes.

Methods: The total area to be investigated was subdivided into a certain number of Sampling Segments, following three steps:

- Stratification and sub-stratification of the universe, based on the "use of land".
- Identification, on the basis of physical or cultural boundaries, of the Primary Sampling Units (PSU) consisting of an area of about 5, 10, or 12 square kilometres.
- Subdivision of each PSU into Sampling Segments, the secondary sampling units, consisting of an area of about 1, 2, 3 or 4 square kilometres.

Subsequently, a two-stage stratified sample design was applied: at the first stage, the PSUs were systematically selected with probability proportional to the number of Sampling Segments existing in every PSU; at the second stage, one Sampling Segment for each PSU selected in the first stage, was randomly drawn.

Data source: República de Colombia, Ministerio de Agricultura, Primera Encuesta Nacional Agropecuaria, Febrero 1990.

Mailing address: Ministerio de Agricultura y Desarrollo Rural - Avenida Jimenez n.7-65 - Santa Fé de Bogotá - República de Colombia - Tel. 0057 1 3341199; Fax 0057 1 2842649.

COLOMBIA - Agricultural Census 1988 (1) - Primary Results

Area: in hectares Production: in metric tons

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | |
|---|---------------------------|
| Size classes | Number Area |
| All holdings | 1 547 846 36 033 713 |
| Holdings without land | 93 279 0 |
| Under 1 Ha | 204 402 93 041 |
| 1 - 3 Ha | 312 307 522 034 |
| 3 - 5 Ha | 188 631 698 712 |
| 5 - 10 Ha | 232 498 1 589 575 |
| 10 - 20 Ha | 182 621 2 504 414 |
| 20 - 50 Ha | 167 864 5 171 668 |
| 50 - 100 Ha | 88 304 6 063 791 |
| 100 - 200 Ha | 48 230 6 500 698 |
| 200 - 500 Ha | 23 707 6 980 749 |
| 500 - 1000 Ha | 4 233 2 758 287 |
| 1000 Ha and over | 1 770 3 150 744 |
| TENURE (2) | |
| Holdings operated under one form of tenure | |
| Holdings | 1 397 448 |
| Area | 34 747 682 |
| Holdings owned or in ownerlike possession | |
| Holdings | 1 201 914 |
| Area | 30 638 340 |
| Holdings rented from others | |
| Holdings | 86 140 |
| Area | 921 364 |
| Holdings under other single forms of tenure | |
| Holdings | 109 394 |
| Area | 3 187 978 |
| Holdings under more than one form of tenure | |
| Holdings | 57 920 |
| Area | 1 286 031 |
| FARM POPULATION | |
| Household members, total 6 521 346 | |
| Male, total 3 455 125 | |
| Under 10 years of age 678 815 | |
| 10 and up to 14 years of age 453 449 | |
| 14 and up to 24 years of age 756 303 | |
| 25 and up to 34 years of age 439 124 | |
| 35 and up to 44 years of age 361 513 | |
| 45 and up to 54 years of age 317 181 | |
| 55 and up to 64 years of age 236 864 | |
| 65 years of age and over 193 644 | |
| of age not specified 18 232 | |
| Female, total 3 066 221 | |
| Under 10 years of age 631 047 | |
| 10 and up to 14 years of age 394 098 | |
| 14 and up to 24 years of age 629 681 | |
| 25 and up to 34 years of age 400 998 | |
| 35 and up to 44 years of age 357 526 | |
| 45 and up to 54 years of age 299 725 | |
| 55 and up to 64 years of age 192 344 | |
| 65 years of age and over 142 497 | |
| of age not specified 18 305 | |
| EMPLOYMENT | |
| Household members economically active (3) 2 737 425 | |
| Household members not economically active (3) 2 308 331 | |
| LAND USE (area) | |
| Agricultural land 22 775 871 | |
| Cropland 5 299 545 | |
| Arable land 2 795 047 | |
| Land under temporary crops 1 834 990 | |
| Land temporarily fallow 960 057 | |
| Land under permanent crops 2 504 498 | |
| Land under perm. meadows/pastures 17 476 326 | |
| Wood or forest land 5 040 596 | |
| All other land 8 217 246 | |

| CROPS, TEMPORARY | |
|------------------------------------|------------|
| Sugar cane | |
| Area | 149 121 |
| Under plants of productive age | 137 590 |
| Under plants of non-productive age | 11 531 |
| Area irrigated | 134 781 |
| Production | 15 774 223 |
| CROPS, PERMANENT | |
| Bananas | |
| Area | 37 401 |
| Under plants of productive age | 36 789 |
| Under plants of non-productive age | 612 |
| Area irrigated | 9 780 |
| Production | 1 829 690 |
| Plantains | |
| Area | 236 611 |
| Under plants of productive age | 209 608 |
| Under plants of non-productive age | 27 003 |
| Area irrigated | 3 655 |
| Production | 1 316 128 |
| Coffee | |
| Area | 1 251 493 |
| Under plants of productive age | 1 086 562 |
| Under plants of non-productive age | 164 931 |
| Area irrigated | 920 918 |
| Production | |
| Cocoa | |
| Area | 81 016 |
| Under plants of productive age | 68 041 |
| Under plants of non-productive age | 12 975 |
| Area irrigated | 5 932 |
| Production | 34 023 |
| Coconut | |
| Area | 9 749 |
| Under trees of productive age | 7 447 |
| Under trees of non-productive age | 2 302 |
| Area irrigated | 150 |
| Production | 29 227 |
| Fique' | |
| Area | 25 603 |
| Under plants of productive age | 23 335 |
| Under plants of non-productive age | 2 268 |
| Area irrigated | 103 |
| Production | 25 770 |
| LIVESTOCK (head) | |
| Cattle | |
| Total | 18 759 688 |
| Male | 6 851 054 |
| Female | 11 908 634 |
| Pigs | |
| Total | 2 068 849 |
| Male | 957 770 |
| Female | 1 111 079 |
| Sheep | |
| Total | 1 498 778 |
| Male | 305 956 |
| Female | 1 192 822 |
| Goats | |
| Total | 1 233 887 |
| Male | 194 172 |
| Female | 1 039 715 |

(1) Primera Encuesta Nacional Agropecuaria, 1990

(2) Excluding 92 478 holdings without land.

(3) Household members 10 years of age and over.

FRENCH GUIANA - Agricultural Census 1989 - Explanatory Notes

Information: French Guiana is part of the French Territory, and it is only for practical purposes that it is recorded in the Data Bank at country level in the South American Region. Consequently, results related to France bear only upon the territory of France in Europe (France Metropolitaine).

Historical outline: The 1988-89 Agricultural Census is the second taken in French Guiana; the first was carried out in 1980-81.

Organization: The census was organized by the Central Service of Statistical Surveys and Studies (SCEES) of the Ministry of Agriculture and Forestry, in collaboration with the local Statistical Offices of the above-mentioned Ministry.

Enumeration period: The census was carried out in 1988-89.

Definitions:

- "Superficie agricole utilisée" includes arable land, land under permanent crops, and land under permanent meadows and pastures.
- "Superficie agricole utile" includes "superficie agricole utilisée" plus land occupied by buildings, roads, and ditches as well as unproductive land.
- "Superficie totale" includes "superficie agricole utile", wood or forest land, aquaculture basins, and all other land not suitable for agriculture.
- Agricultural holding is an economic unit of agricultural production satisfying at the same time the following four conditions:
 - an agricultural output;
 - at least 0.5 Ha of "superficie agricole utile" or 0.1 Ha of "superficie agricole utilisée", or overstepping a certain number of livestock (depending on the type of animal), or a certain level of agricultural output;
 - an autonomous management;
 - accurately located in a municipality and identified by the most important building or the most important parcel.

Coverage: The census covered the entire country.

Frame: In the first half of 1988, a list of agricultural holdings, based on the list prepared for the previous census, was established in each municipality and used as frame.

Methods: Complete enumeration of holdings was conducted through direct interview.

Data source: Recensement Agricole 1988-89, Résultats Départementaux.

Mailing address:

- Ministère de l'Agriculture et de la Forêt, Service Central des Enquêtes et Etudes Statistiques, 4, avenue de Saint-Mandé - 75570 Paris Cedex 12; Tél.: (1) 43444633.
- Cayenne-Guyane - Cité Rebard - 97305 Cayenne - Tél.: 19 (594) 302905.

FRENCH GUIANA - Agricultural Census 1989 - Primary Results

Area: in hectares

| NUMBER AND AGRICULTURAL AREA OF HOLDINGS BY SIZE OF AGRICULTURAL AREA OF HOLDING | | |
|---|--------|--------|
| Size classes | Number | Area |
| All holdings | 4 480 | 20 642 |
| Under 1 Ha | 729 | 392 |
| 1 - 2 Ha | 1 403 | 1 791 |
| 2 - 3 Ha | 1 105 | 2 397 |
| 3 - 4 Ha | 546 | 1 735 |
| 4 - 5 Ha | 251 | 1 057 |
| 5 - 10 Ha | 269 | 1 751 |
| 10 - 20 Ha | 68 | 911 |
| 20 Ha and over | 109 | 10 608 |
| TENURE (area) (1) | | |
| Area owned or in ownerlike possession | | 3 520 |
| Area rented from others | | 11 800 |
| Area under other forms of tenure | | 5 322 |
| HOLDERS BY AGE | | |
| Holders, total | | 4 491 |
| Under 35 years of age | | 1 554 |
| 35 and up to 49 years of age | | 1 583 |
| 50 and up to 64 years of age | | 1 077 |
| 65 years of age and over | | 277 |
| HOLDERS BY SEX | | |
| Holders, total | | 4 491 |
| Male | | 2 688 |
| Female | | 1 803 |
| HOLDERS BY TYPE OF ACTIVITY | | |
| Holders engaged: | | |
| In agricultural work on the holding | | 2 175 |
| In work off the holding | | 2 316 |
| FARM POPULATION BY SEX | | |
| Household members, total | | 18 781 |
| Male | | 9 819 |
| Female | | 8 962 |
| EMPLOYMENT | | |
| Household members engaged in agricultural work on the holding | | 1 022 |
| Household members, engaged in work off the holding | | 7 982 |
| Household members not economically active | | 9 777 |
| Hired permanent workers | | 613 |
| Hired occasional workers | | 2 136 |
| LAND USE | | |
| All land | | |
| Holdings | | 4 491 |
| Area | | 41 553 |
| Agricultural land | | |
| Holdings | | 4 480 |
| Area | | 20 642 |
| Cropland | | |
| Area | | 11 880 |
| Arable land | | |
| Area | | 9 172 |
| Land under temporary crops | | |
| Area | | 3 440 |
| Land temporarily fallow | | |
| Area | | 110 |
| All other arable land | | |
| Area | | 5 622 |
| Land under permanent crops | | |
| Area | | 2 708 |
| Land under perm. meadows/pastures | | |
| Area | | 8 762 |
| Wood or forest land | | |
| Area | | 97 |
| All other land | | |
| Area | | 20 814 |

| | |
|------------------------------|--------|
| CROPS, TEMPORARY | |
| Sugar cane | |
| Holdings reporting | 74 |
| Area | 251 |
| Flowers | |
| Holdings reporting | 17 |
| Area | 8 |
| CROPS, PERMANENT | |
| Bananas | |
| Holdings reporting | 597 |
| Area | 483 |
| Pineapples | |
| Holdings reporting | 194 |
| Area | 335 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 341 |
| Animals | 15662 |
| Pigs | |
| Holdings reporting | 298 |
| Animals | 9162 |
| Sheep | |
| Holdings reporting | 138 |
| Animals | 3801 |
| Goats | |
| Holdings reporting | 62 |
| Animals | 1317 |
| Chickens | |
| Animals | 182211 |
| MACHINERY / EQUIPMENT | |
| 4 - Wheel tractors | |
| used on the holding | |
| Holdings reporting | 219 |
| Units | 308 |
| owned by the holder | |
| Units | 304 |
| 2-Wheel tractors | |
| used on the holding | |
| Holdings reporting | 414 |
| Units | 420 |
| owned by the holder | |
| Units | 418 |
| Fertilizer distributors | |
| used on the holding | |
| Holdings reporting | 71 |
| Units | 76 |
| owned by the holder | |
| Units | 75 |
| Sprayers / Dusters | |
| used on the holding | |
| Holdings reporting | 373 |
| Units | 533 |
| owned by the holder | |
| Units | 530 |
| Lorries | |
| used on the holding | |
| Holdings reporting | 38 |
| Units | 59 |
| owned by the holder | |
| Units | 57 |
| Trailers | |
| used on the holding | |
| Holdings reporting | 91 |
| Units | 121 |

(1) Data refer to agricultural land.

PARAGUAY - Agricultural Census 1991 - Explanatory Notes

Historical outline: The first agricultural census in the country was conducted in 1942, the second in 1956, and a sampling census consisting of a sample of farms based on those appearing in the 1956 census was undertaken in 1961. The next census was carried out in 1981 through complete enumeration of all holdings. The last full agricultural census, to which these data refer, was conducted in 1991.

Organization: The central structure of statistics in the country is the Statistics and Census Office of the Ministry of Treasury, assigned by law to organize and coordinate the statistical services. The National Statistical Council, made up of representatives of planning organizations, banks, universities, etc., and headed by the Director General of the Statistics and Census Office, has the task of planning national statistics. The Ministry of Agriculture and Livestock (MAG) is the body responsible for collection, preparation and publication of the statistics concerning agriculture, by taking censuses and carrying out periodic sampling surveys. The Agricultural Census and Statistics Division (DCEA), operating within the MAG structure, was responsible to the Minister, through the Technical Council, for undertaking the 1991 Agricultural Census. The 1991 Agricultural Census project was provided with technical and financial assistance by the Government of Japan.

Enumeration period: The census was carried out July to August 1991.

Reference date: Most of the census data refer to the agricultural year 1 July 1990 - 30 June 1991. Data on livestock numbers refer to 1 July 1991.

Definitions: The basic statistical unit is the Agricultural Holding, which is defined as all land wholly or partly used for agricultural production and operated as one technical unit under a single management or together with others, without regard to title, legal form, size or location. Holdings without land, i.e. not reporting agricultural land but involved in livestock keeping, are also included in the census. Census holdings are considered those satisfying at least one of the following conditions:

- at least 0.1 Ha of land under temporary or permanent crops,
- one adult head of cattle,
- two head of young cattle,
- five head of pigs, sheep or goats of any age,
- one hundred of poultry,
- ten beehives.

Coverage: The census covered the entire country.

Frame: In 1969 the MAG decided to establish a directory of agricultural holdings by compiling a list of all agriculturally active holdings in the country. Since then, a part of the country has annually been revised, so that the list be completely corrected and updated every five years.

Methods: The country is divided administratively into 19 Departments, subdivided into 185 Districts and, in turn, into approximately 1900 Compañías (wards). Complete enumeration of all holdings was carried out; each enumerator was provided with a list of all holdings existing within a designated enumeration area; data were collected through direct interview; no objective measurement was done by enumerators.

Data source: Ministerio de Agricultura y Ganadería - Censo Agropecuario Nacional 1991 - Sector Agrícola - Volumen 6 - Setiembre 1994.

Mailing address: Ministerio de Agricultura y Ganadería - Dirección de Censos y Estadísticas Agropecuarias - Presidente Franco 479 Asunción, Paraguay - Tel. 00595 21; Fax 00595 21 497965.

PARAGUAY - Agricultural Census 1991 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | | | EMPLOYMENT (cont'd) | |
|---|---------------|-------------|--|--|------------|
| Size classes | Number | Area | | Hired workers | |
| All holdings | 307 221 | 23 817 737 | | Hired permanent workers | 26 640 |
| Holdings without land | 7 962 | 0 | | Holdings reporting | 81 748 |
| Under 1 Ha | 21 977 | 8 499 | | Workers | |
| 1 - 5 Ha | 92 811 | 222 805 | | Hired occasional workers | 96 292 |
| 5 - 10 Ha | 66 605 | 430 658 | | Holdings reporting | 946 040 |
| 10 - 20 Ha | 66 223 | 806 802 | | Workers | |
| 20 - 50 Ha | 31 519 | 857 909 | | | |
| 50 - 100 Ha | 7 577 | 502 648 | | LAND USE (area) | 14 807 229 |
| 100 - 200 Ha | 4 279 | 569 169 | | Agricultural Land | 4 551 073 |
| 200 - 500 Ha | 3 503 | 1 050 034 | | Cropland | 4 465 902 |
| 500 - 1000 Ha | 1 525 | 1 010 952 | | Arable land | 1 576 835 |
| 1000 - 5000 Ha | 2 356 | 4 982 438 | | Land under temporary crops | 2 315 739 |
| 5000 ha and over | 884 | 13 375 823 | | Land under temporary mead./ pastures | 573 328 |
| | | | | Land temporarily fallow | 85 171 |
| | | | | Land under permanent crops | 10 256 156 |
| | | | | Land under perm. meadows/pastures | 7 818 423 |
| | | | | Wood or forest land | 1 192 085 |
| | | | | All other land | |
| | | | | | |
| | | | | CROPS, TEMPORARY | |
| | | | | Wheat | |
| | | | | Holdings reporting | 3 939 |
| | | | | Area | 153 837 |
| | | | | Maize | |
| | | | | Holdings reporting | 211 692 |
| | | | | Area | 243 215 |
| | | | | Cassava (Manioc) | |
| | | | | Holdings reporting | 229 462 |
| | | | | Area | 175 572 |
| | | | | Soybeans | |
| | | | | Holdings reporting | 26 720 |
| | | | | Area | 552 657 |
| | | | | Cotton | |
| | | | | Holdings reporting | 189 554 |
| | | | | Area | 414 691 |
| | | | | | |
| | | | | CROPS, PERMANENT (area in compact plantation) | |
| | | | | Bananas | 9 030 |
| | | | | Pineapples | 2 706 |
| | | | | Coffe | 4 956 |
| | | | | Yerba Mate | 25 515 |
| | | | | Tung nuts | 10 913 |
| | | | | | |
| | | | | LIVESTOCK (head) | |
| | | | | Cattle | 7 626 617 |
| | | | | Pigs | 1 003 880 |
| | | | | Sheep | 356 980 |
| | | | | Horses | 319 921 |
| | | | | Chickens | 11 233 769 |
| | | | | | |
| | | | | IRRIGATION FACILITIES | |
| | | | | Wells | |
| | | | | Holdings reporting | 200 036 |
| | | | | | |
| | | | | MACHINERY / EQUIPMENT (owned by the holder) | |
| | | | | 4-Wheel tractors | |
| | | | | Holdings reporting | 11 279 |
| | | | | Units | 15 878 |
| | | | | Harvester-threshers (combines) | |
| | | | | Holdings reporting | 2 675 |
| | | | | Units | 3 519 |
| | | | | | |
| | | | | FERTILIZERS / PESTICIDES | |
| | | | | Chemical fertilizers | |
| | | | | Holdings reporting use | 77 947 |
| | | | | | |
| | | | | HIGH-YIELDING CROP VARIETIES | |
| | | | | Holdings reporting use | 154 119 |

(1) Excluding 7 962 holdings without land.

(2) Population 10 years of age and over.

PERU - Agricultural Census 1994 - Explanatory Notes

Historical outline: The first National Census of Agriculture in Peru (I Cenagro) was conducted in 1961 in connection with the sixth National Population Census and the first National Housing Census. The second National Census of Agriculture (II Cenagro) was conducted in 1972 as an independent operation. Data presented are from the third National Census of Agriculture (III Cenagro), which was conducted in 1994.

Organization: The National Institute of Statistics and Informatics (INEI) was responsible for the organization of the census. The census involved 24 operations officers at department level, 213 at province level, 1746 at district level. The field work was carried out by 723 area-supervisors, 6409 section-supervisors, and 20,453 enumerators. Technical assistance was provided by the Food and Agriculture Organization of the UN, through the project "Análisis de la información del III Censo Nacional Agropecuario".

Enumeration period: The census was conducted between 15 October and 14 November 1994.

Reference date: Data on holding and holder characteristics, tenure, land use and livestock, refer to the enumeration day. Data on use of fertilizers, pesticides and high-yielding crop varieties, refer to the agricultural year 1 August 1993 - 31 July 1994.

Definition: The selected statistical unit is the Agricultural Unit (UA), defined as any piece of land consisting of one or more parcels, totally or partially used for agricultural production, carried out as a technical-economic unit by the agricultural holder, without regard to size, tenure or legal status.

Coverage: The census covered the entire country; totally urbanized areas (i.e. not reporting any UA) were excluded.

Frame: The frame was the results of the segmentation of the total area of the 24 departments, into which the country is administratively divided, into census sectors (Sectores de Empadronamiento Agropecuario, SEA). The UAs were identified on the territory through an appropriate use of cartography; successively, lists reporting all identified UAs were prepared. A SEA, identified by physical or cultural boundaries and including approximately 100 UAs, was assigned to each enumerator.

Methods: Complete enumeration of all holdings was carried out. Data were collected through direct interview. A specific form was used to collect data for UAs reporting at least 0.5 Ha of total land, or at least one of the following: 3 cattle, 20 sheep, 20 goats, 10 pigs, 5 horses or mules or asses, 10 llamas, 10 alpacas, 50 poultry, 50 rabbits or guinea-pigs. UAs not reaching the above mentioned limits were considered to be small holdings, and only limited information was collected for them.

Data source: Ministerio de Agricultura, Instituto Nacional de Estadística e Informática, FAO of the UN - III Censo Agropecuario - Seminario: Utilización de los resultados del III Cenagro para el conocimiento de la situación agropecuaria - Quadros Estadísticos - Lima, 9 Mayo 1996.

Mailing address: Instituto Nacional de Estadística e Informática - Av. 28 de Julio 1056, Lima 1, Peru.

PERU - Agricultural Census 1994 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING (1) | | |
|---|-----------|------------|
| Size classes | Number | Area |
| All holdings | 1 756 141 | 35 381 809 |
| Holdings without land | 10 368 | 0 |
| Under 3 Ha | 967 511 | 1 114 886 |
| 3 - 10 Ha | 507 014 | 2 588 880 |
| 10 - 50 Ha | 219 600 | 4 213 391 |
| 50 Ha and over | 51 648 | 27 464 652 |
| FRAGMENTATION (2) | | |
| Holdings with: | | |
| 1 parcel | | 790 310 |
| 2 to 3 parcels | | 529 684 |
| 4 to 5 parcels | | 207 265 |
| 6 parcels and over | | 218 514 |
| Parcels | | 5 721 113 |
| TENURE (2) | | |
| Holdings operated under one form of tenure | | |
| Holdings | | 1 615 098 |
| Area | | 34 457 869 |
| Holdings owned or in ownerlike possession | | |
| Holdings | | 1 108 966 |
| Area | | 30 987 955 |
| Holdings rented from others | | |
| Holdings | | 40 738 |
| Area | | 301 505 |
| Holdings operated under tribal or traditional, communal forms of tenure | | |
| Holdings | | 397 202 |
| Area | | 2 430 685 |
| Holdings under other single forms of tenure | | |
| Holdings | | 68 192 |
| Area | | 737 724 |
| Holdings under more than one form of tenure | | |
| Holdings | | 130 675 |
| Area | | 923 940 |
| LEGAL STATUS (2) | | |
| Holdings operated by: | | |
| An individual or a household | | |
| Holdings | | 1 688 411 |
| Area | | 13 946 705 |
| Corporation | | |
| Holdings | | 44 982 |
| Area | | 920 279 |
| Cooperative | | |
| Holdings | | 205 |
| Area | | 355 033 |
| Collective | | |
| Holdings | | 6 872 |
| Area | | 19 423 841 |
| Other | | |
| Holdings | | 5 303 |
| Area | | 735 951 |
| HOLDERS BY AGE | | |
| Holder, total | | 1 731 764 |
| Under 30 years of age | | 257 848 |
| 30 to 44 years of age | | 548 221 |
| 45 to 64 years of age | | 638 670 |
| 65 years of age and over | | 270 709 |
| Of age not stated | | 16 316 |
| FARM POPULATION BY SEX | | |
| Household members, total | | 8 479 594 |
| Male | | 4 318 473 |
| Female | | 4 161 121 |
| HIRED WORKERS | | |
| Hired permanent workers | | 194 840 |
| Hired occasional workers | | 7 303 764 |

| LAND USE (area) | |
|--------------------------------------|------------|
| Agricultural land | 22 383 447 |
| Cropland | 5 476 977 |
| Arable land | 4 592 432 |
| Land under permanent crops | 884 545 |
| Land under perm. meadows/pastures | 16 906 470 |
| Wood or forest land | 9 053 705 |
| All other land | 3 944 657 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 846 829 |
| Animals | 4 495 263 |
| Sheep | |
| Holdings reporting | 683 339 |
| Animals | 12 085 683 |
| Goats | |
| Holdings reporting | 209 991 |
| Animals | 2 080 997 |
| Pigs | |
| Holdings reporting | 648 460 |
| Animals | 2 186 867 |
| Horses / Mules / Asses | |
| Holdings reporting | 692 596 |
| Animals | 2 175 730 |
| Llamas | |
| Holdings reporting | 84 610 |
| Animals | 1 005 902 |
| Alpacas | |
| Holdings reporting | 74 424 |
| Animals | 2 456 642 |
| Chickens | |
| Animals | 69 835 162 |
| Ducks | |
| Animals | 1 097 785 |
| Turkeys | |
| Animals | 1 081 112 |
| MACHINERY / EQUIPMENT | |
| 4-Wheel tractors | |
| Holdings reporting | 10 058 |
| Units owned by the holder | 13 085 |
| Track-laying tractors | |
| Holdings reporting | 513 |
| Units owned by the holder | 698 |
| Power-tillers | |
| Holdings reporting | 12 907 |
| Units owned by the holder | 24 502 |
| Sprayers / Dusters (engine operated) | |
| Holdings reporting | 17 517 |
| Units owned by the holder | 21 467 |
| Trucks | |
| Holdings reporting | 26 633 |
| Units owned by the holder | 30 950 |
| FERTILIZERS / PESTICIDES | |
| Holdings reporting use of: | |
| Chemical fertilizers | 663 025 |
| Organic fertilizers | 958 449 |
| Pesticides | 706 667 |
| HIGH-YIELDING CROP VARIETIES | |
| Holdings reporting use | 292 067 |

(1) Excluding 8 507 abandoned holdings with an area of 256 000 Ha, and 18 holdings not specified.

(2) Excluding 10 368 holdings without land.

URUGUAY - Agricultural Census 1990 - Explanatory Notes

Historical outline: Agricultural and Livestock Censuses have been carried out in Uruguay since 1852. In this century, such censuses were conducted in 1900, 1908, 1916, 1924, 1930, 1937, 1943, 1946, 1951, 1956, 1961, 1966, 1970, 1980, 1986 and 1990. A 1978 decree stated that an agriculture and livestock census was to be undertaken in years ending in zero on a complete enumeration basis, according to the FAO World Census of Agriculture Programme, while in years ending in five an agricultural survey was to be carried out on a sampling basis. Data presented here are the preliminary results of the 1990 census; final figures will be integrated as soon as they become available.

Organization: The Agriculture and Livestock Statistics Division of the Direction of Agriculture and Livestock Economical Inquiries (DIEA), of the Ministry of Agriculture and Fisheries (MGAP), was entrusted with the 1990 agricultural census operation. Assistance was also provided by the Ministry of Internal Affairs, whose officers participated in the preparation of the field work.

Enumeration period: The census was carried out in 1990.

Reference date: Time reference for livestock and tenure was 30 June 1990. Data on land use, crops and use of fertilizers, refer to the 12 month period from 1 July 1989 to 30 June 1990.

Definition: The basic statistical unit is the Agricultural Holding, which is defined as all land wholly or partly used for agricultural production and operated as one technical unit under a single management or together with others, without regard to title, legal form, size or location.

Coverage: Geographically, the census covered the entire country. All holdings satisfying the above reported definition, and with an area of total land of at least one hectare, were covered in the census. Forestry holdings were not included in the census.

Frame: The frame was based on lists of Census Sectors outlined on special maps prepared for the census. Updated lists prepared for 1980 Agriculture Census were also used.

Methods: The country was divided into Departments which were subdivided into Police Sections (Secciones Policiales); each Police Section was further subdivided into Census Sectors; the agricultural holdings in each census sector were investigated by enumerators, through direct interview, on a complete enumeration basis.

Data source: Boletín Estadístico N.25, Octubre 1991 - Censo General Agropecuario 1990 - Datos Anticipados.

Mailing address: División Estadísticas Agropecuarias - Dirección de Investigaciones Economicas Agropecuarias (DIEA) - Ministerio de Ganadería, Agricultura y Pesca - Constituyente 1476 Montevideo, Uruguay - Tel. 005982 482256/404155; Fax 499623/498245.

URUGUAY - Agricultural Census 1990 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS | |
|--|------------|
| Holdings reporting | 54 819 |
| Total area | 15 681 804 |
| EMPLOYMENT | |
| Household members engaged in agricultural work on the holding | 86 337 |
| Hired workers | 54 924 |
| LAND USE (area) | |
| Cropland | 682 100 |
| Arable land | 637 341 |
| Land under permanent crops | 44 759 |
| Wood or forest land | 176 168 |
| All other land | 14 823 536 |

| LIVESTOCK (head) | |
|--------------------------------------|------------|
| Cattle | 8 137 067 |
| Sheep | 23 667 217 |
| MACHINERY / EQUIPMENT (units) | |
| Tractors | 32 641 |

CYPRUS - Agricultural Census 1985 - Explanatory Notes

Historical outline: The first General Census of Agriculture conducted after independence was in 1960; the second in 1977, and the third, to which data here presented refer, was carried out in 1985.

Organization: The Ministry of Agriculture and the Planning Bureau agreed to conduct a census of agriculture in 1985. The census was approved by the Council of Ministers, and the Director of the Department of Statistics and Research (DSR) was appointed Census Superintendent. The Agricultural Statistics Section of the DSR had greatest involvement in census preparation. A Census Committee was also set up, chaired by the Director of DSR, which consisted of representatives of the Planning Bureau, the Department of Agriculture, the Department of Land Consolidation, and the Agricultural Research Institute. The Data Processing Department was charged with the input and tabulation of data. District Census Offices were established. Field-work personnel included 280 enumerators and 24 regional supervisors.

Enumeration period: The census was conducted from 4 November 1985 to 31 January 1986.

Reference date: The reference period for census data was the calendar year 1985; reference date for livestock numbers was 1 November 1985.

Definitions: The unit of enumeration was the Holding, defined as the land wholly or partly used for agricultural production and operated by a holder, without regard to title, legal status, size or location. In the case of landless livestock units, the holding was defined as any unit consisting of at least 10 sheep or 10 goats or 5 pigs (sows), or consisting of more than 50 chickens or turkeys or ducks, or 100 pigeons or pheasants, or 1000 quails, or 15 rabbits, or 20 horses, or 10 donkeys.

Coverage: The census covered all holders of agricultural land and/or livestock in the Government controlled part of Cyprus. The coverage extended to all activities related to agricultural production, including nurseries and greenhouses.

Frame: The area enumerated comprised land belonging to 392 villages, administratively divided into 5 districts; in addition, a 24-regions stratification, based on soil and climate conditions and cropping patterns, was adopted for census purposes. The enumerators were provided with basic lists of holders, residing in the villages, while holders residing in urban and suburban areas had to be identified.

Methods: The census was carried out on a complete enumeration basis with data collected through door-to-door personal interviews with holders. Two types of questionnaires were used:

- A main questionnaire covering all data related to agricultural holdings.
- A small questionnaire to enumerate livestock kept on a non-holding basis by landless units operating less than the minimum livestock number to be considered livestock holders.

A small scale post-enumeration survey was taken shortly after census completion. A small sample of 250 holders, representing all districts, was randomly selected.

Data source: Republic of Cyprus - Department of Statistics and Research, Ministry of Finance - Census of Agriculture 1985, Agricultural Censuses, Series 1, Report No.4.

Mailing address: Department of Statistics and Research - 13 Vironos Ave. - Nicosia, Republic of Cyprus.

CYPRUS - Agricultural Census 1985 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|--------|---------|
| Size classes | Number | Area |
| All holdings | 48 046 | 178 058 |
| Holdings without land | 798 | 0 |
| Under 0.1 Ha | 1 481 | 108 |
| 0.1 - 1 Ha | 18 098 | 10 986 |
| 1 - 2 Ha | 5 531 | 8 818 |
| 2 - 5.4 Ha | 13 263 | 43 635 |
| 5 - 10.7 Ha | 6 029 | 43 485 |
| 10.7 - 20.1 Ha | 2 059 | 28 439 |
| 20.1 - 66.9 Ha | 683 | 20 820 |
| 66.9 - 133.8 Ha | 66 | 6 054 |
| 133.8 Ha and over | 38 | 15 713 |
| FRAGMENTATION | | |
| Parcels | | 245 135 |
| TENURE (1) | | |
| Holdings operated under one form of tenure | | 41 786 |
| Holdings owned or in ownerlike possession | | 37 331 |
| Holdings rented from others | | 4 455 |
| Holdings under more than one form of tenure | | 5 462 |
| LEGAL STATUS | | |
| Holdings operated by: | | |
| An individual or a household | | |
| Holdings | | 47 251 |
| Area | | 158 209 |
| Two or more individuals/households | | |
| Holdings | | 270 |
| Area | | 2 415 |
| Corporation | | |
| Holdings | | 303 |
| Area | | 6 655 |
| Cooperative | | |
| Holdings | | 11 |
| Area | | 858 |
| Collective | | |
| Holdings | | 184 |
| Area | | 8 821 |
| Government | | |
| Holdings | | 15 |
| Area | | 629 |
| Other | | |
| Holdings | | 12 |
| Area | | 471 |
| HOLDERS BY AGE | | |
| Holders, total | | 47 521 |
| Under 35 years of age | | 7 176 |
| 35 to 44 years of age | | 11 072 |
| 45 to 54 years of age | | 10 597 |
| 55 to 64 years of age | | 8 839 |
| 65 years of age and over | | 9 837 |
| HOLDERS BY SEX | | |
| Holders, total | | 47 521 |
| Male | | 43 688 |
| Female | | 3 833 |
| HOLDERS BY TYPE OF ACTIVITY | | |
| Holders engaged mainly: | | |
| In agricultural work on the holding | | 18 934 |
| In work off the holding | | 28 587 |
| FARM POPULATION | | |
| Household members, total | | 174 231 |
| Male | | 88 956 |
| Female | | 85 275 |
| HOLDINGS BY NUMBER OF PERSONS | | |
| Holdings with: | | |
| 1 person | | 3 116 |
| 2 to 3 persons | | 18 461 |
| 4 to 5 persons | | 20 561 |
| 6 persons and over | | 5 383 |

| EMPLOYMENT | |
|---|---------|
| Household members engaged in agricultural work on the holding | 71 740 |
| Hired permanent workers | |
| Holdings reporting | 439 |
| Workers | 1 676 |
| Hired occasional workers | |
| Holdings reporting | 28 296 |
| LAND USE | |
| Agricultural land | |
| Area | 129 518 |
| Cropland | |
| Area | 125 049 |
| Arable land | |
| Area | 82 904 |
| Land under temporary crops | |
| Holdings | 20 335 |
| Area | 66 631 |
| Land temporarily fallow | |
| Holdings | 14 492 |
| Area | 16 272 |
| Land under permanent crops | |
| Holdings | 32 232 |
| Area | 42 146 |
| Land under perm. meadows/pastures | |
| Holdings | 818 |
| Area | 4 469 |
| Wood or forest land | |
| Holdings | 2 176 |
| Area | 4 871 |
| All other land | |
| Area | 43 668 |
| IRRIGATION | |
| Normally irrigated land | |
| Holdings reporting | 26 145 |
| Area | 30 749 |
| CROPS, TEMPORARY (holdings reporting) | |
| Wheat | 3 193 |
| Barley | 8 411 |
| Oats | 251 |
| Chickpeas (grams) | 226 |
| Lentils | 103 |
| Tobacco | 74 |
| Sesame seed | 29 |
| Groundnuts | 614 |
| PERMANENT CROPS (holdings reporting) | |
| Oranges | 3 808 |
| Lemons | 6 199 |
| Grapefruit | 1 045 |
| Apples | 5 277 |
| Pears | 3 069 |
| Apricots | 1 131 |
| Figs | 1 976 |
| Almonds | 7 246 |
| Hazelnuts | 889 |
| Pistachios | 196 |
| Olives | 12 681 |
| Carobs | 3 571 |
| LIVESTOCK (holdings reporting) | |
| Cattle | 1 607 |
| Sheep | 4 276 |
| Goats | 9 661 |
| Pigs | 1 228 |
| Horses | 213 |
| Chickens | 21 655 |
| MACHINERY / EQUIPMENT (holdings reporting) | |
| Tractors | 12 039 |
| Harvester-threshers (combines) | 163 |
| Sprayers / Dusters | 12 063 |

(1) Excluding 798 holdings without land.

INDIA - Agricultural Census 1986 - Explanatory Notes

Historical outline: India has been participating in every World Census of Agriculture (WCA) round since 1930. In 1930, 1950, and 1960, data required by the WCA were collected through sample surveys carried out by the Directorate of National Sample Survey which gave estimates for the country as a whole and for single States. The 1970-71 Census is considered the first comprehensive Census of Agriculture conducted in India. Following the decision to conduct the census on a quinquennial basis, agricultural censuses were successively undertaken in 1976-77, 1980-81, and the one here reported, in 1985-86.

Organization: Agricultural Census is a Central Plan Scheme implemented by the Department of Agriculture and Cooperation (DAC) in the Ministry of Agriculture of India. The Agricultural Census Division in the DAC is headed by a Joint Secretary who is designated as the Agricultural Census Commissioner. Each State and Union Territory (UT) of the Country is provided with a technical unit consisting of full-time officers and other staff, entrusted with agricultural census operations.

Enumeration period: The census was carried out in 1985-86.

Reference date: All data refer to the agricultural year July 1985 to June 1986.

Definition: The Operational Holding is defined as the land wholly or partly used for agricultural production and operated as one technical unit by one person, alone or with others, without regard to title, legal form, size or location.

Coverage: The census covered the 29 States and Union Territories of the Country.

Frame: In some States and Union Territories the frame was given by the existing comprehensive Land Record System. In the States and UTs for which a comprehensive Land Record System did not exist, the list of all villages in each Patwari Circle or in each Revenue Inspector Circles, or, in turn, in Tehsils, (administrative subdivisions of the District), was used.

Methods:

- In the States/UTs reporting Land Records information on number and area of operational holdings was collected on a complete enumeration basis, through retabulation of information available in the village Land Records, while information on other items was collected on a sampling basis: 20% of the villages selected randomly constituted the base. In these 20% villages, information on items different from number and area of holdings was compiled from the Relevant Revenue Records in respect of all resident cultivators.
- In the States/UTs not reporting Land Records a stratified two-stage sampling design was applied: at first stage, the village, at second stage, the operational holding.

From each District of the States, 20% of the villages were selected by a simple random sampling method. All operational holdings in the villages were listed in 5 major categories: Marginal (below 1 Ha), Small (1-2 Ha), Semi-Medium (2-4 Ha), Medium (4-10 Ha), Large (10 Ha and above). 25% of the holdings were selected from each of the first four categories, on the basis of circular systematic sampling methods, while all holdings were considered in the fifth category. For smaller States/UTs, the sample size could be larger than 20%.

Data source: Ministry of Agriculture - Department of Agriculture and Co-operation - All India Report on Agricultural Census 1985-86, New Delhi, 1992.

Mailing address: Ministry of Agriculture - Department of Agriculture and Co-operation - Agricultural Census Division - Room n. 120 - Krishi Bhawan, Dr. Rajendra Road, 110002 New Delhi, India - Tel.0091 11 3782691; Fax 0091 11 386004/3384555.

INDIA - Agricultural Census 1986 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|------------|-------------|
| Size class | Number | Area |
| All holdings | 97 155 000 | 164 562 000 |
| Under 1 Ha | 56 147 000 | 22 042 000 |
| 1 - 2 Ha | 17 922 000 | 25 708 000 |
| 2 - 4 Ha | 13 252 000 | 36 666 000 |
| 4 - 10 Ha | 7 916 000 | 47 144 000 |
| 10 Ha and over | 1 918 000 | 33 002 000 |
| TENURE (1) | | |
| Holdings operated under one form of tenure | | |
| Holdings | | 92 568 000 |
| Area | | 159 092 000 |
| Holdings owned or in ownerlike possession | | |
| Holdings | | 91 348 000 |
| Area | | 157 760 000 |
| Holdings rented from others | | |
| Holdings | | 526 000 |
| Area | | 654 000 |
| For a fixed amount of money / produce | | |
| Area | | 217 000 |
| For a share of produce | | |
| Area | | 172 000 |
| Under other rental arrangements | | |
| Area | | 265 000 |
| Holdings under other single forms of tenure | | |
| Holdings | | 694 000 |
| Area | | 678 000 |
| Holdings under more than one form of tenure | | |
| Holdings | | 2 339 000 |
| Area | | 5 470 000 |
| LEGAL STATUS | | |
| Holdings operated by: | | |
| An individual or a household | | |
| Holdings | | 85 293 000 |
| Area | | 137 294 000 |
| Two or more individuals or households | | |
| Holdings | | 11 697 000 |
| Area | | 25 864 000 |
| Other | | |
| Holdings | | 165 000 |
| Area | | 1 404 000 |
| LAND USE | | |
| Cropland | | 150 022 000 |
| All other land | | 14 540 000 |
| IRRIGATION | | |
| Normally irrigated land | | |
| Holdings reporting | | 41 880 000 |
| Area | | 40 461 000 |

| IRRIGATION FACILITIES | |
|---------------------------------------|------------|
| Holdings reporting use of: | |
| Canals | |
| Holdings reporting | 13 922 000 |
| Area irrigated | 15 107 000 |
| Tanks | |
| Holdings reporting | 5 030 000 |
| Area irrigated | 2 784 000 |
| Wells | |
| Holdings reporting | 7 805 000 |
| Units with pumpsets | 3 808 000 |
| Units without pumpsets | 1 959 000 |
| Area irrigated | 6 743 000 |
| Tubewells | |
| Holdings reporting | 13 199 000 |
| Units | 3 254 000 |
| Area irrigated | 13 201 000 |
| CROPS, TEMPORARY (holdings reporting) | |
| Rice | 43 388 000 |
| Sorghum (Jowar) | 13 841 000 |
| Millet (Bajra) | 7 828 000 |
| Maize | 11 395 000 |
| Finger millet (Ragi) | 2 492 000 |
| Wheat | 24 020 000 |
| Barley | 3 170 000 |
| Tur (Vigna Catjang) | 7 313 000 |
| Chickpeas (grams) | 7 758 000 |
| Black pepper | 2 292 000 |
| Chillies | 1 822 000 |
| Ginger | 495 000 |
| Turmeric | 310 000 |
| Potatoes | 2 244 000 |
| Sweet potatoes | 205 000 |
| Cassava | 1 655 000 |
| Onions | 332 000 |
| Groundnuts | 5 637 000 |
| Castor beans | 290 000 |
| Sesame seed | 2 437 000 |
| Rapeseed / Mustard | 4 147 000 |
| Linseed | 1 513 000 |
| Cotton | 4 251 000 |
| Jute | 2 201 000 |
| Opium | 48 000 |
| Tobacco | 361 000 |
| Tea | 31 000 |
| PERMANENT CROPS (holdings reporting) | |
| Citrus fruits | 396 000 |
| Mangoes | 3 968 000 |
| Bananas | 3 551 000 |
| Grapes | 22 000 |

(1) Excluding 2 248 000 holdings with negligible area.

IRAN - Agricultural Census 1988 - Explanatory Notes

Historical outline: The first national census of agriculture in Iran was conducted in 1960 (Mehr 1339) on a sample enumeration basis. Data here presented refer to the nationwide agricultural census conducted in 1988.

Organization: Agricultural censuses are conducted under the responsibility of the Statistical Centre of Iran, Plan and Budget Organization, of the Islamic Republic of Iran.

Data source: Islamic Republic of Iran - A statistical reflection of the Islamic Republic of Iran N. 9/1992 and N. 12/1996, Agriculture, 1988 Agricultural Census Data.

Mailing address: Statistical Centre of Iran - Dr. Fatemi Ave., Teheran, Iran, 14144.
Cable: Barnameh (Stat); Telex: 213233.

IRAN - Agricultural Census 1988 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|-----------|------------|
| Size classes | Number | Area |
| All holdings | 3 326 000 | 17 150 000 |
| Holdings without land | 506 000 | |
| Under 0.1 Ha | 116 000 | 6 000 |
| 0.1 - 0.2 Ha | 108 000 | 14 000 |
| 0.2 - 0.5 Ha | 245 000 | 76 000 |
| 0.5 - 1 Ha | 286 000 | 189 000 |
| 1 - 2 Ha | 420 000 | 544 000 |
| 2 - 3 Ha | 295 000 | 663 000 |
| 3 - 4 Ha | 214 000 | 690 000 |
| 4 - 5 Ha | 179 000 | 754 000 |
| 5 - 10 Ha | 482 000 | 3 238 000 |
| 10 - 20 Ha | 306 000 | 3 974 000 |
| 20 - 50 Ha | 136 000 | 3 784 000 |
| 50 - 100 Ha | 22 000 | 1 427 000 |
| 100 - 200 Ha | 7 000 | 879 000 |
| 200 Ha and over | 4 000 | 912 000 |
| LAND USE (area) | | |
| Cropland | | 16 872 000 |
| Arable land | | 15 660 000 |
| Land under temporary crops | | 10 296 000 |
| Land temporarily fallow | | 5 364 000 |
| Land under permanent crops | | 1 212 000 |
| All other land | | 278 000 |
| CROPS, TEMPORARY | | |
| Wheat | | |
| Area | | 5 337 647 |
| irrigated | | 1 782 701 |
| non-irrigated | | 3 554 946 |
| Production | | 5 775 427 |
| Rice | | |
| Area | | 436 122 |
| Production | | 1 227 325 |
| Barley | | |
| Area | | 2 099 751 |
| irrigated | | 818 354 |
| non-irrigated | | 1 281 397 |
| Production | | 2 589 810 |
| Lentils | | |
| Area | | 105 850 |
| irrigated | | 22 903 |
| non-irrigated | | 82 947 |
| Production | | 55 313 |
| Beans, dry edible | | |
| Area | | 50 144 |
| Production | | 67 127 |
| Potatoes | | |
| Area | | 77 288 |
| Production | | 815 813 |
| Onions | | |
| Area | | 26 065 |
| Production | | 508 734 |

| CROPS, TEMPORARY (cont'd) | |
|------------------------------------|------------|
| Sugar cane | |
| Area | 28 000 |
| Production | 131 000 |
| Sugar beets | |
| Area | 154 000 |
| Production | 3 755 000 |
| Cotton | |
| Area | 191 000 |
| Production | 387 000 |
| Tobacco | |
| Area | 18 000 |
| Production | 19 000 |
| Leguminous plants for forage | |
| Area | 785 414 |
| Production | 2 770 348 |
| Other fodder crops | |
| Area | 106 460 |
| Production | 618 532 |
| CROPS, PERMANENT | |
| Oranges | |
| Trees, total | 18 110 000 |
| of productive age | 13 331 000 |
| of non-productive age | 4 779 000 |
| Production | 432 939 |
| Tangerines / Lemons / Sweet lemons | |
| Trees, total | 12 904 000 |
| of productive age | 9 214 000 |
| of non-productive age | 3 690 000 |
| Production | 223 554 |
| Apples | |
| Trees, total | 45 437 000 |
| of productive age | 37 046 000 |
| of non-productive age | 8 391 000 |
| Production | 860 725 |
| Dates | |
| Trees, total | 10 794 000 |
| of productive age | 6 619 000 |
| of non-productive age | 4 175 000 |
| Production | 165 819 |
| Grapes | |
| Area | 217 240 |
| Production | 789 329 |
| Tea | |
| Area | 32 000 |
| Production | 247 000 |
| LIVESTOCK (head) | |
| Cattle | 6 368 000 |
| Sheep | 40 665 000 |
| Goats | 21 759 000 |

JAPAN - Agricultural Census 1990 - Explanatory Notes

Historical outline: Japan first participated in the World Census of Agriculture (WCA) in 1930. Since 1950, Japan has been participating in the WCA every ten years and, in between, quinquennial censuses of agriculture have been conducted. In the years when the decennial or the quinquennial census is not taken, sample surveys are carried out in respect to items similar to those investigated in the census.

Organization: The Ministry of Agriculture, Forestry and Fisheries is in charge of the design and the overall supervision of the Census. The 1990 Farming Census was carried out by the Dynamic Statistics Department in the Statistics and Information Section of the Ministry's Economics Bureau. In each Prefecture and in the administrative unit of Hokkaido, the Statistics Division was entrusted with census operations at local level. Prefectures (plus Hokkaido) were the local public bodies in charge of guidance for census to local bodies at lower level like cities, wards, towns and villages. Those were, in turn, in charge of survey sections placement, and of supervisors and enumerators selection. 11,100 supervisors and 210,000 enumerators were appointed for the 1990 Census of Agriculture.

Enumeration period: The enumeration day was 1 February 1990 for all prefectures, excluding Okinawa Prefecture, for which it was 1 December 1989.

Reference date: Data on crop production, employment and use of machinery refer to the 12 months preceding the census; all other items refer to the enumeration day.

Definitions:

- Farm household is a household engaged in agriculture with at least 0.1 Ha of cultivated land, or a sales value of agricultural products in the previous 12 months of at least 150,000 yen.
- Commercial farm household: is a household engaged in agriculture with at least 0.3 Ha of cultivated land, or a sales value of agricultural products in the previous 12 months of at least 500,000 yen.
- Non-commercial farm household: is 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: The census covered all farm holdings in the country. Because the climate and type of agriculture are different among Hokkaido, Okinawa, and the other Prefectures, three types of questionnaires that included different items were used.

Frame: Starting from the evaluation of 140,000 rural communities identified in the Prefectures and Hokkaido, some 210,000 enumeration sections, reporting an average of 19 farm households each, were established. To define a list of these sections, those which were set for the previous 1985 Census of Agriculture, duly reviewed and amended, were considered. Local Bodies also prepared a Check-up Sheet, listing all households considered involved in agriculture.

Methods: From 1-15 February, the enumerators visited all households listed on the Check-up list within the survey section in their charge, and interviewed the head of the household. To those identified as farm households, a questionnaire sheet was distributed. Later, enumerators revisited the households to check the filled-in forms and to conduct a hearing interview. A follow-up survey, based on 1 percent of the Survey Sections, was conducted by application of the random system sampling method.

Data source: Government of Japan - Ministry of Agriculture, Forestry and Fisheries - Statistics Information Department - Report on Results of 1990 World Census of Agriculture and Forestry in Japan, September 1992.

Mailing address: Ministry of Agriculture, Forestry and Fisheries - Statistics and Information Department - 2-1, 1-chome, Kasumigaseki, Chiyoda-ku, Tokyo, Japan - Tel. 0081 3 35028111; Fax 0081 3 35028083.

JAPAN - Agricultural Census 1990 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS | |
|---|-----------|
| Holdings reporting | 3 846 352 |
| Agricultural area | 5 243 000 |
| LEGAL STATUS | |
| Holdings operated by: | |
| An individual or a household | 3 834 732 |
| Corporation | 6 671 |
| Cooperatives | 1 287 |
| Government | 1 145 |
| Other | 2 517 |
| EMPLOYMENT (1) | |
| Household members engaged in agricultural work on the holding | |
| Total | 5 653 000 |
| Male | 2 249 000 |
| Female | 3 404 000 |
| Household members engaged in work off the holding | |
| Total | 6 103 000 |
| Male | 3 826 000 |
| Female | 2 277 000 |
| Household members not economically active | |
| Total | 2 329 000 |
| Male | 715 000 |
| Female | 1 614 000 |
| LAND USE (area) | |
| Agricultural land | 5 243 000 |
| Cropland | 4 596 000 |
| Arable land | 4 121 000 |
| Land under permanent crops | 475 000 |
| Land under perm. meadows/pastures | 647 000 |
| CROPS, TEMPORARY (2) | |
| Wheat | |
| Holdings reporting | 297 655 |
| Area | 244 357 |
| Rice | |
| Holdings reporting | 2 573 859 |
| Area | 1 849 128 |
| Barley | |
| Area | 89 954 |
| Potatoes | |
| Holdings reporting | 1 039 811 |
| Area | 87 743 |
| Sweet potatoes | |
| Holdings reporting | 371 123 |
| Area | 35 075 |

| CROPS, TEMPORARY (2) (cont'd) | |
|--|------------|
| Soybeans | |
| Holdings reporting | 797 272 |
| Area | 98 197 |
| CROPS, PERMANENT | |
| Oranges | |
| Holdings reporting | 18 981 |
| Area | 4 830 |
| Mandarins | |
| Holdings reporting | 139 717 |
| Area | 63 742 |
| Apples | |
| Holdings reporting | 85 099 |
| Area | 44 148 |
| Tea | |
| Holdings reporting | 109 020 |
| Area | 38 763 |
| LIVESTOCK | |
| Cattle | |
| Animals, total | 4 682 000 |
| Dairy cattle | |
| Holdings reporting | 66 700 |
| Animals | 2 031 000 |
| Beef cattle | |
| Holdings reporting | 246 100 |
| Animals | 2 651 000 |
| Pigs | |
| Holdings reporting | 50 200 |
| Animals | 11 866 000 |
| Chickens | |
| Animals, total | 33 293 100 |
| Laying hens | 17 992 500 |
| Broilers | 15 300 600 |
| MACHINERY / EQUIPMENT (units) | |
| 4-Wheel tractors (owned by the holder) | 2 143 000 |
| 2-Wheel tractors (owned by the holder) | 2 185 000 |
| Sprayers / Dusters (owned by the holder) | 1 871 000 |
| Rice transplanters | 1 983 000 |
| Binders | 1 298 000 |
| Harvester-threshers (combines) | 1 215 000 |
| Grain dryers | 1 282 000 |

(1) Data refer to persons 16 years of age and over.

(2) Data refer to 2 971 000 commercial households only.

KOREA, Rep. of - Agricultural Census 1990 - Explanatory Notes

Historical outline: The Republic of Korea participated four times in the decennial World Census of Agriculture Programme, with the agricultural censuses conducted in 1960, 1970, 1980 and lastly in 1990, year to which data here refer. Starting from 1995, the agricultural census will be taken every five years.

Organization: At present, the Agricultural Statistics and Information Bureau (ASIB) of the Ministry of Agriculture and Forestry is responsible for official statistics on agriculture. ASIB consists of four Divisions, of which Production Statistics Division is in charge of conducting agricultural censuses and surveys. Moreover, the Agricultural Statistics and Information Council, consisting of fifteen expert members, provides advice on sample design and survey methods. ASIB manages nine offices at provincial level and 142 offices at city or county level.

Enumeration period: Data were collected from 1 to 15 December 1990.

Reference date: For items to be surveyed at a point in time, data were collected on 1 December 1990; while, for items to be surveyed for a period of time, data were collected for the period 1 December 1989 to 30 November 1990.

Definitions: The selected statistical unit was the agricultural holding, classified either as private farm household or institutional holding.

- Private farm households are:
 - Households directly cultivating an area of at least 0.1 Ha under paddy fields, upland fields and/or land under permanent crops.
 - Households cultivating an area of at least 0.01 Ha of crops under protective cover, or at least 0.07 Ha of nurseries or orchards.
 - Households raising at least one cattle, or 3 pigs/sheep/goats, or 40 head of poultry, or 5 beehives.
 - Households earning at least 400,000 won (1 US\$ = 822 won) by farming.
- Institutional holdings are:
 - Schools, government and public agencies, religious bodies, companies and other organizations/groups falling under the same categories defined above for private farm households.

Coverage: The census covered the entire country.

Frame: Lists of farm households were arranged after checking the households marked as farm households during the 1986 Population and Housing Census. Maps of the Enumeration Districts (EDs) were prepared by modifying the maps used for the Population Census.

Methods: Complete enumeration of all agricultural holdings was carried out by direct interview. Pilot surveys were conducted, covering 17,090 farm households in 244 EDs. Pretesting was also organized by local government bodies, covering 32,938 farm households in 489 EDs. EDs were classified, for census purposes, into the two categories: General and Special EDs. General EDs were created utilizing one or combining two or more Population/Housing Census EDs; they contained approximately 100 farm households. Special EDs were established in urban and mountainous areas and contained approximately 50 farm households. Finally, a total of 20,345 EDs were nationwide established. Qualified government officials, from every level of local administrative units and from regional offices of ASIB, were designated as supervisors. Enumerators were selected, one for each ED, among people well-informed of the situation for the assigned ED.

Data source: Ministry of Agriculture Forestry and Fisheries - Agricultural Census 1990 - Whole Country.

Mailing address: National Statistical Office, Hanta Building 647-15 Yoksam-dong, Kangnam-gu Seoul 135-080, Republic of Korea.

KOREA, Rep. of - Agricultural Census 1990 - Primary Results

Area: in hectares

| NUMBER AND AGRICULTURAL AREA OF HOLDINGS BY SIZE OF CROPLAND AREA OF HOLDING | | |
|--|-----------|-----------|
| Size classes | Number | Area |
| All holdings | 1 768 501 | 1 857 491 |
| Holdings without cropland | 23 957 | 11 076 |
| Under 0.1 Ha | 14 827 | 1 579 |
| 0.1 - 0.2 Ha | 106 372 | 16 986 |
| 0.2 - 0.5 Ha | 362 051 | 130 773 |
| 0.5 - 1 Ha | 544 654 | 407 277 |
| 1 - 2 Ha | 543 182 | 765 943 |
| 2 - 3 Ha | 129 590 | 309 849 |
| 3 Ha and over | 43 868 | 214 008 |
| HOLDINGS BY NUMBER OF PERSONS (1) | | |
| Holdings reporting | | 1 767 033 |
| Holdings with: | | |
| 1 person | 118 735 | |
| 2 to 3 persons | 718 010 | |
| 4 to 5 persons | 637 774 | |
| 6 to 9 persons | 289 445 | |
| 10 persons and over | 3 069 | |
| HOLDERS BY AGE (1) | | |
| Holdings, total | | 1 767 033 |
| Under 20 years of age | 451 | |
| 20 to 24 years of age | 5 520 | |
| 25 to 34 years of age | 123 665 | |
| 35 to 44 years of age | 292 036 | |
| 45 to 54 years of age | 501 183 | |
| 55 to 64 years of age | 520 996 | |
| 65 years of age and over | 323 182 | |
| FARM POPULATION (1) | | |
| Household members, total | | 6 661 322 |
| Male | | 3 278 764 |
| Under 10 years of age | 347 157 | |
| 10 to 14 years of age | 351 476 | |
| 15 to 24 years of age | 640 664 | |
| 25 to 34 years of age | 373 425 | |
| 35 to 44 years of age | 325 823 | |
| 45 to 54 years of age | 458 797 | |
| 55 to 64 years of age | 442 596 | |
| 65 years of age and over | 338 826 | |
| Female | | 3 382 558 |
| Under 10 years of age | 323 332 | |
| 10 to 14 years of age | 348 370 | |
| 15 to 24 years of age | 557 887 | |
| 25 to 34 years of age | 307 972 | |
| 35 to 44 years of age | 352 938 | |
| 45 to 54 years of age | 543 795 | |
| 55 to 64 years of age | 517 893 | |
| 65 years of age and over | 430 371 | |
| EMPLOYMENT (1) (2) | | |
| Household members engaged mainly in agricultural work on the holding | | |
| Total | | 3 071 641 |
| Male | | 1 588 745 |
| Female | | 1 482 896 |
| LAND USE | | |
| Agricultural land | | |
| Area | | 1 857 491 |
| Cropland | | |
| Holdings | | 1 744 544 |
| Area | | 1 823 380 |
| Land under perm. meadows/pastures | | |
| Holdings | | 9 076 |
| Area | | 34 111 |
| CROPS, TEMPORARY (1) (holdings reporting) | | |
| Rice | | 1 505 549 |
| Red pepper | | 1 160 466 |
| Chinese cabbage | | 1 128 369 |
| Radishes | | 1 046 756 |
| Soybeans | | 924 759 |

| CROPS, TEMPORARY (1) (holdings reporting) (cont'd) | |
|--|------------|
| Garlic | 845 563 |
| Red Beans | 419 314 |
| Onions, green | 293 068 |
| Onions, dry | 87 410 |
| Watermelons | 50 085 |
| CROPS, PERMANENT (holdings reporting) | |
| Apples | 70 886 |
| Peaches | 39 574 |
| Grapes | 35 488 |
| Persimmons | 27 990 |
| Oranges | 22 232 |
| Pears | 15 708 |
| Plums | 11 388 |
| Kiwis | 3 034 |
| LIVESTOCK | |
| Cattle | |
| Animals | 2 109 541 |
| Pigs | |
| Holdings reporting | 139 684 |
| Animals | 4 490 952 |
| Chickens | |
| Holdings reporting | 131 990 |
| Animals | 77 228 511 |
| Sheep | |
| Holdings reporting | 309 |
| Animals | 4 164 |
| Goats | |
| Holdings reporting | 87 299 |
| Animals | 325 474 |
| Deer | |
| Holdings reporting | 5 286 |
| Animals | 45 231 |
| Rabbits | |
| Holdings reporting | 24 661 |
| Animals | 209 017 |
| Ducks | |
| Holdings reporting | 25 706 |
| Animals | 822 301 |
| Turkeys | |
| Holdings reporting | 2 109 |
| Animals | 13 979 |
| Quails | |
| Holdings reporting | 415 |
| Animals | 733 845 |
| Beehives | |
| Holdings reporting | 41 538 |
| Units | 488 255 |
| Cocoons | |
| Holdings reporting | 21 738 |
| MACHINERY / EQUIPMENT (holdings reporting) | |
| Tractors | 49 478 |
| Harvester-threshers | 53 630 |
| Power-tillers | 783 131 |
| Sprayers | 636 492 |
| Dusters | 262 705 |
| Binders | 71 646 |
| Threshers | 307 747 |
| Water-pumps | 487 276 |
| Rice-transplanters | 190 825 |
| Grain dryers | 77 704 |

(1) Excluding 1 468 Institutional Holdings with an area of 27 065 Ha.

(2) Household members 15 years of age and over.

MYANMAR - Agricultural Census 1993 - Explanatory Notes

Historical outline: Myanmar participated in the World Census of Agriculture in 1953-54, but the coverage of that census was limited to 2000 village tracts in the neighbourhood of 252 towns. A nationwide Sample Census of Agriculture was carried out in 1993.

Organization: The 1993 Sample Census of Agriculture in Myanmar (MAC), was organized and carried out by the Department of Settlement and Land Records (SLRD) of the Ministry of Agriculture. Financial and technical assistance were provided by the UN Development Program, and by the Food and Agriculture Organization of the UN, through the project "Census and Strengthening of the System of Agricultural Statistics". Township land surveyors belonging to the network of SLRD local offices did the field work. These people served as enumerators under the supervision of township agricultural census officers.

Enumeration period: Census enumeration took place during the period 22 February - 11 April 1993.

Reference date: The 1992-93 agricultural season, corresponding to the 12 months from 1 April 1992 to 31 March 1993, was the reference period.

Definition: The holding is defined as an economic unit of agricultural production, which could be classified as Land holding or as Livestock holding. Holdings could be also classified as household-based, or non-household based (or special), namely cooperatives and public or private enterprises.

Coverage: The 1993 Sample Census of Agriculture covered 272 townships, out of a total of 319, in the 7 States and 7 Divisions of the Union of Myanmar; geographically, the entire country was covered except for a few remote areas with little agricultural activity and a few sparsely populated areas where security was lacking. All agricultural holdings, operated both by households and non-households (see definition) were covered.

Frame: In the preparatory stage of the census 3,105,304 agricultural holdings were listed to define the census frame.

Methods: The country is administratively organized into three levels: Union, State/Division and Township. The sample design used was a stratified two-stage sampling, in which the first stage sampling unit was the Enumeration Area (EA) within the township, and the second stage sampling unit was the agricultural holding within the EA. Every township was divided into a number of EAs: all EAs within a township were first grouped into four strata homogeneous on the basis of irrigation, crops, access, and cropping intensity. At the first stage, samples of EAs were drawn from each stratum with probability proportional to the expected number of holdings. At the second stage, samples of holdings were selected, by means of a systematic random sampling, from those EAs selected at the first stage. A sample of 250,000 holdings, representing almost 8% of the total number of listed holdings, was selected, corresponding to about 18,000 holdings for each State/Division, or to 900 holdings for each township.

Data source: The Government of the Union of Myanmar - Ministry of Agriculture - Settlement and Land Records Department - Report on Myanmar Census of Agriculture 1993 - June 1995.

Mailing address: Ministry of Agriculture - Settlement and Land Records Department - Yangon - Union of Myanmar - Fax 170 0095 1 63984.

MYANMAR - Agricultural Census 1993 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|-----------|------------|
| Size classes | Number | Area |
| All holdings | 2 924 898 | 6 886 956 |
| Holdings without land | 195 078 | 0 |
| Under 0.4 Ha | 187 531 | 36 981 |
| 0.4 - 1.2 Ha | 713 896 | 526 145 |
| 1.2 - 2.02 Ha | 563 183 | 862 477 |
| 2.02 - 4 Ha | 758 833 | 2 142 017 |
| 4 - 8.1 Ha | 413 734 | 2 228 823 |
| 8.1 - 20.2 Ha | 91 061 | 963 757 |
| 20.2 Ha and over | 1 582 | 126 756 |
| FRAGMENTATION (1) | | |
| Holdings, total | | 2 729 820 |
| Holdings with: | | |
| 1 parcel | 1 242 787 | |
| 2 to 3 parcels | 1 046 259 | |
| 4 to 5 parcels | 277 665 | |
| 6 to 9 parcels | 142 025 | |
| 10 parcels and over | 21 084 | |
| Total number of parcels | | 6 132 867 |
| HOLDERS BY AGE (2) | | |
| Holdings, total | | 2 924 305 |
| Under 25 years of age | | 105 850 |
| 25 to 34 years of age | | 564 695 |
| 35 to 44 years of age | | 740 337 |
| 45 to 54 years of age | | 610 608 |
| 55 to 64 years of age | | 555 195 |
| 65 years of age and over | | 347 620 |
| HOLDERS BY SEX (2) | | |
| Holdings, total | | 2 924 305 |
| Male | | 2 632 008 |
| Female | | 292 297 |
| HOLDERS BY TYPE OF ACTIVITY (2) | | |
| Holdings engaged: | | |
| In agricultural work on the holding | 2 758 634 | |
| Permanent | 2 252 995 | |
| Occasional | 505 639 | |
| In work off the holding | 56 216 | |
| Not economically active | 109 455 | |
| HOLDINGS BY NUMBER OF PERSONS (2) | | |
| Holdings with: | | |
| 1 person | 45 412 | |
| 2 to 3 persons | 567 773 | |
| 4 to 5 persons | 1 005 370 | |
| 6 to 9 persons | 1 157 950 | |
| 10 persons and over | 147 800 | |
| FARM POPULATION | | |
| Household members, total | | 15 876 566 |
| Male | | 7 906 835 |
| Under 25 years of age | | 4 334 016 |
| 25 to 34 years of age | | 1 208 361 |
| 35 to 44 years of age | | 877 852 |
| 45 to 54 years of age | | 595 545 |
| 55 to 64 years of age | | 517 636 |
| 65 years of age and over | | 373 425 |
| Female | | 7 969 731 |
| Under 25 years of age | | 4 263 210 |
| 25 to 34 years of age | | 1 222 761 |
| 35 to 44 years of age | | 906 120 |
| 45 to 54 years of age | | 631 076 |
| 55 to 64 years of age | | 539 185 |
| 65 years of age and over | | 407 379 |
| EMPLOYMENT | | |
| Permanent workers | | |
| Household members | 6 085 218 | |
| Hired workers | 382 772 | |
| Holdings with permanent workers | | 279 137 |
| Holdings with occasional workers | | 1 294 373 |

(1) Excluding 195 078 livestock holdings.

| LAND USE (2) | |
|--|-----------|
| Cropland | |
| Area | 6 772 027 |
| Arable land | |
| Holdings reporting | 2 610 480 |
| Area | 6 545 246 |
| Land under temporary crops | |
| Holdings reporting | 2 595 806 |
| Area | 6 316 050 |
| Land temporarily fallow | |
| Holdings reporting | 243 019 |
| Area | 229 196 |
| Land under permanent crops | |
| Holdings reporting | 359 955 |
| Area | 226 781 |
| All other land | |
| Holdings reporting | 85 806 |
| Area | 19 332 |
| IRRIGATION | |
| Normally irrigated land | |
| Holdings reporting | 611 413 |
| Area irrigated | 974 059 |
| CROPS, TEMPORARY (holdings reporting) | |
| Wheat | 92 675 |
| Maize | 181 922 |
| Rice | 1 858 944 |
| Millet / Sorghum | 223 476 |
| Potatoes | 21 854 |
| Cassava | 5 997 |
| Onions | 52 981 |
| Garlic | 17 249 |
| Pulses | 932 224 |
| Sugar cane | 55 454 |
| Groundnuts | 429 446 |
| Sesame seed | 687 607 |
| Sunflower for seed | 104 193 |
| Spices | 138 435 |
| Cotton | 129 612 |
| Tobacco | 40 137 |
| Vegetables | 98 665 |
| Fodder crops | 72 122 |
| CROPS, PERMANENT (holdings reporting) | |
| Citrus fruits | 16 359 |
| Pome fruits | 4 047 |
| Stone fruits | 11 120 |
| Grapes | 1 381 |
| Bananas | 93 343 |
| Edible nuts | 45 238 |
| Coffee | 7 776 |
| Tea | 23 268 |
| Coconut | 122 646 |
| Rubber | 11 710 |
| LIVESTOCK (holdings reporting) | |
| Cattle | 2 032 756 |
| Buffaloes | 443 255 |
| Sheep | 11 664 |
| Goats | 79 894 |
| Pigs | 650 890 |
| Chickens | 1 311 021 |
| Ducks | 226 917 |
| Other poultry | 23 218 |
| MACHINERY / EQUIPMENT (holdings reporting use) | |
| Tractors | 60 788 |
| Power tillers | 20 269 |
| Engine/electric water pumps | 127 018 |
| Fixed power-producing equipment | 5 972 |
| FERTILIZERS / PESTICIDES (holdings reporting use) | |
| Fertilizers | 2 144 907 |
| Pesticides | 546 358 |
| HIGH-YIELDING CROP VARIETIES | |
| Holdings reporting use | 1 006 919 |

(2) Excluding 593 "special holdings" with an area of 95597 ha.

NEPAL - Agricultural Census 1992 - Explanatory Notes

Historical outline: Four Decennial Censuses of Agriculture were taken in Nepal: in 1962, 1972, 1982, and 1992.

Organization: The 1991-92 National Sample Census of Agriculture was organized and conducted under the responsibility of the Central Bureau of Statistics (CBS), of the National Planning Commission Secretariat of His Majesty's Government. About 2,000 personnel were engaged in the field work; nearly 40 percent of enumerators, supervisors, officers at district level, and other census staff were seconded to the CBS from various government offices and about 50 percent were locally recruited. The census was carried out with technical and financial assistance from the UN Development Program and from the Food and Agriculture Organization of the UN.

Enumeration period: The census enumeration was conducted in two phases. In the first phase, from January to March 1992, the enumeration was carried out in 60 Districts in Terai and Hills areas. The remaining 15 Himalayan Districts were enumerated during April to June 1992.

Reference date: Data were collected with respect to the twelve-month reference period January to December 1991. Information on land area and livestock was collected with respect to the day of enumeration.

Definition: The main statistical unit of the agricultural census is the agricultural holding, which is defined as an economic unit of agricultural production reporting at least:

- an area under crops of 0.012 Ha in hill/mountain districts, and of 0.014 Ha in lowland districts, or
- 2 cattle or buffaloes or
- 5 sheep or goats or
- 20 poultry or
- a combination of livestock equivalent to 2 cattle/buffaloes.

Holdings without land are shown in the table as having a small area of land.

Coverage: The census covered all districts of the Kingdom. Only the agricultural holdings operated by households were included in the census; agricultural activities undertaken by government organizations, businesses, etc. were excluded from the census.

Frame: Some 5,100 Enumeration Areas (EA), including at least 30 holdings, were firstly selected. Lists of all agricultural holdings in each EA, used as the basis for the selection of the Probability Proportional to Size (PPS) sample, were obtained from the Population Census. The holdings were identified on the basis of the place of residence of the holder.

Methods: The basic sampling methodology used was a two-stage sampling applied as follows:

- First stage: a stratified sample of EAs with probability proportional to the expected number of holdings (stratified PPS), was selected. To select the sample of EAs, the districts were divided into four groups according to the importance of their agricultural production.
- Second stage: within the selected EAs, a sample of 20 to 30 agricultural holdings was drawn using a stratified systematic random sampling. To select the sample, the universe of holdings was divided into four strata based on the size of holdings, and a systematic random sampling was applied to each stratum. All holdings in each district were given the same chance to be selected. The final sample at country level was of about 122,000 holdings (4.5 percent of the total).

The District of Manang was completely enumerated because of its small number of holdings.

Data source: His Majesty's Government - National Planning Commission Secretariat - Central Bureau of Statistics - National Sample Census of Agriculture 1991-92 - Kathmandu, Nepal 1993.

Mailing address: His Majesty's Government, Ministry of Agriculture, Agriculture Communication Division - Kathmandu, Nepal; Tel. 5-22248, 5-22258, 5-25617.

NEPAL - Agricultural Census 1992 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|-----------|------------|
| Size classes | Number | Area |
| All holdings | 2 736 050 | 2 598 971 |
| Holdings without land | 32 109 | 1 571 |
| Under 0.2 Ha | 436 769 | 47 563 |
| 0.2 - 0.5 Ha | 729 267 | 244 779 |
| 0.5 - 1 Ha | 711 666 | 499 541 |
| 1 - 2 Ha | 529 467 | 716 532 |
| 2 - 3 Ha | 168 449 | 400 227 |
| 3 - 4 Ha | 59 574 | 202 361 |
| 4 - 5 Ha | 28 591 | 125 728 |
| 5 - 10 Ha | 31 952 | 209 338 |
| 10 Ha and over | 8 206 | 151 331 |
| FRAGMENTATION OF HOLDINGS | | |
| Holdings with: | | |
| 1 parcel | | 492 285 |
| 2 to 3 parcels | | 1 103 003 |
| 4 to 5 parcels | | 571 289 |
| 6 to 9 parcels | | 392 488 |
| 10 parcels and over | | 176 985 |
| Parcels | | 10 831 202 |
| TENURE (1) | | |
| Holdings operated under one form of tenure | | |
| Holdings | | 2 325 802 |
| Area | | 2 154 248 |
| Holdings owned or in ownerlike possession | | |
| Holdings | | 2 258 764 |
| Area | | 2 110 960 |
| Holdings rented from others | | |
| Holdings | | 49 114 |
| Area | | 36 149 |
| For a fixed amount of money and/or produce | | |
| Area | | 10 302 |
| For a share of produce | | |
| Holdings | | 19 511 |
| Area | | 20 605 |
| In exchange for services | | |
| Holdings | | 6 045 |
| Area | | 1 422 |
| Under other rental arrangements | | |
| Area | | 3 820 |
| Holdings under other single forms of tenure | | |
| Holdings | | 17 924 |
| Area | | 7 139 |
| Holdings under more than one form of tenure | | |
| Holdings | | 400 768 |
| Area | | 444 723 |
| HOLDERS BY AGE | | |
| Holders, total | | 2 736 050 |
| Under 15 years of age | | 4 747 |
| 15 to 24 years of age | | 134 830 |
| 25 to 34 years of age | | 556 589 |
| 35 to 44 years of age | | 774 562 |
| 45 to 54 years of age | | 656 133 |
| 55 to 64 years of age | | 406 805 |
| 65 years of age and over | | 202 384 |
| HOLDERS BY SEX | | |
| Holders, total | | 2 736 050 |
| Male | | 2 560 413 |
| Female | | 175 637 |
| FARM POPULATION | | |
| Household members, total | | 16 258 220 |
| Male | | 8 496 843 |
| Under 10 years of age | | 2 287 403 |
| 10 to 14 years of age | | 1 112 842 |
| 15 to 24 years of age | | 1 634 689 |
| 25 to 34 years of age | | 1 161 255 |
| 35 to 44 years of age | | 915 417 |
| 45 to 54 years of age | | 681 105 |
| 55 to 64 years of age | | 433 451 |
| 65 years of age and over | | 270 681 |

| FARM POPULATION (cont'd) | |
|---------------------------------------|-----------|
| Female | 7 761 377 |
| Under 10 years of age | 2 127 366 |
| 10 to 14 years of age | 948 122 |
| 15 to 24 years of age | 1 489 532 |
| 25 to 34 years of age | 1 152 431 |
| 35 to 44 years of age | 874 242 |
| 45 to 54 years of age | 584 214 |
| 55 to 64 years of age | 356 456 |
| 65 years of age and over | 229 014 |
| EMPLOYMENT | |
| Household members economically active | |
| Total | 8 379 647 |
| Male | 4 696 445 |
| female | 3 683 202 |
| Permanent workers | |
| Total | 301 674 |
| Male | 230 282 |
| female | 71 392 |
| LAND USE (area) | |
| Agricultural land | 2 390 648 |
| Cropland | 2 353 716 |
| Arable land | 2 324 330 |
| Land under temporary crops | 2 284 672 |
| Land under temporary meadows | 7 939 |
| Land temporarily fallow | 29 205 |
| All other arable land | 2 514 |
| Land under permanent crops | 29 386 |
| Land under perm. meadows/pastures | 36 932 |
| Wood or forest land | 108 845 |
| All other land | 99 478 |
| Unused and potentially productive | 12 331 |
| Not classified elsewhere | 87 147 |
| IRRIGATION | |
| Normally irrigated land | |
| Holdings reporting | 1 377 994 |
| Area | 882 595 |
| CROPS, TEMPORARY (area) | |
| Rice | 1 481 256 |
| Maize | 768 743 |
| Wheat | 633 074 |
| Millet | 301 540 |
| Rapeseed / Mustard | 182 414 |
| Lentils | 160 727 |
| Chickpeas (grams) | 77 438 |
| Potatoes | 70 495 |
| Linseed | 67 657 |
| Barley | 46 157 |
| CROPS, PERMANENT (area) | |
| Mangoes | 15 203 |
| Tea | 3 467 |
| Oranges | 2 390 |
| Bananas | 2 126 |
| Apples | 605 |
| Jackfruit | 587 |
| Lemons | 446 |
| Guavas | 358 |
| Lichees | 277 |
| Pineapples | 249 |
| LIVESTOCK (holdings reporting) | |
| Cattle | 2 067 141 |
| Chaurri | 9 049 |
| Buffaloes | 1 307 832 |
| Sheep | 92 748 |
| Goats | 1 382 786 |
| Pigs | 267 465 |
| Chickens | 1 400 435 |
| MACHINERY / EQUIPMENT (units) | |
| Tractors | 5 542 |
| Threshers | 19 932 |

(1) Excluding 9 480 holdings without land.

PAKISTAN - Agricultural Census 1990 - Explanatory Notes

Historical outline: The first Census of Agriculture in Pakistan was taken in 1960, the second in 1972, the third in 1980; notes and data here presented refer to the fourth Agricultural Census, conducted in 1990.

Organization: The Agricultural Census Organization, in charge of census undertaking, works as a Department attached to the Economic Affairs and Statistics Division of the Ministry of Finance and Economic Affairs. There were 5690 enumerators, 1597 supervisors and other 624 officers, at district and other administrative sub-division level, engaged in census operations.

Enumeration period: The census enumeration was conducted during two different periods: February-March, and May-June 1990.

Reference date: Data on land utilization pertain to the agricultural year 1989-90. Data on number and size of farms and other items refer to the day of enumeration.

Definition: Holding (Farm) is the aggregate area of land operated by members of one household alone or together with members of other households, without regard to location, size or title, and normally used for agricultural production. Holdings wholly uncultivated during the census year were included in the census. Holdings without land but having at least one head of cattle or buffaloes or 5 sheep and/or goats (livestock holdings), were also included in the census.

Coverage: The census covered the entire country.

Frame: The frames prepared were:

- a list of National Certainty Holdings, comprising all government farms and private farms of more than 61 or 101 Ha according to their frequency;
- a list of Mouzas (villages) containing rural mouzas arranged by Patwar or Kanungo Circles (groups of villages reporting a uniform assessment rate originated by similar conditions of soil, rainfall, climate, etc.); purely forest and urban mouzas were excluded;
- a complete list of Urban Wards;
- a list of Households in selected mouzas.

Methods: In rural settled areas of North West Frontier, Punjab and Sindh Provinces, a three-stage weighted and stratified sample design was used, whereas a single stage weighted sample design was applied in rural settled areas of Balochistan Province. In entirely urban areas, unsettled rural areas, and tribal areas, a single stage systematic sample design was used. In the Three-Stage Sample, Patwar circles in the first stage, and mouzas in the second stage were selected with probability proportional to size; whereas in the third stage, households, in the form of roughly equal clusters, were selected with equal probability. The total number of statistical units selected was: 3083 Patwar Circles at first stage, 8792 Mouzas/Villages and 1624 Urban Wards at second stage, and 1,142,231 Households at third stage. A Post Enumeration Survey followed the census enumeration.

Data source: Government of Pakistan - Economic Affairs and Statistics Division - Agricultural Census Organization - 1990 Census of Agriculture, All Pakistan Report.

Mailing address: Agricultural Census Organization, Economic Affairs and Statistics Division, Government of Pakistan, Gulberg - III, Lahore - Tel. 009251 210088/824756; Fax 009251 221246.

PAKISTAN - Agricultural Census 1990 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|--|-----------|------------|
| Size classes | Number | Area |
| All holdings | 5 071 112 | 19 252 672 |
| Government holdings | 149 | 103 035 |
| Under 0.5 Ha | 678 538 | 193 126 |
| 0.5 - 1 Ha | 689 233 | 510 397 |
| 1 - 2 Ha | 1 036 286 | 1 446 796 |
| 2 - 5 Ha | 1 698 682 | 5 283 232 |
| 5 - 10 Ha | 623 110 | 4 134 346 |
| 10 - 20 Ha | 237 929 | 3 032 872 |
| 20 - 60 Ha | 91 831 | 2 613 767 |
| 60 Ha and over | 15 354 | 1 935 101 |
| FRAGMENTATION OF HOLDINGS | | |
| Holdings with: | | |
| 1 parcel | | 2 414 964 |
| 2 to 3 parcels | | 1 873 142 |
| 4 to 5 parcels | | 454 087 |
| 6 to 9 parcels | | 235 148 |
| 10 parcels and over | | 93 771 |
| Parcels | | 9 579 603 |
| TENURE (1) | | |
| Holdings operated under one form of tenure | | |
| Holdings | | 4 444 545 |
| Area | | 15 514 874 |
| Holdings owned or in ownerlike possession | | |
| Holdings | | 3 490 988 |
| Area | | 12 433 598 |
| Holdings rented from others | | |
| Holdings | | 953 557 |
| Area | | 3 081 276 |
| For an agreed amount of money/produce | | |
| Area | | 716 429 |
| For an share of produce | | |
| Area | | 2 305 793 |
| Under other rental arrangements | | |
| Area | | 59 054 |
| Holdings under more than one form of tenure | | |
| Holdings | | 626 418 |
| Area | | 3 634 763 |
| FARM POPULATION | | |
| Household members, total | | 93 973 600 |
| Male | | 49 017 400 |
| Under 10 years of age | | 17 954 700 |
| 10 years of age and over | | 31 062 700 |
| Female | | 44 956 200 |
| Under 10 years of age | | 16 785 600 |
| 10 years of age and over | | 28 170 600 |
| EMPLOYMENT (2) | | |
| Household members engaged mainly in agricultural work on the holding | | 17 455 931 |
| Hired permanent workers | | |
| Holdings reporting use | | 228 526 |
| Workers | | 486 913 |
| Hired occasional workers | | |
| Holdings reporting use | | 2 556 946 |
| LAND USE (area) | | |
| Cropland | | 15 631 547 |
| Land under crops | | 14 980 612 |
| Land temporarily fallow | | 650 935 |
| Wood or forest land | | 304 380 |
| All other land | | 3 316 745 |
| IRRIGATION | | |
| Land normally irrigated | | 12 566 861 |
| Area | | |

| CROPS, TEMPORARY (holdings reporting) | |
|---------------------------------------|------------|
| Wheat | 4 182 820 |
| Rice | 1 354 766 |
| Cotton | 1 310 820 |
| Maize | 1 067 098 |
| Sugar cane | 862 219 |
| Potatoes | 105 254 |
| CROPS, PERMANENT (holdings reporting) | |
| Mangoes | 333 541 |
| Oranges | 89 009 |
| Lemons | 137 119 |
| Guavas | 122 421 |
| Apples | 156 353 |
| Pears | 77 545 |
| Pomegranates | 57 489 |
| Dates | 223 618 |
| Bananas | 38 506 |
| Papayas | 1 975 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 4 039 765 |
| Animals | 14 717 837 |
| Buffaloes | |
| Holdings reporting | 4 261 480 |
| Animals | 14 547 424 |
| Sheep | |
| Holdings reporting | 1 151 455 |
| Animals | 18 027 930 |
| Goats | |
| Holdings reporting | 4 283 977 |
| Animals | 30 078 854 |
| Camels | |
| Holdings reporting | 326 916 |
| Animals | 716 660 |
| Horses | |
| Holdings reporting | 210 305 |
| Animals | 268 017 |
| Mules | |
| Holdings reporting | 42 416 |
| Animals | 59 130 |
| Asses | |
| Holdings reporting | 1 413 446 |
| Animals | 1 851 072 |
| MACHINERY / EQUIPMENT | |
| Holdings reporting use of: | |
| Tractors | |
| owned by the holder | 285 268 |
| rented from others | 3 287 528 |
| Threshers | |
| owned by the holder | 151 795 |
| rented from others | 2 819 743 |
| Sprayers | |
| owned by the holder | 271 469 |
| rented from others | 1 137 030 |
| FERTILIZERS / PESTICIDES | |
| Holdings reporting use of: | |
| Fertilizers | 4 213 055 |
| Pesticides | 1 280 318 |

(1) Excluding 149 government holdings with an area of 103 035 Ha.
(2) Household members 10 years of age and over.

PHILIPPINES - Agricultural Census 1991 - Explanatory Notes

Historical outline: The 1991 Census of Agriculture (CA) is the fourth decennial census of agriculture undertaken by the National Statistics Office (NSO) of the Republic of the Philippines, after those conducted in 1981, 1971 and 1960. Censuses of agriculture were also conducted in 1903, 1918, 1939 and 1948 in connection with population censuses, but on a limited scale.

Organization: The 1991 CA was a joint venture between the NSO and the Department of Agriculture (DA). The NSO, as the agency of the government that is given the mandate to conduct all official censuses in the country, served as the lead agency for the 1991 CA. The DA, as the major user of the CA, provided the facilities, manpower and logistic support for the implementation of the 1991 CA. The field work, i.e. the listing and enumeration of agricultural operators for the 1991 CA, was carried out by a pool of about 25,000 enumerators throughout the country, supervised by about 10,000 supervisors.

Enumeration period: Data were collected during the period 13 February to 13 March 1992.

Reference date: Data refer to the calendar year 1 January to 31 December 1991.

Definitions:

- Small farms are those reporting one of the following:
 - At least 1000 sq. m. devoted to crops;
 - At least 10 Ha under permanent meadows/pastures;
 - At least 10 head of large animals (e.g. carabaos), or 20 head of small animals (e.g. pigs), or 100 head of poultry, or 50 rabbits;
 - A combination of land area and animals amount of at least 10 agricultural units (one agricultural unit is equivalent to 1/10 of the cut-off in each of the above mentioned categories).
- Large farms are those reporting one of the following:
 - At least 4 Ha devoted to crops;
 - At least 20 Ha under permanent meadows/pastures;
 - At least 10 head of large animals (e.g. carabaos), or 50 head of small animals (e.g. pigs), or 500 head of poultry, or 50 rabbits.

Coverage: The census covered the entire country. The 1690 cities and municipalities in the 73 provinces of the country were the domains of the CA. All households from the sampled Barangays (administrative subdivisions, used as enumeration areas for census purposes), whether in rural or in urban areas, were listed.

Frame: The sampling frames were constructed by integrating the lists of Barangays used for the 1990 Census of Population and Housing with the 1980 CA data on total farm area (TFA).

Methods: The 1991 CA adopted a systematic sampling of an ordered population for the 73 provinces, and a simple systematic sampling method for the National Capital Region (NCR). The ultimate sampling units were the Barangays which in the 73 provinces, but with the exclusion of the NCR, were ranked by descending order of TFA. The Barangays with highest TFA were automatically part of the sample and they were referred to as the certainty Barangays. Then, fifty percent of the remaining Barangays were chosen systematically. The total sample Barangays, referred to as non-certainty Barangays, were 21,011, representing 52% sampling rate nationwide excluding NCR. The NCR was divided into four subregions, each of which was, in turn, subdivided into districts. The sampling was done independently in each district. Included in the sample were those Barangays reporting 100 Ha or more of farm area, or 100 hogs or 500 heads of poultry. One tenth of the remaining Barangays not included in the above criteria were chosen using a simple systematic sampling.

Data source: National Statistics Office - 1991 Census of Agriculture, Final Report, Vol. 1, and 2 - Manila, Republic of the Philippines.

Mailing address: National Statistical Coordination Board - 2nd & 5th fls. Midland, Buendia Bldg. 403 Sen. Gil. J. Puyat Av. extension Makati, Metro Manila, Philippines.

PHILIPPINES - Agricultural Census 1991 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|-----------|-----------|
| Size classes | Number | Area |
| All holdings | 4 610 041 | 9 974 871 |
| Under 0.5 Ha | 822 625 | 196 415 |
| 0.5 - 1 Ha | 862 755 | 531 697 |
| 1 - 2 Ha | 1 313 696 | 1 607 689 |
| 2 - 3 Ha | 653 943 | 1 430 217 |
| 3 - 5 Ha | 523 201 | 1 835 084 |
| 5 - 7 Ha | 240 361 | 1 355 226 |
| 7 - 10 Ha | 84 881 | 691 154 |
| 10 - 25 Ha | 95 537 | 1 293 385 |
| 25 Ha and over | 13 042 | 1 034 004 |
| FRAGMENTATION OF HOLDINGS | | |
| Holdings with: | | |
| 1 parcel | | 1 811 096 |
| 2 to 3 parcels | | 2 461 644 |
| 4 to 5 parcels | | 277 978 |
| 5 to 9 parcels | | 53 942 |
| 10 parcels and over | | 5 381 |
| TENURE | | |
| Holdings operated under one form of tenure | | |
| Number | | 3 087 525 |
| Area | | 6 748 788 |
| Holdings owned or in ownerlike possession | | |
| Holdings | | 1 999 979 |
| Area | | 4 855 059 |
| Holdings rented from others | | |
| Holdings | | 1 051 976 |
| Area | | 1 775 752 |
| Holdings under other single forms of tenure | | |
| Holdings | | 35 570 |
| Area | | 117 977 |
| Holdings under more than one form of tenure | | |
| Number | | 1 522 516 |
| Area | | 3 226 083 |
| LAND USE | | |
| Agricultural Land | | |
| Area | | 9 790 440 |
| Cropland | | |
| Area | | 9 659 497 |
| Arable land | | |
| Area | | 5 486 957 |
| Land under temporary crops | | |
| Holdings | | 3 338 734 |
| Area | | 5 332 770 |
| Land under temporary meadows | | |
| Holdings | | 25 481 |
| Area | | 83 682 |
| Land temporarily fallow | | |
| Holdings | | 44 370 |
| Area | | 70 505 |
| Land under permanent crops | | |
| Holdings | | 1 856 322 |
| Area | | 4 172 540 |
| Land under perm. meadows/pastures | | |
| Holdings | | 13 802 |
| Area | | 130 943 |
| Wood or forest land | | |
| Holdings | | 17 092 |
| Area | | 70 144 |
| All other land | | |
| Holdings | | 1 849 928 |
| Area | | 114 287 |
| IRRIGATION | | |
| Normally irrigated land | | |
| Holdings reporting | | 1 473 164 |
| Area | | 2 296 111 |
| CROPS, TEMPORARY (holdings reporting) | | |
| Rice | | 2 367 084 |
| Maize | | 1 771 618 |
| Sugarcane | | 208 618 |
| Groundnuts | | 129 933 |
| Tobacco | | 99 527 |

| CROPS, PERMANENT (holdings reporting) | |
|--|-----------|
| Bananas | 3 258 942 |
| Coconut | 2 742 425 |
| Mangoes | 1 565 340 |
| Jackfruit | 1 372 597 |
| Guavas | 1 033 759 |
| Papaw | 880 608 |
| Star apple | 853 637 |
| Santol | 737 548 |
| Avocados | 653 395 |
| Guayabano | 531 117 |
| Cocoa | 479 239 |
| Bamboo | 444 018 |
| Ipil-ipil | 307 727 |
| Tamarind | 281 925 |
| Pomelos | 276 069 |
| Coffee (arabica) | 191 608 |
| Cashew nuts | 108 113 |
| Mandarins | 97 845 |
| Lemons | 97 217 |
| Durian | 94 185 |
| Oranges | 92 859 |
| Abaca | 90 710 |
| Rambutan | 64 026 |
| Kapok | 57 159 |
| Rubber | 32 188 |
| Black pepper | 27 277 |
| Palm tree | 19 547 |
| Limes | 14 098 |
| Mangosteen | 12 191 |
| Grapes | 5 489 |
| Ramie | 2 360 |
| Tea | 2 230 |
| Sisal | 494 |
| Kenaf | 489 |
| LIVESTOCK (holdings reporting) | |
| Cattle | 899 353 |
| Carabaos | 1 810 937 |
| Pigs | 2 551 789 |
| Goats | 867 999 |
| Chickens | 3 627 762 |
| Ducks | 561 977 |
| Geese | 40 018 |
| Turkeys | 85 772 |
| Pigeons | 48 304 |
| Quails | 13 905 |
| MACHINERY / EQUIPMENT (holdings reporting use) | |
| Electric motors | 2 755 |
| Electric generators | 7 241 |
| 4-Wheel tractors | 86 199 |
| Track-laying tractors | 14 987 |
| 2-Wheel tractors | 671 956 |
| Harvester-threshers (combines) | 17 692 |
| Mowers | 8 762 |
| Sprayers / Dusters | 1 879 347 |
| Ploughs | 2 695 129 |
| Irrigation pumps | 57 922 |
| Cars, jeeps, trucks | 165 220 |
| HIGH-YIELDING CROP VARIETIES | |
| Holdings reporting use | 1 775 805 |
| FERTILIZERS / PESTICIDES | |
| Holdings reporting use of: | |
| Inorganic fertilizers | 2 320 461 |
| Organic fertilizers | 987 860 |
| Pesticides | 2 149 760 |
| USE OF NON-RESIDENTIAL BUILDINGS | |
| Holdings reporting use of: | |
| Warehouse / Granary | 37 488 |
| Livestock-house | 764 563 |
| Poultry-house | 621 434 |
| Farm-shed | 40 553 |

THAILAND - Agricultural Census 1988 - Explanatory Notes

Historical outline: The first Agricultural Census in Thailand was conducted in 1950, the second in 1963, the third in 1978; the fourth agricultural census, initially planned for 1988, was postponed to 1993 to follow the 1990 Population Census. During the period 1978-1993 two Intercensal Surveys of Agriculture, in 1983 and in 1988, were carried out. The 1993 census results are still expected and will be reported when available; in the meanwhile, notes and data of the 1988 Agricultural Survey are presented.

Organization: The 1988 Intercensal Survey of Agriculture was organized and conducted by the Agricultural Statistics Section - Economic Statistics Branch - Economic Survey Division of the National Statistical Office. There were 500 permanent field staff of the National Statistical Office involved in listing all households in sampled villages.

Enumeration period: The Enumeration Day was 1 May 1988.

Reference date: Data on legal status of the holder, farm population, permanent crops, number of livestock and number of machinery and equipment refer to the day of enumeration. Data on type of activity of household members, temporary crops, use of fertilizers and source of machinery refer to the agricultural year 1 May 1987 - 30 April 1988. Reference date for area of holdings, land tenure and land use is 1 October 1987.

Definition: A holding is an economic unit of agricultural production reporting at least:

- 0.32 Ha of operated area, or
- 5 cattle or buffaloes or pigs, or
- 100 ducks or chickens, or
- an income of 6000 baht (about US \$240), earned from selling crops or animals or animal products during the 12 months preceding the census.

Coverage: All agricultural holdings located outside the municipal areas of the Provinces were covered. The agricultural holdings located in 11 districts of special agricultural interest of the suburban areas of Bangkok Metropolis were also covered.

Frame: For the selection of the Primary Sampling Unit (PSU), a listing of all villages was made; for the selection of the Secondary Sampling Unit (SSU), a list of all households in the PSU was drawn up.

Methods: A stratified two-stage sampling design was adopted for the survey. Regions, consisting of provinces, were stratified into four primary strata. Provinces were in turn stratified into 73 sub-strata and, in each province, the villages were divided into three groups based on different areas of planted rice. Villages were the first stage sampling units (PSU) and holders the second stage sampling units (SSU). Enumerators were sent out to visit all heads of households and to fill in the listing form in 6000 sampled out of 59,408 villages. Then, 120,000 sample holdings throughout the whole country were selected and interviewed. Detailed information was recorded in the enumeration form.

Data source: National Statistical Office - Office of the Prime Minister - Report of the 1988 Intercensal Survey of Agriculture (Whole Kingdom), 1992.

Mailing address: Agricultural Statistics Section - Economic Statistics Branch - Economic Survey Division of the National Statistical Office, Office of the Prime Minister. Bangkok, Thailand; Tel. 282 - 1518.

THAILAND - Agricultural Census 1988 (1)- Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | | LAND USE (area) | |
|---|------------|------------|---|------------|
| Size classes | Number | Area | Agricultural land | 16 533 531 |
| All holdings | 4 877 424 | 17 463 921 | Land under crops | 16 382 287 |
| Under 0.1 Ha | 703 047 | 438 156 | Land under temporary crops | 14 177 986 |
| 0.1 - 1.6 Ha | 602 157 | 734 363 | Land under permanent crops | 2 204 301 |
| 1.6 - 6.4 Ha | 2 910 845 | 9 534 973 | Land under perm. meadows/pastures | 151 244 |
| 6.4 - 22.4 Ha | 639 318 | 5 796 433 | Wood or forest land | 372 004 |
| 22.4 Ha and over | 22 057 | 959 996 | All other land | 558 385 |
| TENURE (2) | | | CROPS, TEMPORARY | |
| Holdings operated under one form of tenure | | | Rice | |
| Holdings | 4 461 889 | | Holdings reporting | 3 754 361 |
| Area | 15 493 815 | | Area | 10 225 132 |
| Holdings owned or in ownerlike possession | | | Maize | |
| Holdings | 4 242 092 | | Holdings reporting | 558 993 |
| Area | 14 737 662 | | Area | 1 458 194 |
| Holdings rented from others | | | Sugar cane | |
| Holdings | 173 578 | | Holdings reporting | 125 844 |
| Area | 571 254 | | Area | 548 005 |
| Holdings under other single forms of tenure | | | Cassava | |
| Holdings | 46 219 | | Holdings reporting | 819 710 |
| Area | 184 899 | | Area | 1 680 285 |
| Holdings under more than one form of tenure | | | Soybeans | |
| Holdings | 411 747 | | Holdings reporting | 188 089 |
| Area | 1 970 106 | | Area | 258 379 |
| LEGAL STATUS | | | Kenaf | |
| Holdings operated by: | | | Holdings reporting | |
| An individual or a household | 4 867 502 | | Area | 126 778 |
| Two or more individuals or households | 8 933 | | PERMANENT CROPS (holdings reporting) | |
| Other | 989 | | Rubber | 427 407 |
| HOLDINGS BY NUMBER OF PERSONS | | | Coffee | 53 065 |
| Total holdings reporting | | | Coconut | 1 178 664 |
| Holdings with: | | | LIVESTOCK | |
| 1 to 3 persons | 1 293 847 | | Cattle | |
| 4 to 5 persons | 2 182 247 | | Holdings reporting | |
| 6 to 7 persons | 1 033 890 | | Animals | |
| 8 to 9 persons | 286 255 | | Buffaloes | |
| 10 persons and over | 80 196 | | Holdings reporting | |
| FARM POPULATION | | | Animals | |
| Household members, total | | | Pigs | |
| Male | 11 479 605 | | Holdings reporting | |
| Under 25 years of age | 5 709 956 | | Animals | |
| 25 to 34 years of age | 1 781 309 | | Chickens | |
| 35 to 44 years of age | 1 374 810 | | Holdings reporting | |
| 45 to 54 years of age | 869 433 | | Animals | |
| 55 to 64 years of age | 493 935 | | Ducks | |
| 65 years of age and over | 499 989 | | Holdings reporting | |
| Female | 11 414 455 | | Animals | |
| Under 25 years of age | 5 499 380 | | MACHINERY / EQUIPMENT (holdings reporting use) | |
| 25 to 34 years of age | 1 841 396 | | Tractors | |
| 35 to 44 years of age | 1 465 794 | | Power tillers | |
| 45 to 54 years of age | 1 292 019 | | Threshers | |
| 55 to 64 years of age | 815 877 | | Seeders | |
| 65 years of age and over | 499 989 | | Fertilizer distributors | |
| EMPLOYMENT (3) | | | FERTILIZERS / PESTICIDES | |
| Household members engaged in agricultural work on the holding | | | Fertilizers | |
| | 16 552 471 | | Holdings reporting use | |
| Household members engaged in work off the holding | | | 3 826 048 | |
| | 693 381 | | | |
| Household members not economically active | | | | |
| | 2 023 030 | | | |
| Permanent workers | | | | |
| Holdings reporting use | 185 709 | | | |
| Workers, total | 543 808 | | | |
| Male | 296 060 | | | |
| Female | 247 748 | | | |

(1) 1988 Intercensal Survey of Agriculture.

(2) Excluding 3 788 holdings without land.

(3) Data refer to household members 11 years of age and over.

TURKEY - Agricultural Census 1991 - Explanatory Notes

Historical outline: The 1991 General Agricultural Census (GAC) is the sixth taken in Turkey, after those carried out in 1927, 1950, 1963, 1970 and 1980. In addition to organizing current agricultural statistics compiled annually by local agricultural technicians and sent to the Ministry of Agriculture and Rural Affairs, the State Institute of Statistics (SIS) conducts a census every ten years to measure changes in agricultural structure. The 1991 GAC consists of two Surveys: the Villages Information Census (full census of villages) and the Agricultural Holdings/Households Sample Survey, to which the following notes and data refer.

Organization: The 1991 GAC was organized by the SIS with the collaboration of the Ministry of Agriculture and Rural Affairs. Census committees and working groups were formed in each Province and District under the chairmanship of the Governors. Comments from several organizations and recommendations from FAO were taken into consideration.

Enumeration period: The census was carried out between 27 May and 15 October 1991.

Reference date: The production year considered was from October 1990 to October 1991.

Coverage: For census purposes, the country was divided into nine agricultural regions.

- In the villages/settlements having 5000 inhabitants and more, all holdings satisfying the following conditions were enumerated:
 - in the agricultural regions identified as Region n. 1, 3, 5, 6, and 9, holdings having at least 50 hectares of irrigated land or 100 hectares of not-irrigated land regardless of number of livestock owned, were covered;
 - in the agricultural regions identified as Region n. 2, 4, 7, and 8, holdings having at least 25 hectares of irrigated land or 50 hectares of not-irrigated land regardless of number of livestock owned, were covered;
 - regardless of regional differences, all holdings having 300 sheep and/or goats and 100 cattle and/or buffaloes were covered.
- In the villages/settlements having less than 5000 inhabitants, all holdings, regardless of size, were listed.

Frame: The frame for the selection of the first-stage sampling unit (village/settlement) was a list of settlements obtained from the results of the 1990 General Census of Population; main information on these settlements was compiled through Agricultural Directorates in each district. The frame for the second-stage sampling unit (the agricultural holding/household) was a list composed in collaboration with government village administrators and village councils, reporting information on area and number of livestock for all agricultural holdings in the sample settlements obtained at the first stage.

Methods: Holdings in villages/settlements with 5000 inhabitants and more were completely enumerated, while a two-stage sampling design was applied to holdings located in villages with less than 5000 inhabitants. The first-stage sampling units were villages/settlements with less than 5000 inhabitants, which were selected with probability proportional to village size. The second-stage sampling unit was the agricultural holding, which in rural areas generally corresponds to a household. In weighing costs, capacity of labour force, previous census experience on the one hand, and the required degree of precision on the other, the number of sample holdings was determined at 32000. Eight holdings were drawn by the systematic sample selection method from each sample village/settlement. Thus, the Agricultural Holdings Survey was conducted in 4000 village/settlements.

Data source: General Agricultural Census 1991, Results of the Agricultural Holdings (Households) Survey.

Mailing address: State Institute of Statistics, Prime Ministry - Necatibey Cadessi N. 114, 06100 Ankara, Turkey.

TURKEY - Agricultural Census 1991 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|-----------|------------|
| Size classes | Number | Area |
| All holdings | 4 068 432 | 23 451 099 |
| Holdings without land | 101 610 | 0 |
| Under 0.5 Ha | 251 686 | 66 706 |
| 0.5 - 1 Ha | 381 287 | 251 109 |
| 1 - 2 Ha | 752 156 | 1 004 250 |
| 2 - 5 Ha | 1 274 609 | 3 866 896 |
| 5 - 10 Ha | 713 149 | 4 675 069 |
| 10 - 20 Ha | 383 323 | 4 921 663 |
| 20 - 50 Ha | 173 774 | 4 648 743 |
| 50 - 100 Ha | 24 201 | 1 498 249 |
| 100 - 250 Ha | 10 266 | 1 385 662 |
| 250 - 500 Ha | 1 930 | 653 808 |
| 500 Ha and over | 441 | 478 944 |
| FRAGMENTATION | | |
| Holdings with: | | |
| 1 to 3 parcels | | 1 716 301 |
| 4 to 5 parcels | | 904 028 |
| 6 to 9 parcels | | 759 531 |
| 10 parcels and over | | 586 962 |
| Parcels | | 21 601 272 |
| TENURE (1) | | |
| Holdings operated under one form of tenure | | |
| Holdings | | 3 964 962 |
| Area | | 23 443 689 |
| Holdings owned or in ownerlike possession | | |
| Holdings | | 3 901 389 |
| Area | | 23 227 689 |
| Holdings rented from others | | |
| Holdings | | 46 636 |
| Area | | 135 815 |
| Holdings under other single forms of tenure | | |
| Holdings | | 16 937 |
| Area | | 80 185 |
| Holdings under more than one form of tenure | | |
| Holdings | | 1 860 |
| Area | | 7 410 |
| LEGAL STATUS | | |
| Holdings operated by: | | |
| An individual or a household | | 4 046 297 |
| Two or more individuals or households | | 22 135 |
| EMPLOYMENT | | |
| Household members engaged mainly in agricultural work | | |
| Total | | 11 806 559 |
| Male | | 6 257 708 |
| Female | | 5 548 851 |
| Household members engaged mainly in non agricultural work | | |
| | | 1 319 982 |
| Occasional workers | | |
| Holdings reporting | | 1 782 417 |
| Workers | | 21 767 776 |
| LAND USE (area) | | |
| Agricultural land | | 22 371 576 |
| Cropland | | 21 449 482 |
| Arable land | | 19 509 423 |
| Land under temporary crops | | 16 306 012 |
| Land temporarily fallow | | 3 203 411 |
| Land under permanent crops | | 1 940 059 |
| Land under perm. meadows/pastures | | 922 094 |
| Wood or forest land | | 196 823 |
| All other land | | 882 700 |

| CROPS, TEMPORARY (holdings reporting) | |
|--|------------|
| Wheat | 2 796 573 |
| Barley | 1 356 141 |
| Rice | 29 180 |
| Maize | 499 832 |
| Chickpeas (grams) | 386 805 |
| Beans, dry edible | 114 080 |
| Sunflower for seed | 173 286 |
| Onions | 42 974 |
| Potatoes | 209 193 |
| Vegetables | 1 280 570 |
| CROPS, PERMANENT (holdings reporting) | |
| Plums | 555 798 |
| Apricots | 203 416 |
| Peaches | 91 488 |
| Figs | 192 511 |
| Grapes | 531 234 |
| Pistachios | 60 230 |
| Almonds | 72 337 |
| Walnuts | 245 419 |
| Hazelnuts | 362 405 |
| Lemons | 28 858 |
| Mandarins | 33 157 |
| Oranges | 41 869 |
| Olives | 32 399 |
| LIVESTOCK | |
| Cattle | |
| Animals | 11 044 422 |
| Buffaloes | |
| Holdings reporting | 85 331 |
| Animals | 274 305 |
| Sheep | |
| Holdings reporting | 1 017 380 |
| Animals | 39 910 027 |
| Goats | |
| Animals | 10 298 314 |
| MACHINERY / EQUIPMENT | |
| Tractors | |
| Holdings reporting | 921 038 |
| Units | 949 238 |
| Harvester-threshers (combines) | |
| Holdings reporting | 18 563 |
| Units | 19 566 |
| Disk harrows | |
| Holdings reporting | 319 624 |
| Units | 329 793 |
| Seed drills | |
| Holdings reporting | 291 236 |
| Units | 300 023 |
| Fertilizer distributors | |
| Holdings reporting | 286 094 |
| Units | 289 409 |
| Sprayers / Dusters | |
| Holdings reporting | 521 221 |
| Units | 530 168 |
| Milking machines | |
| Holdings reporting | 26 813 |
| Units | 28 093 |

(1) Excluding 101 610 holdings without land.

ALBANIA - Agricultural Census 1995 - Explanatory Notes

Historical outline: A general agricultural census has not yet been conducted in Albania, but it is envisaged in the near future. In the meanwhile, to provide users with available information on agriculture structure, some data, extracted from the Annual Agricultural Survey conducted in Albania in 1995, are presented here. The 1995 Survey is the second in a series of annual agricultural surveys designed to collect data on Albanian agriculture timely and efficiently.

Organization: The 1995 Annual Agricultural Survey was organized by the Service of Statistics and Information (SSI) of the Ministry of Agriculture and Food (MOAF). The survey was supported by the United States Agency for International Development (USAID), under the project "Support for Agricultural Restructuring in Albania" (SARA).

Enumeration period: Data were collected at two points during the crop-year: late June and late November.

Reference date: Data refer to crop year 1995.

Definitions:

- Crop farm: is a farm controlling agricultural land, whether or not crops were planted on this land during 1995.
- Farm operation: consists of land either partly or entirely used for crop and/or livestock production; it is considered as a separate technical unit, and may be operated by one person with or without assistance from other persons. When two or more households join their operations together, they are considered to manage a single farm operation.

Coverage: Farms reporting livestock only, and growers of specialty crops (e.g. greenhouses operators), were not included in the survey.

Frame: Area frame construction was used to develop the frame, for this survey. It consisted of eight strata, of which those considered for the survey were no.1 to 4, including:

1. coastal, low and level land (reporting a highly intensive agriculture);
2. river valleys and foothills (reporting an intensive agriculture);
3. upland hills (reporting a diversified agriculture);
4. low mountain areas (reporting a limited agriculture).

Strata 5 to 8, including military locations, lakes and other bodies of water and major cities, were not taken into consideration.

Methods: Weighted segment estimation was the selected method, used as follows: once the area frame had been completed, a three stage process was used to select the sample areas for visiting and interviewing of farmers. At the first stage, a total of 1551 Primary Sampling Units (PSUs) were identified with their geographic boundaries, and measured. At the second stage, PSUs were selected in each of the four strata with probability proportional to size, and then split into segments. At the third stage, two sample segments per PSU were randomly selected without replacement. Subsequently, once the sample segments were identified, all of them were visited to ascertain whether or not they had farming (cropping) activities. All farm households performing these activities in the selected segments were listed and, among them, a sub-sample of 1177 farms were selected for interviews and data collection.

Data source: Republic of Albania - Ministry of Agriculture and Food, Service of Statistics and Information - Results of the 1995 Annual Agricultural Survey - May 1996.

Mailing Address:

- Institute of Statistics-Rr.Leke Dukagjini no.5 Tirana, Albania.
- Ministry of Agriculture, Phone/Fax 00355 42 27924.

ALBANIA - Agricultural Census 1995 (1) - Primary Results

Area: in hectares

Production: in metric tons

| NUMBER OF HOLDINGS BY SIZE OF LAND UNDER CROPS | | Number |
|--|--|-----------|
| Size classes | | |
| All holdings | | 444 300 |
| Under 0.5 Ha | | 169 400 |
| 0.5 - 1 Ha | | 104 600 |
| 1 Ha and over | | 170 300 |
| FARM POPULATION | | |
| Household members, total | | 2 433 700 |
| Under 15 years of age | | 901 000 |
| 15 years of age and over | | 1 532 700 |
| LAND USE | | |
| Land under temporary crops | | |
| Holdings reporting | | 431 900 |
| Land temporarily fallow | | |
| Holdings reporting | | 136 300 |
| Land under permanent crops | | |
| Holdings reporting | | 121 100 |
| CROPS, TEMPORARY | | |
| Wheat | | |
| Holdings reporting | | 248 200 |
| Area | | 114 100 |
| Production | | 300 860 |
| Maize | | |
| Holdings reporting | | 340 000 |
| Area | | 99 600 |
| Production | | 172 310 |
| Beans, edible dry | | |
| Holdings reporting | | 263 800 |
| Area | | 27 600 |
| Production | | 20 980 |
| Potatoes | | |
| Holdings reporting | | 87 600 |
| Area | | 6 200 |
| Production | | 51 510 |
| Alfalfa | | |
| Holdings reporting | | 238 100 |
| Area | | 78 100 |
| Production | | 1 889 800 |
| CROPS, PERMANENT | | |
| Citrus fruit / Other fruit trees | | |
| Holdings reporting | | 369 500 |
| Area | | 21 300 |
| Grapes | | |
| Holdings reporting | | 329 200 |
| Area | | 4 100 |
| Olives | | |
| Holdings reporting | | 87 900 |
| Area | | 15 600 |
| Production | | 21 190 |
| LIVESTOCK | | |
| Cattle | | |
| Holdings reporting | | 374 700 |
| Animals, total | | 862 700 |
| Calves | | |
| Animals | | 296 000 |
| Adult cattle | | |
| Animals, total | | 566 700 |
| Male | | 56 700 |
| Female | | 509 900 |

LIVESTOCK (cont'd)

| | | |
|---------------------------------|--|-----------|
| Sheep | | |
| Holdings reporting | | 199 000 |
| Animals, total | | 2 209 000 |
| Sheep under 1 year of age | | |
| Total | | 576 800 |
| Male | | 200 500 |
| Female | | 376 300 |
| Sheep 1 year of age and over | | |
| Total | | 1 632 200 |
| Male | | 133 900 |
| Female | | 1 498 300 |
| Goats | | |
| Holdings reporting | | 145 000 |
| Animals, total | | 1 441 000 |
| Goats under 1 year of age | | |
| Total | | 401 100 |
| Male | | 113 200 |
| Female | | 287 900 |
| Goats 1 year of age and over | | |
| Total | | 1 040 000 |
| Male | | 94 500 |
| Female | | 945 500 |
| Pigs | | |
| Holdings reporting | | 90 000 |
| Animals, total | | 164 500 |
| Under 6 months of age | | 91 100 |
| 6 months of age and over | | 73 500 |
| Horses / Mules / Asses | | |
| Holdings reporting | | 224 500 |
| Animals | | 242 600 |
| Poultry | | |
| Holdings reporting | | 393 400 |
| Animals | | 4 329 300 |
| MACHINERY / EQUIPMENT | | |
| Tractors | | |
| Holdings reporting use | | 244 500 |
| Cultivators | | |
| Holdings reporting use | | 36 700 |
| Ploughs | | |
| Holdings reporting use | | 389 100 |
| Planters | | |
| Holdings reporting use | | 158 100 |
| FERTILIZERS / PESTICIDES | | |
| Chemical fertilizers | | |
| Holdings reporting use | | 298 100 |
| Pesticides | | |
| Holdings reporting use | | 146 600 |

AUSTRIA - Agricultural Census 1990 - Explanatory Notes

Historical outline: Austria participated in all World Census of Agriculture rounds. Present data refer to the 1990 Census of Agriculture.

Organization: The 1990 Census of Agriculture was conducted under the supervision of the Austrian Central Statistical Office. Local authorities were responsible for the execution of the enquiries and control of the questionnaires.

Enumeration period: Data were collected on 1 June 1990.

Reference date: All data refer to the census day.

Definitions:

1. Holding: An agricultural holding is defined as any independent unit, devoted to agricultural production and/or to animal breeding with economic purposes, managed under a unified administration. Under this definition are included:
 - 1.1. All holdings with a cultivated area of at least 1 Ha, wholly or partly used for agriculture or forestry.
 - 1.2. All establishments with less than 1 Ha of cultivated area, or with no cultivated area at all, provided that they satisfy one of the following criteria:
 - 1.2.1. having at least 0.25 Ha under vineyards;
 - 1.2.2. having at least 0.25 Ha under commercial fruit-bearing plants;
 - 1.2.3. practising horticulture/nursery activity on at least 0.1 Ha under horticultural cultivation or having a greenhouse (made of glass or synthetic material);
 - 1.2.4. having at least one cattle or three pigs or five sheep/goats or fifty poultry;
 - 1.2.5. to be fishery establishments with a market-oriented production;
 - 1.2.6. to be mushroom cultivation establishments with a market-oriented production;
 - 1.2.7. practising apiculture with at least twenty bee-colonies.
2. Holder: Is the person who has the responsibility for the operation of the agricultural holding.
3. Total area of holding: Includes area owned, plus area rented, minus area leased, plus area under rights of usufruct.
4. Employment: Data refer to all persons 15 years of age and over who performed agricultural work on the holding during the census year for at least 12 hours per week.
5. Permanent workers are considered to be those who spent at least half of their working time on the holding.

Coverage: The census covered the entire country.

Frame: A list of agricultural holdings for each commune was used as the frame.

Methods: Complete enumeration of holdings was carried out. Data were collected by the local authorities, who requested all agricultural holdings to fill in the questionnaire. No objective measurement techniques were applied.

Data source: Österreichischen Statistischen Zentralamt - Land und Forstwirtschaftliche Betriebszählung, Hauptergebnisse Österreich - Teil Landwirtschaft, Heft 1.060/10 - Wien 1992.

Mailing address: Österreichischen Statistischen Zentralamt, Hintere Zollamtsstrasse 2b, 1033 Wien, Postfach 4000, Austria.

AUSTRIA - Agricultural Census 1990 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|--|---------|-----------|
| Size classes | Number | Area |
| All holdings | 273 210 | 7 217 498 |
| Under 1 Ha | 8 890 | 6 570 |
| 1 - 2 Ha | 29 804 | 62 788 |
| 2 - 5 Ha | 58 104 | 287 208 |
| 5 - 10 Ha | 48 678 | 490 221 |
| 10 - 20 Ha | 54 508 | 973 319 |
| 20 - 50 Ha | 58 719 | 2 004 177 |
| 50 - 100 Ha | 9 958 | 726 871 |
| 100 - 200 Ha | 2 724 | 404 834 |
| 200 - 500 Ha | 1 177 | 365 038 |
| 500 - 1000 Ha | 314 | 216 558 |
| 1000 Ha and over | 334 | 1 679 914 |
| TENURE | | |
| Holdings operated under one form of tenure | | 165 563 |
| Holdings owned or in ownerlike possession | | 155 266 |
| Holdings rented from others | | 10 297 |
| Holdings under more than one form of tenure | | 107 647 |
| LEGAL STATUS | | |
| Holdings operated by: | | |
| Individuals or households | | 268 869 |
| Area | | 5 675 345 |
| Others | | 4 341 |
| Area | | 1 542 153 |
| HOLDERS BY SEX | | |
| Holders, total | | 268 869 |
| Male | | 209 740 |
| Female | | 59 129 |
| HOLDERS BY TYPE OF ACTIVITY | | |
| Holders engaged mainly in: | | |
| Agricultural work on the holding | | 113 167 |
| Work off the holding (1) | | 155 702 |
| FARM POPULATION | | |
| Household members, total | | 1 056 978 |
| Male | | 539 860 |
| Female | | 517 118 |
| EMPLOYMENT | | |
| Household members engaged mainly in agricultural work on the holding | | 265 983 |
| Household members engaged mainly in work off the holding | | 198 945 |
| Household members not economically active | | 592 050 |
| Hired permanent workers | | 21 258 |
| Hired occasional workers | | 21 186 |
| LAND USE (area) | | |
| Agricultural land | | 3 406 082 |
| Cropland | | 1 502 723 |
| Land under perm. meadows/pastures | | 1 903 359 |
| Wood or forest land | | 3 061 962 |
| All other land | | 749 454 |
| CROPS, TEMPORARY | | |
| Wheat | | 278 640 |
| Area | | |
| Maize (for grain) | | 56 377 |
| Holdings reporting | | 197 928 |
| Area | | |
| Maize (for fodder) | | 52 636 |
| Holdings reporting | | 107 693 |
| Area | | |

| CROPS, TEMPORARY (cont'd) | |
|-------------------------------|------------|
| Rye | |
| Holdings reporting | 42 517 |
| Area | 93 076 |
| Barley | |
| Area | 293 250 |
| Oats | |
| Holdings reporting | 49 213 |
| Area | 62 188 |
| Potatoes | |
| Area | 31 628 |
| Sugar beets | |
| Holdings reporting | 13 054 |
| Area | 48 707 |
| Rapes / Beets | |
| Area | 41 198 |
| Sunflower for seed | |
| Holdings reporting | 8 159 |
| Area | 22 282 |
| PERMANENT CROPS | |
| Strawberries | |
| Holdings reporting | 1 035 |
| Area | 899 |
| Grapes | |
| Holdings reporting | 35 869 |
| Area | 58 364 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 139 951 |
| Animals | 2 538 766 |
| Horses | |
| Holdings reporting | 14 244 |
| Animals | 35 968 |
| Pigs | |
| Holdings reporting | 139 033 |
| Animals | 3 704 196 |
| Sheep | |
| Holdings reporting | 20 996 |
| Animals | 260 996 |
| Goats | |
| Holdings reporting | 9 562 |
| Animals | 26 799 |
| Chickens | |
| Animals | 12 218 046 |
| Geese | |
| Holdings reporting | 3 254 |
| Animals | 23 434 |
| Ducks | |
| Holdings reporting | 13 530 |
| Animals | 101 521 |
| Turkeys | |
| Holdings reporting | 6 292 |
| Animals | 456 011 |
| MACHINERY / EQUIPMENT (units) | |
| Tractors | 338 482 |
| Binders | 33 743 |
| Ploughs | 159 143 |
| Seed drills | 59 468 |
| Mowers (self-propelled) | 23 666 |
| Potato harvesters | 4 695 |

(1) Including 61 503 non active holders.

BELGIUM - Agricultural Census 1990 - Explanatory Notes

Historical outline: Belgium participated in all World Census of Agriculture rounds in the years 1929-30, 1950, 1959-60, 1970, 1979 and 1990. Agricultural censuses are conducted annually; three agricultural censuses (including horticulture) are conducted each year on 15 May, 1 September and 1 December. Data here presented refer to the 15 May 1990 Census of Agriculture.

Organization: The National Institute of Statistics, Ministry of Economic Affairs, has the responsibility for executing periodic large-scale censuses and surveys, and for setting up official statistics. The country is administratively divided into Provinces that are subdivided into Administrative and Judiciary Districts. Each Judiciary District consists of Judiciary Cantons which are, in turn, made up of Municipalities. The mayor of each municipality is charged with the execution of the census. The territory of each municipality is divided into census districts; for each census district a census agent should be selected among the municipality administrative staff or, if not available in adequate number, recruited from external sources. The municipal administration is responsible for controlling the information collected by census agents before forwarding it to the National Institute of Statistics.

Enumeration period: The first phase of the census began on 15 May 1990, and the enumeration period lasted for about 15 days. The second phase of the census was conducted during December 1990.

Reference date: Data refer to the day of enumeration, except for some data on employment and use of machinery which refer to the 12 months preceding the census.

Definition: The enumeration unit of the census is the agricultural holding which is defined as a technical and economic unit of agricultural production, identified on the territory, with a single management, having an output consisting of agricultural, horticultural or livestock products.

Coverage: The census covered the entire country.

Frame: The Municipal Administrations were provided with lists of addresses of agricultural holdings, compiled on the basis of the agricultural census conducted during the preceding year (i.e. on 15 May 1989).

Methods: Complete enumeration of holdings was carried out. Information was collected through direct interview, and questionnaires were filled in directly by enumerators.

Data source: Institut National de la Statistique - Statistiques Agricoles - Publication Mensuelle n.1, n.2, n.3, 1991.

Mailing address: Institut National de la Statistique - Rue de Louvain, 44 / 1000 - Bruxelles - Royaume de Belgique.

BELGIUM - Agricultural Census 1990 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF AGRICULTURAL AREA OF HOLDING | | |
|--|--------|-----------|
| Size classes | Number | Area |
| All holdings | 87 180 | 1 400 364 |
| Holdings without agricultural land | 2 217 | 1 113 |
| Under 1 Ha | 10 481 | 8 554 |
| 1 - 2 Ha | 7 385 | 12 183 |
| 2 - 5 Ha | 13 537 | 48 834 |
| 5 - 10 Ha | 12 922 | 98 050 |
| 10 - 20 Ha | 16 944 | 255 189 |
| 20 - 50 Ha | 18 783 | 586 511 |
| 50 - 100 Ha | 4 131 | 278 044 |
| 100 Ha and over | 780 | 111 886 |
| TENURE (area) (1) | | |
| Area owned or in ownerlike possession | | 448 824 |
| Area rented from others | | 908 542 |
| LEGAL STATUS | | |
| Holdings operated by: | | |
| Individuals or households | | 86 072 |
| Others | | 1 108 |
| HOLDERS BY SEX | | |
| Holdings, total | | 87 180 |
| Male | | 75 250 |
| Female | | 11 930 |
| EMPLOYMENT | | |
| Permanent workers | | |
| Total | | 88 507 |
| Male | | 66 936 |
| Female | | 21 571 |
| Household members | | |
| Total | | 81 574 |
| Male | | 61 482 |
| Female | | 20 092 |
| Other permanent workers | | |
| Total | | 6 933 |
| Male | | 5 454 |
| Female | | 1 479 |
| Occasional workers | | |
| Total | | 49 175 |
| Male | | 24 884 |
| Female | | 24 291 |
| Household members | | |
| Total | | 48 122 |
| Male | | 24 295 |
| Female | | 23 827 |
| Other occasional workers | | |
| Total | | 1 053 |
| Male | | 589 |
| Female | | 464 |
| LAND USE (area) | | |
| Agricultural land | | 1 357 366 |
| Wood or forest land | | 6 730 |
| All other land | | 36 268 |
| IRRIGATION | | |
| Normally irrigated land | | 17 937 |
| CROPS, TEMPORARY | | |
| Wheat | | |
| Holdings reporting | | 29 553 |
| Area | | 205 050 |
| Winter rye | | |
| Holdings reporting | | 2 393 |
| Area | | 2 954 |
| Spelt | | |
| Holdings reporting | | 3 135 |
| Area | | 8 031 |
| Barley | | |
| Area | | 93 058 |

(1) Tenure of agricultural land.

| CROPS, TEMPORARY (cont'd) | |
|--------------------------------------|------------|
| Oats | |
| Holdings reporting | 6 666 |
| Area | 8 842 |
| Potatoes | |
| Holdings reporting | 24 677 |
| Area | 48 270 |
| Sugar beets | |
| Holdings reporting | 18 078 |
| Area | 107 837 |
| Linseed | |
| Holdings reporting | 2 057 |
| Area | 11 722 |
| Rapeseed | |
| Holdings reporting | 764 |
| Area | 5 303 |
| Flowers / Ornamental plants | |
| Holdings reporting | 1 816 |
| Area | 1 030 |
| CROPS, PERMANENT (area) (2) | |
| Apples | 7 648 |
| Pears | 3 080 |
| Cherries | 1 281 |
| Plums / Prunes | 248 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 58 205 |
| Animals, total | 3 248 780 |
| Pigs | |
| Holdings reporting | 20 189 |
| Animals | 6 700 422 |
| Sheep | |
| Holdings reporting | 8 180 |
| Animals | 192 133 |
| Goats | |
| Holdings reporting | 1 064 |
| Animals | 9 111 |
| Rabbits | |
| Holdings reporting | 2 536 |
| Animals | 206 751 |
| Chickens | |
| Animals | 26 757 719 |
| Ducks | |
| Animals | 137 565 |
| Geese | |
| Animals | 21 115 |
| Turkeys | |
| Holdings reporting | 443 |
| Animals | 166 447 |
| Beehives | |
| Units | 12 088 |
| MACHINERY / EQUIPMENT (units) | |
| 4-Wheel tractors | 108 885 |
| Track-laying tractors | 576 |
| Single axle tractors | 5 377 |
| Harvester-threshers (combines) | 7 007 |
| Potato harvesters | 2 017 |
| Sugar beets harvesters | 1 395 |
| Fertilizer distributors | 47 646 |
| Milking machines | 31 198 |
| Milk coolers | 27 683 |

(2) Permanent crops for sale only.

FORMER CZECHOSLOVAKIA - Agricultural Census 1990 - Explanatory Notes

Historical outline: In 1990 the Czechoslovak Socialist Republic participated for the last time in the World Census of Agriculture (WCA) as a federal state formed by the Czech and the Slovak Republics, no more linked by a federative pact. This was the third participation of former Czechoslovakia in WCA in the period following the Second World War, after the agricultural censuses conducted in 1970 and 1980. The publication of the results of the 1990 agricultural census in former Czechoslovakia is expected to be useful for the study of the transition of Czech and Slovak agriculture towards a new system of economic conditions (market economy).

Organization: In former Czechoslovakia, the body responsible for ensuring a uniform system of socio-economic information over the whole state was the Federal Statistical Office (FSO) and, in particular, the Division of Statistics of Agriculture, Forestry and Water Economy. Other bodies in the state information system were the Czech Statistical Office (CSO), the Statistical Office of the Slovak Republic (SSO), and their regional bodies, the CSO and SSO regional and district departments. CSO and SSO are still operative in Czech and Slovak Republics. The Czech Office of Geology and Cartography and the Slovak Office of Geodesy and Cartography were also involved in census operations.

Reference date: Data on crops refer to the calendar year 1990; data on employment refer to 1 February 1989; data on livestock and machinery refer to 1 January 1991.

Definitions: Agriculture in former Czechoslovakia was characterized by the following sectors:

- State sector, which included the establishments owned by the State: the largest section of centrally managed establishments was subordinate to the Ministry of Agriculture; also organizations managed by other governmental departments were included in this sector.
- Co-operative sector, which included holdings in the co-operative ownership, i.e. farming co-operatives and joint ventures.
- Private plots of co-operative farmers.
- Other agricultural establishments including those of individual farmers.

Coverage: The census covered the entire country. All agricultural holdings with a land area larger than 0.1 Ha were covered.

Frame: The register of the reporting units of the Agricultural Statistics System, and the register of real property were used to define the census frame.

Methods: Data presented here are derived from the following sources:

- Surveys on areas under cultivation;
- Surveys on crop production for 1990;
- Census of persons permanently active in agriculture;
- Census of livestock;
- Record of agricultural units on machinery and equipment.

Data source: Agriculture, Forestry and Water Management and Environment Statistics Division of the Federal Statistical Office - Selected Indicators on Agricultural Holdings based on the FAO Programme (World Census 1990).

Mailing address:

- Czech Statistical Office - Sokolovska 142, 186 04 Praha 8 - Czech Republic.
- Statistical Office of the Slovak Republic - Mileticova 3 - 824 67 Bratislava - Slovakia.

FORMER CZECHOSLOVAKIA - Agricultural Census 1990 (1) - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS | |
|-----------------------------------|------------|
| All holdings | 1 245 889 |
| Total area | 12 790 007 |
| LEGAL STATUS (2) | |
| Holdings operated by: | |
| Individuals or households | |
| Holdings | 1 179 608 |
| Area | 331 187 |
| Cooperatives | |
| Holdings | 1 940 |
| Area | 4 292 844 |
| Government | |
| Holdings | 64 341 |
| Area | 2 032 604 |
| EMPLOYMENT | |
| Permanent workers, total | 902 035 |
| Male | 548 904 |
| Female | 353 131 |
| LAND USE (area) | |
| Agricultural land | 6 736 128 |
| Cropland | 5 095 339 |
| Arable land | 4 964 193 |
| Land under permanent crops | 131 146 |
| Land under perm. meadows/pastures | 1 640 789 |
| Wood or forest land | 4 618 473 |
| All other land | 1 435 411 |
| CROPS, TEMPORARY (area) | |
| Wheat | 1 238 887 |
| Rye | 170 940 |
| Barley | 745 093 |
| Oats | 92 981 |

| CROPS, TEMPORARY (area) (cont'd) | |
|------------------------------------|------------|
| Maize | 134 796 |
| Potatoes | 164 470 |
| Sugar beets | 169 791 |
| CROPS, PERMANENT (number of trees) | |
| Apples | 28 289 440 |
| Peaches | 2 033 601 |
| Apricots | 2 069 484 |
| Plums | 8 429 424 |
| Cherries | 4 339 745 |
| Walnuts | 1 903 498 |
| LIVESTOCK (head) | |
| Cattle | 4 923 046 |
| Sheep | 1 030 132 |
| Goats | 51 789 |
| Pigs | 7 089 828 |
| Horses | 38 862 |
| Chickens | 47 983 495 |
| Geese | 260 824 |
| Ducks | 359 957 |
| Turkeys | 1 151 955 |
| MACHINERY / EQUIPMENT (units) (3) | |
| Wheel tractors | 130 813 |
| Track-laying tractors | 7 821 |
| Harvester-treshers (combines) | 21 329 |
| Electric motors | 1 785 |
| Electric generators | 4 093 |
| Potato harvesters | 4 769 |
| Milking machines | 15 323 |
| Milk coolers | 22 707 |
| Driers | 4 034 |
| Cargo cars | 52 949 |

(1) Data are from different sources: see Explanatory Notes.

(2) Area by legal status refers to agricultural land only and excludes 79 493 Ha of land "out of the holding".

(3) Data refer to State and Cooperative sector only.

DENMARK - Agricultural Census 1989 - Explanatory Notes

Historical outline: The Kingdom of Denmark has participated in every World Census of Agriculture (WCA) round since 1930. The last participation, to which data here refer, was in 1989.

Organization: The census was organized by Danmarks Statistik which is an independent institution under the supervision of a Board consisting of experts drawn from different sectors of the economy (industry, agriculture, university, labour, etc.), chaired by the National Statistician. The Agricultural Division of the Institution is responsible for the census.

Enumeration period: The census was conducted on 2 June 1989.

Reference date: The time reference for census items was 2 June 1989.

Definition: The enumeration unit is the agricultural holding defined as an economic unit of agricultural production under a single management comprising all livestock kept and all land used wholly or partly for agricultural production purposes and consisting of one or more parcels, providing the parcels share the same production means.

- Until 1976 all holdings with at least 0.5 Ha of agricultural area in use or reporting a certain number of livestock were included in the enumeration. Horticultural holdings were counted separately.
- From 1977 horticultural holdings were included in the agricultural census.
- From 1977 to 1982 included in the enumeration were all agricultural and horticultural holdings with at least 0.5 Ha of agricultural land in use or a production value corresponding to the production stemming from 0.5 Ha of barley.
- From 1983 included in the enumeration are the holdings reporting at least 5 Ha of agricultural area in use or, if less, an agricultural production of at least 3000 ERE (ECU).

The raising of the lower limit decided in 1983 eliminated about 8000 small holdings from the definition of holdings, corresponding to 8 % of the total number of holdings, reporting about 1,5% of the total agricultural production. A 20% sample survey of these holdings is conducted every two years as an operation independent of the census of agriculture.

Coverage: The census covered the entire country.

Frame: The Agricultural Division of Danmarks Statistik built up a register of all agricultural farms for statistical purposes.

Methods: Information on agriculture is collected on an annual basis by means of mailed questionnaires.

- Until 1983 a complete enumeration of all holdings was annually conducted.
- From 1984 to 1989 a complete enumeration of all holdings matching the 1983 definition was carried out during odd years, while a 25% sample survey was carried out during even years.
- Since 1990 agricultural enumerations have been conducted in Denmark on a sampling basis only.

Data source: Danmarks Statistik - Landbrugsstatistics 1989 - København 1990.

Mailing address: Statistics Denmark - Sejrogaade 11, DK-2100 Copenhagen O -
Tel. 45 39 17 39 17.

DENMARK - Agricultural Census 1989 - Primary Results

Area: in hectares

| NUMBER AND AGRICULTURAL AREA OF HOLDINGS BY SIZE OF OF AGRICULTURAL AREA OF HOLDING | | |
|--|--------|-----------|
| Size classes | Number | Area |
| All holdings | 81 267 | 2 774 127 |
| Under 10 Ha | 14 749 | 95 462 |
| 10 - 20 Ha | 19 605 | 284 791 |
| 20 - 50 Ha | 31 348 | 1 007 856 |
| 50 - 100 Ha | 12 162 | 818 355 |
| 100 Ha and over | 3 403 | 567 663 |
| HOLDERS BY AGE | | |
| Holdings, total | | 81 267 |
| Under 30 years of age | | 4 204 |
| 30 to 39 years of age | | 12 585 |
| 40 to 49 years of age | | 18 218 |
| 50 to 59 years of age | | 20 444 |
| 60 to 69 years of age | | 17 364 |
| 70 years of age and over | | 8 043 |
| Of age not specified | | 409 |
| EMPLOYMENT | | |
| Permanent workers | | |
| Total holdings reporting: | | 13 030 |
| Holdings with: | | |
| 1 permanent worker | | 9 159 |
| 2 permanent workers | | 2 261 |
| 3 permanent workers | | 695 |
| 4 permanent workers | | 305 |
| 5 permanent workers | | 134 |
| 6 permanent workers and over | | 476 |
| Permanent workers | | 23 709 |
| Holders and household members | | |
| Total | | 4 405 |
| Male | | 3 539 |
| Female | | 866 |
| Hired permanent workers | | |
| Holdings reporting | | 9 852 |
| Workers | | 19 304 |
| LAND USE (area) | | |
| All land | | 3 069 430 |
| Agricultural land | | 2 774 127 |
| Cropland | | 2 555 043 |
| Land under perm.meadows/pastures | | 219 084 |
| All other land | | 295 303 |
| CROPS, TEMPORARY | | |
| Wheat | | |
| Holdings reporting | | 40 029 |
| Area | | 444 503 |
| Barley | | |
| Holdings reporting | | 68 041 |
| Area | | 987 588 |
| Rye | | |
| Holdings reporting | | 15 028 |
| Area | | 99 961 |
| Oats | | |
| Holdings reporting | | 6 298 |
| Area | | 26 495 |
| Potatoes | | |
| Holdings reporting | | |
| Area | | 33 519 |

| CROPS, TEMPORARY (cont'd) | |
|---------------------------------|------------|
| Sugar beets | |
| Holdings reporting | 8 935 |
| Area | 66 833 |
| CROPS, PERMANENT | |
| Apples | |
| Holdings reporting | |
| Area | 574 |
| | 2 772 |
| Pears | |
| Holdings reporting | 306 |
| Area | 344 |
| Strawberries | |
| Holdings reporting | 832 |
| Area | 1 189 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 37 130 |
| Animals | 2 221 485 |
| Cattle under 1 year of age | 839 106 |
| Cattle 1 - 2 years of age | |
| Total | 439 810 |
| Male | 56 864 |
| Female | 382 946 |
| Cattle 2 years of age and over | |
| Total | 942 569 |
| Male | 8 884 |
| Female | 933 685 |
| For milk production | 759 440 |
| Sheep | |
| Holdings reporting | 5 939 |
| Animals | 144 168 |
| Pigs | |
| Holdings reporting | 31 205 |
| Animals | 9 189 981 |
| Horses | |
| Holdings reporting | 9 442 |
| Animals | 35 446 |
| Chickens | |
| Holdings reporting | 13 858 |
| Animals | 16 266 298 |
| Ducks | |
| Holdings reporting | 1 176 |
| Animals | 569 685 |
| Geese | |
| Holdings reporting | 978 |
| Animals | 46 198 |
| Turkeys | |
| Holdings reporting | 203 |
| Animals | 312 022 |
| MACHINERY / EQUIPMENT | |
| Tractors | |
| Holdings reporting | 75 853 |
| Harvester-threshers (combiners) | |
| Holdings reporting | 33 043 |

FINLAND - Agricultural Census 1990 - Explanatory Notes

Historical outline: Several agricultural censuses have been conducted in Finland since 1910. In 1950 the Act on agricultural statistics decreed that the period between two censuses should not exceed ten years. Under this Act two agricultural censuses were conducted, in 1959 and in 1969, while the 1979 agricultural census was not undertaken, partly due to the expenses involved. A committee appointed by the Ministry of Agriculture and Forestry stated that, to update information reported by the farms register and the forestry holdings register, a new agricultural census was required, which was undertaken in 1990.

Organization: The government organization responsible for conducting the 1990 Agricultural Census was the National Board of Agriculture (NBA), Statistics Division. After the restructuring of Finland's agricultural administration carried out in 1993, the Statistics Division was transferred to a new government agency, the Information Centre of the Ministry of Agriculture and Forestry. The NBA was responsible for the preparation of the census in cooperation with the municipal agricultural committees, arranging training sessions all over the country and taking care of data processing and the publication of census results. The agricultural committees, on their side, divided their respective municipalities into census districts, trained an interviewer in each district, supervised their work and checked the census questionnaires before forwarding them to the NBA.

Enumeration period: Data were collected during the period 1 to 21 June 1990.

Reference date: Data on land use, crop production, farm population and labour force, refer to the twelve months preceding the census day (1 June 1989 to 31 May 1990). Data on livestock and machinery refer to 1 June 1990.

Definitions: The census collected data on the following census units: farms, forestry holdings, horticultural holdings, fur farms and other agricultural business.

- Farms include all farms with a minimum of one hectare of arable or horticultural land.
- Forestry holdings are those with no arable or horticultural land at all, or which manage less than one hectare of either, and which own at least two hectares of forest land in tax classes 1 to 4.
- Horticultural holdings include farms that cultivate garden products for sale.
- Fur farms are farms which breed animals for fur production.
- Other agricultural business are those producing basic agricultural products for sale, or keeping horses for business purposes, or owning or managing less than one hectare of arable or garden land, or less than two hectares of forest land in tax classes 1 to 4.

Coverage: The census covered the entire country. Farms with less than one hectare of arable land or less than two hectares of forest land were excluded from the census.

Frame: Lists reporting the census units in each municipality were prepared by the agricultural committees, which provided the interviewers with forms reporting names and addresses of the subjects to be interviewed. Useful sources of information were the NBA existing registers of farms and horticultural holdings.

Methods: Data on farms with less than five hectares of arable land, all forestry holdings, fur farms and other agricultural business, were collected through questionnaires mailed to the farmers, to be returned duly filled to the NBA. The collection of data on the holdings not included in the above mentioned categories was carried out in each municipality area, divided in turn into census districts, by an interviewer for each district, familiar with the assigned locality, appointed, upon request of the NBA, by the agricultural committees.

Data source: Information Centre of the Ministry of Agriculture and Forestry - Agricultural Census 1990 - Part 1 to 6 - Helsinki 1992.

Mailing address: Information Centre of the Ministry of Agriculture and Forestry - P.O. Box 250, SF-00171 Helsinki, Finland - Phone: +358 0 134 211 - Fax: +358 0 134 21573.

FINLAND - Agricultural Census 1990 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF ARABLE AREA OF HOLDING | | |
|--|---------|------------|
| Size classes | Number | Area |
| All holdings | 199 385 | 12 338 439 |
| 1 - 2 Ha | 27 114 | 614 660 |
| 2 - 5 Ha | 41 901 | 1 621 469 |
| 5 - 10 Ha | 42 786 | 2 395 496 |
| 10 - 20 Ha | 47 665 | 3 340 276 |
| 20 - 50 Ha | 35 108 | 3 393 687 |
| 50 - 100 Ha | 4 311 | 708 722 |
| 100 Ha and over | 500 | 264 129 |
| LEGAL STATUS (1) | | |
| Holdings operated by: | | |
| An individual or a household | | |
| Holdings | | 197 640 |
| Area | | 2 508 798 |
| Corporation | | |
| Holdings | 713 | |
| Area | | 9 720 |
| Cooperative | | |
| Holdings | 59 | |
| Area | | 893 |
| Government | | |
| Holdings | 692 | |
| Area | | 20 348 |
| Other | | |
| Holdings | 281 | |
| Area | | 4 433 |
| FARM POPULATION | | |
| Household members, total | | 422 932 |
| Male | | 232 408 |
| Under 20 years of age | | 15 834 |
| 20 to 24 years of age | | 17 627 |
| 25 to 34 years of age | | 34 372 |
| 35 to 44 years of age | | 45 937 |
| 45 to 54 years of age | | 40 185 |
| 55 to 64 years of age | | 41 550 |
| 65 years of age and over | | 36 903 |
| Female | | 190 524 |
| Under 20 years of age | | 13 003 |
| 20 to 24 years of age | | 9 919 |
| 25 to 34 years of age | | 22 775 |
| 35 to 44 years of age | | 34 433 |
| 45 to 54 years of age | | 33 868 |
| 55 to 64 years of age | | 34 238 |
| 65 years of age and over | | 42 288 |
| LAND USE | | |
| Agricultural land | | |
| Area | | 2 666 452 |
| Cropland | | |
| Holdings | 199 385 | |
| Area | | 2 544 192 |
| Land under perm. meadows/pastures | | |
| Holdings | 92 551 | |
| Area | | 122 260 |
| Wood or forest land | | |
| Holdings | 190 830 | |
| Area | | 7 151 684 |
| All other land | | |
| Area | | 2 520 303 |
| CROPS, TEMPORARY | | |
| Wheat | | |
| Holdings reporting | 20 828 | |
| Area | | 190 477 |
| Barley | | |
| Holdings reporting | 76 130 | |
| Area | | 502 466 |
| Rye | | |
| Holdings reporting | 21 608 | |
| Area | | 82 955 |
| Oats | | |
| Holdings reporting | 81 613 | |

| CROPS, TEMPORARY (cont'd) | |
|--------------------------------|-----------|
| Oats | |
| Area | 460 692 |
| Peas, edible dry | |
| Holdings reporting | 1 352 |
| Area | 3 403 |
| Potatoes | |
| Holdings reporting | 94 446 |
| Area | 36 494 |
| Sugar beets | |
| Holdings reporting | 4 445 |
| Area | 31 030 |
| LIVESTOCK (head) | |
| Cattle, total | 1 359 705 |
| Calves under 1 year of age | 487 905 |
| Cattle 1 year of age and over | |
| Total | 871 800 |
| Male | 148 873 |
| Female | 722 927 |
| Sheep, total | 103 258 |
| Lambs under 6 months of age | 53 186 |
| Sheep 6 months of age and over | 50 072 |
| Goats | 5 871 |
| Pigs, total | 1 381 442 |
| Pigs under 9 months of age | 1 246 730 |
| Pigs 9 months of age and over | |
| Total | 134 712 |
| Male | 5 243 |
| Female | 129 469 |
| Horses | 3 164 |
| Chickens | 9 520 018 |
| Ducks | 15 086 |
| Geese | 6 127 |
| Turkeys | 59 879 |
| Bee colonies (units) | 15 024 |
| MACHINERY / EQUIPMENT | |
| Tractors | |
| Holdings reporting use | 136 405 |
| Units | 234 175 |
| Harvester-threshers (combines) | |
| Holdings reporting use | 54 630 |
| Units | 48 708 |
| Grain dryers (heated air) | |
| Holdings reporting use | 39 574 |
| Units | 35 389 |
| Grain dryers (ambient air) | |
| Holdings reporting use | 24 618 |
| Units | 26 364 |
| Milking machines (pipe-line) | |
| Holdings reporting use | 22 375 |
| Units | 22 754 |
| Milking machines (bucket) | |
| Holdings reporting use | 26 812 |
| Units | 28 219 |
| Milk coolers | |
| Holdings reporting use | 41 626 |
| Units | 42 622 |
| Brush cutters | |
| Holdings reporting use | 55 637 |
| Units | 57 892 |
| Timber trailers / sledges | |
| Holdings reporting use | 53 149 |

(1) Data refer to agricultural area of holdings.

FRANCE - Agricultural census 1988 - Explanatory Notes

Information: For practical purposes, data related to French Guiana, Guadeloupe, Martinique and Reunion (Départements d'Outre-Mer), are recorded in the Data-Bank at country level. Consequently results related to France bear only upon the territory of France in Europe (France Métropolitaine).

Historical outline: The 1988 Agricultural Census in France is the fourth taken after the end of the Second World War, and follows those of 1955, 1970 and 1979.

Organization: The census was organized by the Central Service of Statistical Surveys and Studies (SCEES) of the Ministry of Agriculture and Forestry, in collaboration with the National Institute of Statistics and Economic Studies (INSEE) of the Ministry of Economics, Finance and Budget.

Enumeration period: The census started towards the end of 1988 and lasted approximately for six months.

Reference date: Data on livestock and hired permanent workers refer to the day of enumeration; the reference period for tenure, land use, crops, occasional workers, machinery and irrigation is the agricultural year 1 November 1987 - 31 October 1988.

Definitions:

- "Superficie agricole utilisée" includes arable land, land under permanent crops, and land under permanent meadows and pastures.
- "Superficie totale" includes "superficie agricole utilisée", wood or forest land, and all other land not suitable for agriculture.
- Agricultural holding is an economic unit of agricultural production satisfying at the same time the following four conditions:
 - an agricultural output;
 - 1 Ha or more of "superficie agricole utilisée", or 0.2 Ha of specialized crops, or overstepping a certain number of livestock (depending on the type of animal), or a certain level of agricultural output;
 - an autonomous management;
 - accurately located in a municipality and identified by the most important building or the most important parcel.

Coverage: The census covered the entire country.

Frame: A list of agricultural holdings was established in each municipality and used as frame.

Methods: Complete enumeration of holdings was carried out through direct interview, by approximately 4000 enumerators. More than 1,000,000 questionnaires were filled in.

Data source: Recensement Agricole 1988, SCEES-INSEE, Résultats Nationaux.

Mailing address: Ministère de l'Agriculture et de la Forêt, Service Central des Enquêtes et Etudes Statistiques, 4, avenue de Saint-Mandé - 75570 Paris Cedex 12; Tél. (1) 43444633.

FRANCE - Agricultural Census 1988 - Primary Results

Area: in hectares

| NUMBER AND AGRICULTURAL AREA OF HOLDINGS BY SIZE OF AGRICULTURAL AREA OF HOLDING | | |
|---|-----------|------------|
| Size classes | Number | Area |
| All holdings | 1 006 120 | 28 595 799 |
| Under 1 Ha | 78 685 | 36 765 |
| 1 - 2 Ha | 72 248 | 100 945 |
| 2 - 5 Ha | 116 684 | 381 321 |
| 5 - 10 Ha | 111 925 | 812 275 |
| 10 -20 Ha | 166 548 | 2 425 937 |
| 20 - 50 Ha | 288 055 | 9 348 064 |
| 50 - 100 Ha | 128 261 | 8 708 912 |
| 100 Ha and over | 43 714 | 6 7B1 580 |
| TENURE (area) (1) | | |
| Area owned or in ownerlike possession | | 12 866 128 |
| Area rented from others | | 15 729 671 |
| For an agreed amount of money and/or produce | | 15 555 594 |
| For a share of produce | | 174 077 |
| HOLDERS BY AGE | | |
| Holdings, total | | 1 016 055 |
| Under 25 years of age | | 14 478 |
| 25 to 34 years of age | | 119 188 |
| 35 to 44 years of age | | 195 636 |
| 45 to 54 years of age | | 231 948 |
| 55 to 64 years of age | | 318 598 |
| 65 years of age and over | | 136 907 |
| HOLDERS BY SEX | | |
| Holdings, total | | 1 016 055 |
| Male | | 866 963 |
| Female | | 149 792 |
| EMPLOYMENT | | |
| Household members engaged in agricultural work on the holding | | 1 869 589 |
| Household members, total | | 1 173 174 |
| Male | | 89 291 |
| Under 25 years of age | | 166 959 |
| 25 to 34 years of age | | 204 475 |
| 35 to 44 years of age | | 226 583 |
| 45 to 54 years of age | | 321 728 |
| 55 to 64 years of age | | 164 138 |
| 65 years of age and over | | 696 415 |
| Female | | 27 800 |
| Under 25 years of age | | 79 535 |
| 25 to 34 years of age | | 133 079 |
| 35 to 44 years of age | | 188 077 |
| 45 to 54 years of age | | 199 823 |
| 55 to 64 years of age | | 68 101 |
| 65 years of age and over | | |
| LAND USE | | |
| All land | | 1 016 755 |
| Holdings | | 31 985 606 |
| Area | | |
| Agricultural land | | 1 006 120 |
| Holdings | | 28 595 799 |
| Area | | |
| Cropland | | 18 381 713 |
| Area | | |
| Arable land | | 17 201 088 |
| Area | | |
| Land under temporary crops | | 12 503 972 |
| Area | | |
| Land under temp. meadows/pastures | | 4 403 586 |
| Area | | |
| All other arable land | | 293 530 |
| Area | | |
| Land under permanent crops | | 1 180 625 |
| Area | | |
| Land under perm. meadows/pastures | | 10 214 086 |
| Area | | |
| Wood or forest land | | 2 188 206 |
| Area | | |
| All other land | | 1 201 601 |
| Area | | |

| IRRIGATION | |
|--|-------------|
| Normally irrigated land | |
| Holdings reporting | 120 544 |
| Area | 1 146 988 |
| CROPS, TEMPORARY | |
| Wheat, total | |
| Area | 4 667 531 |
| Wheat, hard | |
| Holdings reporting | 24 122 |
| Area | 287 192 |
| Wheat, soft | |
| Holdings reporting | 439 148 |
| Area | 4 380 339 |
| Barley | |
| Holdings reporting | 349 669 |
| Area | 1 828 130 |
| Maize for grain | |
| Holdings reporting | 257 833 |
| Area | 1 996 429 |
| Maize for forage / silage | |
| Holdings reporting | 249 174 |
| Area | 1 468 308 |
| CROPS, PERMANENT | |
| Apples | |
| Holdings reporting | 20 627 |
| Area | 64 167 |
| Pears | |
| Holdings reporting | 10 887 |
| Area | 15 476 |
| Grapes | |
| Holdings reporting | 272 133 |
| Area | 948 056 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 503 659 |
| Animals | 21 217 251 |
| Sheep | |
| Holdings reporting | 165 104 |
| Animals | 11 498 746 |
| Goats | |
| Holdings reporting | 60 933 |
| Animals | 888 654 |
| Pigs | |
| Holdings reporting | 170 339 |
| Animals | 12 212 554 |
| Horses / Mules / Hinnies / Asses | |
| Holdings reporting | 79 869 |
| Animals | 331 476 |
| Chickens | |
| Animals | 130 830 722 |
| Beehives | |
| Holdings reporting | 37 951 |
| Units | 1 011 788 |
| Rabbits, (female) | |
| Holdings reporting | 364 341 |
| Animals | 2 084 417 |
| MACHINERY / EQUIPMENT (holdings reporting) | |
| 4-Wheel tractors owned by the holder | 813 006 |
| 2-Wheel tractors owned by the holder | 280 437 |
| Harvester-threshers owned by the holder | 109 173 |

(1) Data refer to agricultural land.

IRELAND - Agricultural Census 1991 - 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. As the 1985 Census was cancelled on budgetary grounds, the June 1991 Agricultural Census is considered to be the first full census conducted since 1980. Farm Structures Sample Surveys were also undertaken in 1983, 1985, and 1987.

Organization: The statistical services are centralized in the Central Statistics Office (CSO) which is responsible, in cooperation with the Department of Agriculture, for collecting and compiling agricultural statistics. The 1991 Agricultural Census was part of a major EEC-supported programme, involving the replacement of the traditional agricultural enumeration system by more cost-effective Postal Sample Surveys. Notwithstanding the introduction of the above-mentioned postal surveys, the 1991 Census field work was carried out by 1300 field staff, retained by the CSO after completion of the 1991 Census of Population. This was necessary because of the absence of a comprehensive and up-to-date register of farms on which to base a Postal Census; indeed one of the principal objectives of the census was to construct such a register for future statistical use.

Enumeration period: The census was carried out in June 1991.

Reference date: Data mainly refer to the day of enumeration.

Definition: A holding or farm is a single unit, both technically and economically, with a single management, with an agricultural output. Agricultural production covers crops growing (including horticultural crops) and livestock raising (including intensive production). A farm can consist of two or more separate pieces of land, if worked as a single unit, generally sharing the same labour force and other means of production such as machinery. All farms with an agricultural area of at least one hectare were covered in the census. Farms with less than one hectare, but engaged in intensive production (e.g. of pigs or poultry), were also included in the census.

Coverage: The census covered the entire country.

Frame: One of the principal objectives of the census was to construct a register of farms to be used as a frame for future Postal Surveys. The identification of farms involved the systematic use of the following sources:

- lists prepared on the basis of a filter question on farming activity in the Population Census conducted immediately before the Agricultural Census;
- names of landowners extracted from the 1980 Census of Agriculture records;
- lists provided by the Department of Agriculture and Food from its registers of herd owners;
- information obtained in the course of the field work coupled with the enumerator's local knowledge.

Methods: Over 260,000 cases were individually investigated by the enumerators at local level and, of these, approximately 170,000 were found to be farms within the scope of the census definition. Each of the farms identified was required to provide details of its farming activities. Due to the methodology including the new restricted definition of holding (at least one hectare of agricultural land), care must be exercised in data comparison between 1991 and 1980 Agricultural Censuses.

Data source: Central Statistics Office - Census of Agriculture June 1991 - First results.

Mailing address: Central Statistics Office, Ardee Road, Rathmines, Dublin 6, Ireland.

IRELAND - Agricultural Census 1991 - Primary Results

Area: in hectares

| NUMBER OF HOLDINGS BY SIZE OF AGRICULTURAL AREA OF HOLDING | |
|---|-----------|
| Size classes | Number |
| All holdings | 170 578 |
| Under 1 Ha | 1 530 |
| 1 - 2 Ha | 2 930 |
| 2 - 5 Ha | 14 717 |
| 5 - 10 Ha | 24 134 |
| 10 - 20 Ha | 48 265 |
| 20 - 50 Ha | 59 392 |
| 50 - 100 Ha | 15 701 |
| 100 - 200 Ha | 3 298 |
| 200 Ha and over | 611 |
| AREA OF HOLDINGS | |
| Agricultural land | 4 441 755 |
| LAND USE (area) | |
| Agricultural land | 4 441 755 |
| Cropland | 601 525 |
| Arable land | 599 963 |
| Land under temporary crops | 390 128 |
| Land under temporary meadows | 209 835 |
| Land under permanent crops | 1 562 |
| Land under perm. meadows/pastures | 3 840 230 |

| CROPS, TEMPORARY (area) | |
|-------------------------|------------|
| Wheat | 85 652 |
| Barley | 193 397 |
| Oats | 20 588 |
| Rapeseed | 6 196 |
| Potatoes | 20 455 |
| Turnips | 5 959 |
| Sugar beets | 33 301 |
| Fodder beets | 10 094 |
| Cabbages | 1 428 |
| CROPS, PERMANENT (area) | |
| Apples | 821 |
| LIVESTOCK (head) | |
| Cattle | 6 912 000 |
| Sheep | 8 888 200 |
| Goats | 17 400 |
| Pigs | 1 303 700 |
| Deer | 11 800 |
| Horses | 63 100 |
| Mules, Asses | 7 300 |
| Poultry | 12 052 800 |

ITALY - Agricultural Census 1990 - Explanatory Notes

Historical outline: Italy first participated in the World Census of Agriculture with the 1930 Agricultural Census, carried out by the Central Statistical Institute of the Kingdom of Italy. After the Second World War, censuses of agriculture were conducted by the National Institute of Statistics (ISTAT) in 1961, 1970 and 1982. Consequently, the General Census of Agriculture of 21 October 1990 is the fifth taken in Italy.

Organization: The ISTAT was entrusted with the Census by prime-ministerial decree. As a result, a Census Committee with advisory functions, composed of university professors and representatives from public bodies and associations, was created in the preparatory phase of the census. The peripheral organization for the execution of the census was based upon the following organs:

- Regional Census Commissions, established by the President of ISTAT in each of the 20 regions of the country;
- Provincial Census Committees;
- Provincial Census offices, established in each of the 95 provinces of the country;
- Inter-municipal Census Offices, providing technical assistance to the municipalities;
- Municipal Census Offices, established in each of the 8100 municipalities of the country, responsible for carrying out all census operations within their territories;
- 13,377 enumerators selected from personnel belonging to the municipal administration staff.

Enumeration period: Data collection was done in four months (100 working days), from 21 October 1990 to 22 February 1991.

Reference date: Data on tenure, land use, hired workers and use of machinery refer to the agricultural year 1 November 1989 - 31 October 1990. Data on total and agricultural area of holdings, legal status, livestock numbers, characteristics of residential and non-residential buildings refer to 21 October 1990. Data on employment of holder and holder's household members refer to the week preceding the enumeration day.

Definition: The selected survey unit was the agricultural, forestry, and livestock holding, defined as a technical-economic unit of agricultural production consisting of one or more plots of land, even noncontiguous or located in different municipalities, operated by a holder (physical person, company or public body) assuming the risk of management, alone or together with others.

Coverage: The census covered the entire country.

Frame: Each municipality was provided by ISTAT with the list of agricultural, forestry and livestock holdings located in its area of responsibility, based on the updated list of farms surveyed during the third General Census of Agriculture undertaken in 1982.

Methods: After completing preparatory operations, the Municipal Census Offices divided the territory of each municipality into census sections; the number of farms included in each section did not exceed 400. A pilot survey on a sample of 1600 holdings selected in 17 municipalities preceded the main census. The census was carried out by complete enumeration; no objective measurement was done by enumerators.

Data source: ISTAT - Caratteristiche Strutturali delle Aziende Agricole - Fascicolo Nazionale.

Mailing address: Istituto Nazionale di Statistica - Ufficio Censimento dell'Agricoltura - Via Adolfo Ravá, 00142 Roma, Italy; Tel. 06-549001.

ITALY - Agricultural Census 1990 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|-----------|------------|
| Sizeclasses | Number | Area |
| All holdings | 3 023 344 | 22 702 356 |
| Holdings without land | 5 591 | 0 |
| Under 1 Ha | 991 662 | 481 722 |
| 1 - 2 Ha | 590 942 | 814 640 |
| 2 - 5 Ha | 709 845 | 2 210 779 |
| 5 - 10 Ha | 354 401 | 2 436 234 |
| 10 - 20 Ha | 201 321 | 2 747 371 |
| 20 - 50 Ha | 114 985 | 3 432 212 |
| 50 - 100 Ha | 32 722 | 2 217 720 |
| 100 Ha and over | 21 875 | 8 361 678 |
| FRAGMENTATION OF HOLDINGS | | |
| Holdings with: | | |
| 1 parcel | | 1 260 237 |
| 2 to 3 parcels | | 1 011 615 |
| 4 to 5 parcels | | 354 164 |
| 6 parcels and over | | 391 737 |
| Parcels | | 9 680 202 |
| TENURE (1) | | |
| Holdings operated under one form of tenure | | |
| Holdings | | 2 755 069 |
| Area | | 17 874 622 |
| Holdings owned or in ownerlike possession | | |
| Holdings | | 2 660 024 |
| Area | | 16 666 285 |
| Holdings rented from others | | |
| Holdings | | 95 045 |
| Area | | 1 208 337 |
| Holdings under more than one form of tenure | | |
| Holdings | | 262 684 |
| Area | | 4 827 734 |
| LEGAL STATUS | | |
| Holdings operated by: | | |
| An individual or a household | | |
| Holdings | | 3 002 127 |
| Area | | 17 245 534 |
| Corporation | | |
| Holdings | | 10 171 |
| Area | | 938 766 |
| Cooperative | | |
| Holdings | | 2 749 |
| Area | | 254 771 |
| Government | | |
| Holdings | | 8 297 |
| Area | | 4 263 285 |
| HOLDERS BY SEX | | |
| Holdings, total | | 3 002 127 |
| Male | | 2 219 999 |
| Female | | 782 128 |
| FARM POPULATION | | |
| Household members, total | | 8 179 161 |
| Male | | 4 285 042 |
| Female | | 3 894 119 |
| EMPLOYMENT | | |
| Hired permanent workers | | |
| Total | | 84 580 |
| Male | | 75 789 |
| Female | | 8 791 |
| LAND USE (area) | | |
| Agricultural land | | 15 045 899 |
| Cropland | | 10 917 091 |
| Arable land | | 8 129 732 |
| Land under permanent crops | | 2 787 359 |
| Land under perm. meadows/pastures | | 4 128 808 |
| Wood or forest land (2) | | 5 615 538 |
| All other land | | 2 040 919 |

(1) Excluding 5 591 holdings without land.

(2) Area of holdings includes area under poplars.

| IRRIGATION | |
|---------------------------------------|-------------|
| Normally irrigated land | |
| Holdings reporting | 934 640 |
| Area | 2 711 182 |
| CROPS, TEMPORARY (holdings reporting) | |
| Wheat, soft | 349 706 |
| Wheat, hard | 411 959 |
| Barley | 229 071 |
| Maize | 473 195 |
| Rice | 7 657 |
| Potatoes | 255 499 |
| Sugar beets | 69 622 |
| Tobacco | 34 178 |
| Sunflower for seed | 38 597 |
| Soybeans | 97 758 |
| Artichokes | 29 458 |
| Tomatoes | 110 000 |
| Flowers / Ornamental plants | 21 904 |
| CROPS, PERMANENT (holdings reporting) | |
| Oranges | 127 425 |
| Lemons | 56 927 |
| Apples | 158 656 |
| Pears | 121 849 |
| Peaches | 152 373 |
| Grapes | 1 184 861 |
| Olives | 1 131 097 |
| Almonds | 128 817 |
| Hazelnuts | 90 759 |
| Chestnuts | 97 696 |
| LIVESTOCK (head) | |
| Cattle | |
| Holdings reporting | 318 207 |
| Animals | 7 673 484 |
| Buffaloes | |
| Holdings reporting | 2 134 |
| Animals | 85 575 |
| Pigs | |
| Holdings reporting | 357 381 |
| Animals | 8 406 521 |
| Sheep | |
| Holdings reporting | 163 160 |
| Animals | 8 739 253 |
| Goats | |
| Holdings reporting | 91 289 |
| Animals | 1 258 962 |
| Horses / Mules / Asses | |
| Holdings reporting | 72 193 |
| Animals | 225 673 |
| Rabbits | |
| Holdings reporting | 407 597 |
| Animals | 14 893 711 |
| Chickens | |
| Animals | 142 100 216 |
| MACHINERY / EQUIPMENT (units)(3) | |
| 4-Wheel tractors | 1 332 813 |
| 2-Wheel tractors | 1 498 679 |
| Sprayers / Dusters | 547 980 |
| Fertilizer distributors | 296 101 |
| Harvester-threshers (combines) | 29 104 |
| Potato harvesters | 4 449 |
| Beet harvesters | 4 841 |
| Hay choppers | 61 877 |
| Hay balers | 145 324 |

(3) Machinery owned solely by the holder.

LUXEMBOURG - Agricultural Census 1990 - Explanatory Notes

Historical outline: The Grand Duchy of Luxembourg participated in the World Census of Agriculture Programme in the years 1950, 1960, 1970, 1980 and 1990. Although statistical information on agricultural land and livestock numbers has been collected since the first half of the nineteenth century, data on structural aspects of agricultural holdings were collected for the first time on the occasion of the 1907 General Census of Activities. Since 1953, the agricultural census, undertaken annually on 15 May, has followed almost the same criteria and definitions.

Organization: The Central Service of Statistics and Economic Studies (STATEC), of the Ministry of National Economy, is the organism responsible for collecting statistical information of general interest concerning the structure and the activity of the country. As regards Agriculture, STATEC undertakes the following censuses/surveys:

- Annual agricultural census (15 May);
- Triennial census of livestock (1 December);
- Survey of pigs every four months;
- Survey of cattle every six months;
- Survey of permanent employment in agriculture.

The country consists of three administrative districts which are subdivided into twelve cantons. The latter are broken down into 120 communes. The census is taken by commune using holding questionnaires. The communal administrations are responsible for all census operations in their commune, including the appointment of census agents.

Enumeration period: The census was taken on 15 May 1990.

Reference date: Data mainly refer to the day of enumeration.

Definition: Agricultural holdings are considered those reporting:

- a cropland area of at least 1 Ha;
- a cropland area of less than 1 Ha, but reporting horticultural cultivations or market-gardens or orchards for sale;
- at least 0.1 Ha of vineyards;
- raising livestock and poultry for sale.

Coverage: The annual census covers the agricultural activity of all persons residing in the country but excludes agricultural activity in Luxembourg of persons residing abroad.

Frame: The municipal administrations were provided with lists of addresses of agricultural holdings, compiled on the basis of the agricultural census conducted the preceding year (i.e. on 15 May 1989).

Methods: Complete enumeration of holdings was carried out. Information was collected through direct interview and questionnaires were completed directly by enumerators.

Data source: Service Central de la Statistique et des Etudes Economiques - Luxembourg - Le Recensement de l'Agriculture au 15 Mai 1990 - Bulletin du STATEC n. 2, 1991, pages 45 to 63.

Mailing address: STATEC, Luxembourg - 19-21, bd Royal, B.P. 304, L-2013 Luxembourg; Tél: 478-1, Telex: 3464 ECOLU, Fax: 464289.

LUXEMBOURG - Agricultural Census 1990 - Primary Results

Area: in hectares

| NUMBER AND AGRICULTURAL AREA OF HOLDINGS BY SIZE OF AGRICULTURAL AREA OF HOLDING | | |
|---|--------|---------|
| Size classe | Number | Area |
| All holdings | 3 803 | 126 298 |
| Under 1 Ha | 326 | 149 |
| 1 - 2 Ha | 197 | 283 |
| 2 - 5 Ha | 465 | 1 567 |
| 5 - 10 Ha | 319 | 2 301 |
| 10 - 20 Ha | 388 | 5 721 |
| 20 - 50 Ha | 992 | 35 329 |
| 50 - 100 Ha | 1 010 | 67 768 |
| 100 Ha and over | 106 | 13 180 |
| TENURE (area) (1) | | |
| Area owned or in ownerlike possession | | 63 275 |
| Area rented from others | | 62 434 |
| Area under other forms of tenure | | 589 |
| FARM POPULATION | | |
| Household members, total | | 14 593 |
| Male | | 7 673 |
| Female | | 6 920 |
| EMPLOYMENT | | |
| Household members engaged in agricultural work on the holding | | 8 230 |
| Permanent workers, total | | 8 825 |
| Household members | | 8 230 |
| Hired workers | | 595 |
| LAND USE (area) | | |
| All land | | 137 653 |
| Agricultural land | | 126 298 |
| Cropland | | 57 471 |
| Arable land | | 56 031 |
| Land under temporary crops | | 36 735 |
| Land under temporary meadows | | 19 024 |
| All other arable land | | 272 |
| Land under permanent crops | | 1 440 |
| Land under perm. meadows/pastures | | 68 827 |
| Wood or forest land | | 10 272 |
| All other land | | 1 083 |
| CROPS, TEMPORARY (area) | | |
| Wheat | | 8 625 |
| Rye | | 557 |
| Triticale | | 2 272 |
| Barley | | 15 682 |
| Oats | | 5 146 |
| Maslin | | 577 |

| CROPS, TEMPORARY (area) (cont'd) | |
|----------------------------------|---------|
| Other cereals | 121 |
| Potatoes | 826 |
| Sugar beets | 9 |
| Rapeseed | 1 951 |
| Clover | 437 |
| Maize for forage | 7 473 |
| Mixed forages | 5 714 |
| Flowers / Ornamental plants | 13 |
| CROPS, PERMANENT (area) | |
| Grapes | 1 326 |
| LIVESTOCK (head) | |
| Cattle, total | 217 451 |
| Cattle under 1 year of age | 59 553 |
| Cattle 1 - 2 years of age | |
| Total | 46 961 |
| Male | 12 950 |
| Female | 34 011 |
| Cattle 2 years of age and over | |
| Total | 110 937 |
| Male | 5 442 |
| Female | 105 495 |
| Sheep | 7 281 |
| Goats | 506 |
| Pigs | 75 463 |
| Horses | 407 |
| Chickens | 69 021 |
| Other fowl | 2 261 |
| Rabbits | 13 475 |
| Beehives | |
| Units | 1 093 |
| MACHINERY / EQUIPMENT | |
| Tractors | 8 684 |
| Harvester-threshers (combines) | 1 360 |
| Fertilizer distributors | 158 |
| Manure spreaders | 2 469 |
| Pick-up balers | 3 174 |
| Potato planters | 318 |
| Potato diggers | 189 |
| Milk coolers | 1 610 |

(1) Data refer to agricultural land.

NETHERLANDS - Agricultural Census 1989 - Explanatory Notes

Historical outline: Until the 1980's the country undertook a General Census of Agriculture every ten years. However, due to rapid changes in the structure of the agriculture sector and 'respondents' fatigue' it was decided to suspend these censuses and include in the annual surveys a number of questions on structural aspects. The subjects covered in the annual surveys include therefore a range of production-related data and selected questions on structural aspects which may change from time to time. In addition, subjects of a more specialized nature may be included on an *ad-hoc* basis. A complete inventory of forest resources is undertaken every 15 years in close cooperation with the State Forestry Service.

Organization: The overall responsibility for data on the agricultural sector rests with the Central Bureau of Statistics (CBS). It works closely together with the Ministry of Agriculture, particularly at the stages of data collection, for which the agricultural extension officers are used. On specialized subjects, CBS works in cooperation with the Department or Ministry concerned.

Enumeration period: The data collection took place during April-May 1989.

Reference date: In general, the data refer to the period April 1988 - March 1989; while for the area cultivated they refer to the situation in May 1988 and for the other elements (e.g. livestock) to the situation on the day of enumeration.

Coverage: The census covered all sectors of agriculture in the whole of the country. The questionnaire was the same as for the years 1987 and 1988.

Frame and Methods: The 'annual census' is carried out on a basis of complete enumeration of holdings that meet the minimum size criteria for inclusion. This size unit is based on the economic size of the holding, expressed in terms of standard gross margins for livestock and crop production. In the year 1989, the minimum value was 3700 ECU which was equivalent to about \$ 3600. For the surveys on current agricultural statistics, the country is divided into 66 agricultural regions. In the preliminary crop estimates survey, agricultural extension staff complete questionnaires for each of these regions. The final estimate survey is carried out in a similar way, but with the involvement of more staff through the formation of local committees or consultation groups.

Data source: Landbouwtelling 1988 en 1989 (1991); Statistical Yearbooks, (annual).

Mailing address:

- Central Bureau of Statistics, Sales Department Room J116, Postbox 4481 6401 CZ Heerlen, The Netherlands Tel.: +31 (45) 570 79 70, Fax: +31 (45) 570 62 68; E-mail: verkoop@cbs.nl.
- Statistics Netherlands Infoservice, Tel: +31 45 5707070; E-mail: infoserv@cbs.n; Internet: <http://www.cbs.nl>.

NETHERLANDS - Agricultural Census 1989 - Primary Results

Area: in hectares

| NUMBER OF HOLDINGS BY SIZE OF AGRICULTURAL AREA OF HOLDING | |
|--|-----------|
| Size classes | Number |
| All holdings | 127 367 |
| Holdings without land | 2 817 |
| Under 1 Ha | 10 417 |
| 1 - 5 Ha | 28 816 |
| 5 - 10 Ha | 21 651 |
| 10 - 20 Ha | 26 555 |
| 20 - 50 Ha | 31 440 |
| 50 - 100 Ha | 5 058 |
| 100 Ha and over | 613 |
| AREA OF HOLDINGS | |
| Total area | 2 163 472 |
| FRAGMENTATION OF HOLDINGS | |
| Holdings with: | |
| 1 parcel | 41 888 |
| 2 to 4 parcels | 59 300 |
| 5 to 9 parcels | 20 364 |
| 10 parcels and more | 4 798 |
| Parcels | 396 950 |
| HOLDERS BY AGE | |
| Holdings, total | 124 723 |
| Under 25 years of age | 1 480 |
| 25 and up to 34 years of age | 13 495 |
| 35 and up to 44 years of age | 26 045 |
| 45 and up to 54 years of age | 34 273 |
| 55 and up to 64 years of age | 33 724 |
| 65 years of age and over | 15 706 |
| LAND USE (area) | |
| Agricultural land | 1 873 733 |
| Cropland | 795 822 |
| Land under temporary crops | 655 204 |
| Horticultural land (1) | 103 510 |
| Land under temporary meadows | 31 386 |
| Land temporarily fallow | 5 722 |
| Land under perm. meadows/pastures | 1 077 911 |
| CROPS, TEMPORARY | |
| Wheat | |
| Holdings reporting | 14 747 |
| Area | 139 628 |
| Barley | |
| Holdings reporting | 10 896 |
| Area | 50 195 |
| Oats | |
| Holdings reporting | 2 158 |
| Area | 7 787 |
| Rye | |
| Holdings reporting | 2 745 |
| Area | 6 826 |
| Rapeseed (Colza) | |
| Holdings reporting | 519 |
| Area | 6 275 |
| Potatoes | |
| Holdings reporting | 21 822 |
| Area | 165 121 |
| Sugar beets | |
| Holdings reporting | 20 917 |
| Area | 123 754 |
| Maize for fodder | |
| Holdings reporting | 43 170 |
| Area | 202 691 |

| CROPS, TEMPORARY (cont'd) | |
|--------------------------------|------------|
| Cauliflowers | |
| Holdings reporting | 2 121 |
| Area | 2 538 |
| Sprouts | |
| Holdings reporting | 1 448 |
| Area | 4 998 |
| Carrots | |
| Area | 5 717 |
| Flower bulbs | |
| Holdings reporting | 3 958 |
| Area | 16 698 |
| Tomatoes (under glass) | |
| Holdings reporting | 1 508 |
| Area | 1 654 |
| Flowers (under glass) | |
| Holdings reporting | 8 012 |
| Area | 4 966 |
| CROPS, PERMANENT | |
| Apples | |
| Holdings reporting | 3 610 |
| Area | 15 875 |
| Pears | |
| Holdings reporting | 2 999 |
| Area | 5 027 |
| Strawberries | |
| Holdings reporting | 2 219 |
| Area | 1 895 |
| LIVESTOCK | |
| Cattle, total | |
| Holdings reporting | 66 380 |
| Animals | 4 771 641 |
| Cattle under 1 year of age | 1 656 862 |
| Cattle 1 - 2 years of age | |
| Total | 931 242 |
| Male | 191 506 |
| Female | 739 736 |
| Cattle 2 years of age and over | |
| Total | 2 183 537 |
| Male | 15 779 |
| Female | 2 167 758 |
| Sheep, total | |
| Holdings reporting | 23 482 |
| Animals | 1 404 348 |
| Sheep under 1 year of age | 739 412 |
| Sheep 1 year of age and over | |
| Total | 664 936 |
| Male | 16 259 |
| Female | 648 677 |
| Goats | |
| Holdings reporting | 2 240 |
| Animals | 42 429 |
| Pigs | |
| Animals | 13 729 209 |
| Horses, total | |
| Holdings reporting | 18 690 |
| Animals | 66 674 |
| Horses under 3 years of age | 19 734 |
| Horses 3 years of age and over | 46 940 |
| Chickens | |
| Animals | 89 777 520 |

(1) Includes permanent crops.

NORWAY - Agricultural Census 1989 - Explanatory Notes

Historical outline: Norway conducted its first General Census of Agriculture and Livestock, in conjunction with the Census of Population, in 1835. Censuses devoted exclusively to agriculture were undertaken in 1907, 1918, 1929, 1939, 1949, 1959, 1969, 1979 and 1989. The Agricultural Census carried out in 1989 covered the following sectors: Agriculture, Livestock, Horticulture and Forestry.

Organization: The Central Bureau of Statistics (CBS), depending on the Ministry of Finance, started the agricultural census planning in 1985-86. Two Advisory Committees, composed of members from the leading agricultural and forest institutions and organizations in Norway, were created. The country is administratively divided into 19 counties, sub-divided, in turn, into urban and rural municipalities (treated alike in the census). The census was carried out under the responsibility of the Municipal Agriculture and Forestry Office: one officer from each local office was appointed to administrate the census-taking. The local administrations were consequently fully involved in census preparation, including hiring and training enumerators, and in field operations. In addition, two officers from each County Agriculture and Forestry Office were appointed as liaison officers between CBS and the local administration.

Enumeration period: The census was carried out on 1 June 1989.

Reference date: Data mainly refer to the day of enumeration.

Definition: The holding is a technical and economic unit of agricultural production operated under a single management, reporting at least one of the characteristics mentioned below. The census covered, in each municipality of the country, all holders fulfilling one of the following conditions:

- owning or operating at least 0.5 Ha of agricultural area;
- owning at least 2.5 Ha of productive forest area;
- operating at least 300 square meters of area under glass/plastic, other than nursery gardens;
- operating at least 0.2 Ha of field grown vegetables;
- operating at least 0.1 Ha of strawberry beds or raspberry/black currant plantations;

or reporting at least one of the following:

- fruit trees;
- head of cattle;
- sheep one year of age and over;
- goats one year of age and over;
- sows for breeding and/or 200 other pigs;
- hen chickens;
- broilers;
- any foxes or minks.

Coverage: The census covered the entire country.

Frame: Family registers, listing all family units in each municipality, were used as frame.

Methods: Complete enumeration of all holdings was carried out; data were collected through direct interview; no objective measurement was done by enumerators. Three different types of questionnaires were prepared:

- a) main questionnaire to be filled in by all respondents;
- b) additional questionnaire for horticulture;
- c) additional questionnaire for fur farming.

A pilot census was conducted in June 1988, in order to test the main questionnaire: at least two respondents in each municipality were interviewed.

Data source: Norges Offisielle Statistikk c23 - Landbrukstelling (Census of Agriculture and Forestry), 1 Juni 1989 - Oslo - Kongsvinger 1992.

Mailing address: Central Bureau of Statistics, Skipperg. 15, PB 8131 DEP, N-0033-Oslo 1, Norway.

NORWAY - Agricultural Census 1989 - Primary Results

Area: in hectares

| NUMBER AND AGRICULTURAL AREA OF HOLDINGS BY SIZE OF AGRICULTURAL AREA OF HOLDING | | |
|---|--------|---------|
| Size classes | Number | Area |
| All holdings | 99 382 | 991 077 |
| 0.5 - 1 Ha | 4 261 | 2 809 |
| 1 - 2 Ha | 9 343 | 12 937 |
| 2 - 5 Ha | 23 427 | 77 325 |
| 5 - 10 Ha | 24 969 | 177 475 |
| 10 - 20 Ha | 25 330 | 355 193 |
| 20 - 50 Ha | 11 194 | 307 374 |
| 50 - 100 Ha | 801 | 50 155 |
| 100 Ha and over | 57 | 7 809 |
| HOLDERS BY AGE | | |
| Holders, total | | 98 610 |
| Under 40 years of age | | 25 999 |
| 40 and up to 49 years of age | | 26 160 |
| 50 and up to 59 years of age | | 20 954 |
| 60 and up to 69 years of age | | 17 853 |
| 70 years of age and over | | 7 623 |
| Holders of age not stated | | 21 |
| HOLDERS BY SEX | | |
| Holders, total | | 98 610 |
| Male | | 89 267 |
| Female | | 9 343 |
| EMPLOYMENT | | |
| Household members engaged in agricultural work on the holding | | |
| Total | | 176 072 |
| Male | | 95 086 |
| Female | | 80 986 |
| Hired workers | | |
| Total | | 88 979 |
| Male | | 62 961 |
| Female | | 26 018 |
| LAND USE (area) | | |
| Agricultural land | | 991 077 |
| Cropland | | 877 171 |
| Arable land | | 871 392 |
| Land under temporary crops | | 418 649 |
| Land under temp. mead./pastures | | 439 221 |
| Land temporarily fallow | | 13 522 |
| Land under permanent crops | | 5 779 |
| Land under perm. meadows/pastures | | 113 906 |
| CROPS, TEMPORARY | | |
| Wheat | | |
| Holdings reporting | | 5 779 |
| Area | | 38 248 |

| CROPS, TEMPORARY (cont'd) | |
|-------------------------------------|-----------|
| Barley | |
| Holdings reporting | 24 294 |
| Area | 175 991 |
| Oats | |
| Holdings reporting | 19 431 |
| Area | 132 195 |
| Rye | |
| Holdings reporting | 98 |
| Area | 4 245 |
| Potatoes | |
| Holdings reporting | 38 158 |
| Area | 18 891 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 37 584 |
| Animals | 949 369 |
| Sheep | |
| Holdings reporting | 29 108 |
| Animals | 2 183 098 |
| Sheep under 1 year of age | |
| Animals | 1 284 018 |
| Sheep 1 year of age and over | |
| Animals | 899 080 |
| Goats | |
| Goats 1 year of age and over | |
| Holdings reporting | 1 474 |
| Animals | 67 691 |
| Pigs | |
| Holdings reporting | 8 272 |
| Animals | 656 695 |
| Chickens | |
| Animals | 7 878 359 |
| Turkeys / Ducks / Geese | |
| Holdings reporting | 566 |
| Animals | 20 061 |
| IRRIGATION FACILITIES | |
| Holdings with irrigation facilities | 11 138 |
| FERTILIZERS / PESTICIDES | |
| Chemical fertilizers | |
| Holdings reporting use | 64 420 |

POLAND - Agricultural Census 1990 - Explanatory Notes

Historical outline: The first general census in Poland was conducted in 1921: information on population, housing and labour force was gathered in that occasion and, in addition, data on various aspects of Polish agriculture like farm structure, land use, livestock, machinery, use of fertilizers and certified seeds were also collected. From 1928 to 1988, excluding the Second World War period, data on agriculture were collected on a year-to-year basis. On 3 November 1989 a decree of the Council of Ministers stated that agricultural censuses were to be conducted every five years, starting from 1993; between two censuses sample surveys on land use, area sown and livestock numbers were to be conducted annually, in June. Due to the restructuring of economy in the 1990's, which affected also the agriculture sector, no complete censuses of agriculture were conducted until 1996. During the period 1988 to 1996, agricultural censuses were replaced by sample surveys. Data here presented refer to the sample survey conducted in 1990. The results of the agricultural census conducted in 1996 will be published as part of the 2000 World Census of Agriculture round, covering the period 1996 - 2005.

Organization: Statistical surveys on agriculture are conducted by almost all substantial departments of the Polish Central Statistical Office (GUS). Agriculture and Environmental Protection Division plays the leading role in conducting surveys on agricultural production and elaborates major integrated data on agriculture.

Enumeration period: The sample survey was conducted in June 1990.

Coverage: The survey covered the entire country.

Frame: A complete farm register was expected to be created in 1995-96 within the broader framework of establishing an integrated system of surveying rural areas, agriculture and food economy.

Methods: A 5 percent sample survey was conducted. Data were collected from the sampled units by enumerators through direct interview.

Data source: Wyniki Spisu Rolniczego 1990 - Główny Urząd Statystyczny - Warszawa 1990.

Mailing address: Central Statistical Office - Al. Niepodległości 208 00-925 Warsaw, Poland.

POLAND - Agricultural Census 1990 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS | |
|---------------------------------|------------|
| Holdings reporting | 3 783 000 |
| Total area | 31 268 300 |
| LAND USE (area) | |
| Agricultural Land | 18 719 800 |
| Cropland | 14 659 600 |
| Arable land | 14 387 800 |
| Land under permanent crops | 271 800 |
| Land under perm. mead./pastures | 4 060 200 |
| Wood or forest land | 8 754 000 |
| All other land | 3 794 500 |
| CROPS, TEMPORARY (area) | |
| Wheat | 2 280 700 |
| Barley | 1 174 100 |
| Maize | 383 300 |
| Rye | 2 314 400 |
| Oats | 746 800 |
| Potatoes | 1 835 300 |
| Sugar beets | 440 200 |
| Rapeseed | 500 400 |

| LIVESTOCK | |
|--------------------------|------------|
| Cattle | |
| Holdings reporting | 2 667 015 |
| Animals, total | 10 048 929 |
| Under 6 months of age | 1 767 076 |
| 6 months - 1 year of age | 1 374 257 |
| 1 year of age and over | 6 907 596 |
| Sheep | |
| Animals | 4 158 500 |
| Pigs | |
| Holdings reporting | 2 371 941 |
| Animals, total | 19 464 225 |
| Under 6 months of age | 12 863 328 |
| 6 months of age and over | 6 600 897 |
| Chickens | |
| Animals | 44 791 049 |

PORTUGAL - Agricultural Census 1989 - Explanatory Notes

Historical outline: The last General Agricultural Census in Portugal was conducted in 1989. Three general agricultural censuses had been conducted previously: in Portugal Mainland in 1952-54, 1968 and 1979; in the autonomous region of Azores in 1964, 1977 and 1985; in the autonomous region of Madeira in 1964, 1977 and 1986.

Organization: The National Institute of Statistics was entrusted with the census: its Department of Agriculture and Fisheries Statistics was the responsible organism for the development of census plans, coordination and execution of census operations. As a result of the agreement between the National Institute of Statistics and the General Direction of Planning and Agriculture (MAPA), the organization of census field work in Portugal Mainland was assigned to the Statistics Divisions of the Regional Directions of Agriculture (DRAs) depending on MAPA. 100 technicians from the DRAs operated as field work coordinators responsible, in turn, for about 300 supervisors and 2000 enumerators. In the autonomous regions of Azores and Madeira, the execution of census operations was ensured by the Statistical Regional Services in collaboration with the Regional Offices of Agriculture and Fisheries.

Enumeration period: The fourth General Census of Agriculture was conducted between December 1989 and July 1990.

Reference date: Data on holding's characteristics, irrigation, use of machinery and equipment, holder's household employment, occasional workers and marketing of farm products refer to the agricultural year 1988-89. Data on number of livestock, number of machinery, farm population and hired permanent workers refer to the day of enumeration.

Definitions: Agricultural holdings are those reporting at least 1 Ha of agricultural area in Portugal Mainland, and 0.1 Ha in Azores and Madeira. Agricultural holdings are also considered those not reaching the above-mentioned limits, but reporting at least one of the following:

- 0.5 Ha of specialized cultures;
- 0.05 Ha of flowers or greenhouses or nurseries;
- 0.1 Ha of specialized garden crops or seed crops;
- 0.2 Ha of tobacco or orchards or wines or hops;
- 1 breeding bull or 1 cow or 1 swine;
- 2 cattle two years old;
- 3 pigs for fattening;
- 6 sheep or goats; 10 female rabbits; 100 chickens;
- 10 beehives;
- a certain livestock production for the 1988-89 agricultural season.

The above-mentioned limits, valid for Portugal Mainland, were lowered and adapted to the peculiar characteristics of the autonomous insular regions of Azores and Madeira.

Coverage: The census covered the entire country, i.e. Portugal Mainland, Azores and Madeira islands.

Frame: Enumerators were provided with lists of agricultural holders obtained updating those used for the 1979 Agricultural Census.

Methods: The country is administratively divided into 18 "Distritos", 275 "Concelhos" and 3848 "Freguesias." It also consists of 9 agricultural regions in the continent, plus 2 insular regions. The census was carried out by complete enumeration; data were collected through direct interview; about 600,000 questionnaires were completed.

Data source: Instituto Nacional de Estatística - Recenseamento Geral Agrícola - Resultados definitivos - Dados Gerais - 1989.

Mailing address: Instituto Nacional de Estatística - Av. António José de Almeida - 1078 Lisboa codex; Tel. (01) 8470050; Telex 63738 PCDINE P; Fax (01) 8489480.

PORTUGAL - Agricultural Census 1989 - Primary Results

Area: in hectares

| NUMBER AND AGRICULTURAL AREA OF HOLDINGS BY SIZE OF AGRICULTURAL AREA OF HOLDING | | |
|---|---------|-----------|
| Size classes | Number | Area |
| All holdings | 594 418 | 4 005 594 |
| Under 0.5 Ha | 80 181 | 21 326 |
| 0.5 - 1 Ha | 98 749 | 70 507 |
| 1 - 2 Ha | 167 480 | 230 813 |
| 2 - 5 Ha | 141 665 | 435 287 |
| 5 - 10 Ha | 56 097 | 386 610 |
| 10 - 20 Ha | 27 414 | 374 771 |
| 20 - 50 Ha | 13 596 | 407 243 |
| 50 - 100 Ha | 3 846 | 268 912 |
| 100 - 200 Ha | 2 417 | 338 671 |
| 200 Ha and over | 2 973 | 1 471 454 |
| FRAGMENTATION OF HOLDINGS | | |
| Holdings with: | | |
| 1 parcel | | 126 812 |
| 2 to 3 parcels | | 172 191 |
| 4 to 5 parcels | | 108 337 |
| 6 to 9 parcels | | 105 167 |
| 10 parcels and over | | 81 911 |
| TENURE (area) (1) | | |
| Area owned or in ownerlike possession | | 2 761 911 |
| Area rented from others, total | | 1 050 917 |
| For an agreed amount of money or produce | | 986 865 |
| For a share of produce | | 64 052 |
| Area under other forms of tenure | | 192 766 |
| LEGAL STATUS (1) | | |
| Holdings operated by: | | |
| An individual or a household | | |
| Holdings | | 593 590 |
| Area | | 3 367 824 |
| Corporation | | |
| Holdings | | 3 964 |
| Area | | 375 597 |
| Cooperative | | |
| Holdings | | 252 |
| Area | | 169 406 |
| Collective | | |
| Holdings | | 246 |
| Area | | 48 324 |
| Government | | |
| Holdings | | 307 |
| Area | | 32 487 |
| Other | | |
| Holdings | | 383 |
| Area | | 12 077 |
| HOLDERS BY SEX | | |
| Holdings, total | | 593 590 |
| Male | | 501 978 |
| Female | | 91 612 |
| HOLDERS BY TYPE OF ACTIVITY | | |
| Holdings engaged: | | |
| In agricultural work on the holding | | 307 736 |
| In work off the holding | | 285 854 |
| FARM POPULATION BY SEX | | |
| Household members, total | | 1 974 808 |
| Male | | 995 482 |
| Female | | 979 326 |
| EMPLOYMENT (2) | | |
| Household members engaged in agricultural work on the holding | | |
| Total | | 646 615 |
| Male | | 311 837 |
| Female | | 334 778 |
| Household members engaged in work off the holding | | |
| Total | | 827 942 |
| Male | | 462 150 |
| Female | | 365 792 |

(1) Data refer to agricultural land.

| EMPLOYMENT (2) (cont'd) | |
|--|-----------|
| Household members not economically active | |
| Total | 284 132 |
| Male | 107 796 |
| Female | 176 336 |
| Permanent workers | |
| Total holdings reporting | 26 519 |
| Holdings with: | |
| 1 permanent worker | 13 508 |
| 2 permanent workers | 6 160 |
| 3 permanent workers | 2 395 |
| 4 permanent workers | 1 360 |
| 5 permanent workers and more | 3 096 |
| LAND USE | |
| All land | |
| Holdings | 598 742 |
| Area | 5 316 161 |
| Agricultural land | |
| Cropland | 3 135 152 |
| Arable land | 2 345 700 |
| Land under temporary crops | 1 515 336 |
| Land temporarily fallow | 830 364 |
| Land under permanent crops | 789 452 |
| Land under perm. meadows/pastures | 870 442 |
| Wood or forest land | 978 314 |
| All other land | 332 253 |
| IRRIGATION | |
| Normally irrigated land | |
| Holdings reporting | 472 641 |
| CROPS, TEMPORARY (holdings reporting) | |
| Wheat | 57 062 |
| Rye | 99 297 |
| Barley | 19 640 |
| Oats | 50 929 |
| Rice | 5 498 |
| Millet | 299 122 |
| Potatoes | 344 189 |
| Beans, edible dry | 216 235 |
| CROPS, PERMANENT (holdings reporting) | |
| Apples | 50 282 |
| Pears | 31 022 |
| Peaches | 29 297 |
| Oranges | 55 313 |
| Almonds | 29 712 |
| Olives | 177 341 |
| Grapes | 366 901 |
| LIVESTOCK (holdings reporting) | |
| Cattle | 219 550 |
| Sheep | 101 289 |
| Goats | 94 003 |
| Pigs | 238 729 |
| Horses | 20 643 |
| Chickens | 415 852 |
| MACHINERY / EQUIPMENT (holdings reporting) | |
| Tractors | 109 126 |
| Mowers | 12 841 |
| Harvesters - threshers (combines) | 3 843 |
| Power tillers | 71 271 |
| Fertilizer distributors | 14 667 |
| Sprayers / Dusters | 28 944 |
| IRRIGATION FACILITIES | |
| Holdings reporting use of: | |
| Boreholes | 405 326 |
| Ponds | 36 772 |
| Streams | 115 987 |
| Sprinklers | 26 006 |
| Drop irrigation | 769 |
| Gravitational flow | 160 936 |

(2) Household members with more than 12 years of age.

SLOVENIA - Agricultural Census 1991 - Explanatory Notes

Historical outline: Only two complete censuses of agricultural holdings were conducted on the territory of the Republic of Slovenia to date, in 1930 and 1960. A census of agricultural holdings was carried out in 1969 on the basis of a 5% sample. Subsequently, in 1981, representative data on land, cattle and agricultural machinery for smaller territorial units were provided by the Population, Housing and Households Census. Data presented here are from the Census of Population, Households, Housing and Agricultural Holdings which was carried out in 1991 while the Republic of Slovenia was still a part of the former Federation of Yugoslavia, but just before the declaration of independence. The next agricultural census is planned for 1997.

Organization: The census was organized under the supervision of the Slovenian Statistical Office. All material from the 1991 Census of Population, Households, Housing and Agricultural Holdings was processed according to the political and territorial divisions valid on 31 March 1991.

Enumeration period: The census was carried out between 1 April and 15 April 1991.

Reference date: The critical moment was 31 March 1991 at 24.00 hrs. (midnight between 31 March and 1 April 1991).

Definition:

An agricultural holding is an household that uses:

- at least 0.1 Ha of arable land;
- less than 0.1 Ha of arable land, but owning at least:
 - a cow and a calf or a cow and a young cattle; or
 - a cow and two small head of cattle; or
 - five full grown sheep; or
 - three full grown pigs; or
 - four full grown sheep and pigs in total; or
 - 50 head of full grown poultry; or
 - 20 beehives.

Coverage: The census covered the entire country. All private farming households, matching with the above indicated definition, whose inhabitants had permanent residence in the Republic of Slovenia, were included in the census.

Frame: A census list of farms was used, together with the existing land-register. An updated farm register is expected, in connection with the 1997 agricultural census.

Methods: A separate questionnaire for agricultural holdings was used during the 1991 Census of Population, Households, Housing and Agricultural Holdings. Data were collected by enumerators through direct interview.

Data source: Statistical Office of the Republic of Slovenia - Census of the Population, Households, Housing and Agricultural Holdings in the Republic of Slovenia in 1991, Results by Municipalities - st./No. 617, Ljubljana, 1994.

Mailing address: Statistical Office of the Republic of Slovenia - Vozarski Pot 12, 61000 Ljubljana, Slovenia.

SLOVENIA - Agricultural Census 1991 - Primary Results

Area: in hectares

| NUMBER OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING (1) | |
|--|-----------|
| Size classes | Number |
| All holdings | 156 549 |
| Holdings without land | 33 |
| Under 0.11 Ha | 835 |
| 0.11 - 0.50 Ha | 26 785 |
| 0.5 - 1 Ha | 16 775 |
| 1 - 2 Ha | 19 992 |
| 2 - 3 Ha | 15 089 |
| 3 - 4 Ha | 11 863 |
| 4 - 5 Ha | 9 383 |
| 5 - 10 Ha | 28 112 |
| 10 - 20 Ha | 19 637 |
| 20 Ha and over | 8 045 |
| AREA OF HOLDINGS | |
| Total area | 912 013 |
| FRAGMENTATION OF HOLDINGS | |
| Parcels | 5 000 000 |
| FARM POPULATION | |
| Household members, total | 574 490 |
| Male | 285 938 |
| Female | 288 552 |
| EMPLOYMENT | |
| Household members engaged mainly: in agricultural work on the holding | 100 000 |
| LAND USE (area) | |
| Agricultural Land | 487 247 |
| Cropland | 199 627 |
| Arable land | 173 918 |
| Land under permanent crops | 25 709 |
| Land under perm. meadows/pastures | 287 620 |
| Wood or forest land | 378 928 |
| All other land | 45 838 |

| CROPS, PERMANENT | |
|--------------------------------|------------|
| Apples | |
| Trees | 2 611 438 |
| Pears | |
| Trees | 627 941 |
| Plums / prunes | |
| Trees | 561 237 |
| Grapes | |
| Plants | 36 821 696 |
| LIVESTOCK | |
| Cattle | |
| Animals | 410 965 |
| Sheep | |
| Animals | 28 137 |
| Pigs | |
| Animals | 265 752 |
| Horses | |
| Animals | 10 500 |
| Poultry | |
| Animals | 1 612 154 |
| Bee-hives | |
| Units | 72 077 |
| MACHINERY / EQUIPMENT (units) | |
| Double-axle tractors | 87 456 |
| Single-axle tractors | 32 487 |
| Harvester-threshers (combines) | 1 123 |

(1) Total area of utilized land.

SPAIN - Agricultural Census 1989 - Explanatory Notes

Historical outline: The first census of agriculture in Spain was carried out in 1962, in observance of the 1957 General Census Law prescribing a nationwide agricultural census to be taken every ten years. The second and the third General Censuses of Agriculture were taken in 1972 and 1982 respectively, while the fourth was conducted in 1989 instead of 1992, to meet the European Economic Community (EEC) regulations concerning agricultural surveys. Data included in the Report on the 1930 World Census of Agriculture were extracted from current statistics.

Organization: The National Institute of Statistics, a central body within the framework of the Presidency of the Government, is in charge of the higher administration of all statistical activities in Spain. However, a large proportion of agricultural statistics is delegated to the Technical Secretariat of the Ministry of Agriculture which, in turn, has a Statistical Service responsible for the practical execution of statistical work. At the province level, statistical work is assigned to the Ministry of Agriculture's Province Offices, Study and Statistics Branch. These offices collect base data for processing statistics and make the studies needed for improvement.

Enumeration period: The fourth General Census of Agriculture was conducted on 30 September 1989.

Reference date: Data on holding, holder, livestock and machinery refer to the day of enumeration; all other data, including those on employment, refer to the agricultural year 1 October 1988 - 30 September 1989.

Definitions: There are two types of agricultural holdings: with land or without land.

- Holdings with land are those reporting a total area of at least 0.1 Ha.
- Holdings without land are those with less than 0.1 Ha of total area, whether located in rural or urban areas, but having at least one of the following:
 - 1 head of cattle;
 - 2 horses, asses, mules or pigs;
 - 6 sheep or goats;
 - 50 chickens or other poultry;
 - 30 female rabbits;
 - 10 beehives.

Coverage: The census covered the entire country, i.e. the 50 mainland provinces, the insular provinces of Canary and Balearic Islands, and the towns of Ceuta and Melilla.

Frame: A list of agricultural holdings in each municipality, updated by the National Institute of Statistics, was used as frame.

Methods: The 50 provinces into which the country is administratively divided, consisting, in turn, of about 8650 municipal districts, were grouped in terms of agriculture within 11 regions. Complete enumeration of all holdings was carried out; data were collected through direct interview by approximately 9000 interviewers.

Data source: Instituto Nacional de Estadística - Censo Agrario 1989 - Tomo I - Resultados Nacionales - Madrid, 1991.

Mailing address: Instituto Nacional de Estadística - Paseo de la Castellana, 183 - Madrid, Spain.

SPAIN - Agricultural Census 1989 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|-----------|------------|
| Size classes | Number | Area |
| All holdings | 2 284 944 | 42 939 208 |
| Holdings without land | 20 776 | 0 |
| 0.1 - 0.2 Ha | 104 225 | 13 582 |
| 0.2 - 0.5 Ha | 250 715 | 80 115 |
| 0.5 - 1 Ha | 278 725 | 194 030 |
| 1 - 2 Ha | 355 839 | 492 127 |
| 2 - 3 Ha | 217 098 | 516 488 |
| 3 - 4 Ha | 150 705 | 508 892 |
| 4 - 5 Ha | 113 542 | 496 080 |
| 5 - 10 Ha | 302 253 | 2 105 962 |
| 10 - 20 Ha | 216 649 | 2 987 872 |
| 20 - 50 Ha | 154 712 | 4 725 044 |
| 50 - 100 Ha | 59 040 | 4 064 342 |
| 100 - 200 Ha | 29 544 | 4 030 124 |
| 200 - 500 Ha | 18 934 | 5 782 870 |
| 500 - 1000 Ha | 7 104 | 4 867 110 |
| 1000 Ha and over | 5 083 | 12 074 570 |
| FRAGMENTATION OF HOLDINGS | | |
| Holdings with: | | |
| 1 parcel | | 573 470 |
| 2 to 3 parcels | | 566 242 |
| 4 to 5 parcels | | 296 126 |
| 6 to 9 parcels | | 307 046 |
| 10 parcels and over | | 521 284 |
| Parcels | | 18 433 605 |
| TENURE (1) | | |
| Holdings operated under one form of tenure | | |
| Holdings | | 1 932 627 |
| Area | | 32 784 164 |
| Holdings owned or in ownerlike possession | | |
| Holdings | | 1 824 069 |
| Area | | 27 822 437 |
| Holdings rented from others | | |
| Holdings | | 87 689 |
| Area | | 2 100 757 |
| Holdings under other single forms of tenure | | |
| Holdings | | 20 869 |
| Area | | 2 860 970 |
| Holdings under more than one form of tenure | | |
| Holdings | | 331 541 |
| Area | | 10 155 044 |
| LEGAL STATUS | | |
| Holdings operated by: | | |
| One or more individuals | | |
| Holdings | | 2 238 612 |
| Area | | 26 109 126 |
| Corporation | | |
| Holdings | | 11 063 |
| Area | | 3 034 586 |
| Cooperative | | |
| Holdings | | 15 904 |
| Area | | 10 867 725 |
| Government | | |
| Holdings | | 1 127 |
| Area | | 192 146 |
| Other | | |
| Holdings | | 18 238 |
| Area | | 2 735 625 |
| EMPLOYMENT | | |
| Hired workers | | |
| Permanent | | |
| Holdings reporting | | 92 126 |
| Workers, total | | 157 316 |
| Male | | 147 296 |
| Female | | 10 020 |
| Occasional | | |
| Holdings reporting | | 643 820 |

| LAND USE (area) | |
|--|-------------|
| Agricultural land | 24 740 543 |
| Cropland | 16 247 747 |
| Arable land | 12 165 329 |
| Land under temporary crops (2) | 12 094 633 |
| All other arable land | 70 696 |
| Land under permanent crops | 4 082 418 |
| Land under perm. meadows/pastures | 8 492 796 |
| Wood or forest land | 9 246 692 |
| All other land | 8 951 973 |
| IRRIGATION | |
| Irrigated land | |
| Holdings reporting | 1 110 842 |
| Area | 2 517 848 |
| IRRIGATION FACILITIES | |
| Holdings reporting use of: | |
| Sprinklers | 98 709 |
| Gravitational flow | 923 626 |
| CROPS, TEMPORARY (holdings reporting) | |
| Wheat | 249 001 |
| Barley | 324 708 |
| Oats | 71 784 |
| Rye | 62 675 |
| Maize | 306 545 |
| Potatoes | 459 536 |
| Sugar beets | 36 130 |
| CROPS, PERMANENT (holdings reporting) | |
| Oranges | 166 791 |
| Mandarins | 57 578 |
| Lemons | 43 640 |
| Almonds | 246 150 |
| Olives | 555 958 |
| Grapes | 396 762 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 328 130 |
| Animals | 4 800 129 |
| Sheep | |
| Holdings reporting | 147 228 |
| Animals | 17 576 632 |
| Goats | |
| Holdings reporting | 112 768 |
| Animals | 2 553 748 |
| Pigs | |
| Holdings reporting | 376 357 |
| Animals | 11 955 303 |
| Chickens | |
| Animals | 109 972 000 |
| MACHINERY / EQUIPMENT (units) (3) | |
| 4-Wheels tractors | 606 446 |
| 2-Wheels tractors | 353 445 |
| Harvester-threshers (combines) | 23 662 |
| Balers | 45 253 |
| Mowers | 10 212 |
| Potato diggers | 7 790 |
| Beet harvesters | 4 785 |
| Grain grinders, crushers | 86 808 |
| Milking machines | 65 664 |
| Milk coolers | 7 412 |

(1) Excluding 20 776 holdings without land.

(2) Includes land temporarily fallow and kitchen gardens.

(3) Machinery owned by the holder.

SWITZERLAND - Agricultural Census 1990 - Explanatory Notes

Historical outline: Switzerland participated in the World Census of Agriculture Programme with the censuses undertaken in 1929, 1950, 1969 and 1980. Data presented here refer to the 1990 agricultural census.

Organization: The Federal Statistical Office superintends the agricultural census operations all over the Federation. The Communes (municipalities), depending on the Cantons into which the Federation is administratively subdivided, are the administrative units charged with the enumeration of holdings, and of any other related census operation. All technical tools for census taking are provided to the Communes by the Federal Statistical Office, or directly by the concerned offices of the Cantons. The Census of Agriculture is an independent operation of the Census of Horticulture.

Enumeration period: The Census of Agriculture was conducted on 20 April 1990 and the enumeration day for the Horticultural Census was 3 September 1990.

Reference date: Data mainly refer to the day of enumeration.

Definitions:

- Agricultural holdings were all those reporting at least one of the following:
 - 0.25 Ha of cultivated land, including wood or forest land;
 - 0.1 Ha of special cultivations (i.e. berries, legumes, medicinal plants, vineyards, tobacco, orchards, mushroom cultivations);
 - 1 head of any horses, ponies, mules or asses, but only if reporting at the same time at least 0.25 Ha of cultivated land;
- and, regardless of any cultivated area, those having at least one of the following:
 - 1 head of cattle;
 - 2 head of pigs or sheep or goats;
 - 1 head of pigs, sheep or goats, together with 15 head of poultry or 15 beehives;
 - 30 head of poultry or 30 beehives, or 100 rabbits.
- Moreover, those raising, for commercial purposes, fur animals, deer, etc., were considered holders.

Coverage: The census covered the entire territory of the Federation.

Frame: The administrative office of each commune received from the Federal Statistical Office the list of agricultural holdings to be investigated. One of the tasks for enumerators during the operations was to update the above mentioned lists.

Methods: The census was carried out by complete enumeration. The enumerators were responsible for enumerating all holdings in the assigned census sector, including not only the holdings already inscribed on the lists, but those not yet inscribed but considered by the enumerator to match the definition of holding. The enumerator could either leave the questionnaire with the holder, and then return to collect and check the questionnaire, or immediately assist the holder to fill in the form. The Horticulture Census was carried out by mail.

Data source: Office Fédéral de la Statistique - Recensement Fédéral de l'Agriculture et de l'Horticulture de 1990 - Exploitations agricoles par canton - Berne 1992.

Mailing address: Office Fédéral de la Statistique - Hallwylstrasse 15, 3003 Bern; Tel. 031 - 618836.

SWITZERLAND - Agricultural Census 1990 - Primary Results (1)

Area: in hectares

| NUMBER AND PRODUCTIVE AREA OF HOLDINGS BY SIZE OF PRODUCTIVE AREA OF HOLDING | | |
|---|---------|-----------|
| Size classes | Number | Area |
| All holdings | 108 296 | 1 262 167 |
| Under 1 Ha | 21 381 | 8 236 |
| 1 - 5 Ha | 19 712 | 52 745 |
| 5 - 10 Ha | 15 543 | 117 567 |
| 10 - 20 Ha | 31 006 | 456 887 |
| 20 - 50 Ha | 19 432 | 539 443 |
| 50 - 100 Ha | 1 115 | 70 112 |
| 100 Ha and over | 107 | 17 177 |
| FRAGMENTATION | | |
| Parcels | | 758 072 |
| TENURE (area) (2) | | |
| Area owned or in ownerlike possession | | 633 498 |
| Area rented from others | | 427 085 |
| Area under other forms of tenure | | 10 763 |
| LEGAL STATUS | | |
| Holdings operated by: | | |
| An individual or a household | | 101 529 |
| Two or more individuals or households | | 5 145 |
| Other | | 1 622 |
| LAND USE (area) | | |
| All land | | 1 283 240 |
| Productive land | | 1 262 167 |
| Agricultural land | | 1 131 156 |
| Land under crops | | 342 104 |
| Land under perm. meadows/pastures (3) | | 789 052 |
| Wood or forest land | | 131 011 |
| All other land | | 21 073 |
| CROPS, TEMPORARY (area) | | |
| Wheat | | 97 185 |
| Rye | | 3 446 |
| Spelt | | 2 609 |
| Barley | | 60 036 |
| Oats | | 10 431 |
| Triticale | | 10 480 |
| Maize | | 27 367 |
| Potatoes | | 17 796 |
| Sugar beets | | 13 783 |
| Rapeseed | | 16 464 |
| Soybeans | | 1 052 |
| Tobacco | | 678 |
| Fodder beets | | 3 601 |
| Maize for silage | | 38 811 |
| Field beans | | 159 |
| Field peas | | 1 676 |
| CROPS, PERMANENT (area) | | |
| Grapes | | 13 245 |
| Strawberries | | 388 |

| LIVESTOCK | |
|--------------------------------------|-----------|
| Cattle | |
| Holdings reporting | 66 249 |
| Animals | 1 865 727 |
| Pigs | |
| Holdings reporting | 25 895 |
| Animals | 1 788 541 |
| Sheep | |
| Holdings reporting | 19 805 |
| Animals | 403 645 |
| Goats | |
| Holdings reporting | 10 173 |
| Animals | 68 124 |
| Horses | |
| Holdings reporting | 13 159 |
| Animals | 42 317 |
| Mules | |
| Holdings reporting | 207 |
| Animals | 361 |
| Asses | |
| Holdings reporting | 934 |
| Animals | 1 599 |
| Chickens | |
| Holdings reporting | 38 785 |
| Animals | 6 529 817 |
| Rabbits | |
| Holdings reporting | 19 456 |
| Animals | 234 349 |
| Geese | |
| Holdings reporting | 2 778 |
| Animals | 9 029 |
| Ducks | |
| Holdings reporting | 4 069 |
| Animals | 18 415 |
| Turkeys | |
| Holdings reporting | 945 |
| Animals | 95 677 |
| Beehives | |
| Holdings reporting | 9 109 |
| Units | 120 552 |
| MACHINERY / EQUIPMENT (units) | |
| 4-Wheel tractors | 112 737 |
| Track-laying tractors | 421 |
| Trucks / Pick-up | 8 925 |

(1) Excluding 3 455 horticultural holdings
with an area of 3 588 Ha.

(2) Data refer to agricultural land, but excluding
59 810 Ha of communal grazing land (alpages).

(3) Including 59 810 Ha of communal grazing land (alpages).

UNITED KINGDOM - Agricultural Census 1993 - Explanatory Notes

Historical outline: The United Kingdom participated in the World Census of Agriculture (WCA) Programme with the agricultural censuses undertaken in early June in the years 1930, 1950, 1960, 1970 and 1979. The agricultural census conducted on 1 June 1993 is that selected for the participation in 1990 WCA round.

Organization: Parallel Censuses of Agriculture and Horticulture are carried out annually, at the beginning of June, by the Agricultural Departments of England, Wales, Scotland and Northern Ireland. The English Agricultural Statistics Division (Agricultural Census Branch) of the Ministry of Agriculture, Fisheries and Food (MAFF), is responsible for the aggregation of census results for the four countries, and for the production of results referred to the United Kingdom as a whole.

Enumeration period: The annual census was conducted on 1 June 1993.

Reference date: Data mainly refer to the day of enumeration.

Definitions:

- In England and Wales, a holding is classified as "Minor" if all the following criteria are met:
 - the total area is less than 6 Ha;
 - there is no regular full-time farmer or worker;
 - the estimated annual labour requirement is less than 100 days (of 8 man/hours);
 - the greenhouse area is less than 100 square meters;
 - the occupier does not farm another holding.

If any of these conditions is not satisfied, the holding is classified as "Main" and has a census questionnaire mailed in June.

- In Scotland, a Minor holding is defined as one having a low level of agricultural economic activity.
- In Northern Ireland, Minor holdings are those satisfying all of the following criteria:
 - the total area of land owned, or taken on long-term lease, is less than 6 Ha;
 - the business size is less than one British Size Unit, which is defined as 2000 European Units of account of standard gross margin (estimates of the value added by each activity);
 - no regular full-time worker other than the holder works on the holding.

Simplified censuses or surveys of Minor holdings are periodically undertaken.

Coverage: The census covered the entire country. Only Main agricultural holdings are covered in the annual census; the so called Minor agricultural holdings are excluded from the census (see definitions).

Frame: A central list of names and addresses of agricultural holdings is maintained and kept up-to-date using information which comes in broadly equal measure from the operation of the census itself, from the many sample surveys based on it, and from the Agriculture Departments' administrative dealings with farmers.

Methods: The farm list is used to address census questionnaires which are despatched by the postal system; a sequence of postcard reminders is mailed to non-respondents. The consistency of information received is examined and, if necessary, queries are raised with the farmer, mainly by telephone.

Data source: Government Statistical Service - The Digest of Agricultural Census Statistics 1993, Agricultural and Horticultural Census 1 June 1993, final results.

Mailing address: Ministry of Agriculture, Fisheries and Food - Statistics (Census and Prices) Division, Branch F, Room A-615 - Government Buildings, Epsom Road, Guildford, Surrey GU1 2LD - United Kingdom; Tel. Guildford (0483) 403577 - 403520.

UNITED KINGDOM - Agricultural Census 1993 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|--|---------|------------|
| Size classes | Number | Area (1) |
| All holdings | 244 205 | 17 144 777 |
| Under 2 Ha | 13 777 | 15 142 |
| 2 - 5 Ha | 21 615 | 70 874 |
| 5 - 10 Ha | 29 399 | 216 774 |
| 10 - 20 Ha | 37 062 | 533 733 |
| 20 - 50 Ha | 59 539 | 1 967 213 |
| 50 - 100 Ha | 42 374 | 3 005 847 |
| 100 - 200 Ha | 25 502 | 3 516 936 |
| 200 - 500 Ha | 11 625 | 3 415 648 |
| 500 Ha and over | 3 312 | 4 402 610 |
| TENURE (area) | | |
| Area owned or in ownerlike possession | | 11 261 000 |
| Area rented from others | | 6 040 000 |
| EMPLOYMENT | | |
| Household members engaged in agricultural work on the holding | | 414 600 |
| Hired permanent workers | | 122 100 |
| Hired occasional workers | | 88 500 |
| LAND USE (area) | | |
| All land | | 17 301 000 |
| Arable land | | 6 127 000 |
| Land under temporary crops | | 4 519 000 |
| Land temporarily fallow | | 47 000 |
| Land under temporary meadows | | 1 561 000 |
| Land under perm. meadows/pastures | | 9 820 000 |
| All other land (2) | | 1 354 000 |
| CROPS, TEMPORARY (area) | | |
| Wheat | | 1 759 000 |
| Barley | | 1 164 000 |
| Oats | | 91 700 |
| Maize | | 72 900 |
| Rye | | 5 800 |
| Triticale | | 6 700 |
| Beans, dry edible | | 6 200 |
| Peas, dry edible | | 42 000 |
| Field beans | | 163 100 |
| Maize for fodder | | 72 900 |
| Turnips / Swedes | | 32 200 |
| Beets for fodder | | 10 200 |

| CROPS, TEMPORARY (area) (cont'd) | | |
|----------------------------------|--|-------------|
| Sugar beets | | 197 300 |
| Potatoes | | 170 100 |
| Linseed | | 149 600 |
| Brussels sprouts | | 7 200 |
| Cabbages | | 9 800 |
| Cauliflowers | | 9 600 |
| Carrots | | 12 800 |
| Onions | | 8 500 |
| Celery | | 660 |
| Lettuce | | 4 600 |
| Sweet corn | | 1 700 |
| CROPS, PERMANENT (area) (3) | | |
| Hops | | 3 400 |
| Apples | | 23 400 |
| Pears | | 3 500 |
| Plums / Prunes | | 2 200 |
| Cherries | | 780 |
| Strawberries | | 5 300 |
| Raspberries | | 2 900 |
| Black currants | | 3 200 |
| LIVESTOCK | | |
| Cattle | | |
| Holdings reporting | | 136 708 |
| Animals | | 11 751 000 |
| Sheep | | |
| Holdings reporting | | 93 533 |
| Animals | | 43 901 000 |
| Goats | | |
| Animals | | 97 000 |
| Pigs | | |
| Holdings reporting | | 16 620 |
| Animals | | 7 756 000 |
| Deer | | |
| Animals | | 49 000 |
| Chickens | | |
| Animals | | 130 175 000 |
| Ducks / Geese | | |
| Animals | | 2 553 000 |

(1) Area classified by size of holding excludes 156 223 Ha reported by Minor Holdings.

(2) Including wood or forest land.

(3) Data refer to commercial orchards only.

AMERICAN SAMOA - Agricultural Census 1990 - Explanatory Notes

Historical outline: The US Bureau of the Census conducted the first agricultural enumeration in American Samoa as part of the 1920 Decennial Census Program. Subsequent agricultural censuses have been carried out every 10 years, in conjunction with the Population and Housing Censuses.

Organization: The Agriculture Census in American Samoa was an adjunct to the 1990 Census of Population and Housing. In December 1989, the Governor of American Samoa signed memoranda of agreement with the US Bureau of the Census for the 1990 Population and Housing Census, including agriculture enumeration: the Bureau of the Census agreed to provide technical assistance at various levels, and the Territorial Government accepted responsibility for conducting the census, for recruiting and training local office and field staff, and for the supervision of local administrative matters. The Decennial Planning Division of the US Bureau of the Census had primary supervisory responsibility for census undertaking, while the Outlying Areas Statistics Branch of the Agriculture Division served as primary planning and coordinating office. The central office of the census was established in Pago Pago, on Tutuila Island. The census staff was composed of 1 project manager, 1 census advisor, 1 office operations supervisor, 2 field operations supervisors, 18 crew leaders, 9 office clerks and 92 enumerators.

Enumeration period: The census was carried out in the period April to August 1990.

Reference date: The reference dates/periods are:

- the enumeration day for Inventory data;
- the calendar year 1989 for data on Production.

Definition: Farm is any place that had sales of US \$100 or more of agricultural products during the census year.

Coverage: The census covered the entire country.

Frame: Lists of Address Register Areas (ARA) were prepared and given to enumerators.

Methods: The census of agriculture was conducted by direct enumeration in conjunction with the Population and Housing Census. House-to-house canvassing was carried out to enumerate each ARA. On the last page of the Population and Housing questionnaire there was an agriculture screening section. The enumerator was required to complete an agriculture questionnaire when a positive answer was received to anyone of the five screening questions.

Data Source: US Department of Commerce, Bureau of the Census - 1987 Census of Agriculture - American Samoa - Vol. 1, Part 55.

Mailing address: Data User Services Division, Customer Services, Bureau of the Census, Washington DC 20233; Tel. (301) 763-1113 (General Information).

AMERICAN SAMOA - Agricultural Census 1990 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|--------|-------|
| Size classes | Number | Area |
| All holdings | 384 | 2 349 |
| Under 0.4 Ha | 19 | 4 |
| 0.4 - 1.2 Ha | 76 | 47 |
| 1.2 - 2 Ha | 69 | 100 |
| 2 - 3.2 Ha | 56 | 127 |
| 3.2 - 4 Ha | 7 | 24 |
| 4 - 8.1 Ha | 96 | 452 |
| 8.1 - 16.2 Ha | 40 | 409 |
| 16.2 - 20.2 Ha | 3 | 53 |
| 20.2 Ha and over | 18 | 1 133 |
| TENURE | | |
| Holdings operated under one form of tenure | | |
| Holdings | | 368 |
| Area | | 2 308 |
| Holdings owned or in ownerlike possession | | |
| Holdings | | 358 |
| Area | | 2 284 |
| Holdings rented from others | | |
| Holdings | | 10 |
| Area | | 24 |
| Holdings under more than one form of tenure | | |
| Holdings | | 16 |
| Area | | 41 |
| HOLDERS BY AGE | | |
| Holdings, total | | 384 |
| Under 25 years of age | | 9 |
| 25 to 34 years of age | | 32 |
| 35 to 44 years of age | | 81 |
| 45 to 54 years of age | | 130 |
| 55 to 64 years of age | | 78 |
| 65 years of age and over | | 54 |
| HOLDERS BY TYPE OF ACTIVITY | | |
| Holdings engaged mainly: | | |
| In agricultural work on the holding | | 139 |
| In work off the holding | | 245 |
| LAND USE (area) | | |
| Agricultural land | | 1 817 |
| Cropland | | 1 680 |
| Land under crops | | 1 462 |
| Other cropland | | 219 |
| Land under perm. meadows/pastures | | 137 |
| All other land | | 532 |
| CROPS, TEMPORARY (area) | | |
| Taro (cocoyam) | | 236 |
| Yams | | 15 |
| Cucumbers | | 14 |
| Cabbages | | 9 |
| Sugar cane | | 6 |
| Beans, green | | 4 |
| Cassava | | 2 |
| Maize | | 2 |
| Melons | | 1 |
| CROPS, PERMANENT | | |
| Avocados | | |
| Holdings reporting | | 63 |
| Trees | | 590 |
| Bananas | | |
| Holdings reporting | | 354 |

| CROPS, PERMANENT (cont'd) | |
|---------------------------|---------|
| Breadfruit | |
| Holdings reporting | 299 |
| Trees | 53 890 |
| Cocoa | |
| Holdings reporting | 24 |
| Trees | 1 801 |
| Coconut | |
| Holdings reporting | 291 |
| Trees | 255 696 |
| Grapefruit | |
| Holdings reporting | 14 |
| Trees | 638 |
| Lemons | |
| Holdings reporting | 117 |
| Trees | 2 199 |
| Limes | |
| Holdings reporting | 45 |
| Trees | 441 |
| Mangoes | |
| Holdings reporting | 124 |
| Trees | 886 |
| Oranges | |
| Holdings reporting | 76 |
| Trees | 1 392 |
| Papayas | |
| Holdings reporting | 167 |
| Trees | 12 556 |
| Pineapples | |
| Holdings reporting | 100 |
| Trees | 26 833 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 4 |
| Animals | 179 |
| Pigs | |
| Holdings reporting | 263 |
| Animals | 7 580 |
| Horses / Mules / Asses | |
| Holdings reporting | 2 |
| Chickens | |
| Holdings reporting | 173 |
| Animals | 27 401 |
| MACHINERY / EQUIPMENT | |
| Tractors | |
| Holdings reporting | 8 |
| Units | 8 |
| Trucks | |
| Holdings reporting | 14 |
| Units | 17 |

AUSTRALIA - Agricultural Census 1990 - Explanatory Notes

Historical outline: The Agricultural Census in Australia is conducted annually. In some of the six States and two Territories forming the Commonwealth of Australia, annual agricultural censuses have been conducted for 140 years. Data here refer to the year 1989/90.

Organization: The Australian Bureau of Statistics (ABS), responsible for the collection, compilation and publication of official statistics, including those relating to the agricultural sector, was established under the ABS Act 1975, as a statutory authority responsible directly to a Minister of the Australian Government (currently the Treasurer). The Act also created the office of the Australian Statistician, and established the Australian Advisory Council, with function of adviser to the Minister and to the Statistician. Offices of the ABS are situated in the capital city in each State and in the Northern Territory. The Central Office is in Canberra, the national capital.

Enumeration period: The Annual Census collection date is 31 March. This census was conducted at the end of March 1990.

Reference date: Data refer to the agricultural year 1989-90. Holders are requested to give details relating to their activities during the 12 months preceding the census date. Livestock numbers are reported on the basis of those on the holding on 31 March. For some commodities not harvested by 31 March, production data are collected, by means of a specific supplementary questionnaire, at a later, more relevant time.

Definition: The statistical unit of reference for the agricultural census is the Establishment which is the smallest accounting unit, within a State or a Territory of the Country, that controls its productive activities, and for which a specified range of detailed data is available at least on an annual basis.

- Agricultural Establishments are those engaged mainly in agricultural activity.
- Establishments with Agricultural Activity are establishments that are land-based and engaged in agricultural activity regardless of the unit's predominant activity.

Coverage: The census is conducted in each of the six States and two Territories of the Commonwealth of Australia. The 1989-90 Census covered the Establishments (see definition above), undertaking agricultural activity and reporting, for the previous census, an Estimated Value of Agricultural Operations (EVAO), of A\$20,000 or more.

Frame: Indicative information on all units engaged in agricultural activity is included on 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.

Methods: A wide range of agricultural items is collected in the census by mail from about 130,000 individual landholders. A computer system is used to print address labels to dispatch forms, to mark in returns received, and to generate sets of reminders. Intensive telephone reminder action, followed if necessary by personal visits, is also taken for some respondents. The final response rate is approximately 95 percent. 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: Australian Bureau of Statistics - ABS Catalogues N. 7102.0, 7221.0, 7330.0.

Mailing address: Australian Bureau of Statistics - Cameron Offices, Chandler Street, Belconnen, ACT; P.O. Box 10, ACT, 2616; Tel. (06) 2527911; Fax (06) 2516009.

AUSTRALIA - Agricultural Census 1990 - Primary Results

Area: in hectares

| NUMBER OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | PERMANENT CROPS (cont'd) | |
|--|-------------|--------------------------|-------------|
| Size classes | Number | | |
| All holdings | 129 540 | Pears | |
| Holdings without land | 523 | Area | 6 400 |
| Under 5 Ha | 2 845 | Trees | 2 201 000 |
| 5 - 10 Ha | 3 052 | Apricots | |
| 10 - 20 Ha | 4 808 | Trees | 893 000 |
| 20 - 50 Ha | 9 144 | Cherries | |
| 50 - 100 Ha | 12 607 | Trees | 688 000 |
| 100 - 200 Ha | 17 415 | Nectarines | |
| 200 - 500 Ha | 27 615 | Trees | 993 000 |
| 500 - 1000 Ha | 19 924 | Peaches | |
| 1000 - 2000 Ha | 14 624 | Trees | 2 035 000 |
| 2000 Ha and over | 16 983 | Plums / Prunes | |
| | | Trees | 1 219 000 |
| AREA OF HOLDINGS | | Avocados | |
| Total area | 466 561 000 | Trees | 472 000 |
| LAND USE (area) | | Mangoes | |
| Land under crops | 18 130 000 | Trees | 554 000 |
| All other land | 448 431 000 | Olives | |
| | | Trees | 74 000 |
| CROPS, TEMPORARY (area) | | Almonds | |
| Wheat | 9 004 000 | Trees | 993 000 |
| Barley | 2 310 000 | Macadamia | |
| Fodder crops | 1 350 000 | Trees | 1 604 000 |
| Oats | 1 089 000 | Bananas | |
| Sugar cane | 397 000 | Area | 9 300 |
| Sorghum | 380 000 | Pineapples | |
| Cotton | 240 000 | Area | 6 500 |
| Rice | 105 000 | Grapes | |
| Triticale | 89 000 | Area | 59 200 |
| Sunflower for seed | 66 000 | LIVESTOCK | |
| Maize | 52 000 | Cattle | |
| Rapeseed | 50 000 | Holdings reporting | 75 105 |
| Soybeans | 49 000 | Animals | 23 191 000 |
| Potatoes | 40 640 | Sheep | |
| Rye | 37 000 | Holdings reporting | 63 716 |
| Millet | 34 000 | Animals | 170 297 000 |
| Safflower seed | 33 000 | Goats | |
| Groundnuts | 18 000 | Holdings reporting | 2 799 |
| Canary seed | 12 000 | Animals | 560 400 |
| Tomatoes | 9 604 | Horses | |
| Beans, dry edible | 7 330 | Holdings reporting | 33 137 |
| Pumpkins | 7 024 | Animals | 310 400 |
| Melons | 6 987 | Pigs | |
| Sweet corn | 5 177 | Holdings reporting | 6 847 |
| Onions | 5 083 | Animals | 2 648 000 |
| Tobacco | 5 000 | Chickens | |
| Carrots | 4 751 | Holdings reporting | 1 097 |
| Broccoli | 4 218 | Animals | 59 956 000 |
| Lettuce | 4 020 | Ducks | |
| Cauliflower | 3 725 | Animals | 276 000 |
| Cabbages | 2 615 | Turkeys | |
| Linseed | 2 000 | Animals | 1 240 000 |
| Capsicum | 1 268 | Beehives | |
| Cucumbers | 1 262 | Units | 405 000 |
| Beets | 1 061 | | |
| Celery | 917 | | |
| PERMANENT CROPS | | | |
| Oranges | | | |
| Trees | 7 187 000 | | |
| Lemons / Limes | | | |
| Trees | 485 000 | | |
| Mandarins | | | |
| Trees | 831 000 | | |
| Grapefruit | | | |
| Trees | 299 000 | | |
| Apples | | | |
| Area | 18 700 | | |
| Trees | 7 023 000 | | |

COOK ISLANDS - Agricultural Census 1988 - Explanatory Notes

Historical outline: An agricultural sample survey was undertaken in 1950 in the Cook Islands as part of the 1950 World Census of Agriculture Programme, but data were deemed to be unsatisfactory owing to insufficient response and incomplete sampling. A second attempt to conduct an agricultural census was made in 1975 but coverage was limited to the island of Rarotonga. In 1988, the census of agriculture to which present notes and data relate was successfully carried out.

Organization: The census was organized and conducted under the responsibility of the Ministry of Agriculture in collaboration with the Statistics Office; an Agricultural Census Unit was established to coordinate all census operations. Financial and technical support was given by the UN Development Program, together with the Food and Agriculture Organization of the UN. Field work was carried out by 83 enumerators and 23 supervisors.

Enumeration period: The census was carried out from 1 to 30 September 1988; however, in a few areas, the field work was delayed and was not completed until December 1989.

Reference date: Data on crops and machinery refer to the 12 months preceding the census; data on employment refer to the month preceding the census (August 1988); all other data refer to the period 1 - 30 September 1988.

Definitions: A household is defined as:

- a) "Non-Agricultural" if it is not engaged in crop production (also if household members own or look after unused land or livestock);
- b) having a "Minor Agricultural Activity" if it manages less than 0.05 Ha of land under garden crops or less than 10 coconuts or other crop trees;
- c) "Agriculturally Active" if the household manages 0.05 Ha or more of land under garden crops or grows 10 or more crop trees. In this third case the household is considered as operating a holding.

Coverage: All households and holdings in the Cook Islands were covered; institutions (hospitals, hotels, prisons, other public services organizations, etc.) were excluded from the census.

Frame: The frame used was the updated list of households by Enumeration Areas (EAs) compiled during the 1986 Census of Population and Dwellings.

Methods: All islands were divided, for census purposes, into Census Districts (CDs), which were in turn subdivided into EAs up to a total of 43 CDs and 124 EAs for the whole country. The census was carried out on a complete enumeration basis through direct interview.

Three questionnaire forms were used:

- Household, which was completed for all households regardless of the level of their agricultural activity.
- Holding, which was completed for all agriculturally active households (see definitions - c).
- Parcel, referring to the characteristics of parcels as reported in the Holding Form.

A Pilot Test in two phases preceded the census to ensure the effectiveness of the questionnaires. To check the accuracy of data collected, a Post Enumeration Sample Survey was launched immediately after the end of field enumeration and completed in June 1989.

Data source: Ministry of Agriculture and Statistics Office - Census of Agriculture 1988 - Rarotonga - Cook Islands.

Mailing address: Ministry of Agriculture - Rarotonga - Cook Islands; Tel. 28711, or Statistics Office - Rarotonga - Cook Islands; Tel. 29390.

COOK ISLANDS - Agricultural Census 1988 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|--------|---------|
| Size classes | Number | Area |
| All holdings | 2 188 | 2 604 |
| Under 0.1 Ha | 46 | 2 |
| 0.1 - 0.2 Ha | 221 | 23 |
| 0.2 - 0.4 Ha | 354 | 86 |
| 0.4 - 0.8 Ha | 469 | 244 |
| 0.8 - 1.2 Ha | 349 | 324 |
| 1.2 - 2.02 Ha | 349 | 510 |
| 2.02 - 4 Ha | 290 | 757 |
| 4 Ha and over | 110 | 658 |
| FRAGMENTATION OF HOLDINGS | | |
| Parcels | | 6 399 |
| FARM POPULATION | | |
| Household members, total | | 11 887 |
| Male | | 6 169 |
| Under 10 years of age | | 1 612 |
| 10 years of age and over | | 4 557 |
| Female | | 5 718 |
| Under 10 years of age | | 1 526 |
| 10 years of age and over | | 4 192 |
| EMPLOYMENT | | |
| Household members engaged in agricultural work on the holding: | | |
| Total | | 5 017 |
| Male | | 3 316 |
| 10 and up to 19 years of age | | 1 079 |
| 20 and up to 39 years of age | | 1 033 |
| 40 and up to 59 years of age | | 863 |
| 60 years of age and over | | 341 |
| Female | | 1 701 |
| 10 and up to 19 years of age | | 548 |
| 20 and up to 39 years of age | | 550 |
| 40 and up to 59 years of age | | 494 |
| 60 years of age and over | | 109 |
| CROPS, TEMPORARY (area) | | |
| Cassava | | 305 |
| Taro | | 233 |
| Beans, dry edible | | 9 |
| Cabbages | | 6 |
| Tomatoes | | 17 |
| Peppers (capsicum) | | 3 |
| Watermelons | | 18 |
| CROPS, PERMANENT | | |
| Chestnuts | | |
| Trees | | 1 362 |
| In compact plantations | | 194 |
| Scattered | | 1 168 |
| Coconuts | | |
| Trees | | 211 443 |
| In compact plantations | | 188 169 |
| Scattered | | 23 274 |

| CROPS, PERMANENT (cont'd) | | |
|-------------------------------|--|-----------|
| Bananas | | |
| Trees | | 187 678 |
| In compact plantations | | 177 207 |
| Scattered | | 10 471 |
| Plantains | | |
| Trees | | 17 715 |
| In compact plantations | | 14 770 |
| Scattered | | 2 945 |
| Citrus fruits | | |
| Trees | | 61 003 |
| In compact plantations | | 59 665 |
| Scattered | | 1 338 |
| Mangoes | | |
| Trees | | 3 834 |
| In compact plantations | | 632 |
| Scattered | | 3 202 |
| Avocados | | |
| Trees | | 979 |
| In compact plantations | | 169 |
| Scattered | | 810 |
| Pineapples | | |
| Trees | | 1 587 017 |
| In compact plantations | | 1 586 904 |
| Scattered | | 113 |
| Papayas | | |
| Trees | | 116 980 |
| In compact plantations | | 116 055 |
| Scattered | | 925 |
| Jack fruit trees | | |
| Trees | | 1 158 |
| In compact plantations | | 131 |
| Scattered | | 1 027 |
| Coffee | | |
| Trees | | 24 886 |
| In compact plantations | | 24 755 |
| Scattered | | 131 |
| Vanilla | | |
| Trees | | 7 083 |
| In compact plantations | | 7 057 |
| Scattered | | 26 |
| LIVESTOCK (head)(1) | | |
| Cattle | | 246 |
| Goats | | 5 470 |
| Pigs | | 16 459 |
| Horses | | 355 |
| Chickens | | 44 687 |
| MACHINERY / EQUIPMENT (units) | | |
| Tractors | | 195 |

(1) Data refer to all households, not to holdings only (see explanatory notes).

FIJI - Agricultural Census 1991 - Explanatory Notes

Historical outline: Fiji's first agricultural census was taken in 1968, the second in 1978 (both with technical assistance of the Food and Agriculture Organization of the UN and the UN Development Program), while the last one, to which present notes and data refer, was conducted in 1991.

Organization: The Census was organized and conducted under the responsibility of the Statistics Unit of the Agricultural Planning and Statistics Division of the Ministry of Primary Industries and Cooperatives. Financial and technical assistance was given by the UN Development Program, together with the Food and Agriculture Organization of the UN and by the Australian International Development Assistance Bureau (AIDAB). Field work was carried out by 72 enumerators and 20 supervisors; photointerpreters, data processing experts, and clerical staff should also be mentioned.

Enumeration period: The census was carried out during the period 10 June - second week of August 1991.

Reference date: Data on number and area of holdings, land tenure, legal status, land use, permanent crops, number of livestock and poultry, refer to census day. Data on employment and farm population refer to the week preceding the enumeration day. Data on temporary crops, farm produce, use of fertilizers, use of machinery, refer to census year 1 July 1990 - 30 June 1991.

Definition: A holding is an economic unit of agricultural production reporting at least:

- 0.01 Ha of temporary crops, or permanent crops, or fallow land, or pastures;
- any piece of land, even less than 0.01 Ha and uncultivated, but with at least one head of cattle or one goat, pig, horse, sheep, poultry;
- any livestock or poultry without any land to manage.

Coverage: All farms (reporting units) existing in Fiji on the census day were covered; the urban sector (cities and towns) and lands totally under forests or one hundred percent not suitable for agriculture, were excluded from the coverage.

Frame: The Area Sampling Frame methodology was used. The Segment (SM) was the primary sampling unit. The complete list of SMs was used as frame.

Methods: A stratified two-stage sample survey was carried out. The 895 Enumeration Areas (EAs), 646 rural and 249 urban, used for the 1986 Population Census, were classified into 9 main strata and 21 sub-strata, according to importance, intensity and type of agriculture (land use). The EAs were divided into segments (SMs), i.e. pieces of land with physically defined boundaries of different sizes. 1220 SMs out of 14413 in rural sector, and 50 SMs out of 1933 in peri-urban areas, were systematically sampled all over the country; all farms (reporting units) in the sample SMs were investigated, following a weighted-segment method, by enumerators through direct interview.

Data source: Ministry of Primary Industries and Cooperatives - Agricultural Planning and Statistics Division - Statistics Unit - Fiji National Agricultural Census 1991 - Suva, Fiji 1992.

Mailing address: Ministry of Agriculture Fisheries and Forests - P.O. Box 358 Rodwell Road - Suva, Fiji - Tel. 00679 311233; Fax 00679 302478.

FIJI - Agricultural Census 1991 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|--------|---------|
| Size classes | Number | Area |
| All holdings | 95 400 | 591 407 |
| Holdings without land | 13 068 | 0 |
| Under 1 Ha | 28 252 | 11 358 |
| 1 - 3 Ha | 17 638 | 32 000 |
| 3 - 5 Ha | 12 276 | 49 321 |
| 5 - 10 Ha | 12 703 | 87 283 |
| 10 - 20 Ha | 6 332 | 85 334 |
| 20 - 50 Ha | 3 173 | 98 141 |
| 50 - 100 Ha | 1 407 | 95 471 |
| 100 Ha and over | 551 | 132 499 |
| TENURE (area) | | |
| Area owned or in ownerlike possession | | 93 365 |
| Area rented from others | | 294 972 |
| Area under tribal or traditional communal forms of tenure | | 190 380 |
| Area under other forms of tenure | | 12 690 |
| LEGAL STATUS | | |
| Holdings operated by: | | |
| An individual or a household | | 89 728 |
| Two or more individuals/households | | 860 |
| Corporation | | 86 |
| Cooperative | | 191 |
| Collective | | 1 380 |
| Government | | 52 |
| Other | | 567 |
| Not stated | | 2 536 |
| HOLDERS BY AGE | | |
| Holdings, total | | 95 400 |
| 10 to 19 years of age | | 828 |
| 20 to 39 years of age | | 32 904 |
| 40 to 59 years of age | | 43 955 |
| 60 years of age and over | | 15 601 |
| Of age not specified | | 2 112 |
| HOLDERS BY SEX | | |
| Holdings, total | | 95 400 |
| Male | | 88 431 |
| Female | | 4 857 |
| Not classified by sex | | 2 112 |
| FARM POPULATION | | |
| Household members, total | | 469 797 |
| Male | | 248 732 |
| Female | | 221 065 |
| EMPLOYMENT (1) | | |
| Household members engaged in agricultural work on the holding | | 127 877 |
| Household members engaged in work off the holding | | 45 688 |
| Household members not economically active | | 215 092 |
| LAND USE (area) | | |
| Agricultural land | | 424 685 |
| Cropland | | 251 279 |
| Arable land | | 67 157 |
| Land under temporary crops | | 33 179 |
| Land temporarily fallow | | 33 978 |
| Land under permanent crops | | 184 122 |
| Land under perm. meadows/pastures | | 173 406 |
| Wood or forest land | | 112 697 |
| All other land | | 54 025 |
| CROPS, TEMPORARY (area) (2) | | |
| Sugar cane | | 112 192 |

| CROPS, TEMPORARY (area) (2) (cont'd) | |
|---|---------|
| Rice | 9 642 |
| Cassava | 6 220 |
| Dalo | 1 810 |
| Maize | 1 483 |
| Sweet potatoes | 969 |
| Cabbage | 469 |
| Tomatoes | 449 |
| Pigeon peas | 407 |
| Yam | 374 |
| Watermelons | 320 |
| Groundnuts | 314 |
| Okra | 313 |
| Yaquona | 258 |
| Eggplant | 247 |
| Tobacco | 177 |
| Pumpkins | 155 |
| Ginger | 116 |
| Cucumbers | 94 |
| Cow peas | 71 |
| CROPS, PERMANENT (area) | |
| Coconut | 28 968 |
| Cocoa | 3 335 |
| Bananas | 901 |
| Pineapples | 392 |
| Oranges | 373 |
| Duruka | 255 |
| Coffee | 216 |
| Bele | 77 |
| Papaya | 54 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 42 789 |
| Animals | 280 221 |
| Cattle under 1 year of age | 46 062 |
| Cattle 1 - 3 years of age | 46 109 |
| Cattle 3 years of age and over | 155 898 |
| Of age not stated | 32 152 |
| Goats | |
| Holdings reporting | 24 027 |
| Animals | 187 235 |
| Pigs (3) | |
| Holdings reporting | 14 609 |
| Animals | 90 850 |
| Horses | |
| Holdings reporting | 18 766 |
| Animals | |
| Chickens (3) | |
| Holdings reporting | 64 788 |
| Animals | 781 173 |
| Ducks | |
| Holdings reporting | 17 784 |
| Animals | 135 935 |
| MACHINERY / EQUIPMENT (holdings reporting) (4) | |
| Tractors | 6 419 |
| Rotary tillers | 3 676 |
| Scarifiers | 996 |
| Cars / Vans | 1 579 |
| Lorries | 2 341 |
| FERTILIZERS / PESTICIDES | |
| Inorganic fertilizers | |
| Holdings reporting use | 33 738 |
| Pesticides | |
| Holdings reporting use | 35 957 |

(1) Data refer to persons 10 years of age and over.

(2) Area in pure stand only.

(3) Excluding commercial farms.

(4) Owned by the holder.

GUAM - Agricultural Census 1987 - Explanatory Notes

Historical outline: The United States carried out its first agricultural census of Guam in 1920 with the decennial population census of that year; the agriculture enumeration continued as part of the decennial effort through 1960. In 1964 Guam was included in the quinquennial agriculture census plan.

Organization: In April 1987, the Director of Commerce for Guam signed an agreement with the US Bureau of the Census for undertaking a census of agriculture: the Bureau of the Census agreed to provide technical assistance at various levels, and the territorial Government accepted responsibility for recruiting and training local office and field staff, and supervising local administrative matters. The Agriculture Division of the Bureau of the Census conducted both Agriculture and Economic Censuses in Guam. A census office of the Bureau was established in Tamuning. The census staff was composed of 1 project manager, 2 crew leaders, 3 office clerks and 19 enumerators.

Enumeration period: The census was carried out in late February and March 1988, lasting for about nine weeks. It started immediately before the 1987 Economic Census.

Reference date: The reference dates/periods are:

- the enumeration day for Inventory data;
- the calendar year 1987 for Production data.

Definitions:

- Farm is any place that had sales of US \$100 or more of agricultural products during the census year.
- Special Farm is a "large holding " having minimum annual sales of agricultural products of US \$500, or having at least 20 acres (8.1 Ha) of land.

Coverage: The census covered the entire country.

Frame: Lists of households in each Enumeration District (ED) were used on the basis of those already prepared for the 1982 Agriculture Census and the 1980 Census of Population and Housing. A list of probable Special Farms, identified by using the 1982 Agriculture Census lists and information from the local Department of Agriculture, was also prepared.

Methods: Guam was divided into 19 EDs, clearly delineated on special maps; an enumerator was assigned to each ED. The complete enumeration of all agricultural operations was conducted through direct interview, using three different methods based on density of population:

- In predominantly rural EDs, a door-to-door canvass of every household in an ED was carried out.
- In built-up areas with 25 or more dwellings, each laying on a piece of land of 0.4 Ha or less, only those households associated with agricultural operations were listed.
- In EDs having 10 or fewer farms listed in the 1982 agricultural census, the interviewers visited each place pre-qualified as a farm in their lists and added to the pre-listed farms those newly identified. The enumerators were also given lists of Special Farms located in each ED. As a result of the field operations, a total of 351 farms were enumerated.

Data source: US Department of Commerce, Bureau of the Census - 1987 Census of Agriculture - Guam - Vol. 1, Part 53 - March 1989.

Mailing address: Data User Services Division, Customer Services, Bureau of the Census, Washington DC 20233; Tel. (301) 763-1113 (General Information).

GUAM - Agricultural Census 1987 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|--------|--------|
| Size classes | Number | Area |
| All holdings | 351 | 5 315 |
| Under 0.4 Ha | 22 | 4 |
| 0.4 - 1.2 Ha | 126 | 75 |
| 1.2 - 2 Ha | 56 | 83 |
| 2 - 3.2 Ha | 46 | 110 |
| 3.2 - 4 Ha | 17 | 58 |
| 4 - 8.1 Ha | 36 | 189 |
| 8.1 - 16.2 Ha | 28 | 270 |
| 16.2 - 20.2 Ha | 4 | 71 |
| 20.2 Ha and over | 16 | 4 455 |
| HOLDERS BY AGE | | |
| Holders, total | | 351 |
| Under 25 years of age | | 7 |
| 25 to 34 years of age | | 28 |
| 35 to 44 years of age | | 49 |
| 45 to 54 years of age | | 98 |
| 55 to 64 years of age | | 108 |
| 65 years of age and over | | 61 |
| HOLDERS BY TYPE OF ACTIVITY | | |
| Holders engaged mainly: | | |
| In agricultural work on the holding | | 190 |
| In work off the holding | | 161 |
| LAND USE (area) | | |
| Agricultural land | | 2 508 |
| Cropland | | 939 |
| Land under crops | | 487 |
| Land under temporary meadows | | 74 |
| Other cropland | | 378 |
| Land under perm. meadows/pastures | | 1 569 |
| All other land | | 2 807 |
| CROPS, TEMPORARY (area) | | |
| Watermelons | | 47 |
| Beans, green | | 38 |
| Cucumbers | | 29 |
| Cantaloupes | | 20 |
| Eggplant | | 20 |
| Green peppers | | 12 |
| Maize | | 12 |
| Taro (cocoyam) | | 11 |
| Tomatoes | | 10 |
| Chinese cabbage | | 9 |
| Yams | | 7 |
| Cassava | | 7 |
| Sweet potatoes | | 6 |
| CROPS, PERMANENT | | |
| Avocados | | 190 |
| Holdings reporting | | 5 985 |
| Trees | | |
| Bananas | | 254 |
| Holdings reporting | | 84 714 |
| Trees | | |
| Betelnuts | | 147 |
| Holdings reporting | | 11 388 |
| Trees | | |
| Breadfruit | | 156 |
| Holdings reporting | | 1 006 |
| Trees | | |
| Guavas | | 145 |
| Holdings reporting | | 3 238 |
| Trees | | |

| CROPS, PERMANENT (cont'd) | | |
|---------------------------|--|--------|
| Coconut | | 214 |
| Holdings reporting | | 25 091 |
| Trees | | |
| Grapefruit | | 58 |
| Holdings reporting | | 278 |
| Trees | | |
| Lemons / Limes | | 223 |
| Holdings reporting | | 3 778 |
| Trees | | |
| Starfruit | | 97 |
| Holdings reporting | | 421 |
| Trees | | |
| Mangoes | | 205 |
| Holdings reporting | | 4 721 |
| Trees | | |
| Oranges | | 105 |
| Holdings reporting | | 600 |
| Trees | | |
| Papayas | | 112 |
| Holdings reporting | | 3 270 |
| Trees | | |
| Pineapples | | 58 |
| Holdings reporting | | 38 633 |
| Trees | | |
| Tangerines | | 159 |
| Holdings reporting | | 2 924 |
| Trees | | |
| LIVESTOCK | | |
| Cattle | | 56 |
| Holdings reporting | | 317 |
| Animals | | |
| Pigs | | 195 |
| Holdings reporting | | 2 627 |
| Animals | | |
| Goats | | 63 |
| Holdings reporting | | 851 |
| Animals | | |
| Horses | | 10 |
| Holdings reporting | | 21 |
| Animals | | |
| Chickens | | 60 494 |
| Animals | | |
| Ducks | | 66 |
| Holdings reporting | | 4 122 |
| Animals | | |
| Geese | | 27 |
| Holdings reporting | | 115 |
| Animals | | |
| Pigeons | | 33 |
| Holdings reporting | | 866 |
| Animals | | |

NEW CALEDONIA - Agricultural Census 1991 - Explanatory Notes

Historical outline: The 1991 General Census of Agriculture is the second undertaken in New Caledonia; the first one was conducted in 1983-84.

Organization: The Institute of Statistics and Economic Studies of the Territory of New Caledonia (ITSEE) was entrusted with the technical organization of the census. Financial assistance was given partly by the Central Service of Statistical Surveys and Studies (SCEES) of the Ministry of Agriculture and Forestry of France, and partly by the Department of Agriculture and Forestry of the Territory. The field work was carried out by 150 enumerators, supervisors and controllers.

Enumeration period: The census was conducted from 5 August 1991 to 31 January 1992.

Definitions:

- "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 four conditions:
 - an agricultural output;
 - at least 1 Ha of "superficie agricole utilisée", or 0.2 Ha of specialized cultivations mainly for sale, or overstepping a certain number of livestock (depending on the type of animal), or a certain level of agricultural output, or an agricultural activity for home consumption in the contest of the Tribe;
 - an autonomous management;
 - accurately located in a municipality and identified by the most important building or the most important parcel.

Coverage: The census covered the entire country.

Frame: In the preparatory phase of the census, a population of 12,500 units, *a priori* considered able to satisfy the above mentioned conditions, were identified from lists prepared for the 1989 Population Census.

Methods: Out of the 12,500 units identified *a priori*, 12,000 (96 percent) were effectively enumerated and 10,302 identified as agricultural holdings; of these, 6,812 qualified as holdings producing for home consumption, and 3,490 were considered as commercial holdings. The holdings were enumerated through direct interview, and objective measurement techniques were applied on a sample of parcels, to estimate standard density of plantations, etc.

Data source: Recensement Général de l'Agriculture 1991 en Nouvelle-Calédonie (RGA91), vol. 1,2,3,4.

Mailing address: Institut Territorial de la Statistique et des Études Économiques - BP 823 Nouméa, Nouvelle Calédonie; Tél.: 27 54 81 / 28 31 56 Fax: 28 81 48.

NEW CALEDONIA - Agricultural Census 1991 - Primary Results

Area: in hectares

| | | | |
|------------------------------------|--|---------|-------|
| NUMBER AND AREA OF HOLDINGS | | | |
| Holdings reporting | | 10 302 | |
| Total area | | 313 769 | |
| FARM POPULATION | | | |
| Household members, total | | 47 824 | |
| Male | | 25 413 | |
| Under 10 years of age | | 5 484 | |
| 10 to 19 years of age | | 5 909 | |
| 20 to 29 years of age | | 4 187 | |
| 30 to 39 years of age | | 3 218 | |
| 40 to 49 years of age | | 2 650 | |
| 50 to 59 years of age | | 2 078 | |
| 60 years of age and over | | 1 887 | |
| Female | | 22 411 | |
| Under 10 years of age | | 4 869 | |
| 10 to 19 years of age | | 5 483 | |
| 20 to 29 years of age | | 3 742 | |
| 30 to 39 years of age | | 2 788 | |
| 40 to 49 years of age | | 2 165 | |
| 50 to 59 years of age | | 1 847 | |
| 60 years of age and over | | 1 517 | |
| EMPLOYMENT | | | |
| Hired permanent workers | | 323 | |
| Holdings reporting | | 891 | |
| Workers | | | |
| LAND USE (area) | | | |
| Agricultural land | | 228 969 | |
| Cropland | | 15 039 | |
| Arable land | | 9 031 | |
| Land under permanent crops | | 6 008 | |
| Land under perm. meadows/pastures | | 213 930 | |
| Wood or forest land | | 33 191 | |
| All other land | | 51 609 | |
| CROPS, TEMPORARY (area) | | | |
| Yams | | 333 | |
| Cassava | | 217 | |
| Potatoes | | 180 | |
| Tomatoes | | 133 | |
| Carrots | | 94 | |
| Taro | | 84 | |
| Watermelons | | 78 | |
| Cucumbers | | 61 | |
| Pumpkins | | 57 | |
| Sweet potatoes | | 53 | |
| Melons | | 51 | |
| Beans, green | | 46 | |
| Beans, dry edible | | 41 | |
| Flowers / Ornamental plants | | 22 | |
| CROPS, PERMANENT (area) | | | |
| Coconut | | 2 386 | |
| Coffee | | 1 026 | |
| Mangoes | | 655 | |
| Avocados | | 330 | |
| Plantains | | 286 | |
| Bananas | | 280 | |
| Papayas | | 270 | |
| Mandarins | | 265 | |
| Lechee | | 239 | |
| Oranges | | 232 | |
| Citrons | | 128 | |
| Grapefruit | | 59 | |
| Peaches | | 37 | |
| Limes | | 20 | |
| LIVESTOCK | | | |
| Cattle | | 2 125 | |
| Holdings reporting | | 125 461 | |
| Animals | | | |
| Pigs | | 4 261 | |
| Holdings reporting | | 38 252 | |
| Animals | | | |
| LIVESTOCK (cont'd) | | | |
| Sheep | | | |
| Holdings reporting | | 37 | |
| Animals | | 3 651 | |
| Goats | | | |
| Holdings reporting | | 857 | |
| Animals | | 16 498 | |
| Horses | | | |
| Holdings reporting | | 1 992 | |
| Animals | | 11 425 | |
| Deer | | | |
| Holdings reporting | | 58 | |
| Animals | | 12 523 | |
| Ducks | | | |
| Holdings reporting | | 701 | |
| Animals | | 8 914 | |
| Geese | | | |
| Holdings reporting | | 95 | |
| Animals | | 772 | |
| Pigeons | | | |
| Holdings reporting | | 181 | |
| Animals | | 11 075 | |
| Guinea fowls | | | |
| Holdings reporting | | 97 | |
| Animals | | 1 592 | |
| Rabbits | | | |
| Holdings reporting | | 125 | |
| Animals | | 8 183 | |
| Beehives | | | |
| Holdings reporting | | 359 | |
| Units | | 2 428 | |
| MACHINERY / EQUIPMENT | | | |
| Wheel tractors | | | 1 053 |
| Holdings reporting | | | 1 361 |
| Units | | | |
| Track-laying tractors | | | 290 |
| Holdings reporting | | | 320 |
| Units | | | |
| Electric generators | | | 337 |
| Holdings reporting | | | 410 |
| Units | | | |
| Seeders | | | 144 |
| Holdings reporting | | | 170 |
| Units | | | |
| Sprayers | | | 144 |
| Holdings reporting | | | 170 |
| Units | | | |
| Dusters | | | 1 110 |
| Holdings reporting | | | 1 394 |
| Units | | | |
| Pick-up trucks | | | 1 017 |
| Holdings reporting | | | 1 178 |
| Units | | | |
| FERTILIZERS / PESTICIDES | | | |
| Fertilizers | | | 1 826 |
| Holdings reporting use | | | |
| IRRIGATION FACILITIES | | | |
| Holdings reporting use | | | 883 |

NEW ZEALAND - Agricultural Census 1990 - Explanatory Notes

Historical outline: The Agricultural Census in New Zealand is conducted annually. New Zealand has participated in all World Census of Agriculture rounds. Present data refer to the 1990 Census of Agriculture.

Organization: The Statistics Act 1975 established a Department of State called the Department of Statistics, headed by the Government Statistician, entrusted with compiling, analyzing, abstracting, and publishing official statistics, and operating under the supervision of the Minister of Statistics. The census is undertaken jointly by the Department of Statistics and the Ministry of Agriculture and Fisheries. The Department of Statistics is entrusted with producing and disseminating agricultural statistics in summarized form for release to Government and to farming or other industries organizations. The Ministry of Agriculture and Fisheries utilizes census information for the development of public policies regarding agriculture.

Enumeration period: The census enumeration day was 30 June 1990.

Reference date: Data on crop production and use of fertilizers refer to the agricultural year 1989-90. Data on land utilization and livestock numbers refer to the day of enumeration. Data on paid farm workers refer to the week preceding the census.

Definition: A holding is defined as any area of land used for, or potentially usable for, horticulture, cropping, livestock or forestry operations.

Coverage: The census covered the entire country. Effective from 1 November 1989 a two-tier system of territorial local authorities replaced the various rural and urban authorities in existence on 31 October 1989. The new system consists of Districts and Cities at the lower level, and Regions made up of groups of Districts and Cities. As a result, the country was administratively divided into 14 Regional Council Areas consisting, in turn, of 74 District and City Council Areas.

Frame: One of the most important duties of the Department of Statistics is to update and maintain a directory of all holdings, which is used as census frame.

Methods: Holdings were defined, for census purposes, as either "significant" or "insignificant," on the basis of their Estimated Value of Agricultural Output (EVAO). Significant holdings collectively produced 98% of EVAO, while insignificant holdings collectively contributed no more than 2% to the total output of agricultural industry. In number of units, significant holdings were, in 1990, the 65% of the total, while insignificant holdings were the remaining 35%. Significant holdings are generally surveyed annually, while insignificant holdings are surveyed every three years, but in the 1990 census all holdings were investigated. To carry out the postal census, four types of questionnaires were mailed:

- A first questionnaire was sent to significant holdings classified, (following the New Zealand Standard Industrial Classification, NZSIC), as Dairy Holdings, Sheep Holdings, Mixed and Other Livestock Holdings, Cropping Holdings, and Holdings Not Elsewhere Specified.
- A second questionnaire was sent to significant holdings classified as Horticultural and Fruit Growing Holdings.
- A third questionnaire was sent to insignificant holdings.
- A fourth questionnaire on capital expenditure was sent only to a sample of holdings.

Data source: New Zealand Department of Statistics - Agriculture Statistics 1990.

Mailing address: New Zealand Department of Statistics - Wellington - Aorangi House - 85 Molesworth St. - P.O. Box 2922; Tel.0-4-495 4600; Fax 0-4-472 9135; StarNet DOS001.

NEW ZEALAND - Agricultural Census 1990 - Primary Results

Area: in hectares

| | |
|------------------------------------|------------|
| NUMBER AND AREA OF HOLDINGS | |
| Holdings reporting | 80 904 |
| Total area | 17 489 398 |
| EMPLOYMENT | |
| Permanent workers, total | |
| Total | 144 349 |
| Male | 96 751 |
| Female | 47 598 |
| Household members | |
| Total | 114 781 |
| Male | 74 106 |
| Female | 40 675 |
| Hired workers | |
| Total | 29 568 |
| Male | 22 645 |
| Female | 6 923 |
| Hired occasional workers | |
| Total | 14 823 |
| Male | 8 505 |
| Female | 6 318 |
| LAND USE (area) | |
| Agricultural land | 13 945 269 |
| Cropland | 455 441 |
| Land under perm. meadows/pastures | 13 489 828 |
| Wood or forest land | 1 304 240 |
| All other land | 2 239 889 |
| CROPS, TEMPORARY (area) | |
| Wheat | 40 650 |
| Maize | 17 556 |
| Barley | 96 735 |
| Oats | 20 656 |
| Rye | 1 052 |
| Sorghum | 20 |
| Field peas | 17 752 |
| Potatoes | 10 170 |
| Tobacco | 336 |
| Onions | 2 704 |
| Linseed | 464 |
| Rapeseed | 1 162 |
| Lentils | 1 614 |
| Asparagus | 2 894 |

| | |
|---|------------|
| CROPS, TEMPORARY (area) (cont'd) | |
| Peas, dry edible | 6 658 |
| Beans, green | 1 000 |
| Broad beans | 80 |
| Broccoli | 958 |
| Cabbages | 1 019 |
| Carrots | 1 245 |
| Cauliflowers | 1 073 |
| Squash | 3 678 |
| Sweet corn | 2 898 |
| Tomatoes | 1 098 |
| CROPS, PERMANENT (area) | |
| Apples | 11 332 |
| Pears | 1 642 |
| Peaches | 1 101 |
| Apricots | 854 |
| Plums | 324 |
| Nectarines | 946 |
| Cherries | 283 |
| Grapes | 5 408 |
| Kiwi | 17 508 |
| Avocados | 1 354 |
| Feijoas | 272 |
| Passion fruit | 76 |
| Persimmons | 488 |
| Oranges | 833 |
| Grapefruit | 204 |
| Lemons | 279 |
| Mandarins | 490 |
| Tangelos | 475 |
| Hops | 154 |
| Strawberries | 313 |
| Raspberries | 285 |
| Black currants | 702 |
| LIVESTOCK (head) | |
| Cattle | 8 033 976 |
| Pigs | 394 701 |
| Sheep | 57 852 192 |
| Goats | 1 062 900 |
| Deer | 976 290 |
| Horses | 93 980 |
| Chickens | 3 360 809 |
| Other poultry | 5 723 571 |

NIUE - Agricultural Census 1989 - Explanatory Notes

Historical outline: An agricultural sample survey was undertaken in June and July 1950 in two villages of Niue Island as part of the 1950 World Census of Agriculture Programme, but when finally assembled and re-examined the data were deemed to be unsatisfactory; consequently, the 1989 Agricultural Census could be considered as the first one successfully carried out in Niue.

Organization: The census was conducted by the Statistics/Immigration Unit (SIU) of the Administrative Department with support from the Department of Agriculture, Forestry and Fisheries (DAFF). Technical support was given by the UN Development Program, together with the Food and Agriculture Organization of the UN through the project "Development of Agricultural Statistics." The field work was carried out by 25 enumerators and 3 supervisors recruited mostly among government employees of the Administrative Department and DAFF.

Enumeration period: The agricultural census was carried out in a two-week period ending on 16 October 1989.

Reference date: Data on crops refer to the 12 months preceding the visit of the enumerator; reference date for employment is the month preceding the enumeration day; all other data refer to the enumeration day itself.

Definition: A household is considered reporting:

- "None or Minor Agricultural Activity" if it manages less than 0.05 Ha of land under garden crops or less than 20 coconuts or other tree crops.
- A "Major Agricultural Activity" if the household manages 0.05 Ha or more of land under garden crops or grows 20 or more coconut or other tree crops. In this case the household is considered operating a holding.

Coverage: The census was designed to cover all private households forming the Traditional Sector in Niue. The Establishment Sector was also covered.

Frame: Almost the same Enumeration Areas (EAs) identified for the Population Census in 1986 were adopted for the agricultural census; the maps produced for each enumeration area were updated by the staff of the SIU in the months preceding the agricultural census. The country was divided into 30 EAs and these in turn were grouped into three supervision areas. The EAs as defined for population census purposes did not cover the uninhabited area in the centre of Niue island; in order to include this land area, two new districts reporting 9 EAs were defined. An updating of the household list was carried out by the enumerators during a pre-census of population.

Methods: The census was carried out on a complete enumeration basis through direct interview. Four different questionnaires were used:

- the Population Questionnaire, used for a population count which preceded the census of agricultural activities;
- the Household Questionnaire, used to state the level of agricultural activity of all households in the country;
- the Holding Questionnaire, to identify the households managing one or more holdings and the characteristics of holdings;
- the Parcel Questionnaire, to investigate land characteristics.

A Post-Enumeration Survey was conducted to test in particular the quality of data gathered on land area; objective measurement techniques were used in this phase.

Data source: Government of Niue - Department of Agriculture, Forestry and Fisheries - 1989 Niue Agricultural Census.

Mailing address: The Statistics Unit - Administration Department - P.O. Box 67 - Alofi - Niue, South Pacific.

NIUE - Agricultural Census 1989 - Primary Results

Area: in hectares

| TRADITIONAL SECTOR | |
|---|-------|
| NUMBER AND AREA OF HOLDINGS | |
| Holdings reporting | 450 |
| Total area (1) | 2 760 |
| FRAGMENTATION OF HOLDINGS | |
| Holdings with: | |
| 1 parcel | 115 |
| 2 to 3 parcels | 238 |
| 4 to 5 parcels | 80 |
| 6 parcels and over | 17 |
| Parcels | 3 903 |
| TENURE (area) | |
| Area owned or in ownerlike possession | 2 489 |
| Area rented from others | 125 |
| Area under other forms of tenure | 146 |
| HOLDERS BY SEX | |
| Holdings, total (2) | 446 |
| Male | 392 |
| Female | 54 |
| EMPLOYMENT | |
| Household members engaged in agricultural work on the holding (3) | |
| Household members, total | 1 103 |
| Male | 710 |
| 10 to 19 years of age | 209 |
| 20 to 39 years of age | 256 |
| 40 to 59 years of age | 161 |
| 60 years of age and over | 84 |
| Female | 393 |
| 10 to 19 years of age | 85 |
| 20 to 39 years of age | 125 |
| 40 to 59 years of age | 144 |
| 60 years of age and over | 39 |
| LAND USE (area) | |
| Land under crops | 635 |
| Land temporarily fallow | 2 125 |
| CROPS, TEMPORARY (area) | |
| Taro | 421 |
| Cassava | 7 |
| Sweet potatoes | 7 |
| Yams | 8 |
| CROPS, PERMANENT | |
| Coconuts (4) | |
| Area | 400 |

| TRADITIONAL SECTOR (cont'd) | |
|------------------------------------|-------|
| CROPS, PERMANENT (cont'd) | |
| Bananas | |
| Area | 32 |
| Breadfruit | |
| Trees | 3 656 |
| Mangoes | |
| Trees | 1 460 |
| Papayas | |
| Trees | 6 269 |
| Spondias | |
| Trees | 1 114 |
| LIVESTOCK | |
| Pigs | |
| Holdings reporting (2) | 315 |
| Animals | 1 527 |
| Chickens | |
| Holdings reporting (2) | 321 |
| Animals | 9 716 |
| FERTILIZERS / PESTICIDES | |
| Fertilizers | |
| Holdings reporting use (2) | 208 |
| Pesticides | |
| Holdings reporting use (2) | 388 |
| ESTABLISHMENT SECTOR | |
| NUMBER AND AREA OF HOLDINGS | |
| Holdings reporting | 3 |
| Total area | 1 25 |
| CROPS, TEMPORARY (area) | |
| Taro | 1 |
| Cassava | 1 |
| CROPS, PERMANENT (area) | |
| Coconuts | 18 |
| Limes | 13 |
| LIVESTOCK (head) | |
| Cattle | 129 |
| Pigs | 44 |
| Goats | 25 |
| Ducks | 51 |

(1) Data refer to land in use.

(2) Data refer to agricultural households.

(3) Data refer to household members 10 years of age and over.

(4) Excluding parcels reporting coconut only.

NORTHERN MARIANA ISLANDS - Agricultural Census 1990 - Explanatory Notes

Historical outline: The US Bureau of the Census conducted the first agricultural enumeration of farms in the Commonwealth of Northern Mariana Islands as part of the 1970 Census of Population and Housing. The agricultural census plan in Northern Mariana Islands continued with the Decennial Population and Housing Census Program and will be integrated into the Quinquennial Agricultural Census Plan in 1997.

Organization: The 1990 Agriculture Census in Northern Mariana Islands was an adjunct to the 1990 Census of Population and Housing. In December 1989, the Governor of Northern Mariana Islands signed memoranda of agreement with the US Bureau of the Census, for the 1990 Population and Housing Census, including agricultural enumeration: the Bureau of the Census agreed to provide technical assistance at various levels, and the Territorial Government accepted responsibility for conducting the census, for recruiting and training local office and field staff, and for the supervision of local administrative matters. The Decennial Planning Division (DPLD) of the US Bureau of the Census had primary supervisory responsibility for census undertaking, and the Outlying Areas Statistics Branch of the Agriculture Division served as primary planning and coordinating office. The central office of the census was established in Capitol Hill, Saipan. The census staff was composed of 1 project manager, 1 census advisor, 1 office operation supervisor, 1 field operations supervisor, 7 crew leaders, 5 office clerks and 45 enumerators.

Enumeration period: The census was carried out from April to August 1990.

Reference date:

The reference dates/periods are:

- the enumeration day for inventory data;
- the calendar year 1989 for data on production.

Definition: Farm is any place that had sales of US \$100 or more of agricultural products during the census year.

Coverage: The census covered the entire country.

Frame: Lists of Address Register Areas (ARA) were prepared and given to enumerators.

Methods: The census of agriculture was conducted by direct enumeration in conjunction with the Population and Housing Census. House-to-house canvassing was carried out to enumerate each ARA. On the last page of the Population and Housing questionnaire was an agriculture screening section. The enumerator was required to complete an agriculture questionnaire when a positive answer was received to anyone of the five screening questions.

Data source: US Department of Commerce, Bureau of the Census - 1987 Census of Agriculture - Northern Mariana Islands - Vol. 1, Part 56.

Mailing address: Data User Services Division, Customer Services, Bureau of the Census, Washington DC 20233; Tel. (301) 763-1113 (General Information).

NORTHERN MARIANA ISLANDS - Agricultural Census 1990 - Primary Results

Area: In hectares

| NUMBER AND AREA OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | | |
|---|--------|--------|
| Size classes | Number | Area |
| All holdings | 119 | 5 836 |
| Under 0.4 Ha | 10 | 2 |
| 0.4 - 1.2 Ha | 21 | 16 |
| 1.2 - 2 Ha | 17 | 27 |
| 2 - 3.2 Ha | 22 | 52 |
| 3.2 - 4 Ha | 3 | 10 |
| 4 - 8.1 Ha | 16 | 95 |
| 8.1 - 16.2 Ha | 10 | 104 |
| 16.2 - 20.2 Ha | 3 | 52 |
| 20.2 Ha and over | 17 | 5 478 |
| TENURE | | |
| Holdings operated under one form of tenure | | |
| Holdings | | 95 |
| Area | | 4 809 |
| Holdings owned or in ownerlike possession | | |
| Holdings | | 67 |
| Area | | 216 |
| Holdings rented from others | | |
| Holdings | | 28 |
| Area | | 4 593 |
| Holdings under more than one form of tenure | | |
| Holdings | | 24 |
| Area | | 1 027 |
| HOLDERS BY AGE | | |
| Holdings, total | | 119 |
| Under 25 years of age | | 1 |
| 25 to 34 years of age | | 17 |
| 35 to 44 years of age | | 45 |
| 45 to 54 years of age | | 34 |
| 55 to 64 years of age | | 15 |
| 65 years of age and over | | 7 |
| HOLDERS BY TYPE OF ACTIVITY | | |
| Holdings engaged mainly: | | |
| In agricultural work on the holding | | 42 |
| In work off the holding | | 77 |
| LAND USE (area) | | |
| Agricultural land | | 3 684 |
| Cropland | | 1 919 |
| Land under crops | | 178 |
| Other cropland | | 1 742 |
| Land under perm. meadows/pastures | | 1 765 |
| All other land | | 2 152 |
| CROPS, TEMPORARY (area) | | |
| Watermelons | | 30 |
| Melons | | 21 |
| Cucumbers | | 16 |
| Taro (cocoyam) | | 10 |
| Chinese cabbages | | 9 |
| Eggplant | | 7 |
| Sweet potatoes | | 7 |
| Yams | | 4 |
| Cassava | | 3 |
| Maize | | 2 |
| CROPS, PERMANENT | | |
| Avocados | | 24 |
| Holdings reporting | | 134 |
| Trees | | |
| Bananas | | 69 |
| Holdings reporting | | 22 800 |
| Trees | | |
| Betelnuts | | 38 |
| Holdings reporting | | 8 142 |
| Trees | | |
| Breadfruit | | 33 |
| Holdings reporting | | 475 |
| Trees | | |

| CROPS, PERMANENT (cont'd) | |
|---------------------------|-------|
| Coconuts | |
| Holdings reporting | 59 |
| Trees | 7 903 |
| Oranges | |
| Holdings reporting | 27 |
| Trees | 522 |
| Guavas | |
| Holdings reporting | 29 |
| Trees | 229 |
| Lemons | |
| Holdings reporting | 48 |
| Trees | 423 |
| Limes | |
| Holdings reporting | 13 |
| Trees | 112 |
| Mangoes | |
| Holdings reporting | 45 |
| Trees | 527 |
| Papayas | |
| Holdings reporting | 45 |
| Trees | 2 905 |
| Pineapples | |
| Holdings reporting | 15 |
| Trees | 9 299 |
| Starfruits | |
| Holdings reporting | 13 |
| Trees | 37 |
| Tangerines | |
| Holdings reporting | 33 |
| Trees | 509 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 36 |
| Animals | 4 513 |
| For milk production | |
| Holdings reporting | 6 |
| Animals | 80 |
| For other purposes | |
| Holdings reporting | 33 |
| Animals | 4 433 |
| Pigs | |
| Holdings reporting | 66 |
| Animals | 1 260 |
| Goats | |
| Holdings reporting | 21 |
| Animals | 482 |
| Horses / Mules / Asses | |
| Holdings reporting | 2 |
| Chickens | |
| Holdings reporting | 63 |
| Animals | 9 580 |
| MACHINERY / EQUIPMENT | |
| Tractors | |
| Holdings reporting | 31 |
| Units | 43 |
| Trucks | |
| Holdings reporting | 21 |
| Units | 29 |

PALAU - Agricultural Census 1989 - Explanatory Notes

Historical outline: An agricultural census was conducted in Palau in 1978-79 as part of the agricultural census of the Trust Territories of the Pacific Islands (TTPI). This census was not completed in all territories. Data from this census were subsequently considered of limited value for development planning purposes and a new agricultural census was proposed for Palau for implementation in 1989.

Organization: The census was organized by the Division of Agriculture of the Bureau of Resources and Development, and supported by the Office of Planning and Statistics of the Republic of Palau. Technical support was provided by the UN Development Program, together with the Food and Agriculture Organization of the UN through a sub-regional project. The field work was carried out under the supervision of the Extension Service of the Division of Agriculture, Bureau of Resources and Development: one or two officials from each State (primary administrative subdivision) conducted the enumeration in their respective states.

Enumeration period: The census was carried out in 1989.

Reference date: Data on crops refer to the 12 months preceding the visit of the enumerator; reference date for employment is the month preceding the enumeration day; all other data refer to the enumeration day itself.

Definition: A household is considered reporting:

- None or Minor Agricultural Activity if it manages less than 0.05 Ha of land under garden crops or less than 20 coconuts or banana or other tree crops.
- Major Agricultural Activity if the household manages 0.05 Ha or more of land under garden crops or grows 20 or more coconut or banana or other tree crops. In this case the household is considered as operating a holding.

Coverage: The census was designed to cover all private households in Palau except those located in the South West Islands and the Rock Islands which were excluded on the grounds of their small population (88 persons) and the difficulties of transport and communication. Because of difficulties encountered by enumerators, the census was completed in only 7 of the 13 rural states of Palau, namely Angaur, Peleliu, Ngaremlengui, Ngardmau, Ngchesar, Ngiwal and Kayangel. A two-day pilot survey conducted for field staff training in Airai provided some partial results for this state too.

Frame: Preliminary information on number and location of households was obtained from the 1986 Population Census. An initial survey should have been undertaken in the state of Koror to identify and group None or Minor Agriculturally Active Households on the one hand, and Major Agriculturally Active Households on the other; after the preparation of an appropriate list, the households belonging to the second group should have been re-enumerated as part of the main enumeration; but the census in Koror was not undertaken and the exercise remained at a theoretical stage.

Methods: The census was carried out on a complete enumeration basis through direct interview supported by objective measurement of land parcels on a 25 percent quota sampling basis.

Data source: 1989 Palau Agricultural Census - Provisional Results for the States of Angaur, Peleliu, Ngaremlengui, Ngardmau, Ngchesar, Ngiwal, Kayangel and Airai - Report by A.D. Marshall, Project Leader of FAO/UNDP sub-regional project "Development of Agricultural Statistics".

Mailing address: Bureau of Resources and Development - Division of Agriculture - P.O. Box 460 - Koror - Republic of Palau - 96940.

PALAU - Agricultural Census 1989 - Primary Results (1)

Area: in hectares

| NUMBER AND AREA OF HOLDINGS | |
|---|--------|
| Holdings reporting | 300 |
| Total area | 158 |
| FRAGMENTATION | |
| Parcels | 814 |
| TENURE (area) | |
| Area owned or in ownerlike possession | 125 |
| Area rented from others | 20 |
| Area under tribal or traditional communal forms of tenure | 13 |
| LAND USE (area) | |
| Land under crops | 130 |
| Land temporarily fallow | 28 |
| CROPS, TEMPORARY (area) | |
| Cassava | 17 |
| Taro (cocoyam) | 74 |
| CROPS, PERMANENT | |
| Bananas Trees | 4 617 |
| Breadfruit Trees | 192 |
| Oranges Trees | 53 |
| Lemons / Limes Trees | 350 |
| Coconuts Trees | 10 427 |

| CROPS, PERMANENT (cont'd) | |
|-----------------------------|--------|
| Guavas Trees | 181 |
| Mangoes Trees | 149 |
| Papayas Trees | 1 386 |
| Soursop Trees | 161 |
| Star Apple Trees | 51 |
| Areca (Betel) nuts Trees | 62 958 |
| LIVESTOCK | |
| Pigs | |
| Holdings reporting | 113 |
| Animals | 182 |
| Chickens | |
| Holdings reporting | 131 |
| Animals | 1 527 |
| FERTILIZERS / PESTICIDES | |
| Fertilizers | |
| Holdings reporting use | 36 |
| Pesticides | |
| Holdings reporting use | 4 |

(1) Data refer to about one half of the administrative subdivisions of the REPUBLIC OF PALAU, namely: Kayangel, Ngiwal, Ngchesar, Airai, Ngardmau, Ngaremlengui, Peleliu, Angaur.

VANUATU - Agricultural Census 1993 - Explanatory Notes

Historical outline: Estimates on area and production of some crops and livestock numbers were made in the country (at that time called New Hebrides) in 1930 and 1950. The first Agricultural Census in Vanuatu was undertaken in 1983, and the second one was conducted in 1993.

Organization: The Survey Unit, established within the Statistics Office, carried out the census with the assistance of the Economics Division of the Department of Agriculture and Horticulture. In addition to Statistical Office and Agriculture Department officers, representatives from Livestock, Fisheries and Forestry Departments and from Planning Office participated in the Census Advisory Committee. The field work was carried out by the Agriculture Field Assistants (AFA) and the Agriculture Extension Officers (AEO) participating as supervisors or enumerators in the various phases of the census: in total, 95 enumerators were employed. Technical and financial assistance were provided by the New Zealand Government, by the Stabilization System for Export Earnings (STABEX), and by the Food and Agriculture Organization of the UN.

Enumeration period: The enumeration of the first phase of the census began on 13 March and was completed by early May 1993. The enumeration of the second phase started on 19 June and was completed by early October 1993. The enumeration of the third phase of the census, the Garden Survey, began on 25 October 1993 and was completed before December 1993.

Reference date: Data on agricultural activities of household's members, and data on crop planting and production, refer to the 12 months preceding the enumeration day. Data on livestock numbers refer to the enumeration day, and data on livestock disposals refer to the 12 months preceding the census.

Definition: A household is a group of people who eat in the same place at the same time: rural households were enumerated in phase I of the census.

Coverage: The census was designed to cover the entire country but, due to time requirements for implementation, difficulties in approaching some areas, refusals to co-operate with census officers, and natural calamities, some areas in Tanna, Pentecost, Shepherds and Epi Islands, and the area of Middle Bush Santo, were not enumerated. For the Garden Survey, it was decided to enumerate the larger islands only, namely Santo, Malekula, Pentecost, Ambrym, Epi and Tanna. The 1993 census did not cover plantations, schools, hospitals, etc.

Frame: The enumerators were provided with detailed maps listing villages and enumeration areas. Lists of farmers prepared during phase I were used to provide a sampling frame for phase II. During phase II, farmers were questioned about their number of gardens to provide a frame for the subsequent Garden Survey.

Methods: The census was conducted in three phases:

- Phase I consisted of a complete rural households listing exercise. Two questionnaires were, in turn, used by enumerators: a village questionnaire, to collect data on items shared among many households, and a separate questionnaire for each head of household.
- Phase II involved conducting seven surveys covering the following subjects: Household, Coconuts, Cocoa, Kava, Coffee, Cattle and Fish; for each of the seven subjects, a sampling frame, consisting of only those households involved in that specific agricultural activity, was constructed; each of the seven frames was stratified into 39 Field Assistant Areas (AFA); a systematic sample of clusters, with a minimum of 20 households per cluster, was chosen from each of the 39 strata, with probability proportional to the number of households in the cluster. To achieve a sample of minimum 15% of all households, ten farmers were selected, with equal probability, from each of the already chosen clusters, and interviewed.
- Phase III consisted of a garden measurement survey: a 10% sample was selected from the 15% of households already selected in phase II, providing a 1.5% sample of all households. All gardens in this 1.5% sample were investigated by applying objective measurement techniques.

Data source: Vanuatu - National Agriculture Census 1993 - Main Report.

Mailing address: Department of Agriculture - Statistics Office - Private Mail Bag 19 - Port Vila, Vanuatu - Tel. 00678 23406/23519; Fax 00678 25108.

VANUATU - Agricultural Census 1993 - Primary Results

Area: in hectares

| NUMBER AND AREA OF HOLDINGS | |
|-----------------------------|--------|
| Holdings reporting | 22 000 |
| CROPS, TEMPORARY | |
| Maize | |
| Holdings reporting | 16 284 |
| Beans, dry edible | |
| Holdings reporting | 12 396 |
| Potatoes | |
| Holdings reporting | 242 |
| Cassava (manioc) | |
| Holdings reporting | 21 274 |
| Yams | |
| Holdings reporting | 20 428 |
| Kumala root | |
| Holdings reporting | 19 761 |
| Onions | |
| Holdings reporting | 9 948 |
| Groundnuts | |
| Holdings reporting | 2 894 |
| Lettuce | |
| Holdings reporting | 2 619 |
| Cucumbers | |
| Holdings reporting | 7 201 |
| Cabbages | |
| Holdings reporting | 14 242 |
| Tomatoes | |
| Holdings reporting | 8 448 |

| CROPS, TEMPORARY (cont'd) | |
|---------------------------|-----------|
| Pumpkins | |
| Holdings reporting | 12 684 |
| Watermelons | |
| Holdings reporting | 10 124 |
| CROPS, PERMANENT | |
| Pawpaw | |
| Holdings reporting | 18 547 |
| Pepper, black | |
| Holdings reporting | 1 135 |
| Vanilla | |
| Holdings reporting | 545 |
| Coconut | |
| Holdings reporting | 15 272 |
| Trees | 401 916 |
| Cocoa | |
| Holdings reporting | 7 414 |
| Trees | 3 343 700 |
| Coffee (1) | |
| Holdings reporting | 498 |
| Trees | 262 854 |
| Kava | |
| Holdings reporting | 11 678 |
| Trees | 3 694 825 |
| Bananas | |
| Holdings reporting | 21 483 |
| LIVESTOCK | |
| Cattle | |
| Holdings reporting | 9 420 |
| Animals | 82 140 |

(1) Data refer to Tanna Island only.

WESTERN SAMOA - Agricultural Census 1989 - Explanatory Notes

Historical outline: Although a survey of food and agriculture was undertaken in Western Samoa in 1950 by the New Zealand Department of Agriculture, the Census of Agriculture carried out in 1989 could be considered the very first to report complete information on many aspects of agriculture in the country.

Organization: The census was a joint undertaking of the Department of Statistics and the Ministry of Agriculture, Forest and Fisheries. Authority for the census rested with the Government Statistician. Financial and technical support was given by the UN Development Program, together with the Food and Agriculture Organization of the UN through the project "Agriculture Census and Statistics". The field work was carried out by 200 full-time recruited enumerators, supported by 30 officials from the Department of Statistics who also worked as enumerators. Most enumerators were supervised by Agricultural Extension officers, supported by some senior officers from the Department of Statistics and the Department of Agriculture.

Enumeration period: The enumeration period was 1 October to 30 November 1989, extended in some instances to 31 January 1990.

Reference date: The general reference period is calendar year 1 January 1989 - 31 December 1989. Specific reference dates are:

- for number, area, mode of operation of holdings, crops, use of fertilizers: the calendar year 1989;
- for employment: the month prior to the day of enumeration;
- for livestock: the day of enumeration.

Definition: A household is considered reporting:

- "None or Minor Agricultural Activity" if it manages less than 0.05 Ha of land under garden crops or less than 20 coconuts, bananas or other tree crops.
- A "Major Agricultural Activity" if it manages 0.05 Ha or more of land under garden crops or grows 20 or more coconut, bananas or other tree crops. In this case the household is considered as operating a holding.

Coverage: The census was designed to cover all private households in Western Samoa; (see definition above for level of agricultural activity and minimum size of holding).

Frame: For census purposes, the country was divided into 4 Regions, divided into 43 Districts, reporting 330 villages, reporting, in turn, 862 census blocks. A list of households, in respect to each enumeration block in the country, was prepared; it was based on a refreshed and updated version of the household list for the 1986 Population Census.

Methods: The methodology was a combination of complete count and sample survey; thus, the census was basically a two-part enumeration. In the first part the Household Questionnaire was used, to state the level of agricultural activity of all households and identify those households with none or minor agricultural activity, which were required to complete an abbreviated questionnaire only. In the second part the Holding Questionnaire was used, to investigate the households managing a holding and the characteristics of holdings; 25 percent of all agricultural holdings, as identified in the first part, were covered with selection being made on a quota sampling basis (every fourth holding selected). Lastly, the Parcel Questionnaire was applied to the above mentioned 25 percent of agricultural holdings, to investigate land characteristics. A Pilot Survey preceded the census, and a post-enumeration check (PEC) was conducted during April to May 1990.

Data source: Department of Statistics - Department of Agriculture - Report on the 1989 Census of Agriculture - Western Samoa.

Mailing address: Department of Statistics, P.O. Box 1151, Apia, Western Samoa; Ministry of Agriculture, Forests, Fisheries and Meteorology, P.O. Box 206, Apia, Western Samoa - Tel. 00685 25210; Fax 00685 25209.

WESTERN SAMOA - Agricultural Census 1989 - Primary Results

Area: in hectares

| NUMBER OF HOLDINGS BY SIZE OF TOTAL AREA OF HOLDING | |
|---|---------|
| Size classes | Number |
| All holdings | 11 099 |
| Under 0.4 Ha | 259 |
| 0.4 - 0.8 Ha | 537 |
| 0.8 - 2 Ha | 2 216 |
| 2 - 4 Ha | 3 004 |
| 4 - 8.1 Ha | 2 834 |
| 8.1 - 20.2 Ha | 1 724 |
| 20.2 - 40.5 Ha | 390 |
| 40.5 Ha and over | 135 |
| AREA OF HOLDINGS | |
| Total area | 67 375 |
| FRAGMENTATION OF HOLDINGS | |
| Parcels | 33 796 |
| TENURE (area) | |
| Area owned or in ownerlike possession | 2 120 |
| Area rented from others | 1 771 |
| Area under tribal or traditional communal forms of tenure | 63 484 |
| LEGAL STATUS | |
| Holdings operated by: | |
| An individual or a household | |
| Holdings | 11 058 |
| Area | 66 922 |
| Two or more individuals or households | |
| Holdings | 40 |
| Area | 433 |
| Collective | |
| Holdings | 1 |
| Area | 20 |
| HOLDERS BY AGE | |
| Holders, total | 11 164 |
| 15 to 19 years of age | 130 |
| 20 to 39 years of age | 3 881 |
| 40 to 59 years of age | 5 669 |
| 60 years of age and over | 1 435 |
| Holders of age not stated | 49 |
| HOLDERS BY SEX | |
| Holders, total | 11 164 |
| Male | 10 896 |
| Female | 268 |
| FARM POPULATION | |
| Household members, total | 135 781 |
| Male | 70 827 |
| Under 15 years of age | 30 865 |
| 15 to 59 years of age | 35 582 |
| 60 years of age and over | 4 380 |
| Female | 64 954 |
| Under 15 years of age | 27 605 |
| 15 to 59 years of age | 32 396 |
| 60 years of age and over | 4 953 |
| LAND USE (area) | |
| Land under crops | 52 236 |
| All other land | 15 139 |

| CROPS, TEMPORARY (area) | |
|---------------------------|---------|
| Taro (cocoyam) | 14 785 |
| Yams | 245 |
| Chinese cabbage | 132 |
| Cucumbers | 95 |
| Tomatoes | 94 |
| Beans, edible dry | 80 |
| Pumpkins | 65 |
| Cassava | 19 |
| Sugar cane | 15 |
| Groundnuts | 15 |
| Watermelons | 11 |
| Eggplant | 8 |
| Maize | 5 |
| CROPS, PERMANENT (area) | |
| Coconut | 23 328 |
| Cocoa | 6 569 |
| Bananas | 2 279 |
| Breadfruit | 1 062 |
| Mangoes | 131 |
| Guavas | 93 |
| Oranges | 70 |
| Pineapples | 49 |
| Papaya | 47 |
| Passion fruit | 40 |
| Lemons | 19 |
| Avocados | 12 |
| Grapefruits | 8 |
| Coffee | 8 |
| Limes | 8 |
| LIVESTOCK (head) | |
| Cattle | 13 431 |
| Pigs | 189 813 |
| Goats | 1 094 |
| Horses | 3 114 |
| Chickens | 309 979 |
| MACHINERY / EQUIPMENT (1) | |
| Tractors | |
| Holdings reporting | 52 |
| Units | 76 |
| Rotary tillers | |
| Holdings reporting | 44 |
| Units | 48 |
| Driers | |
| Holdings reporting | 2 231 |
| Units | 2 265 |
| Sprayers / Dusters | |
| Holdings reporting | 4 482 |
| Units | 4 968 |
| Water pumps | |
| Holdings reporting | 107 |
| Units | 112 |
| Electric generators | |
| Holdings reporting | 371 |
| Units | 391 |
| Trucks / Pick-up | |
| Holdings reporting | 1 405 |
| Units | 1 617 |

(1) Machinery owned by the holder

