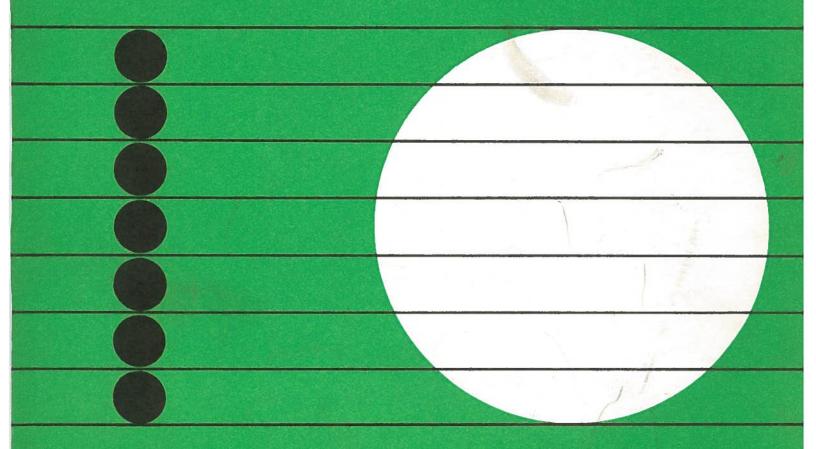
1970 WORLD CENSUS OF AGRICULTURE

REGIONAL PROGRAM FOR THE NEAR EAST



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PREFACE

The Thirteenth Session of the FAO Conference in its Resolution No. 3/65 on the 1970 World Census of Agriculture, emphasized the role and the importance of agricultural censuses in development planning and in improving current agricultural statistics, and approved for distribution among Member Nations of the Organization and nonmembers the Program for the 1970 World Census of Agriculture, as finalized by the Statistics Advisory Committee.

The 1970 World Census Program covers a great variety of conditions in different parts of the world. Within the framework of this Program regional census programs have been prepared. The Regional Program for the Near East consists of two parts: I — World Program; II — Near East Supplement to the World Program.

The aim of the Supplement is to indicate modifications in the World Program to adapt it to the conditions and needs prevailing in the Near East region. The Supplement has been prepared on the basis of recommendations obtained from the Seminar on the 1970 World Census of Agriculture for countries of the Near East region, held in Amman, Jordan, 11-18 December 1965. The seminar recommended a number of additions and modifications required to obtain within-regional comparability of items where it would not be possible to achieve worldwide comparability.

As in 1960, the items proposed in the present program are printed in two distinct types, **bold** and ordinary. The list consisting of those items printed in **bold type**, whether in the World Program or in the Supplement, is called the "Short List." The "Expanded List" consists of all items whether printed in bold or ordinary type.

The Short List items are considered to be of major importance in the world and/or regional agriculture and data on these items are desired to be collected from all countries of the Near East. However, no country is expected to collect information concerning an item which is of little or no importance to the country itself, even though that item is included in the Short List. The items in the Expanded List, which are not in the Short List, are those which the countries may wish to add to the Short List according to their needs and conditions when making their census plans.

The Regional Program consists of 11 sections numbered from 0 to 10. Sections 2, 8 and 9 of the World Program remain unchanged for the Near East region and, accordingly, no mention is made of these sections in the Supplement. In order to facilitate reading of this Regional Program, additions and modifications to the World Program outlined in the Supplement are indicated hereafter.

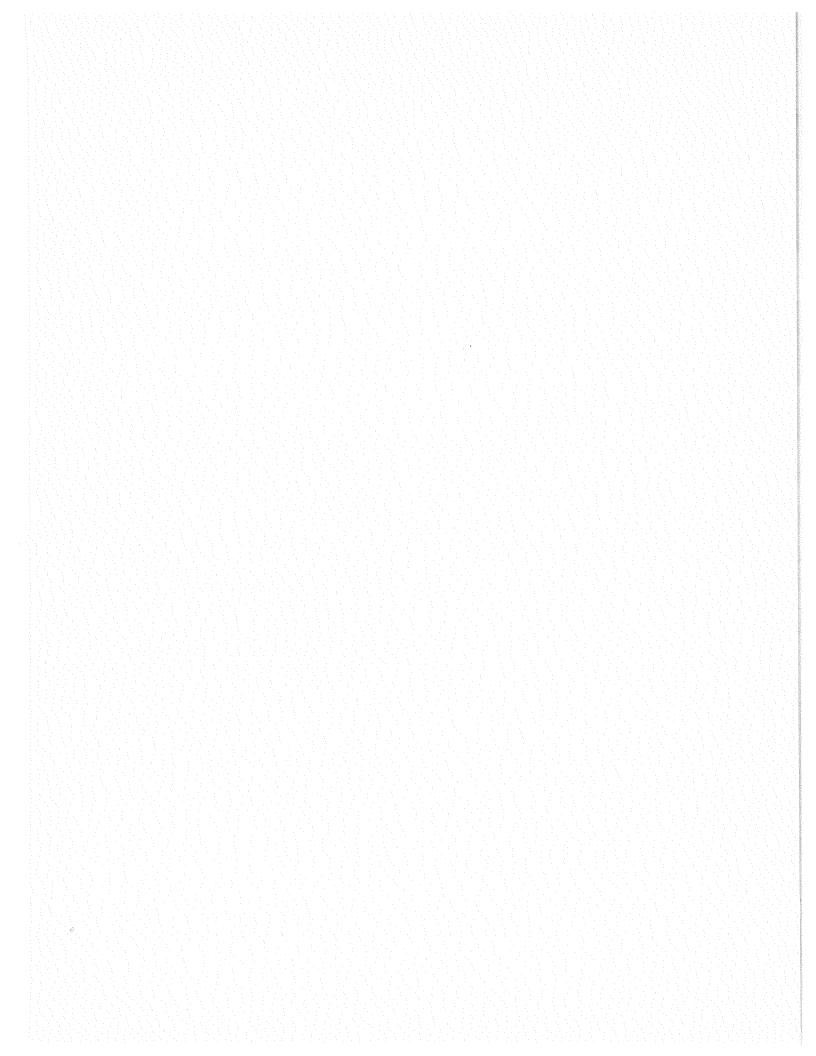
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INTRODUCTION

A. Nature and purpose of the program

The countries which have joined together to form FAO have recognized the importance of agricultural statistics in carrying out the various purposes of the Organization, namely, to raise levels of nutrition, to improve the production and the distribution of food and other agricultural products and in general to better the conditions of rural populations. For these reasons they have given a position of great importance to agricultural statistics in the work of the Organization. Agricultural censuses are one of the main sources of agricultural statistics.

An agricultural census is a government-sponsored operation for the collection of quantitative information on agricultural structure, using as unit of enumeration the agricultural holding and covering the whole country within a single agricultural year. The coverage of the country may be achieved either by complete enumeration or by sampling. Enumeration may be done by interview, mail collection of census data or by objective procedures, such as measurements of areas, counting of livestock or by any combination of these methods.

The agricultural census results provide a bench mark against which future agricultural development is to be measured. Hence, the census results form the basic data for planning, formulating and appraising agricultural development projects. Agricultural censuses offer an excellent base and framework for planning surveys to secure agricultural statistics; its data can also be used as a bench mark and as supplementary information for improving the precision of current agricultural statistics. Technical and organizational training of the personnel required for carrying out the agricultural census can be exploited for the purpose of organizing other agricultural statistics. In countries where no statistical organization exists to collect agricultural statistics data, the trained census staff may be a nucleus for gradually developing a permanent agricultural statistical system.

The Eleventh Session of the FAO Conference, held in 1961, stressed "the need for an early beginning with preparations for the 1970 World Census of Agriculture and requested the Director-General to

include appropriate proposals in the Program of Work for 1964-65."

FAO's Statistics Advisory Committee, which met from 30 September to 11 October 1963, further stressed the desirability of early preparations for the 1970 World Census of Agriculture so as to leave sufficient time for countries to prepare their national plans.

A Draft Program for the 1970 World Census of Agriculture has been prepared as a first step to implement the above-mentioned directive of the Eleventh Session of the FAO Conference and has been submitted to governments for comments and discussions in the regional statisticians' meetings. Such meetings have been held in Addis Ababa for Africa, in Baghdad for the Near East, in Bangkok for Asia and the Far East, in Geneva for Europe, and in Washington, D.C. for the Western Hemisphere.

After considerations at regional meetings, the Program has been finalized on the basis of reports from these meetings by FAO's Statistics Advisory Committee in March 1965 and has been submitted for approval to the FAO Conference at its Thirteenth Session in November 1965.

In preparing the present Program, the importance of continuity and comparability with the 1960 and 1950 censuses has been kept in mind. At the same time, an effort has been made to take into account the new developments in agriculture. Certain items have been added and changes have been made on the basis of the experience gained in the 1960 Census.

Among the additions are suggestions to permit the classification of agricultural holdings according to type, i.e., whether they are holdings producing mainly for home consumption or for sale, subclassified further into:

- (a) crops holdings;
- (b) livestock and poultry holdings;
- (c) mixed holdings; and
- (d) others.

Very few countries have undertaken the successive surveys on agricultural employment suggested in the 1960 Program. The present Program proposes the collection of some simple basic information on this topic which it is believed should be possible in all countries. However, the 1960 proposals are repeated for those countries able to undertake successive surveys of agricultural employment.

Still another suggestion is that countries ascertain whether or not agricultural holdings are associated with industry. This phenomenon is of particular importance in several countries and has far-reaching social and economic consequences. Therefore, a section (No. 10) has been added to the Program.

While preparing the Program, the varying conditions of different regions and countries have been kept in mind. For this reason, most of the new items and tabulations proposed have been deliberately left optional so that countries can select those items and those tabulations most appropriate to their conditions.

B. Outline

The Program includes the following sections corresponding to the main subjects proposed for inclusion in the World Census of Agriculture.

- 0 HOLDING, HOLDER, TENURE AND TYPE OF HOLDING
- 1 LAND UTILIZATION
- 2 CROPS
- 3 LIVESTOCK AND POULTRY
- 4 EMPLOYMENT IN AGRICULTURE
- 5 FARM POPULATION
- 6 AGRICULTURAL POWER AND MA-CHINERY AND GENERAL TRANSPORT FACILITIES
- 7 IRRIGATION AND DRAINAGE
- 8 FERTILIZERS AND SOIL DRESSINGS
- 9 WOOD AND FISHERY PRODUCTS
- 10 ASSOCIATION OF AGRICULTURAL HOLDINGS WITH OTHER INDUSTRIES

Each section of the Program has been made more or less self-contained. The contents of each section are subdivided as follows:

- (i) Introduction
- (ii) Proposed census items
- (iii) Definition of census items and explanatory notes
- (iv) Tabulation plans

C. Scope of the 1970 World Census of Agriculture

The 1970 World Census of Agriculture envisages that each government will obtain, as far as possible, accurate and comparable information on the structure of its agriculture. The Program therefore includes proposals relating to:

- 1. the number of agricultural holdings and their principal characteristics, such as size, form of tenure, utilization of the land by broad classes, type of holding (whether producing mainly for home consumption or for sale, etc.);
- 2. the area under crops and the volume of production of the principal crops;
- 3. the number of livestock and the volume of production of some livestock products;
- 4. the number and characteristics of persons employed in agriculture, the extent to which the work on holdings is carried on by the households of the holders or by hired agricultural workers:
- 5. the number and some characteristics of the farm population;
- the number of agricultural machines owned, the use of agricultural machinery under different arrangements and availability of transport facilities;
- 7. irrigation and drainage;
- 8. the use of fertilizers and soil dressings;
- wood and fishery products obtained from agricultural holdings;
- 10. the extent to which agriculture is associated with other industries.

Provision has been made in this Program for the enumeration of a large number of items so as to promote comparability of data in case countries enumerate such items in their census. It should be emphasized, however, that in the interest of economy, of facility of administration, and accuracy of essential items, it is necessary to restrict the scope of national censuses to major items, particularly in those countries which do not have a fairly long tradition in census taking.

D. Coverage

The Program for the 1970 World Census of Agriculture proposes that all types of agricultural holdings be covered, whether producing primarily for sale or for consumption by the holder and his family. Tribal and other groups, which may be outside of the normal marketing system, are also to be included.

Ideally, the census should include all agricultural holdings in a country, whatever their size and wherever located, whether in rural or urban areas. Practical considerations, however, often make it necessary to limit the enumeration to those holdings which conform to certain recognized criteria and which fall above certain lower limits as to size of holding, size of operation, or both. No uniform minimum limits in respect of area, volume of output, number of livestock, or number of trees are suggested, for

these will vary from country to country. But in view of the large number of small holdings in many countries and their considerable contribution to the production of some important foods, it is strongly recommended that the minimum limits be made as low as possible.

In any event, special surveys and studies should be undertaken to estimate efficiently the main census items on holdings below the minimum size adopted in the census. Data on holdings below these limits might be also collected by asking from such holdings much simpler information than from those included in the census proper.

E. Methods

COMPLETE ENUMERATION CENSUSES AND SAMPLE CENSUSES

The 1970 World Census of Agriculture envisages in principle the collection of data directly from all individual holdings by complete enumeration. This is the procedure which corresponds to the needs and traditions of many countries. Complete enumeration is essential in cases where:

- (a) data are needed for small administrative units as a basis for regional planning such as, e.g., agrarian reform schemes, rural electrification schemes or other forms of local improvements;
- (b) the census figures should provide bench mark information for current agricultural statistics;
- (c) adequate information should be obtained from the census on phenomena which occur rather rarely, such as the crops which occupy relatively minor acreage but are commercially important.

The taking of a complete enumeration census is a very large operation. A vast organization is required to cover the whole country without omission or duplication. It demands the employment of a large number of enumerators who are able to understand the various definitions and instructions. In a country where the average level of education is low this may be a most serious problem. Moreover, there must be adequate transportation facilities to transport all necessary census materials in time for enumeration. Important sums of money are needed for the printing of immense quantities of documents, for the adequate training and payment of staff, and for processing the returns of the census.

In some countries many holders may be unable to supply a large part of the information investigated in the census, so that this should be collected by applying objective methods. In such cases complete enumeration is not feasible. It must be replaced by a sample census, that is, a census restricted to an adequately selected sample of agricultural holdings.

Other countries may not have the necessary funds, personnel and facilities to prepare and carry out the operations required for a complete enumeration census. Frequently, in such countries the development planning in agriculture is only at its initial stage. The targets of the plan are then set out broadly and the census data required for planning purposes are sufficient if these are available at the national level or for large areas of the country. In all such cases sample censuses can be effectively used as substitutes for complete enumeration censuses provided that they are properly designed and carried out. However, planning and taking of a sample census is generally more complicated than that of complete enumeration and calls for even more intensive preparations. An efficient use of sampling methods requires a good knowledge of the sampling theory and skill in its application. The sample census must therefore be designed by someone who is thoroughly conversant with the sampling theory and its application.

In some situations sample censuses can provide data with greater accuracy than complete enumeration, owing to the possibility of reducing the extent of the nonsampling errors as results of:

- (a) the use of a smaller number of enumerators, which makes it possible to select those having better qualifications and to give them more intensive training and closer supervision;
- (b) introducing objective methods of enumeration, such as measuring areas, weighing of crops from small plots, etc., as a safeguard against biases. The use of these methods may be particularly important for developing countries.

Although consideration has been given above to the choice between a sample census and a complete enumeration census, both methods of enumeration can be combined in practice. For example, information regarding some items can be collected from all agricultural holdings covered by the census, while the other information can be collected only from a sample of holdings; during the sample census some categories of agricultural holdings, such as, for instance, large agricultural holdings or holdings of a special pattern may be enumerated completely. Sampling methods can also be used in an agricultural census for the purposes mentioned below.

Sampling methods for broadening the scope of the census

Experience shows that the quality of data is directly affected by the size of the questionnaire. A long

questionnaire is apt to tire both the agricultural holder and the enumerator and consequently may result in inaccurate returns. Broadening the national census program can be realized through the judicious use of sampling methods. For this purpose the scope of the census may be divided into two parts, one to be carried out by means of complete enumeration, and the other through sample enumeration. Such an approach leads also to savings of costs of enumeration and processing by reducing the number of entries in the census schedules of the complete enumeration.

The precise parts of the Program to be obtained through sampling and through complete enumeration will depend on the nature of the specific items and the uses for which the data are intended, as well as upon the conditions in each country. Generally, complete enumeration should be limited to items which are needed for tabulation by administrative or other limited areas for the purposes of regional planning and administration or to items for which the sufficiently accurate data cannot be obtained from the sample enumeration.

AUXILIARY AND CHANGE SAMPLE SURVEYS

The value of conducting surveys during the census year which could be linked with the results of the census should be stressed. Two cases are specially mentioned here: (i) estimation of information required to complete the coverage of the census; and (ii) evaluation of changes in figures subjected to seasonal variations.

The first problem was already considered in paragraph D above. Auxiliary sample surveys covering holdings below the minimum limits adopted for the census may be the way to obtain information regarding main census items.

Employment in agriculture may be an example of the phenomenon being subject to large seasonal variations. Therefore, the 1970 Program suggests that a survey of agricultural employment be conducted at various times during the census year and linked with the census. The same procedure could be followed for other items such as livestock and poultry numbers, which have important seasonal variation. In these cases, attention is called to the need for the use of sampling techniques.

Use of sampling methods in pilot censuses and pretesting surveys

Pilot censuses and pretesting surveys (see also page 6) can be carried out on a sample basis only. Two different cases might be considered when planning such surveys: (a) where the aim of testing is to obtain some quantitative measures on the basis

of which some decisions would be taken regarding the census itself; and (b) where no quantitative measures are expected from data obtained by the tests. In the former case (a), a sample for the purposes of the pilot census or the pretesting survey should be randomly selected. This, for instance, is the only way to estimate some parameters required for the decision on the best design in case the census itself is taken on a sample basis. The results of such a pilot census can give unbiased estimates of the census costs, the time required for different census operations, and some other quantitative measures needed for comparing the effectiveness of different procedures. The other case (b) will occur, e.g., if the aim is to check the questionnaires, the definitions and the instructions for the cases of specific conditions in agricultural holdings without deriving any quantitative conclusions. Then, purposively selected areas or holdings might be investigated. However, caution should be taken in order not to introduce biases of great significance for the problems investigated if nonrandom sampling is used in a pretesting survey.

Sampling methods to assess the quality of field work

Experience has shown that various errors exist in statistical data deriving from a census. These are due to several reasons, among which are incomplete coverage, misunderstanding on the part of enumerators, ignorance of the correct answer on the part of respondents, etc. Sampling methods can be used to assess the accuracy of census data. For these purposes postenumeration (evaluation) sample surveys may be undertaken. Through employment of better qualified enumerators, and use of objective methods wherever possible, the magnitude of the response errors can be checked. The same method can be used to evaluate the completeness of coverage of the census. Checking the magnitude of biases arising from these causes has become necessary both for the users of statistical data who find, in the results of evaluation surveys, the information on the degree of reliance they can place on the census data, and for statisticians themselves to whom these checks show the deficiencies of their methods and the directions for work on future improvements. It is emphasized that an evaluation survey must be properly designed and properly carried out, otherwise its results might be misleading and might not indicate the real accuracy of the census data.

Use of sampling methods to control errors of processing

Equally important is the possibility of using sampling methods to control the errors in various process-

ing operations, such as editing, coding, etc. These procedures have developed into an important census methodology because, if properly carried out, they not only result in substantial savings in time and money but also help in improving the quality of the final results.

Use of sampling methods in tabulation

Tabulation and other processing programs should pay close attention to a practice which has proven very valuable in a number of countries.

Advance estimates of census results

This refers to the use of sampling methods to obtain advance estimates of census results. When regular tabulation of collected data is likely to be time-consuming, advance estimates so obtained can supply census data needed urgently.

Broadening the scope of tabulation programs

Samples of punch cards can be used especially to enlarge the program for cross-tabulations which would be costly and time-consuming on a 100 percent basis.

Particular attention is drawn to the possibility that, in countries with large numbers of holdings, the use of sampling methods permits detailed tabulations and cross-tabulations which would prove unduly burdensome and costly if they were attempted for all holdings included in the census.

F. Preparatory work for the taking of a census

Several years may be required to prepare an agricultural census properly, especially in those countries which do not have much experience in census taking and processing. Consideration will be given below to some more important activities connected with the preparatory work for an agricultural census.

CENSUS LEGISLATION

The creation of a legal basis for an agricultural census is one of the first items to be considered in a census plan. Legal authority for the census is required for fixing primary administrative responsibility, obtaining the necessary funds, determining the general scope and timing of the census, and placing upon the public a legal obligation to co-operate. In countries lacking permanent legal authority for the taking of periodic censuses, it is important to act early in establishing one-time legal authority or, preferably, legislation calling for a system of periodic

censuses. In the census legislation the confidentiality of the individual information should be strongly and clearly established and guaranteed by adequate sanctions so as to form a basis for confident cooperation of the public.

CENSUS BUDGETING

Effective planning, and control of the various census operations is not possible without making a very careful financial estimate of the cost of each census operation. No part of the census work is too small to be clearly recognized as a component of the total cost. The budgetary appropriations of the various census operations should not be restricted only to collection of information in the field but should include costs of preparatory census work, costs of the postenumeration survey, processing of census data and preparation and publication of the results. It is important that persons at the administrative and supervisory levels, who will be responsible for the execution of a census operation, participate in estimating the budget items. It is also advisable that in the census committees the representatives of the financial authorities participate at all stages of the preparatory work on the census.

GEOGRAPHIC PREPARATIONS FOR THE TAKING OF A CENSUS

The enumeration of all the agricultural holdings of a country without omission or duplication, in a short period of time, requires much attention. It necessitates the exact delineation of the area which each enumerator must cover. The most efficient way to define each area is to provide each enumerator with a map of his enumeration area showing clearly the exact boundaries. In countries where no detailed maps are available, sketches should be provided wherever possible.

Long before the date of the enumeration, census authorities should explore the map resources of the country, and where maps are not available, an effort should be made to provide sketches showing boundaries of areas very clearly. To simplify the compilation of totals, the enumeration areas should be designed in such a way that a simple addition of the subtotals for these areas will give the totals for the required administrative or other areas.

In developing countries, where no detailed maps are available and where the agricultural census will be undertaken on a sample basis, at least a complete list of villages in the country should be prepared in advance with complementary information such as size of village in terms of agricultural population or people engaged in agriculture, ethnic groups of its population, main crops cultivated, etc. This

would be extremely useful for the purposes of proper stratification of villages for sample selection.

Another very important operation in the preparatory work for the agricultural census is the listing of potential enumeration units in order to assure full coverage in the census. Lists of holdings available from administrative offices frequently appear to be very incomplete, not up to date and therefore not quite useful for census enumeration purposes. The listing operation is essential for the agricultural census itself but could also serve as a frame for conducting further surveys.

PREPARATION OF CENSUS QUESTIONNAIRES AND IN-STRUCTIONS

The preparation of census questionnaires is one of the most important steps in the preparation of a census because the quality of the enumeration depends on it to a large extent. After selection of the items for which information is desired, the questions should be stated so clearly that they would be understood by all enumerators and all respondents.

While designing the questionnaires, the anticipated difficulties of the enumerator and also the problems of tabulation should be kept in mind. If the census is to be tabulated by punch card methods, the items should be in the same order on the questionnaire as on the punch card. Precoding of the questionnaires, i.e., printing the codes which shall be used for processing on the questionnaire, may very much facilitate the processing of data.

Questionnaires should be prepared sufficiently in advance of the date of the census so that they can be thoroughly tested by using staff of the same educational level as those who will be called upon to take the census as enumerators. Such a check shows the deficiencies of the questionnaires as well as the reaction of the agricultural holders to them. Questionnaires should be available in advance to be distributed on time.

Instructions should be prepared as simply and clearly as possible, giving definitions of concepts involved in the questionnaire and explaining how the enumerator should complete it.

PILOT CENSUSES AND PRETESTING SURVEYS

The attention of countries is called to the importance of pilot censuses and pretesting surveys for testing the questionnaires, the definitions, the enumeration procedures, equipment, and to determine the appropriate methods for the collection and the processing of data. The function of a pilot census is to examine the plan of operations with regard to such objectives as economy, accuracy and speed.

Such surveys can also be used for training senior and other officials in the different aspects of census taking. Pilot censuses are particularly recommended in less developed countries where there is little previous experience in census work and where, consequently, adequate census techniques have to be determined. If purposively selecting areas for a pilot census, care should be taken to choose areas which are representative of the various conditions which are likely to be encountered during the taking of the census.

TRAINING OF SUPERVISORY AND SPECIALIZED PERSONNEL

The need for intensive training of census personnel cannot be overemphasized. Special attention should be paid to this phase of preparatory work because the quality of the census results largely depends on the extent to which supervisory and specialized personnel have received adequate training.

The proper training of supervisory personnel is particularly important, as they usually will be required to train others. Only few key people may get training outside the country, e.g., in the regional or interregional training centers, but training of national personnel as such is a national responsibility.

With regard to training of enumerators, a program should ensure that all enumerators understand the questions that are contained in the questionnaire, that they will know how to ask them and be able to explain their meaning and purpose to respondents. The time for this training will vary from country to country but it should be adequate for the taking of a good census.

PUBLICITY FOR THE CENSUS

The importance of publicity for the census cannot be overstressed. Experience from some countries shows that the lack of adequate publicity may jeopardize the agricultural census.

The purpose of publicity is to bring the census to the attention of the people. Its aim should be that all agricultural holders or at least one member of their families should know about the census. The scope of the census might be clearly explained in the national local press to familiarize the people with the questions which will be asked. The publicity program should explain the uses made of some of the data thus collected, particularly for planning agricultural policies. It should try to make the census mean something to people and it should establish confidence between the people and the census authorities. Its confidential character and the need for accurate replies should be emphasized.

It is not possible to state the most effective means for publicity, as these will vary from country to coun-

try. In many countries the daily and weekly press, the cinema, radio, television and posters have been used. In other countries, the co-operation of members of the clergy, chiefs of communities, heads of business associations, labor groups and public service organizations has been most effective in bringing the census to the attention of the people. A National Census Committee or local committees could also play an important role in the publicity campaign. In some countries committees have been organized in villages to carry out verbal publicity among the illiterate farmers by reading out and explaining to them census publicity material. The use of visual publicity media under these conditions may be of great help in informing the population about the purpose and the scope of the agricultural census.

TIMELY PLANNING OF DATA PROCESSING

It is extremely important that the methods to be used in processing the agricultural census returns be decided upon early in the planning stage, so that the census questionnaires can be designed in accordance with specific processing needs. By adopting suitable design and format of the questionnaires, the quality of census data can be improved and the costs can be considerably reduced.

To improve the quality of census data the list of checks should be prepared well in advance during the preparations for the census. In case of mechanical or electronic tabulation of the census returns, a program should be established for detecting errors, e.g., omissions in punching or losses of punched cards, certain coding errors, inaccurate reading of returns by the punch operators, improper alignment of perforations, errors in gang punching, etc. It is also necessary to compose in advance a synoptic table of discrepancies that the machine would detect. The efficiency of these devices should be checked on the basis of material collected during the pilot census.

G. Time reference

Countries are urged to take their censuses in 1970 or, if this is not possible, in another year close to 1970. Information collected for the census refers to one year, to one week period, or to a specific date according to the subject investigated. However, the duration of the enumeration should be rather short and, if possible, should not extend beyond one month, in order to avoid omissions or duplications because of changes in figures on some items collected in the census caused by variability of some events, e.g., changes in employment in agriculture, movement of livestock, etc. In cases of

census enumeration through more than one round, the observations made above relate to each round separately. The detailed time reference by subjects can be indicated as follows.

- 1. A specific year, such as the last agricultural year, or the year preceding the date of enumeration, i.e., the period of one year, which ends at the date of enumeration, refers to information regarding: type of holding; aggregate area under crops and crop production; production of livestock products; extent to which the work on the holding is carried out by the holder's household members (Major group 41); use of agricultural power on the holding (Groups 61.1 and 61.2); agricultural machines used on the holding; general transport facilities; area of land irrigated (Groups 71.2. 71.3 and 71.4); fertilizers and soil dressings; wood and fishery products; contract operations (Major group 102).
- 2. The *week* preceding the date of enumeration, i.e., the period of one week length, which ends at the day of enumeration, refers to information on "Employment in agriculture" (Major groups 42 and 43).
- A specific date refers to information regarding: holding, holder, and tenure of holding (Major groups 01, 02 and 03); land utilization; area under crops if reported as "at the census date" and not as "aggregate area"; number of trees or vines; livestock and poultry (excluding livestock products); farm population; source of electric power on the holding (Group 61.3); agricultural machines owned by the holder; area of land provided with irrigation facilities (Group 71.1) and drainage (Major group 72); type of industry with which the holding is integrated (Major group 101). A specific date is usually considered the day of enumeration or some other day close to this. In countries where there is more than one crop season during the year, information on total area of holding, areas under different forms of tenure, and areas classified according to utilization should relate to a specific date in the major crop season.

H. Production

Production of crops, livestock and poultry products is included in the "Expanded List" (see part I below, page 12), although production data are often better collected by methods other than a census. In many parts of the world, satisfactory estimates of

crop production are impossible without crop-cutting sample surveys. With items whose production extends over the whole year, such as milk or coconuts, sampling in time may be needed or some form of recording.

However, production figures are so important that they should be made available in a form which permits relating them to the data from the census. In some countries the census offers the only opportunity to obtain information about production and relating it to size and tenure of holdings or the use of improved agricultural practices. In all cases in which production figures are given in the census reports, a statement should be included, clearly indicating the basis on which they were obtained and giving available information about their limitations.

I. Short and Expanded List of items

A uniform questionnaire is not proposed since the exact form of the questionnaire will vary from country to country in accordance with local conditions. The recommendations are therefore in the form of a list of items for which internationally comparable statistics are expected from the 1970 World Census of Agriculture.

The items on the list are printed in two distinct types, namely, in **bold type** and in ordinary type. Those printed in bold type constitute what is termed the "Short List." The "Expanded List" is composed of all items irrespective of whether they are printed in bold or in ordinary type.

The items included in the Short List are those for which data are desired from all countries, as they are considered of major importance in the world's agriculture. However, no country is expected to collect information concerning an item which is of negligible or of no importance to the country, even though that item is included in the Short List.

The Expanded List contains items which are primarily of regional importance and on which some countries may be able to collect information through the census. It also provides a breakdown in greater detail on several items on the Short List.

In developing a questionnaire, some countries may wish to obtain greater detail than is provided in the Short List, or even add items not included in the Expanded List. They are, however, urged to prepare their items in such a way that they correspond to or can be combined to provide the equivalent of the appropriate items given in the 1970 Program. Countries should be cautious not to include too many secondary items because they are burdensome to the main census-taking and processing operations, the accuracy of which may be reduced thereby.

J. Tabulation of results

The tabulation of the results of the 1970 World Census of Agriculture should be undertaken as soon as possible after the enumeration has been completed. The Program includes suggestions to tabulate information regarding all items on the Expanded List by size classes of holdings. The items and the size classes for which data are desired from all countries are printed in **bold type**. From those printed in ordinary type, countries may select only those appropriate to their circumstances.

Countries in which tribal agriculture exists together with a more developed type of agriculture are urged to tabulate separately the data concerning these two types of agriculture. Information on holdings operated jointly by two or more households should be tabulated separately from the data on other holdings.

Countries collecting information in their census for establishments which are not agricultural holdings, such as those which are wholly engaged in the production of wood and forest products, are urged to tabulate separately the data for the agricultural holdings and for the other establishments.

It is recognized that classification by size of holdings as proposed in the Program is not the only significant classification of census results. The 1970 Program proposes, therefore, wherever possible, a series of tabulations by tenure and by type of holding. In addition to tabulations by size classes according to total area of holdings, some countries may wish also to prepare tabulations based, e.g., on the agricultural area of holdings defined as the sum of arable land, land under permanent crops, and land under permanent meadows and pastures (Major groups 11, 12 and 13 of Section 1). Whatever classification is adopted, international comparison based on the total area of individual holdings is clearly the most practicable from the point of view of feasibility, and it is therefore proposed in the present Program as in previous world censuses.

Tabulation plans indicated in the Program refer to data for a country as a whole. However, there is also a need for tabulation of census data by major administrative or geographical regions, and some tables can also be prepared for minor localities. The scope of the tables presenting data for minor localities should be properly reduced in comparison with the information prepared for the whole country or its major subdivisions.

Attention is drawn to the fact that much additional valuable information may be obtained from the census reports through appropriate tabulations and cross-tabulations. Countries are urged to take full advantage of the possibilities offered by the census returns.

K. Countries not using the metric system

Countries which do not use the metric system are urged to arrange their area classification as far as possible in such a way as to enable approximate comparison with the size groups in hectares proposed in the Program.

L. Forwarding census material to FAO

Governments are requested to provide FAO, as soon as they are available, with:

- (a) census documents, e.g., texts of census legislation, census questionnaires and instructions to enumerators, supervisors, editing and coding instructions, samples of working sheets and punch cards and other materials describing all phases of census operations;
- (b) preliminary and final results of the census, and census reports.

Countries adopting a size classification of holdings other than by total area are requested to provide FAO, in the interest of international comparability, with data tabulated by total area of holdings at least for the items included in the Short List of the Program.

M. Publication of census results

It is recommended that publications giving census results include the following:

- 1. Historical background.
- 2. Objectives of the census.
- 3. Census legislation.
- 4. Organization of the census at headquarters and in the field indicating, wherever possible, estimates of personnel and expenditure, including costs of processing and tabulating the data.
- 5. Preparatory work (geographical work, preparation of questionnaire, instructions, definitions and concepts, publicity, etc.).
- 6. Timetable of operation and reference period.
- 7. Pilot census.
- 8. Methods and procedures used in collecting the data and organization of the supervision of the field work.
- 9. Processing and tabulation methods.
- 10. Quality checks.
- 11. Analytical summary of the census results.
- 12. Copy of the questionnaires, a summary of the main instructions and other forms used.

Data secured by enumeration should be distinguished clearly from collateral estimates prepared as part of the census. When transmitting the census results to FAO, countries are urged to report any deviation from the definitions proposed in the Program.

N. Relation of the Program to a census of population

The 1970 World Census of Agriculture includes in its scope information on employment in agriculture. The same topic can be investigated in the population census. The census of population, covering all branches of economy, provides data on employment in all occupations and branches of industry. It also provides, therefore, a count of the persons working in agriculture. It eliminates the duplicate enumeration which occurs in the agricultural census in relation to persons engaged on different holdings; these persons are reported in the census of agriculture by each holder for whom they work. However, the population census does not always give a good account of the persons working in agriculture, as the results depend largely on the time reference adopted for the census. The time reference of the population census frequently overlaps the period when agricultural work is on the ebb, and then the population census figures may seriously underestimate the population engaged in agriculture.

Censuses of agriculture and censuses of population have both been used to secure information on the persons who are connected with agriculture. However, the concepts used in both censuses necessarily vary. Because of different enumeration units in both censuses, their criterion for enumerating the agricultural population differs. A census of agriculture as a census of agricultural holdings uses the residence criterion. Hence, it enumerates as the agricultural population those people who are living on the agricultural holdings or in the households of the agricultural holders. This population is therefore called "farm population." A census of agriculture, however, cannot be the means of enumerating also the agricultural laborers and their dependents who live outside the agricultural holdings, because information on these persons, specifically on their dependents, cannot be generally obtained from respondents in the agricultural census. A census of population using the occupational affiliation with agriculture as a criterion for enumerating agricultural population would include these persons. Nevertheless, a number of people living on and operating small holdings, but whose main economic activity is outside agriculture, would usually be excluded from the agricultural population together with persons dependent on them, even though they are connected with agriculture. Moreover, it is often not feasible to include in the population census information on holdings necessary to relate agricultural population data to the characteristics of agricultural holdings with which they are associated.

Thus, both censuses produce meaningful though different series of population data connected with agriculture. Where the two censuses are taken simultaneously, it is possible to secure information about the population connected with agriculture in such a way that the characteristics of the population can be related directly to the characteristics of the holdings. In the case where population and agricultural censuses are taken separately but close in time, there would be a possibility of matching a sample of the population census returns with the information obtained from the agricultural census and to relate population census data to the characteristics of agricultural holdings. However, this operation is rather difficult and costly.

Information on employment in agriculture and on farm population obtained in an agricultural census can be easily related to size and other characteristics of the agricultural holdings. This can also be done to some extent in a population census by the inclusion of a few questions regarding the holdings. Countries should therefore examine to what extent it is feasible to incorporate in their population census programs questions aimed at eliciting information on the economic and social characteristics of their agricultural population. Consideration should also be given to the possibility of including a few other questions, making it possible to relate this type of information to the size, tenure and type of holding.

Since the census of agriculture is usually limited to holdings above a specified minimum size, some countries have found it useful to ask, in their population census, for some limited information concerning agricultural activities outside the holdings covered by the census of agriculture, in particular with regard to livestock and production of certain vegetables and horticultural specialities, in order to obtain additional agricultural data not collected in the agricultural census itself. Similarly, the population census may be the best source of information on persons who provide services directly to agriculture.

Section 0 - HOLDING, HOLDER, TENURE, AND TYPE OF HOLDING

Introduction

This section deals with four main concepts proposed for investigation, namely, the holding, the holder, tenure, and type of holding.

The items included in this section are essentially the same as those included in the 1960 Program. The main differences between the two programs are:

- 1. the introduction of the new topic, namely, "Type of holding;" and
- 2. the addition of some items, the clarification of the definition of "holding," and the addition of a definition of "hired manager."

In enumerating forms of land tenure, several countries included an item for the area operated by hired managers, thus treating this mode of operation as though it were a form of tenure. In these cases, no information became available as to the form of tenure of the land operated by hired managers. As the form of tenure has not lost its importance because the holding is operated by a hired manager, countries are urged to report land so operated under the land tenure to which it belongs.

Considering the difficulty experienced by certain countries in collecting information on land tenure which varies greatly between countries, it is suggested that the countries which experience these difficulties might make a survey of the various forms of land tenure before the taking of the census.

Proposed census items

Items printed in **bold type** represent those for which information is desired from all countries. These items constitute the Short List of the Program. The Expanded List includes, in addition to the items printed in bold type, the items printed in ordinary type. Countries may choose therefrom such items as are suitable to their conditions.

SECTION 0 — HOLDING, HOLDER, TENURE, AND TYPE OF HOLDING

Major group Group

3

01. HOLDING

- 01.1 Location of the holding
- 01.2 Number of noncontiguous parcels of land which constitute the holding
- 01.3 Total area of the holding

Majo grou		
02.		HOLDER
	02.1	Name of the holder
	02.2	Age of the holder
	02.3	Main occupation of the holder
		02.31 Agricultural
		02.32 Nonagricultural
	02.4	Address of the holder if he does not live or the holding
	02.5	Indication as to whether the holding is managed entirely by the holder or whether the holder has a hired manager
	02.6	Name of the hired manager and his address if he does not live on the holding
	02.7	Is the holding operated jointly by two or more households?
		Yes □ No □
	02.8	Legal status of the holder
	02.0	02.81 Civil person
		02.82 Corporation
		02.83 Co-operative or consciously planned collective
		02.84 Government
		02.85 Tribe and/or clan 02.89 Other
	02.9	Name of the respondent and his relationship to the
	02.7	holder
03.		TENURE
	03.1	Area of the holding which is owned by the holder or is held in ownerlike possession
	03.2	Area of the holding which is rented from other
		03.21 Area rented for a fixed amount of money
		03.22 Area rented for a fixed amount of produc
		03.23 Area rented for a fixed amount of money and some produce
		03.24 Area rented for a share of the produce o
		its equivalent in money
		03.25 Area rented in exchange for services
		03.29 Area operated under other forms of renting including area operated gratuitously (rent
		free) and in right of usufructuary mortgage
	03.3	Area of the holding which is operated on a squatter basis
	03.4	Area of the holding which is operated unde tribal or traditional communal forms of tenur-
	03.9	Area of the holding which is operated unde other forms of tenure not included in th
		previous categories (specify)
04.		TYPE OF HOLDING
	04.1	Indicate if the holding is producing mainly for
		04.11 Home consumption □ 04.12 Sale □
		In the case of holdings producing mainly for sale check the appropriate box below:

(a) Crops holding

Other

Mixed holding

Livestock and poultry holding

Definition of census items and explanatory notes

HOLDING

The basic unit of tabulation in the agricultural censuses is the agricultural holding. A holding, for census purposes, is all the land which is used wholly or partly for agricultural production and is operated as one technical unit by one person alone, or with others, without regard to title, legal form, size or location.

Establishments and other units not including any agricultural land but producing livestock or livestock products (piggeries, hatcheries, poultry batteries, dairies, feed lots, livestock kept by nomadic tribes, rabbitries, apiaries, etc.) are also to be considered as holdings, whether they are located in rural or urban areas.

A technical unit is the unit which, under the same management, has the same means of production, such as labor force, machinery and animals.

The holding may consist of one or more separate parcels, located in one or more territorial divisions, provided that all these separate parcels form a part of the same technical unit. The holding may be known as a lot, piece, or parcel of land, garden, orchard, vineyard, estate, ranch, plantation, rural establishment, communal establishment, or by some other name.

Agricultural production for census purposes includes the growing of field crops, fruits, grapes, nuts, seeds, tree nurseries (except those of forest trees), bulbs, vegetables and flowers, both in the open and under glass; production of coffee, tea, cocoa, rubber; and the production of livestock and livestock products, poultry and poultry products, honey, rabbits, fur-bearing animals, silkworm cocoons, etc.

Forestry and fishery production carried on as an ancillary activity on an agricultural holding is also considered as agricultural production. However, if agricultural activity is carried on as an ancillary activity in a unit, the major activity of which is forestry, the forest area and production should be excluded from the census but the area devoted to agriculture should be included.

Establishments producing *only* forest products, race horses, fish, frogs, dogs or wild game are not to be considered as agricultural holdings.

Where several farm units such as plantations, cooperative or collective farms and similar establishments share the same technical service, if a distinct area is assigned to an individual and such individual shares in the agricultural products of this land, or if a specific number of livestock or poultry is assigned to an individual and he shares in the livestock or poultry products, each such area or number of livestock should be considered as a holding and each individual as a holder.

However, if a member of the holder's household independently operates land for agricultural production, this land should be considered as a separate holding. When individuals, laborers, etc., on farms or plantations comprising several farm units are not assigned a distinct area of land or a specific number of animals and do not receive any share of the agricultural products derived therefrom, then the entire group of units is to be considered a single holding.

When two or more establishments are under the same ownership and/or general direction but the immediate management is done by different persons, they should be classified as separate holdings.

Land which is used in common for grazing purposes by livestock kept by holders in the proximity of their holdings qualifies as *communal grazing land-holding* if the following two conditions are found:

- 1. the area (usually a fixed area) is delimited by fencing, by herding, or by any other form of boundary demarcation; and
- 2. supervision is exercised in regard to the use of the land.

Land not conforming to the above criteria should not be included in the census. However, if other criteria are used on which a decision has been made to distinguish communal grazing land from open range land, they should be indicated.

Information collected for communal grazing landholdings should include only the following items:

- (a) Legal status of the holder (government, tribe and/or clan, etc.)
- (b) Area of the holding
- (c) If possible, number of holders of livestock who have access to the holding

These items should be shown in a separate table but otherwise left out of the tabulation program.

Ideally, the census should include all agricultural holdings in a country, whether large or small. Practical considerations, however, make it necessary to limit the enumeration to those holdings which conform to certain recognized criteria and which fall above certain lower limits as to size of holding or size of operation or both. No uniform minimum limits in respect of area, volume of output, numbers of livestock or number of trees are suggested here, for these will vary from country to country. But in view of the large number of small holdings in many countries and their considerable contribution to the production of some important foods, it is strongly urged that the minimum limits be made as low as possible.

LOCATION OF THE HOLDING

The location of the holding should be indicated in detail in the schedule. If the holding is in a village or hamlet, the name of the village or hamlet and the administrative area in which it is located should be given. This information will facilitate control of the enumeration, summarization by territorial divisions, subsequent inquiries for purposes of verification, sampling inquiries, etc.

PARCEL

A parcel is any land in the holding entirely surrounded by land or water of other holdings or by land or water not forming part of any holding. It may consist of one or more cadastral units, plots or fields.

TOTAL AREA OF THE HOLDING

The total area of the holding should include the total of all land forming part of a unit which is under the same technical responsibility and management. It should also comprise the land occupied by the farm buildings, including the house of the holder, wherever these are located.

Special rules should be applied in the case of shifting cultivation, i.e., the custom of cultivating clearings scattered in the reservoir of natural vegetation (forest or grass-woodland) and of abandoning them as soon as the soil is exhausted.

The total area of the holding should in that case be considered as the sum of:

- (a) the area under crops during the reference period of the census: and
- (b) the area prepared for cultivation but not sown or planted at the time of the enumeration.

In the case of holdings composed partly of settled agricultural land and partly of shifting cultivation, each part should follow its own rules when recording total area.

Holders who have access to communal grazing land should not include their estimated share of the communal grazing land in the total area of their holding.

HOLDER

The holder, for census purposes, is the person who has the responsibility for the operation of the agricultural holding. He exercises the technical initiative and responsibility for the operation of the holding and may have full economic responsibility

(e.g., as an owner) for it or share this with others (as a tenant). When two or more persons share jointly (as partners) in the economic and technical responsibility for the operation of an agricultural holding, each is to be considered as the holder if they belong to different households. In these cases, the names of the partners should be entered under item 02.1 "Name of the holder" but the questions on age and main occupation of the holder, i.e., items 02.2 and 02.3, should remain unfilled. However, if the persons jointly operating the holding are members of the same household, one of them should be considered as the holder and all information requested on the holder should be supplied in relation to this person.

If a holding is operated by a hired manager, special provision should be made for recording this in the census. Many countries enumerate the hired manager separately, while others list him as a holder. In either case, the name of the person or organization which pays him a salary or wage and/or a part of the produce also should be entered.

When a holding is operated by a co-operative or consciously planned collective, a tribe and/or clan, or by a central or local government or government agency, this fact should be separately recorded. (With regard to employment in agriculture and farm population, special arrangements are to be made to collect information about all persons in the household of members of a co-operative, a consciously planned collective, a tribe or a clan.)

HIRED MANAGER

A hired manager is a person responsible for making day-to-day decisions and for supervising others. These functions include the current decisions in running or operating the holding and in the employment of hired labor. He is not to be confused with a caretaker or a laborer. In cases in which the hired manager is listed as a holder of a holding which he operates for the account of somebody else, neither the personal information nor information about his household is to be recorded for this holding.

MAIN OCCUPATION OF THE HOLDER

The main occupation of the holder is the occupation at which the holder spends most of his working time.

LEGAL STATUS OF THE HOLDER

A holding may be operated by a civil person or a juridical person, i.e., corporation, co-operative or

consciously planned collective, or by the government or by a tribe and/or clan.

Civil person. By a civil person is to be understood:

- (a) an individual operating a holding;
- (b) two or more persons who share the technical and economic responsibility of the operation without a legal contract;
- (c) two or more households operating jointly, without legal contract, while at the same time each of the households may operate a holding of its own (see definition of household under section on Farm population).

Corporation. A holding is to be considered as operated by a corporation if it is operated by, or on behalf of, two or more persons who have a separate legal status as such without being a co-operative or a collective. Joint-stock companies are examples of corporations.

Co-operative or consciously planned collective. A holding is said to be operated by a co-operative if it is operated by a body constituted as a co-operative according to applicable legislation. This includes several kinds of farm organizations in which the principles of individual and joint ownership or leasehold are combined in different degrees.

A holding is said to be operated by a consciously planned collective if it is operated by a group of persons not necessarily related by blood, who voluntarily or by mandate of the governing authority join together to exercise land rights in common: for example, owership, occupation as a single unit, and usufruct. This includes, e.g., land operated by monastic orders, the communal farms or "kolkhozes" of the Soviet Union, the collective "ejidos" of Mexico, and other collective arrangements of recent origin.

Government. Government holdings operated by a central or local government, either directly or through a special body, are to be included under this heading.

Tribe and/or clan. A holding is to be included under this heading when it is operated jointly by a tribe, a clan or a part thereof. If, however, the tribal land is subdivided for individual use, the area cultivated by each member should be considered as a separate holding.

Other. This group includes those holders not belonging to any of the previous groups.

TENURE

Land tenure in an agricultural census is concerned with the rights under which the land is operated, and not with the ownership of the land.

Area owned or held in ownerlike possession. Two different concepts are involved:

- (a) that of land owned by the holder or members of his household, which is understood to mean land over which the holder possesses title of ownership and consequently the right to determine the nature and extent of its use, as well as the right of transfer; and
- (b) land operated under such special conditions that the holder operates it in an ownerlike way even though he does not possess a title of ownership.

Some common types of ownerlike possession include:

- (i) land operated under perpetual lease, hereditary tenure, and under long-term leases usually ranging from 30 to 99 years, and the rent of which is sometimes only nominal;
- (ii) land which, without legal title of ownership nor of a long-term lease, has been peacefully and uninterruptedly operated by the holder for a period of over 30 years without payment of rent; and
- (iii) the system under which a villager receives a plot, rent-free, from tribal, ejidal or other communal land and retains it as long as he keeps it under cultivation by his own labor and that of his family and under which he cannot sell or mortgage his holding.

In all such cases, the holder legally uses the land without consideration of other interests and without interference from others, and always has complete economic responsibility. Whenever feasible, the census returns should indicate clearly into which of the above categories the data fall.

Area rented. This includes:

- (i) area rented for a fixed amount of money;
- (ii) area rented for a fixed amount of produce;
- (iii) area rented for a fixed amount of money and some produce;
- (iv) area rented for a share of the produce, or its equivalent in money;
- (v) area rented in exchange for services; and
- (vi) other forms of renting, including area operated gratuitously (rent-free) and area operated in right of usufructuary mortgage.

Area rented for a fixed amount of money, a fixed amount of produce, a fixed amount of money and some produce. By this is meant all land leased to the holder by individuals, by corporations, or by the government or other public or related bodies, usually for a short period of time. Payment may be in the form of a specified amount of money, a specified amount of produce, a specified amount of money

and of produce, or a specified amount of money and in addition some share of produce. The administration and management of the land in general are the responsibility of the holder.

Area rented for a share of the produce, or its equivalent in money. This means all land for the use of which the holder delivers to the landlord a share of the produce or its equivalent in money. The amount of the share varies according to local conditions and to the type of agriculture undertaken, i.e., crop production, production of livestock and livestock products, poultry production, etc. The technical responsibility in the management of the holding may be exclusive to the holder or may be shared to a limited degree (but without imperiling the holder's independence) with the landlord if the latter contributes tools, fertilizers, or other aids. The economic risks of the operation, as far as income is concerned, are always shared by the holder and the landlord.

Area rented in exchange for services. By this is meant land, the usufruct of which is granted to the holder instead of wages. Two cases are most common:

- (a) that in which agricultural laborers receive a piece of land from the landlord in return for which they must work, unpaid, for a certain number of days per week; and
- (b) that in which the holder is granted a piece of land in part payment for services to the government, to the church or to others.

Area under other forms of renting including area operated gratuitously and usufructuary mortgages. This means all land which has been granted rentfree to the holder under special arrangements for his exclusive use and usufruct.

By usufructuary mortgages is meant a mortgage by which the mortgagee, in right of the mortgage, has the usufruct of the mortgaged property.

Area operated on a squatter basis. This is understood to mean all land operated by a holder who lacks title of ownership and for which use he does not pay rent, notwithstanding the fact that he retains its total usufruct. Land occupied by squatters may be either private or public property, and occupancy occurs without consent of the owner, even though it may sometimes be tolerated by him, especially in the case of public domain.

Area under tribal or traditional communal forms of tenure. The land included under this category is held under a form of tenure in which the joint or communal exploitation is not the result of careful planning but of tradition or tribal conditions. The latter is common in most parts of Africa, where land is held on a tribal, village, kindred, or family basis, and individuals have certain rights in this land by

virtue of their membership in the respective social unit. Title to the land, which often is vested in the chief of the tribe, is communal in character but not absolute; it is only usufructuary.

Area under other forms of tenure. Forms of tenure other than those described in the preceding paragraphs may be of common or limited occurrence in some countries. Among these may be mentioned, as examples, the land operated under transitory forms of tenure, such as the land under trusteeship (operated by a trustee) or land received in some countries by members of collective agricultural holdings for individual use, land under inheritance proceedings, etc.

A holding may be operated under more than one form of tenure. In such cases, the holdings should be classified under "Holdings operated under more than one form of tenure" when reporting tenure of holding. In addition, when reporting tenure of the land, the area under each tenure within the holding should be reported separately under the appropriate tenure form.

Type of holding

The purpose of the items under this heading is to classify holdings according to whether they are producing mainly for home consumption or mainly for sale and then to classify the holdings belonging to the latter category by the most important types of agricultural production. The first classification is based on the destination of the agricultural output of the holding during the year in question. By "Agricultural output" is understood the value of that part of the yearly agricultural production on the holding which remains after deduction of the produce used on the holding for further agricultural production, e.g., as forage or seed. However, for the purpose of the classification the output should be adjusted by deducting that part which has been paid by the holder as rent in kind to the landlord.

Holding producing mainly for home consumption. This applies to holdings which produce mainly for home consumption. By "mainly" is meant that 50 percent or more of the adjusted agricultural output of the holding is consumed by the holder's household.

Holding producing mainly for sale. This applies to holdings where more than 50 percent of the adjusted agricultural output of the holding is produced for sale.

Holdings producing mainly for sale could be classified further according to the most important activity of the holding.

(a) Crops holding. Where more than 50 percent of the value of the sales of the holding is from the sale of crops.

- (b) Livestock and poultry holding. Where more than 50 percent of the value of sales of the holding is from the sale of livestock, livestock products or poultry.
- (c) Mixed holding. Where no one of the above accounts for more than 50 percent of the value of sales of the holding.
- (d) Other. This group includes holdings not belonging to any of the previous groups, e.g., silkworm holdings, where more than 50 percent of the value of sales of the holding is from the sale of silkworm products as cocoon silk; or beekeepers' holdings, where more than 50 percent of the value of sales of the holding is from the sale of honey and beeswax.

Countries which so desire can further classify these types by selecting specific species of temporary crops (e.g., market vegetable gardens, wheat, etc.) or of permanent crops (e.g., fruit, rubber, coffee, sisal, etc.) where these crops account for more than 50 percent of the value of the sales of the holding. Similarly, from livestock and poultry, one species of livestock or livestock product can be selected for classification (e.g., cattle holdings, dairy holdings, sheep holdings, etc.) where one of these items accounts for more than 50 percent of the value of the sales of the holding.

Tabulation plans

The tables attached are submitted to indicate the comparable data which are desired on this section from countries participating in the 1970 World Census of Agriculture. The items printed in **bold type** are those for which information is desired from all countries. From the items printed in ordinary type, countries may select those which are suitable to their conditions.

In countries where there is more than one crop season during the year, the total area of the holding, for purposes of tabulation by size of holding, should be the total area reported for the major crop season (see page 7, G. Time reference).

Tables giving tenure (Tables 0.6 and 0.7) show:

- (a) tenure of holding; and
- (b) tenure of the land.

Under (a), holdings are classified according to whether they are operated under one single form of tenure or more than one (e.g., holdings owned, rented; or partly owned and partly rented, partly owned and partly occupied on a squatter basis, etc.), and their number and total area are shown in Table 0.6.

Under (b), holdings operated under more than one form of tenure are dissolved into their different land tenure components, showing the area owned, rented, operated by squatters, etc.

Table 0.1	Number ar	es mode of	operation and	fragmentation	of holdings.	hy size

	Hole	dings		Mode of	operation		Fragme	ntation
Size class	Number	Area	By the	holder ¹	Through man		Number of parcels in the	Average number of parcels
			Number	Area	Number	Area	holdings reporting 2	per holding ²
All holdings with and without land								
Holdings without land		xxx		xxx		×××	xxx	xxx
Holdings under 0.5 hectare under 0.1 hectare 0.1 hectare and under 0.2 0.2 hectare and under 0.5							A control of the cont	
Holdings 0.5 hectare and over 0.5 hectare and under 1 1 hectare and under 2 2 hectares and under 3 3 hectares and under 4 4 hectares and under 5	:	.*						
5 hectares and under 10								
1,000 hectares and under 2,500		xxx		xxx		xxx		

¹ Excludes holdings where the hired manager is considered as the holder. - ² Optional for holdings under 0.5 hectare and for those over 50 hectares.

Table 0.2. - Fragmentation of holdings, by tenure and by size of holding 1

			All holdings				Holdi	ngs fully ow	ned ²	1000
맞고 살로 살 뭐 먹는 하는 것으로	. 1	Number of	holdings co	nsisting of:		:	Number of	holdings co	nsisting of	
Size class	1 parcel	2 to 3 parcels	4 to 5 parcels	6 to 9 parcels	10 parcels and over	1 parcel	2 to 3 parcels	4 to 5 parcels	6 to 9 parcels	10 parcels and over
				1						
All holdings with land		1					4			
Holdings under 0.5 hectare							\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
under 0.1 hectare		*								
0.1 hectare and under 0.2		:								
0.2 hectare and under 0.5										
Holdings 0.5 hectare and over						1.				
0.5 hectare and under 1										
1 hectare and under 2										
2 hectares and under 3			,							
3 hectares and under 4										
4 hectares and under 5						-		-		
5 hectares and under 10										
10 hectares and under 20					1					
20 hectares and under 50										
50 hectares and under 100										
100 hectares and under 200					1					
200 hectares and under 500	1									
500 hectares and under 1,000										
1,000 hectares and under 2,500							į į			
2,500 hectares and over										
Holdings of size not reported										

¹ Some countries may wish to prepare this table also by legal status of holder. – ² Holdings in which all the land is owned by the holder.

Table 0.3. - Holders, by age class and by size of holding ¹
(This table refers only to holders who are civil persons, excluding holdings jointly operated by two or more households)

	Number of		Numb	er of holders wi	no are:	
Size class	holders reporting	Under 35 years of age	35 to 44 years of age	45 to 54 years of age	55 to 64 years of age	65 years of age and over
All holdings with and without land						
Holdings without land						
Holdings under 0.5 hectare	. 1					
under 0.1 hectare	À					
0.2 hectare and under 0.5			1		7. 1	
Holdings 0.5 hectare and over				1, 1,		
0.5 hectare and under 1						
2 hectares and under 3				operation of the state of the s		
3 hectares and under 4						
5 hectares and under 10			1 1 1			
10 hectares and under 20						
50 hectares and under 100	одинента по				Manage of the Control	
100 hectares and under 200				The state of the s		
500 hectares and under 1,000	- Andrews					
1,000 hectares and under 2,500						
Holdings of size not reported						

¹ Some countries may wish to prepare this table also by tenure of holding.

Table 0.4. - Number of holders and area operated, by main occupation and by size of holding (This table refers only to holders who are civil persons, excluding holdings jointly operated by two or more households)

Size class	Holders with main occ		Holders with no main occu	
	Number of holders	Area operated	Number of holders	Area operated
All holdings with and without land				
Holdings without land		xxx		xxx
Holdings under 0.5 hectare			1.33	
0.1 hectare and under 0.2				
Holdings 0.5 hectare and over				
0.5 hectare and under 1				
2 hectares and under 3				
3 hectares and under 4				
5 hectares and under 10				
20 hectares and under 50				
100 hectares and under 200				
500 hectares and under 1,000				
1,000 hectares and under 2,500				
Holdings of size not reported		xxx		xxx

Table 0.5. - Number and area of holdings, by legal status of the holder and by size of holding

				****		Но	ldings b	y legal	status	of hold	ler			
Size class	Tot holdi repoi	ngs	Civ pers		Cor rati		Co-oj ative conscio plani collec	or ously ned	Gove me		Tri and cla	or/	Oth	ier
	Num- ber	Area	Num- ber	Area	Num- ber	Area	Num- ber	Area	Num- ber	Area	Num- ber	Area	Num- ber	Area
			l	i			ĺ	Ì	İ	<u> </u>	<u> </u>	Ì		i
All holdings with and without land														
Holdings without land		xxx		xxx		xxx		xxx		xxx		xxx		xxx
Holdings under 0.5 hectare under 0.1 hectare and under 0.2 0.2 hectare and under 0.5 Holdings 0.5 hectare and over 0.5 hectare and under 1 1 hectare and under 2 2 hectares and under 3 3 hectares and under 4 4 hectares and under 5 5 hectares and under 5 5 hectares and under 10 10 hectares and under 20 20 hectares and under 50 50 hectares and under 100 100 hectares and under 200 100 hectares and under 2,000 1000 hectares and under 2,000 1000 hectares and under 2,500 1000 hectares and under 2,500														
Holdings of size not reported		xxx		xxx		xxx		xxx		xxx	MACA MACA MACA MACA MACA MACA MACA MACA	xxx	- Constitution	xxx

Table 0.6. - Number and area of holdings, by tenure and by size of holding

					Holdin	igs operate	d under or	Holdings operated under one form of tenure	tenure				PloH	Holdings operated under more than one form of tenure ¹	s operated under mo one form of tenure ¹	ore than	
	Total	Owned			Ren	Rented from others	thers	-			Under			More than 50% of			
Size class	report- ing	by the holder or in owner- like pos- session	Total	For a fixed amount of money	For a fixed amount of produce	For a fixed amount of money and some produce	For a share of the produce or its equivalent in money	In ex- change for services	Other forms of rent-ing 2	On squatter basis	tribal or tra- ditional com- munal forms of	Under other single forms of tenure	Total	country owned by the ho der or in ownerlike posses-sion	At least 50% of total area rented	All	_ L
	Vo. Area	No. Area No. Area No. Area	No. Area	No. Area	No. Area	No. Area	No. Area	No. Area	No. Area	No. Area No.		Area No. Are	Area No. Area	ea No. Area	No. Area	o N	Area
All holdings with land					***************************************												
Holdings under 0.5 hectare						:							1				
under 0.1 hectare																	
0.2 hectare and under 0.5			1														
Holdings 0.5 hectare and over																	
0.5 hectare and under 1																1 1 1 1	
2 hectares and under 3																	
3 hectares and under 4			1.														
4 hectares and under 5 5 hectares and under 10																	
50 hectares and under 50																	
100 hectares and under 200.				1 1									-				
1.000 hectares and under 1,000			s .														
	1 1																
Holdings of size not reported	×××	XXX	×××	XXX	××	××	××	×××		XXX	××	××	XXX	XX	××		×××
	_				_	_						_	-		_		

¹ Include here all holdings which are held in part under one form of tenure and in part under another. - ² Including holdings operated gratuitously (rent-free) or holdings operated in right of usufructuary mortgage.

Table 0.7. - Total area of holdings, by tenure and by size of holding

						nted from					Area	
Size class	Total area of hold- ings re- port- ing	Area owned by the holder or in owner- like posses- sion	Total rented from others	For a fixed amount of money	For a fixed amount of produce	For a fixed amount of money and some produce	For a share of the produce or its equivalent in money	In ex- change for serv- ices	Under other forms of rent- ing ¹	Area oper- ated on a squat- ter basis	oper- ated under tribal or tradi- tional com- munal forms of tenure	Area oper- ated under other forms of tenure
All holdings with land		1										
Holdings under 0.5 hectare under 0.1 hectare 0.1 hectare and under 0.2 0.2 hectare and under 0.5												
Holdings 0.5 hectare and over 0.5 hectare and under 1					The state of the s							
3 hectares and under 4												The state of the s
20 hectares and under 50		· · ·			The state of the s							
1,000 hectares and under 2,500 hectares and over		2			Vertical property of the control of	a de la companya de l			ACCOUNT OF THE PARTY OF T			

¹ Including area operated gratuitously (rent-free) and area operated in right of usufructuary mortgage.

Table 0.8. - Number and area of holdings, by type and by size of holding $^{\rm 1}$

	Hole	lings				Holding	s produci:	ng mainly	for sale	e			
Size class	produ mainly fo consum	cing or home	То	tal		ops dings	and p	stock oultry lings	Mix hold			her lings	
	Num- ber	Area	Num- ber	Area	Num- ber	Area	Num- ber	Area	Num- ber	Area	Num- ber	Area	
All holdings with and without land													
Holdings without land		xxx		xxx		xxx		xxx		xxx		xxx	
Holdings under 0.5 hectare													
under 0.1 hectare													
0.1 hectare and under 0.2													
0.2 hectare and under 0.5													
Holdings 0.5 hectare and over													
0.5 hectare and under 1							1						
1 hectare and under 2													
2 hectares and under 3													
3 hectares and under 4													
4 hectares and under 5													
5 hectares and under 10	1 .												
10 hectares and under 20													
20 hectares and under 50			- 1	-	ĺ								
50 hectares and under 100					, ·				1				
100 hectares and under 200													
200 hectares and under 500													
500 hectares and under 1,000													
1,000 hectares and under 2,500											1		
2,500 hectares and over							Li di Cara						
The later of the are account									1		1		
Holdings of size not reported		xxx		xxx		xxx	1 :	×××		xxx		xxx	

¹ Some countries may wish to prepare this table also by form of tenure.

Section 1 - LAND UTILIZATION

Introduction

This section of the Program proposes a classification of land utilization on agricultural holdings according to five major groups. Several countries may want to adopt a more detailed classification; the proposal, therefore, also includes subdivisions of some of the major groups. These, together with the major groups, constitute the Expanded List of items.

In order to ensure comparability between the 1970 and previous censuses, the land utilization groups have been retained exactly as in the 1960 Census of Agriculture.

In the case of shifting cultivation, where holdings consist only of land under crops and land prepared for cultivation, Group 11.4 and Major groups 13, 14 and 15 do not apply. Holdings which consist exclusively of communal grazing land should not be included in this classification but should be shown separately as indicated in Section 0.

Proposed census items

The Short List of items for which information is desired from all countries is printed in **bold type**. The Expanded List includes the items printed in bold type as well as in ordinary type. Countries may select from the items printed in ordinary type those suitable under their conditions.

SECTION 1 - LAND UTILIZATION

Major group Group

11. ARABLE LAND

- 11.1 Land under temporary crops (except market and kitchen gardens and cultivation under glass)
- 11.2 Land under temporary meadows (for mowing or pasture)
- 11.3 Land under market and kitchen gardens, including cultivation under glass
- 11.4 Land temporarily fallow
- 11.9 All other arable land

12. LAND UNDER PERMANENT CROPS

Major group Group

13. LAND UNDER PERMANENT MEADOWS AND PASTURES

- 13.1 Cultivated meadows and pastures
- 13.2 Uncultivated meadows and pastures

14. WOOD OR FOREST LAND

15. ALL OTHER LAND

- 15.1 Unused land (unproductive, as well as that yielding insignificant production) and potentially productive for agriculture or forestry but not yet developed
- 15.9 Land in the holding not classified elsewhere

Definition of census items and explanatory notes

COVERAGE

All the land in the holding should be classified according to its utilization and any duplication that may arise, for instance, in the case of associated and successive crops, should be avoided or clearly indicated as such.

TIME REFERENCE

Groups should be recorded at a certain date, and this date should be stated clearly. In any case, the date should be the same as for the determination of the total area of the holding.

Area to be recorded

For purposes of classification of land utilization, gross area of the respective fields should be recorded, that is, all lands including bunds, headlands, shoulders, shelter belts, ditches, etc., attributable to each field.

ARABLE LAND

For the purposes of this Program, arable land means all land generally under rotation, whether it is under temporary crops, used as temporary meadows, or market and kitchen gardens (including cultivation under glass), temporarily fallow or lying idle.

Land under temporary crops (except market and kitchen gardens and cultivation under glass). Includes all land used for crops whose growing cycle is under one year and sometimes only a few months. and which must be newly sown or planted after the harvest of each crop. Examples of such crops are wheat, barley, maize, rice, beans, potatoes, cotton, etc. Crops remaining in the field for more than one year should also be considered as temporary crops if the harvesting destroys the plant, as, for example, in the case of cassava and yams. Crops when grown in rotation and therefore destroyed when the land is plowed (e.g., alfalfa, clovers, grasses, etc.) should be considered as temporary crops. Certain crops, like asparagus, strawberries and sugarcane, are sometimes grown as permanent crops and sometimes as annual or biennial crops. The area should be classified as under temporary or under permanent crops, as the case may be.

Land under temporary meadows (for mowing or pasture). Land under temporary meadows is understood to be land temporarily cultivated with herbaceous forage crops for mowing or pasture. It is recognized that some practical difficulties may arise in differentiating "Temporary meadows" from "Permanent meadows and pastures" to which reference will be made below. To obviate this difficulty, it is suggested that a period of rotation of less than five years be considered as temporary.

Land under market and kitchen gardens, including cultivation under glass. The specialized cultivation of vegetables, flowers, bulbs and ornamental plants should be included in this category, whether they are grown in market gardens, in kitchen gardens, or in greenhouses, and whether they are intended for consumption on the holding, for marketing, or both.

Land temporarily fallow. Land temporarily fallow is land resting for a period of time before it is planted again. If the land remains fallow too long, it might acquire certain characteristics which would determine its inclusion in other major groups of land utilization, such as: "Permanent meadows and pastures" if it were possible to use it for grazing; "Wood or forest land" if it had become overgrown with trees utilizable as timber, firewood, etc.; "All other land" when it reverts to wasteland. Hence, a maximum length of time should be adopted for such land to remain idle and be considered as fallow. It is suggested herewith that this period be less than five years, and also that the land can be brought back into cultivation by normal cultivation practices.

If the census is taken at a time when the sowing or planting of the current season has not been fully completed, the area fallow at that time which will be put under crops immediately afterward should be classified according to the crops with which it is going to be sown or planted and not as fallow land. Even though fallow land is temporarily used for grazing, it should be classified under fallow if the main purpose of the land is for the cultivation of temporary crops.

All other arable land. This includes all areas of rotation land not put to any of the uses mentioned above during the year of reference of the census, for example, arable land damaged by floods, land prepared for cultivation but not sown on account of unforeseen circumstances, etc.

LAND UNDER PERMANENT CROPS

Land under permanent crops means land cultivated with crops which occupy the land for a long period of time, and do not need to be planted for many years after each harvest, such as cocoa, coffee, rubber, shrubs and fruit trees, nut trees and vines, but excluding wood and timber. It includes nurseries, except those for forest trees which should be classified under "Wood or forest land." It excludes permanent meadows and pastures.

LAND UNDER PERMANENT MEADOWS AND PASTURES

This means land in the holding used permanently, i.e., five years or more, for herbaceous forage crops, either seeded and cared for or existing naturally (wild prairie or grazing land). Permanent meadows and pastures on which trees and shrubs are grown should be recorded under this heading only if the growing of forage crops thereon is the most important use of the area.

WOOD OR FOREST LAND

This includes all wood lots or tracts of timber, natural or planted, which constitute part of the holding and which have, or will have, value as wood, timber, or other forest products or for protection. Nurseries of forest trees should also be included in this category. It excludes wood and forest land used for recreation purposes only, which should be reported under the category of "Land in the holding not classified elsewhere."

ALL OTHER LAND

This includes all other land in the holding whether potentially productive or not.

Unused land potentially productive for agriculture or forestry but not yet developed. This should include the area of uncultivated land which comprises part of the holding not included under the preceding headings but which is either producing some kind of utilizable vegetable product, such as reeds and rushes for matting and bedding for livestock, wild berries, plants, and fruit, or land which could be brought into crop production through relatively small expenditure of effort in addition to that required in common cultivation practices.

Land in the holding not classified elsewhere. This includes all land which constitutes part of the holding but which is occupied by buildings, parks and ornamental gardens, roads or lanes, wasteland, land under water, and any other land not reported under previous groups.

SIMULTANEOUS UTILIZATION OF LAND FOR DIFFERENT TYPES OF CROPS

When recording data on land utilization, special care should be taken to avoid duplication in the case of land on which permanent crops and temporary crops or permanent meadows and pastures are grown simultaneously (see Section 2, Crops).

Tabulation plans

The following tables are submitted to indicate the comparable data which are desired on this section from countries participating in the 1970 World Census of Agriculture. The items printed in bold type are those on which information is desired from all countries. From the items printed in ordinary type countries may select those which are suitable to their conditions.

Table 1.1. - Number and area of holdings, by size and by land utilization

	Total	Ara	hio		ind der	perr	nanent	Land mead	under ows an	d past	ures		od or	Al	ll other	
Size class	land	lai		perm	anent ops	То	tal	Culti	vated		cul- ited		est nd	Total area	Unused and poten- tially	Land not clas- sified
	ares	ber	ea ares)	ber	ea ares)	ber	ea ares)	ber	ea ares)	ber	ea ares)	ber	ea ares)	ui cu	pro- ductive	else- where
	Hectares	Number	Area (hectares)	Number	Area (hectares)	Number	Area (hectares)	Number	Area (hectares)	Number	Area (hectares)	Number	Area (hectares)	Hec- tares	Hec- tares	Hec- tares
															1	
All holdings with land		i.														
Holdings under 0.5 hectare								1		:					1	
under 0.1 hectare					1									and the same of th		
0.1 hectare and under 0.2																
0.2 hectare and under 0.5																1
		1														
Holdings 0.5 hectare and over					1 .				1							
0.5 hectare and under 1	-									1.				1		
1 hectare and under 2																
2 hectares and under 3																
3 hectares and under 4						İ										
4 hectares and under 5 5 hectares and under 10						1										
								1								
20 hectares and under 50														1		
100 hectares and under 200	:							4								
200 hectares and under 500					-		-	The state of the s	1 .				1			
500 hectares and under 1,000							Name of the last o									
1,000 hectares and under 1,000	1							1								
2,500 hectares and over														*		
Ajovo nectares and over			1 :		1		-									
Holdings of size not reported				İ					-	1				4		
				1		1										4

Table 1.2. - Area, in hectares, of arable land, by size of holding and by land utilization

			Area of arable	land reported		
Size class	Total	Under temporary crops	Under temporary meadows	Under market and kitchen gardens	Temporarily fallow	All other arable land
All holdings with land						
0.5 hectare and under 1 1 hectare and under 2 2 hectares and under 3 3 hectares and under 4 4 hectares and under 5 5 hectares and under 10 10 hectares and under 20 20 hectares and under 50 50 hectares and under 100 100 hectares and under 200 200 hectares and under 200 100 hectares and under 200 200 hectares and under 500 500 hectares and under 500 1,000 hectares and under 1,000 1,000 hectares and under 2,500 2,500 hectares and over						

Table 1.3. - Area, in hectares, of $\frac{}{(\text{Specify tenure of holdings})^1}$ holdings) 1

Size class	Total land	Arable land	Land under permanent crops	Land under permanent meadows and pastures	Wood or forest land	All other land
						1 1 1 1
All holdings with land			1 1			
Holdings under 0.5 hectare						
under 0.1 hectare		4				
0.1 hectare and under 0.2				3 1 4	4.5	4 1/4
0.2 hectare and under 0.5						1.0
Holdings 0.5 hectare and over						
1 hectare and under 1						
2 hectares and under 3						
3 hectares and under 4						
4 hectares and under 5	1		\$:			
5 hectares and under 10						
10 hectares and under 20				1.5		
20 hectares and under 50						
50 hectares and under 100						
100 hectares and under 200						
500 hectares and under 1,000					1.	
1,000 hectares and under 2,500						
2,500 hectares and over	21.4					
Holdings of size not reported						

¹ A separate table should be prepared for each single form of tenure of the holdings.

Table 1.4. - Area, in hectares, of holdings classified by land utilization and by type of holding

Land utilization class Total Arable land Land under permanent crops	Holdings										
	producing mainly for home consumption	Total	Crops holdings	Livestock and poultry holdings	Mixed holdings	Other holdings					
Arable land											

Table 1.5. - Area, in hectares, of $\frac{}{(\text{Specify type of holdings})^1}$ holdings, by land utilization

	Size class	Total land	Arable land	Land under permanent crops	Land under permanent meadows and pastures	Wood or forest land	All other land
All ho	ldings with land						
unde 0.1	gs under 0.5 hectare or 0.1 hectare hectare and under 0.2 hectare and under 0.5						
	gs 0.5 hectare and over hectare and under 1 hectare and under 2 hectares and under 3 hectares and under 4 hectares and under 5						
5 10 20 50 100 200	hectares and under 10						
500 1,000 2,500 Holdin	hectares and under 1,000						

¹ A separate table should be prepared for each type of holdings, e.g., "Holdings producing mainly for home consumption," "Holdings producing mainly for sale," "Crops holdings," etc.

Section 2 - CROPS

Introduction

This section gives the list of crops for which data on area and the number of trees are desired from the countries. Data on production is also required, on an optional basis, for a certain number of crops. It is recognized that a census of agriculture may not be the best means of securing information on crop production and that this information can best be obtained through current surveys. However, a census affords the only opportunity in many countries to obtain information on production.

The proposals included in this section differ from those in the 1960 Program principally in respect of the following:

- 1. The scope of the Program has been broadened so as to obtain, when feasible, data on area irrigated and area nonirrigated for each temporary crop.
- 2. Developing countries are advised to collect information on the area treated with inorganic fertilizers separately for each of the major crops.
- 3. A few crops have been transferred from the list of temporary crops to that of permanent crops.
- 4. A few crops have been introduced into the Expanded List.

5. New tables have been suggested in the Expanded List to provide for the tabulation of data on crops by type of holding.

Proposed census items

The following is the list of crops for which data are desired from the countries participating in the 1970 World Census of Agriculture. It is grouped under three main heads:

- 1. Crops on arable land.
- 2. Permanent meadows and pastures.
- 3. Permanent crops.

The Short List of items for which information is desired from all countries is printed in bold type. The Expanded List includes the items printed in bold type as well as in ordinary type. Countries may select from the items printed in ordinary type those suitable to their conditions.

Countries which would have difficulties in collecting data on the number of trees or vines in the census might derive the information from specialized surveys.

SECTION 2 — CROPS

Group	CROPS ON ARABLE LAND	
21.1	CEREALS HARVESTED FOR GRAIN	
	21.11 Wheat	
	(a) Winter wheat	3

Hard

Spring wheat

wheat

durum and semihard wheat) Soft wheat......

(including

	Area		Production
Total ¹	Irrigated	Not irrigated	Total

¹ For developing countries it is advisable to report also on the area treated with inorganic fertilizers separately for each of the major crops (see Explanatory notes to Section 8, "Fertilizers and soil dressings" on page 67).

			Area		Production
		Total ¹	Irrigated	Not irrigated	Total
21.1	2 Rye				
	(a) Winter rye			•••	
	(b) Spring rye	•••		•••	• • •
21.1	Rice		2	3	• • •
21.1		• • •		•••	•••
	[Exclude broom millet and broom sorghum reported under 21.49 (e)				
	and sweet sorghum which should		,		
	be reported under 21.41 (c)]				
	(a) Millet				• • •
	(b) Sorghum	•••		•••	• • • .
21.1		•••		•••	
	[Exclude area producing sweet corn, reported under 21.65 (b), hybrid				
	seed for sowing and area producing				
	parent strains for crossing which				
	should be reported under 21.80]				
	(a) Hybrid maize	•••		•••	
1 1	(b) Ordinary maize		•••	•••	• • •
21.1		•••			• • •
	(Include barley for all uses) (a) Winter barley				
	(b) Spring barley		:::		• • • •
21.1					
•	(Include oats for all uses and mature	'''	• • •	• • •	• • •
	oats fed unthreshed)				
8	Mixed grains (maslin, etc.)	1			
	ther cereals harvested for grain				
	(buckwheat, quinoa, spelt, etc.)				
	MINOUS PLANTS MAINLY FOR		4 4 4		
	AIN CONTRACTOR OF THE RESEARCH				
	(Include all dry pulse crops except				
	soybeans and groundnuts)				
21.2					•••
21.2	2 Edible dry beans			• • •	•••
21.2	B Lentils			•••	
21.2	4 Chick peas (gram)			•••	
21.2	Edible dry peas				
ç	Other legumes mainly for grain (lu-	1			
	pines, vetches, fenugreek, pigeon peas,	1.			
	cowpeas, bambarra nuts [earth		1		
	peasj, etc.)	•••	•••	•••	• • •
BEF	R, ROOT AND BULB CROPS				
	OOD OR FEED				
1	Potatoes				
•	(Early and late crops for all purposes,		•••		• • •
	including seed potatoes)				
3	2 Manioc (cassava)				
	3 Sweet potatoes				
	4 Arrowroot				
.3		•••			
.3			•••	•••	•••
21.3		• • • • • • • • • • • • • • • • • • • •	• • •	•••	•••
21.3 21.3	, 2	•••	•••	•••	•••
. 1 . 3	cipally for feed				
	(a) Turnips				xxx
					xxx
	(b) Mangels (fodder beets)		1	*	XXX
(a) (b) (c)	Sugar beets for feed	• • • •		•••	
(a) (b) (c) (d)	Sugar beets for feed Jerusalem artichokes	•••		•••	XXX
	(c) Sugar beets for feed	1	1	•••	xxx xxx xxx

¹ For developing countries it is advisable to report also on the area treated with inorganic fertilizers separately for each of the major crops (see Explanatory notes to Section 8, "Fertilizers and soil dressings" on page 67. – ² Wet rice. – ³ Dry rice.

lajor				Area		Production
roup Group	•		Total ¹	Irrigated	Not irrigated	Total
1. 21.3						
	21.39	Other tuber, root or bulb crops grown for food or feed				xxx
21.4		PORARY CROPS MAINLY FOR J				
	21.41	Sugar crops				
		(a) Sugarcane for sugar	•••	•••	•••	
		[Include area cut for planting, for chewing, and for sugarcane juice.				
		Sugarcane for feed should be re-				
		ported under 21.51 (j) and sugar- cane for thatching under 21.49 (e)]				
		(b) Sugar beets	•••		•••	
		[For sugar or for alcohol. Sugar beets for feed should be reported under				
		21.38 (c)]				
		(c) Other sugar crops (sweet sorghum, etc.)		· · · · · · · · · · · · · · · · · · ·		
	21.42	· 1	•••	•••	• • •	•••
		(a) Cotton		•••		***
		(b) Flax harvested for fiber	•••	•••	•••	•••
		cluding hemp for paper mills)			•••	•••
		(d) Jute(e) Other fiber crops (sunn hemp,	•••	•••	•••	•••
		kenaf, urena, etc.)			• • •	
21.4	21.43	Oilseed crops				
		(a) Groundnuts (peanuts, for all purposes)				
		(b) Soybeans (for all purposes)	•••	•••	•••	•••
		(c) Linseed [Flax for fiber is included under 21.42 (b)]				
		(d) Mustard	•••		•••	•••
		(e) Poppy seed(f) Hempseed	•••	•••	•••	•••
		(g) Castor beans	•••	•••	•••	***
		(h) Sesame	•••	•••	•••	•••
		(i) Sunflower	••		•••	• • •
		(k) Other oilseed crops (e.g., saf-				
	21 44	flower seed, niger seed, etc.) Spices, condiments, aromatic, and me-		•••	•••	•••
		dicinal plants	• •		•••	
		(a) Dry peppers, pimentos or chilies (Exclude sweet peppers and fresh				
		chilies used as vegetables which				
		are to be reported under group 21.62)				
		(b) Other cultivated spices, condi-				
		ments, medicinal and aromatic plants (e.g. aniseed, licorice, opi-	: .			
		um, cardamom, caraway seed, etc.)	• • •		•••	xxx
	21.45	(8., 8,				
	24 40	lavender, mint, etc.)	• • •	• • •	•••	xxx
	21.49	Other industrial crops (a) Tobacco	•••		•••	
		(i) Flue cured	•••	•••	•••	
		(ii) Other types	•••		•••	• • •
		(c) Chicory [Exclude chicory for				
		greens which should be reported under 21.61 (g)]				
		(d) Pyrethrum	•••		•••	
		(e) Other crops for industrial pur- poses not included elsewhere				
		(e.g., indigo, henna, broom millet,				
		broom sorghum, esparto grass,				
		sugarcane for thatching, etc)	• • •	'''	•••	xxx

¹ For developing countries it is advisable to report also on the area treated with inorganic fertilizers separately for each of the major crops (see Explanatory notes to Section 8, page 67).

Major				Area		Production
group Group			Total 1	Irrigated	Not irrigated	Total
21. 21.5	TEMPO	DRARY FODDER CROPS				
	21.51	Legumes, grasses and cereals cut for hay, green feed, or silage (Include all rotation land from which temporary				
		crops were cut, even if also grazed before or after fodder was cut) (a) Alfalfa alone	•••	•••	•••	xxx xxx
		(c) Other leguminous forage crops alone (lespedeza, sainfoin, soybean hay, etc.)	•••	•••		xxx
		(d) Leguminous forage crop, mixed (e) Grasses alone (timothy, red-top, sudan, orchard grass, etc.) (f) Grasses, mixed			•••	xxx xxx
		(g) Mixed legumes and grasses (h) Maize (corn) for silage (i) Other cereals cut for hay, green	•••	•••		xxx
		feed or silage			•••	xxx
	21.52	mixed, etc.)	•••			xxx
		cereals were cut for hay or for green feed and/or silage which should be reported under 21.51)	•••	•••	•••	xxx
		(a) Alfalfa, clover and other leguminous plants	• • •	•••	•••	xxx xxx xxx
	21 .59	elsewhere	•••	••• 1	•••	xxx
		(a) Cabbage for fodder	•••	•••		xxx xxx xxx
21.6	THE	TABLES AND MELONS GROWN IN OPEN, PRINCIPALLY FOR HUMAN SUMPTION				
		(Groups 21.61 to 21.66 include all vegetables and melons produced mainly for sale, whether produced as field crops or in market gardens. Vege-			,	
		tables and melons grown principally for home consumption should be reported under 21.67. Crops used partly for human consumption and				
		partly as fodder should be considered as vegetables only if their principal use is for human consumption. Crops used principally as fodder				
		should be reported under Major Group 21.3 (Tuber, root and bulb crops for food or feed), or under group 21.59 (other fodder crops). Vegetables grown only for seed				
	21.61	should be reported under Group 21.80)				
	21.01	mainly for sale (a) Cabbage (red, white, savoy and Brussels sprouts)	•••	•••		
		(b) Chinese cabbage	•••		•••	•••

¹ For developing countries it is advisable to report also on the area treated with inorganic fertilizers separately for each of the major crops (see Explanatory notes to Section 8, "Fertilizers and soil dressings" on page 67).

Major	
group	

21. 21.6

20				- -		Area		Production
Group					Total 1	Irrigated	Not irrigated	Total
21.6								
21.0						1 1 1 1		1.74 1.74 1.4
		(c)	Kale					
		(d)	Artichokes			•••	• • •	
		(e)	Asparagus		•••	•••	•••	•••
		(f)	Chicary for groups		•••	• • •	• • •	
		(g) (h)	Chicory for greens		• • •		•••	
		(i)	Spinach (Include silver beet or		•••		•••	
		, ' .	spinach beet)					
		(j)	Leek					
		(k)	Endive				•••	
		(1)	Cress (including watercress and					
			American cress)	- 1	•••		• • •	
		```	Rhubarb		•••	***	•••	
		(n)	Other leafy or stem vegetables (e.g., fennel, corn salad, etc.).					
	21.62	Envi			• • •	• • • •	•••	xxx
	21.62		t-bearing vegetables produced nly for sale					
		(a)	Watermelons					
		(b)	Cantaloupes and other melons.	- 1				•••
		2 (	Pumpkins	- 1				
		(d)	Squash					
		(e)	Gourds	- 1				
		(f)	Cucumbers			•••		•••
		(g)	Eggplant				•••	
		(h)	Okra		•••	•••	•••	•••
		(i)	Tomatoes	- 1	•••		•••	•••
		(j) (k)	Chilies (fresh)		• • •	• • •	•••	• • •
		in in	Other fruit-bearing vegetables		•••	• • •		
			(e.g., chayote, etc.)	- 1				xxx
	21.63	Roc	ot, bulb, and tuberous vegetables					
			duced mainly for sale					
		(a)	Green garlic					
		(b)	Green onions	- 1				
		(c)	Red beets		•••		• • •	•••
		(d)	Carrots	ı	•••	• • •	•••	•••
		(e)	Radishes (including horseradishes)	- 1	•••	• • •	• • •	• • •
		(f) (g)	Rutabagas or swedes and kohlrabi	- 1	•••	***	•••	•••
		(ĥ)	Other root, bulb and tuberous	1	•••	* * *	***	
			vegetables (e.g., cardoon, celeriac,					
			parsnip, scorzonera, salsify, etc.)	l				xxx
	21.64	Leg	uminous vegetables for human con-	l				
			option produced mainly for sale	l	:		1 1	
		(a)	Beans (harvested green)	ı				•••
		(b)	Peas (harvested green)	ı			•••	
		(c)	Other leguminous vegetables (e.g.,		4			
			broad beans harvested green,	ı			·	
	24 (5	0.1	cowpeas harvested green, etc.)	l	• • •	• • • •		xxx
	21.65		ner vegetables for human con- option produced mainly for sale					
			Cauliflower and broccoli	l				
			Corn (sweet)		:::	•••	• • •	•••
			All other vegetables not reported			***		
		`. ′	elsewhere					xxx
	21.66	Cul	tivated mushrooms mainly for sale					
			lude those grown in caves, cellars					
		and	elsewhere)	- 1				
	21.67		vegetables and melons grown			***************************************		
			marily for home consumption, in-					
		clud	ling those from kitchen gardens	- 1			•••	xxx
				1				
21.7	SPEC!	AL H	HORTICULTURAL CULTIVATION	1	-			
	21.71	Flo	wers grown in the open (for sale,			- 1		
			d or industrial purposes)	- 1				xxx
	21.72		wer bulbs and corms	- 1				xxx
	21.73	_	namental plants grown in the open	1				XXX
			in the first track in the	- 1				

Area

Production

¹ For developing countries it is advisable to report also on the area treated with inorganic fertilizers separately for each of the major crops (see Explanatory notes to Section 8, "Fertilizers and soil dressing" on page 67).

Major					Production	
group (	Group		Total 1	Irrigated	Not irrigated	Total
21.	21.7					
		21.74 Cultivation under glass (total) (a) Cultivation of vegetables				xxx xxx
		(b) Cultivation of flowers and/or or- namental plants				xxx
		(c) Mixed cultivation (e.g., vegetables				
		and flowers)	•••	•••		XXX
	21.8	CROPS GROWN FOR SEED FOR SOWING PURPOSES	•••			xxx
		(Include only those areas solely or mainly used for the production of seed not reported elsewhere)				
	21.9	OTHER CROPS ON ARABLE LAND				
		21.91 Green manure crops	• • •			xxx
		ported elsewhere	•••	• • •	•••	xxx
22.		PERMANENT MEADOWS AND PASTURES				
	22.1	Permanent grassland cut for hay	•••	•••	• • •	xxx
		which hay was cut, even if also pastured or grazed before or after the hay was cut)				

¹ For developing countries it is advisable to report also on the area treated with inorganic fertilizers separately for each of the major crops (see explanatory notes to Section 8, "Fertilizers and soil dressings" on page 67).

			Area in	compact pla	antations		Number of t	rees or vine	s	
Major				I _	Trees or	In co				
group G	roup		Total	Trees or vines of productive age	vines of non- productive age	Total	Of productive age	Of non- productive age	Scattered total	Produc- tion
23.	PERMA	NENT CROPS								
23.1	FRUIT	TREES AND VINES								
	23.11 Ci	trus trees								
		Oranges Mandarines and tangerines (including clemen-	•••	•••	• • •	•••		•••		
	(c)	tines and satsuma)								
	(d)	Grapefruit and pomelo	• • •							
	(e) (f)	Other citrus fruit (e.g., bitter orange, sweet limes,	•••	• • •	* * *	•••			•••	
		citrons, bergamots, etc.)	• • •				• • • •			XXX
		ome fruit trees Apples								
	(b)									
	(c)	Quince				• • •				
	(d) (e)				• • •				•••	xxx
	23.13 St	one fruit trees								
		Apricots								
		Cherries								•••
		Peaches (incl. nectarines). Plums and prunes								
	(e)	'								xxx
	23.14 O	ther cultivated fruit trees  Dates								
	(b)									
	(c) (d)				• • • •		• • • •			
	(e)									
	(f)	Custard apple								
	(g)									
	(h) (i)									
	(j)	_ ` .								1
	(k)	′				xxx	xxx	xxx	xxx	
	(1) (m	s				XXX	XXX	XXX	XXX	:::
	(n)	.*								
	23.15 Sn	nall cultivated fruit					: .			
	(a)	Strawberries				xxx	xxx	xxx	xxx	
	(b)	, _ · · · · · · · · · · · · · · · · · ·		•••		XXX	XXX	XXX	XXX	
	(c) (d	Currants				XXX	xxx	XXX	XXX	
	(e)	Blueberries				xxx	xxx	xxx	xxx	
		Cranberries Other cultivated small fruit and berries (e.g., black-	•••	•••	•••	xxx	xxx	xxx	xxx	
		berries)				xxx	xxx	xxx	xxx	xxx
	23.16 Ct	ultivated edible nut trees							1	
		Almonds					• • • •			
	(b)	) Walnuts ) Cashew nuts			• • • •		•••			
		All other edible nut trees (e.g., pecan, hazelnut or filbert, chestnut, pistachio nut, Brazil nut, Macadamia [Queensland nut], etc. [ex-	•••	• •	• •			•••		
		cluding coconut])	• • • •	•••		• • • •	• • • •		• • • •	XXX
		rapes				xxx	xxx	xxx	xxx	
	(a (b	) Grapes for wine and juice ) Grapes for table use		• • • •	• • • •	XXX	XXX	XXX	XXX	
	(c					xxx	xxx	xxx	xxx	

		Area in	compact pla	antations	1. 1.	Number of t	rees or vine	·\$	
Major group		1 1	Trees or	Trees or vines of	ln co	mpact plant	ations		Produc-
Gro		Total	vines of productive age	non- productive age	Total	Of productive age	Of non- productive age	Scattered total	tion
23. 23.1		:	<u> </u>	486		1	"6"	<u> </u>	<u>                                     </u>
	23.19 Other cultivated fruit (including mulberry grown for fruit, carob, litchi, etc.)			• • •	• • •				xxx
23.2	PERENNIAL CROPS YIELDING SPICES, CONDIMENTS, AND ARO- MATIC PRODUCTS								
	23.21 Cinnamon								1
	23.22 Cloves								
	23.23 Nutmeg and mace		• • • •	• • • •	• • •				
	23.24 Black pepper					1	:::		:::
	23.26 Ginger							• • • •	
	23.29 Other perennial crops yielding spices, condiments, and aromatic products (drumstick, etc.)	•••							xxx
23.3	PERMANENT CROPS MAINLY FOR INDUSTRIAL PRODUC- TION								
	23.31 Crops for beverage and stimulant production								
	(a) Coffee			• • • •	• • •			• • • •	
	(c) Tea								
	(d) Yerba mate			1		1			
	(e) Other (e.g., cola, etc.)  23.32 Crops for oil production		•••		• • •			•••	xxx
	(a) Coconut				• • • •		• • • •	• • • •	
	(b) Oil palm								
	(d) Other (e.g., tung trees, etc.)		:::						xxx
	23.33 Crops for fiber production								1
	(a) Agave plants				xxx	xxx	xxx	xxx	
	(i) Sisal		• • • •		XXX	XXX	XXX	XXX	
	(ii) Henequen (iii) Other	• • • •			XXX	XXX	XXX	XXX	xxx
	(b) New Zealand flax (formio)								
	(c) Abaca (Manila hemp)								
	(d) Ramie and rhea				1	• • • •	•••		• • • •
	(e) Kapok								xxx
	(f) Other (e.g., fique, etc.)  23.34 Crops for rubber and tan-	• • • •		1	'''		'''	'''	7000
	ning production								
	(a) Rubber (Hevea)								
	(b) Black wattle			• • • •					
	(c) Quebracho	• • • •	• • • •	• • • •					xxx
	23.39 Other permanent crops mainly for industrial purposes which are not included elsewhere (e.g., sago palm, palmyra palm,	•••	•••	•••	* 4 *				
	citronella, lemon grass, mul- berry for silkworms and paper,								
	etc.)	• • • •	• • •		• • • •	• • • •	• • • •		XXX
23.	4 NURSERIES		xxx	xxx	xxx	xxx	xxx	xxx	xxx
	and vines		xxx	xxx	xxx	xxx	xxx	xxx	xxx
	nent plants		xxx	xxx	xxx	xxx	xxx	xxx	xxx
23.	namental trees, and bushes 5 PERMANENT CROPS GROWN PRIMARILY FOR HOME CONSUMP-		xxx	xxx	xxx	xxx	xxx	xxx	xxx
23	TION IN KITCHEN GARDENS 9 OTHER PERMANENT CROPS NOT		• • • •		• • • •				xxx
-3.	INCLUDED ELSEWHERE (specify)			•••					

## Definition of census items and explanatory notes

#### COVERAGE

This section applies to cultivated field crops (including vegetables grown in market gardens and cultivation under glass) and trees only. Wild plants or trees should not be enumerated in the census. Information on production from uncultivated plants, if collected, should in any case be tabulated separately.

#### TIME REFERENCE

If aggregate areas under crops are reported, data for crops grown on arable land should refer to a specific year, such as an agricultural year or a year preceding the date of enumeration, i.e., the period of one year ending at the date of enumeration. Data on crop production should refer to the same period.

Some countries having only one crop season of importance may prefer to report areas under crops at a specific date, e.g., the day of enumeration or some other day close to this.

Information on land under permanent meadows and pastures, areas under permanent crops, number of trees and vines should refer to the same specific date as determined above.

The time reference for the above-mentioned topics should be clearly stated.

#### CROP AREA

The area to be reported under each crop should be carefully defined, both when reporting on crops grown on arable land and when reporting on land used for permanent crops. If the area cannot be reported directly, it may be possible to derive information on the area under crops by indirect methods, for instance, from the amount of seed sown or planted or from data on production.

For crops grown on arable land, "Area harvested" should be reported. When "Area sown" or "Area under crops at the census date" is reported, this should be stated clearly. Wherever possible, net area (that is, the area actually cultivated) rather than gross area (that is, the whole area of the field-bearing crop, including bunds, uncultivated patches, small irrigation ditches, etc.) should be reported.

For permanent crops the gross area occupied by each crop should be reported. Countries wishing also to report area under scattered trees, which item is not included in the Program, may convert the number of trees into area under these trees by allocating a standard area to each tree.

## TREES OF PRODUCTIVE AGE

In the case of tree crops, the trees must have reached a certain age before they come into production. Trees in productive period should be enumerated as "Of productive age" regardless of the fact that, owing to meteorological conditions or other reasons, they have given no harvest in the year preceding the census. Senile trees or other trees no longer in production should generally not be enumerated at all. However, some countries may wish to include these trees in the census. In such cases, they should be reported separately.

## PRODUCTION

In reporting crop production, countries are urged to indicate the stage of processing to which the figures relate. Production should be reported as closely as possible to the harvest stage, i.e., before further processing.

#### Crops cultivated simultaneously on the same land

Different crops may be cultivated simultaneously on the same piece of land in such a way that it is difficult to ascertain which part of the total area is to be ascribed to each crop. In reporting area under crops it is suggested that whenever possible an effort should be made to estimate the area which each crop would have covered if it had been grown alone. There are two main types of such combinations of crops: i.e., mixed and associated crops. Mixed crops refer either to temporary crops grown simultaneously in the same field or to different permanent crops grown together. Associated crops refer to a combination of both temporary and permanent crops. For land utilization purposes in the case of associated crops, when possible the total physical area of the field occupied by these crops should be divided between the two groups: temporary and permanent, in proportion to the coverage of the area by each of the component groups. Otherwise, the whole area should be attributed to the group which the holder considers as being the more important. For estimation of area of individual crops, in the case of both mixed and associated crops, different methods to arrive at the single crop equivalent area can be used, such as quantities of seed used, densities of plants in crop mixtures as compared with the density in pure stands, eye estimates of the different areas occupied by component crops, number of trees per unit of area, etc.

The allocation of area in the case of mixed and associated crops could be made either in the field or at the central office. In the latter case, the enumerators should collect in the census all elements required for making this conversion.

Crops which are grown and harvested as mixtures, (e.g., mixed grains, grasses grown for hay, etc.) should be treated as a single crop and no attempt should be made to determine the area of each component crop.

#### Area sown more than once in the year

Several crops may be grown and harvested successively on the same land several times during the agricultural year. Countries having more than one crop season of importance are urged to report under crop area the aggregate area which may result from either successive plantings or successive sowings on the same physical area during the specified period of time to which the census may refer. In the case of successive pickings from the same crop, however, the area should be reported only once.

### CROPS YIELDING MORE THAN ONE PRODUCT

Where the same crop yields more than one product, as is the case for hemp, flax, or cotton (fiber and seed), and data on production are collected through the census for the different products obtained, the area should be given under the principal product and repeated under the secondary product, but in such a way that there is no risk of duplication in the area totals, e.g., including the area figures under the secondary product within brackets (...).

#### CROP AREA UNDER IRRIGATION

Irrigated area refers to the area purposively supplied with water other than rain (but including flooding of the land by river water) during the year of reference of the census.

## Tabulation plans

The following tables are submitted to indicate the comparable data which are desired on this section of the census from the countries participating in the 1970 World Census of Agriculture. The items printed in **bold type** are those on which information is required from all countries. From the items printed in ordinary type, countries may select those which are suitable to their conditions.

Tables 2.1, 2.2 and 2.3 refer to all holdings with land. Countries which are in a position to do so are requested to tabulate the same tables also according to:

- (a) single form of tenure of the holding, i.e., separately for holdings owned by the holder or in ownerlike possession, for holdings rented, etc.;
- (b) type of the holding, i.e., separately for holdings producing mainly for home consumption, for holdings producing mainly for sale (total), for crop holdings, etc.

Table 2.1. - Area and production of (State name of crop on arable land), by size of holding 1

	Niverbase of helders are server	Area of	crop re	ported 2	Quantity produced
Size class	Number of holdings reporting	Total ³	Irri- gated	Not irri-	
All holdings with land  Holdings under 0.5 hectare under 0.1 hectare 0.1 hectare and under 0.2 0.2 hectare and under 0.5  Holdings 0.5 hectare and over 0.5 hectare and under 1 1 hectare and under 2 2 hectares and under 3 3 hectares and under 4 4 hectares and under 5 5 hectares and under 5 0.0 hectares and under 10 10 hectares and under 20 20 hectares and under 50 50 hectares and under 50 50 hectares and under 500 100 hectares and under 500 100 hectares and under 1,000 1,000 hectares and under 2,500 2,500 hectares and over	(State name of crop on arable land)	Total ³	gated	irri- gated	(unit of measure)

¹ A similar table should be prepared for each of the crops on "Arable land" (Major group 21) listed in the Program. Number of holdings reporting refers to the crop included in the table. – ² Indicate whether the area reported in the table is "Harvested," "Sown" or "Under crop at the census date," and also whether the data refer to net or gross area. – ³ In cases where a country also collects in the census information on the area of the crop treated with inorganic fertilizers, this column should be subdivided into "Total" and "Of which area treated with inorganic fertilizers."

Table 2.2. - (State name of permanent crop), area and number of trees and vines, and production 1

Size class  Size class  Number of trees or vines  Number of loldings with land  Holdings with land  Holdings under 0.5 hectare under 0.1 hectare and under 0.2 0.2 hectare and under 0.5 1 hectare and under 0.5 2 hectares and under 3 3 hectares and under 3 3 hectares and under 3 4 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 5 hectares and under 6 7 Trees or or vines 7 Trees or or vines 8 Trees or or vines 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total of pro-ductive age 9 Total		Num-			Comp	act plant	ations			Scatt trees o		
All holdings with land  Holdings under 0.5 hectare under 0.5 hectare and under 0.5 0.5 hectare and under 0.5 1 hectares and under 1 1 hectares and under 2 2 hectares and under 3 3 hectares and under 1 1 hectares and under 1 1 hectares and under 1 1 hectares and under 1 1 hectares and under 1 1 hectares and under 1 1 hectares and under 3 3 hectares and under 1 1 hectares and under 3 5 hectares and under 10 10 hectares and under 10 10 hectares and under 10 10 hectares and under 10 10 hectares and under 10 10 hectares and under 10 10 hectares and under 10 10 hectares and under 10 10 hectares and under 10 10 hectares and under 10 10 hectares and under 10 10 hectares and under 10 10 hectares and under 10 10 hectares and under 10 10 hectares and under 10 10 hectares and under 10 10 hectares and under 100 10 hectares and under 100 10 hectares and under 100 10 hectares and under 100 10 hectares and under 100 10 hectares and under 100 10 hectares and under 100 10 hectares and under 100		hold- ings			Area		Nun					tity
All holdings with land  Holdings under 0.5 hectare under 0.1 hectare 0.1 hectare and under 0.2 0.2 hectare and under 0.5  Holdings 0.5 hectare and over 0.5 hectare and under 1 1 hectare and under 2 2 hectares and under 3 3 hectares and under 4 4 hectares and under 5 5 hectares and under 10 10 hectares and under 20 20 hectares and under 50 50 hectares and under 100	Size class	(State name of per- ma- nent	ing Num- ber of (State hold- name ings of per- ma- nent ling	Total	or vines of pro- ductive	or vines of non- pro- ductive	Total	ductive	pro- ductive	ber of hold-ings report- vines	(unit of meas-	
under 0.1 hectare  0.1 hectare and under 0.2  0.2 hectare and under 0.5  Holdings 0.5 hectare and over  0.5 hectare and under 1  1 hectare and under 2  2 hectares and under 3  3 hectares and under 4  4 hectares and under 5  5 hectares and under 10  10 hectares and under 20  20 hectares and under 50  50 hectares and under 100												
4 hectares and under 5. 5 hectares and under 10. 10 hectares and under 20. 20 hectares and under 50. 50 hectares and under 100.	under 0.1 hectare  0.1 hectare and under 0.2  0.2 hectare and under 0.5  Holdings 0.5 hectare and over  0.5 hectare and under 1  1 hectare and under 2											
200 hectares and under 500	4 hectares and under 5 5 hectares and under 10 10 hectares and under 20 20 hectares and under 50 50 hectares and under 100 100 hectares and under 200 200 hectares and under 500 500 hectares and under 500 1,000 hectares and under 1,000 1,000 hectares and under 2,500 2,500 hectares and over											

A similar table should be prepared for each of the "Permanent crops" (Major group 23) listed in the Program.

Table 2.3. - Holdings reporting 1 (State name of crop), by area harvested 2 and by size of holding

	A.II		Numl	per of holding	s reporting (	State name o	f crop)	
Size class	All holdings reporting	Under 1 hectare	1 hectare and under 2	2 hectares and under 3	3 hectares and under 5	5 hectares and under 10	10 hectares and under 20	20 hectares and over ³
All holdings with land			,		:			
Holdings under 0.5 hectare								
under 0.1 hectare								
0.2 hectare and under 0.5								
Holdings 0.5 hectare and over					ļ			
0.5 hectare and under 1		1						
1 hectare and under 2								
2 hectares and under 3						Alle	- Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Cont	
3 hectares and under 4								
5 hectares and under 10								1.
10 hectares and under 20					-	1		
20 hectares and under 50						:		
50 hectares and under 100							1	
100 hectares and under 200								
200 hectares and under 500								
500 hectares and under 1,000					1			
1,000 hectares and under 2,500								
2,500 hectares and over			•					
Holdings of size not reported					Acquirement			

¹ This table can be repeated for each crop, or at least for the most important ones. - ² Some countries report area "Sown" or "Under crop at the census date" rather than area "Harvested." In that case the table should so read. - ³ Countries may extend the classification of area reported under each crop to suit their needs.

## Section 3 - LIVESTOCK AND POULTRY

## Introduction

This section deals with the number of livestock and poultry on agricultural holdings and their distribution by species, age, sex and purpose.

The proposals in this section are essentially the same as those of the 1960 Program. A few items have been added and the elaborate classification of horses by age has been deleted. The classification of cattle by use or purpose has been changed somewhat and items on beehives and colonies have been transferred to the Expanded List.

Under tabulation plans, some tables are suggested for the classification of livestock and poultry by type of holding.

## Proposed census items

The following is the list of items for which it is suggested that countries participating in the 1970 World Census of Agriculture produce comparable information. The Short List of items for which information is desired from all countries is printed in **bold type**. The Expanded List includes the items printed in bold type as well as those printed in ordinary type. Countries may select from the items printed in ordinary type those which are suitable to their conditions.

## SECTION 3 — LIVESTOCK AND POULTRY

Major			Number	
group Group		Total	Male	Female
31.	HORSES, MULES, ASSES, AND CAMELS			
31.1	Horses (all ages)		xxx	xxx
	31.11 Horses under 3 years of age		xxx	xxx
	31.12 Horses 3 years of age and over		xxx	xxx
31.2	Mules (all ages)		xxx	xxx
31.3	Asses (all ages)		xxx	xxx
31.4	i i		xxx	xxx
	31.41 Camels under 4 years of age		xxx	XXX
	31.42 Camels 4 years of age and over		xxx	xxx
	iši ir laikininki eta Šejanaja, alaksi kalli			
	ora Porto Para la Porta de Porto Para la Porto Para la la Companya de Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la Porto Para la P			
32.	CATTLE ¹			
32.1	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	• • •		•••
	32.11 Cattle under 2 years of age		•••	•••
	(a) Calves under 1 year of age	• • • •	•••	•••
	(b) Young stock 1 year of age and under 2 years	• • •	• • • •	• • •
	32.12 Cattle 2 years of age and over (including males whether			
	castrated or not)		•••	•••
32.2	Cattle (all ages), classified by use or purpose			
	32.21 Cows in productive age		xxx	XXX
	(a) Kept for milk production	•••	xxx	XXX
	(b) Kept for meat production	•••	xxx	XXX
	(c) Kept for draft	• • •	XXX	XXX
	(d) Kept for mixed purposes	•••	xxx	XXX

¹ Some countries may wish to inquire into milk production under "Cattle and buffaloes."

Majo					Number	
grou	Group Group			Total	Male	Female
32.	32.2		살로 발로 보는 경우 하는 사람들은 말을 모든 것입니다.			
		32.22	Heifers in calf		V/V/V	
		32.22	(a) Raised for milk production		XXX	xxx xxx
			(b) Raised for meat production		XXX	XXX
			(c) Raised for draft and mixed purposes		xxx	XXX
		32.23	Bulls used for service			
			· · · · · · · · · · · · · · · · · · ·		xxx	xxx
		32.24	Other cattle	• • • •	xxx	xxx
			(a) Calves for breeding	•••	xxx	xxx
			(b) Calves for meat production	•••	XXX	XXX
			(c) Cull cows for fattening	• • • •	XXX	XXX
			(d) Other adult animals for meat (including steers and			
			bulls)	•••	XXX	XXX
			(e) Intended primarily for use as draft oxen	•••	XXX	XXX
			(f) Others			
				· . ·		
33.		BOH	ALOES ¹			
	33.1	Ruffal	oes (all ages), classified by age and sex			
	33.1		· · · · · · · · · · · · · · · · · · ·			•••
		33.11	Buffaloes under 3 years of age	•••	• • •	•••
			(a) Calves under 1 year of age		• • •	•••
			(b) Young buffaloes 1 year of age and under 3 years	•••	• • •	
		33.12	Buffaloes 3 years of age and over			
	33.2	Buffalo	pes (all ages), classified by use or purpose			
		33.21	Buffalo cows		xxx	xxx
			(a) Kept primarily for milk production		xxx	XXX
			(b) Others		xxx	XXX
		33.22	Heifers in calf		xxx	xxx
		33.22	(a) Raised primarily for milk production	•••	xxx	XXX
			(b) Others	• • •	XXX	XXX
		33.29				
		33.47	Other buffaloes	•••	XXX	XXX
			(a) Intended primarily as draft animals	•••	XXX	XXX
			(b) Others	•••	xxx	xxx
				on a graduate to the		

¹ Some countries may wish to inquire into milk production under "Cattle and buffaloes."

Majo			Number
• • • •	Group		
34.		SHEEP I I I I I I I I I I I I I I I I I I	
	34.1	Sheep (all ages)	
		34.11 Lambs under 1 year of age	
		(a) Male (whether castrated or not)	
	24.2	(b) Female	
	37.2	Sheep (including famos) chipped during the year	Quantity
	24.2	Weel (total avaduation in the year indicating whether in the	
	34.3	Wool (total production in the year, indicating whether in the grease or washed)	
			Number
35.		GOATS	
	35.1	Goats (all ages)	
		35.11 Goats under 1 year of age	
		35.12 Goats 1 year of age and over	
		(b) Female	
	35.2	Goats clipped during the year	
	35.3	Goat hair and mohair (total production in the year, indicating	Quantity
	33.3	whether in the grease or washed)	
			Number
36.		PIGS	
	36.1	Pigs (all ages)	
		36.11 Pigs under 6 months of age	
		36.12 Pigs 6 months of age and over	
		and over	
		(b) All other pigs 6 months of age and over (Include sows for fattening)	
		Sows for fattering)	
37.		POULTRY AND RABBITS	
<i>31</i> .	37.1	Hens, cocks, pullets, and chicks (total)	
	37.1	37.11 Cockerels, pullets, and chicks under 6 months of age	
		37.12 Cocks, capons, hens, and pullets 6 months of age and over	
	37.2	Laying hens (of those already reported under 37.12)	•••
	37.3 37.4	Ducks and ducklings (all ages)	
	37.5	Geese and goslings (all ages)	
		Guinea fowls (all ages)	
	37.7	Pigeons (all ages)	
	37.8	Rabbits and hares kept in captivity (all ages)	
38.		OTHER DOMESTICATED ANIMALS	
	38.1	Bees Committee and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	
		38.11 Beehives and colonies	Quantity
		38.12 Honey (amount obtained in the year from beehives and	
		colonies reported under 38.11)	
		colonies reported under 38.11)	
	38.2	Silkworms	
		38.21 Silkworm eggs placed in incubation	
			Number
	38.3	Llamas, guanacos, alpacas, and vicuñas (all ages)	
	38.4	Fur-bearing animals (reared in captivity for fur or skin)	
		38.41 Foxes (total)	
		38.49 Other fur-bearing animals	•••
	38.9	Other domesticated animals not included elsewhere (specify: reindeers, zebras, ostriches, elephants, etc.)	
		remacers, reoras, commence, crephants, etc.,,	

## Definition of census items and explanatory notes

#### **C**OVERAGE

It is proposed that the census include all livestock present on each holding, irrespective of its ownership, plus that owned by the holder which at the time of the enumeration is in transit or temporarily away from the holding to which it belongs but not on other agricultural holdings. Livestock found on communal grazing land at the time of the enumeration should be reported on the holding of the owner. Where livestock is associated with more than one agricultural holding, it should be enumerated only in the holding where it is kept during the night. The census should, in principle, be restricted to animals used mainly for agricultural purposes.

Beehives and colonies should be enumerated on the holding of their owner, regardless of the place where they are located at the date of the census.

#### TIME REFERENCE

Information on number of livestock and poultry should refer to a specific date, usually the day of enumeration or some other day close to this. Data on production of livestock products (Groups 34.3, 35.3, 38.12, 38.13 and 38.22) should refer to a specific year, such as the last agricultural year or the year preceding the date of enumeration. The same reference period should be selected for data on number of sheep clipped (Group 34.2), on number of goats clipped (Group 35.2) and on quantity of silkworm eggs placed in incubation (Group 38.21). It should also coincide with the time reference selected for recording crop production in Section 2.

#### Age of Livestock

The subdivision by age proposed for various kinds of livestock is intended for the separation of

data on mature animals from those on young animals. Keeping this in mind, countries where the age of maturity of some kind of livestock or poultry is higher than, or lower than, that indicated in the "Proposed census items," should change the age classes accordingly, e.g., if in a country the age of maturity of cattle is 3 years, items 32.11 and 32.12 should include "3" instead of "2." If, in a country, the age of maturity of cocks, capons, hens and pullets is 4 months, items 37.11 and 37.12 should include "4" instead of "6."

#### SHEEP OR GOATS CLIPPED

Sheep (including lambs) or goats clipped more than once during the year should be reported only once.

## Tabulation plans

The following tables are submitted to indicate the comparable data which are desired in this section from the countries participating in the 1970 World Census of Agriculture. The items printed in **bold type** are those on which information is desired from all countries. From the items printed in ordinary type, countries may select those suitable to their conditions. Many countries may wish to classify all livestock by size of holding as part of the minimum program for tabulation, while countries in other regions may classify only certain species of livestock by these items, depending upon the role of the particular species in their agriculture.

The tables in the section relate to all agricultural holdings. Countries which are in a position to do so are requested to tabulate the data also by type of holding, i.e., separately for holdings mainly for home consumption, separately for holdings producing mainly for sale, separately for crops holdings, etc.

Table 3.1. - Number of horses, mules, and asses, by size of holding 1

		Но	rses		м	ıles	As	ses
Size class	Number of holdings reporting horses	Total number of horses reported	Number of horses under 3 years of age	Number of horses 3 years of age and over	Number of holdings reporting mules	Number of mules reported	Number of holdings reporting asses	Number of asses reported
All holdings with and without land		:						
Holdings without land								
Holdings under 0.5 hectare								
under 0.1 hectare								
0.1 hectare and under 0.2					·			
0.2 hectare and under 0.5	-							
Holdings 0.5 hectare and over		1.						
0.5 hectare and under 1						1		
1 hectare and under 2								
3 hectares and under 4	-	4						
4 hectares and under 5							1	
5 hectares and under 10								
10 hectares and under 20						:		14
20 hectares and under 50								
100 hectares and under 200								
200 hectares and under 500								- 1
500 hectares and under 1,000							1.	
1,000 hectares and under 2,500								
2,500 hectares and over								
Holdings of size not reported								
			İ		1		l	

¹ Countries which are in a position to do so are requested to tabulate these data according to the form of tenure of the holding.

Table 3.2. - Number of cattle, by size of holding, age, and sex 1

Size class  All holdings with and without land  Holdings without land	Num- ber of hold- ings re- port- ing	Num- ber of head	Male	Fe- male	Male	Fe- male	Male	Fe-		
All holdings with and without land		I				maie		male	Male	Fe- male
Holdings without land										
Holdings without land										
Holdings under 0.5 hectare		A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CALLES AND A CAL								
Holdings 0.5 hectare and over										
0.5 hectare and under 1				į						
1 hectare and under 2 2 hectares and under 3 3 hectares and under 4 4 hectares and under 5 5 hectares and under 10 10 hectares and under 50 50 hectares and under 100 100 hectares and under 200 200 hectares and under 200 200 hectares and under 500 500 hectares and under 500 500 hectares and under 500 500 hectares and under 500 500 hectares and under 2,000 1,000 hectares and under 2,500 2,500 hectares and over										

^{*}For countries where the age of maturity is different from 2 years, the figure "2" should be changed accordingly.

¹ Countries which are in a position to do so are requested to tabulate these data according to the form of tenure of the holding.

Table 3.3. - Number of cattle, classified by use or purpose, by size of holding

Size class  Size class		 			-	-						***							
Size class Size class		200			Kept for	for			_	Raised for				Calves for	. for			Intend-	
All holdings with and without land		num- ber of head re- ported	Total	Milk pro- duction	Meat pro- duction	Draft	Mixed pur- poses	Total	Milk pro- duction	Meat pro- duction	Draft and mixed pur- poses	for serv-	Total	Breed- ing	Meat pro- duction	Cull cows for fatten- ing	Other adult animals for meat	ed pri- marily for use as draft oxen	Others
	:						- 15											٠.	
Holdings without land	:		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		*****	1													
Holdings under 0.5 hectare	: :						1												
0.1 hectare and under 0.2	: :	: .			:	: :													
Holdings 0.5 hectare and over	:					- 1													
0.5 hectare and under 1	:::																		
2 hectares and under 3	: :						1												
4 hectares and under 5	::	:																	
10 hectares and under 20	:::			:															
hectares and																			
500 hectares and under 1,000	: :																		
2,500 hectares and over	:									N.									
Holdings of size not reported	:																		

Table 3.4. - Number of holdings reporting specified number of cattle, by size of holding

				Nun	ber of h	oldings re	eporting o	attle	NA E		
Size class	Total	1 head	2 head	3 to 4 head	5 to 9 head	10 to 19 head	20 to 49 head	50 to 99 head	100 to 199 head	200 to 499 head	500 head and over
All holdings with and without land											
Holdings without land											
Holdings under 0.5 hectare under 0.1 hectare 0.1 hectare and under 0.2 0.2 hectare and under 0.5						A CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA					
Holdings 0.5 hectare and over 0.5 hectare and under 1 1 hectare and under 2						The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s					
2 hectares and under 3 3 hectares and under 4 4 hectares and under 5 5 hectares and under 10						TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA TANKA					
10 hectares and under 10.						American de contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra de la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del la contra del	:				
100 hectares and under 200											
1,000 hectares and under 2,500 2,500 hectares and over Holdings of size not reported						P * + 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4					

Table 3.5. - Number of buffaloes, by size of holding, age and sex 1

	To buffa (all :	loes	Numl buffa unde years	r 3*	Numb calves 1 year	under	Numb buffa 1 year and un	of age	buff: 3* year	ber of aloes s of age over
Size class	Number of hold-ings re-port-ing	Num- ber of head	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male
										***************************************
All holdings with and without land								:		
Holdings without land										
Holdings under 0.5 hectare								1		
under 0.1 hectare										
0.1 hectare and under 0.2										
0.2 hectare and under 0.5										
Holdings 0.5 hectare and over										
0.5 hectare and under 1										
1 hectare and under 2										
2 hectares and under 3										
3 hectares and under 4										
4 hectares and under 5										
5 hectares and under 10										
10 hectares and under 20										
20 hectares and under 50										
50 hectares and under 100										
200 hectares and under 500										
500 hectares and under 1,000				1						
1,000 hectares and under 2,500										
2,500 hectares and over										
Holdings of size not reported										

^{*} For countries where the age of maturity is different from 3 years the figure "3" should be changed accordingly.

² Countries which are in a position to do so are requested to tabulate these data according to the form of tenure of the holding.

Table 3.6. - Number of buffaloes, classified by use and purpose, by size of holding

Size class Total number of head reported  All holdings with and without land	Total	Kept primarily for milk pro- duction	Others	Raised primarily for milk pro- duction	Others	Total	Intended prima- rily as draft animals	Others
foldings without land								
			ł				1 1	
loldings under 0.5 hectare								
0.1 hectare and under 0.2	İ							
0.2 hectare and under 0.5								
oldings 0.5 hectare and over								
0.5 hectare and under 1								
1 hectare and under 2								
2 hectares and under 3								
3 hectares and under 4								
4 hectares and under 5								
5 hectares and under 10								
10 hectares and under 20								
20 hectares and under 50							-	
50 hectares and under 100								
100 hectares and under 200								
200 hectares and under 500								
500 hectares and under 1,000								
,000 hectares and under 2,500		1						
,500 hectares and over								
Holdings of size not reported								

Table 3.7. - Number of holdings reporting specified number of buffaloes, by size of holding

				Numb	er of ho	ldings rep	orting bu	ffaloes			
Size class	Total	1 head	2 head	3 to 4 head	5 to 9 head	10 to 19 head	20 to 49 head	50 to 99 head	100 to 199 head	200 to 499 head	500 head and over
		<u>.                                      </u>									
All holdings with and without land											
Holdings without land								9			
Holdings under 0.5 hectare						aliana.					
under 0.1 hectare											
0.1 hectare and under 0.2											
0.2 hectare and under 0.5											
Holdings 0.5 hectare and over					1						
0.5 hectare and under 1											
1 hectare and under 2											
2 hectares and under 3											
3 hectares and under 4	j				-						
4 hectares and under 5										İ	
5 hectares and under 10											
10 hectares and under 20											
20 hectares and under 50											
50 hectares and under 100											
100 hectares and under 200											į.
200 hectares and under 500											
500 hectares and under 1,000											1
1,000 hectares and under 2,500										1	
2,500 hectares and over					1						-
Holdings of size not reported											

Table 3.8. - Number of sheep and production of wool, by size of holding 1

	Number	Total	Number		er of sheep 1 age and ove		W	ool
Size class	of holdings reporting	number of sheep	of lambs under 1 year of				Number of sheep	Production
	sheep	reported	age	Total	Male	Female	clipped during the year	(unit of measure)
			1. 1					
All holdings with and without land						1.		
						·		
Holdings without land			.1	1	I			
Holdings under 0.5 hectare				1	l	i		1
under 0.1 hectare								
0.1 hectare and under 0.2				. 1	1			
0.2 hectare and under 0.5								
o.z nectare and under o.s	į		1.					
Holdings 0.5 hectare and over			:	:	1			1
0.5 hectare and under 1								
1 hectare and under 2				-				
2 hectares and under 3								
3 hectares and under 4				1				
4 hectares and under 5		1		l				
5 hectares and under 10				1	1			
10 hectares and under 20				1	1			
20 hectares and under 50								
50 hectares and under 100				Į				
100 hectares and under 200								
200 hectares and under 500				: 1				
500 hectares and under 1,000	:		1					1
1,000 hectares and under 2,500								
2.500 hectares and over					İ			
Man 110000100 0110 0101 11111111111111111	}							
Holdings of size not reported								

¹ Countries which are in a position to do so are requested to tabulate these data according to the form of tenure of the holding.

Table 3.9. - Number of goats and production of goat hair and mohair, by size of holding 1

	of holdings	Total	Number		ber of goats 1 age and ove		Goat hair	and mohair
Size class		number of goats reported	of goats under 1 year of age	Total	Male	Female	Number of goats clipped	Production
			J. <b>L</b>	, ota,	, raic	remate	during the year	(unit of measure)
All holdings with and without land								
Holdings without land								
Holdings under 0.5 hectare								
under 0.1 hectare	***************************************							
0.1 hectare and under 0.2	and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th							
0.2 hectare and under 0.5								
Holdings 0.5 hectare and over								
0.5 hectare and under 1								
1 hectare and under 2								
2 hectares and under 3								
3 hectares and under 4								-
4 hectares and under 5				1.				
10 hectares and under 10								
20 hectares and under 50								
50 hectares and under 100					and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t			
100 hectares and under 200								
200 hectares and under 500								
500 hectares and under 1,000		į						
1,000 hectares and under 2,500								
2,500 hectares and over								
Holdings of size not reported								

¹ Countries which are in a position to do so are requested to tabulate these data according to the form of tenure of the holding.

Table 3.10. - Number of pigs, by size of holding 1

Size class	Number of	Total number	Number of pigs	of age a	gs 6* months nd over
	holdings reporting pigs	of pigs reported	under 6* months of age	Sows and gilts for breeding	All other pigs
		1 11			
Il holdings with and without land					
oldings without land					
oldings under 0.5 hectare					
under 0.1 hectare					
0.1 hectare and under 0.2					
0.2 hectare and under 0.5					
-140 OF t					
oldings 0.5 hectare and over					
0.5 hectare and under 1					
1 hectare and under 2					
2 hectares and under 3	1 2 3			1 1 1	
3 hectares and under 4					
4 hectares and under 5					
5 hectares and under 10					
10 hectares and under 20		<b>1</b>			
20 hectares and under 50					
50 hectares and under 100					
100 hectares and under 200	1 1 1 1				
200 hectares and under 500					
500 hectares and under 1.000					
000 hectares and under 2,500					
500 hectares and over				4 to 5 to 5 to 5 to 5 to 5 to 5 to 5 to	
oldings of size not reported	No.				

^{*} For countries where the age of maturity is different from 6 months the figure "6" should be changed accordingly.

¹ Countries which are in a position to do so are requested to tabulate these data according to the form of tenure of the holding.

Table 3.11. - Number of holdings reporting specified number of pigs, by size of holding

					Nur	mber of l	noldings r	eporting	pigs			. :
	Size class	Total	1 head	2 head	3 to 4 head	5 to 9 head	10 to 19 head	20 to 49 head	50 to 99 head	100 to 199 head	200 to 499 head	500 head and over
All holdings with	and without land											
	land			an and an analysis of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco								
Holdings under 0.	5 hectare											
under 0.1 hectai	re											
0.1 hectare and	under 0.2											
0.2 hectare and	under 0.5											
11-11: 05.1												
_	re and over											
	d under 1											
	d under 2				OAL PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O		1					
	nd under 4											
	nd under 5											·
	nd under 10											
	nd under 20			-								
	nd under 50							l				
50 hectares a	nd under 100											
100 hectares a	nd under 200											
200 hectares a	nd under 500											
500 hectares a	nd under 1,000	1										
1,000 hectares a	nd under 2,500											
2,500 hectares a	nd over											
Holdings of size n	ot reported									a de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la constanta de la consta		

Table 3.12. - Number of poultry and rabbits, by size of holding 1

					Num	ber of h	ead repo	rted			
	Num- ber of hold-		Chick	ens ⁹					2		
Size class	ings re- port-	-	Under 6*	6* months of age and over		Ducks	Geese	Tur- keys	Guinea fowls	Pigeons	Rabbits and hares
	ing	Total	months of age	Total	Laying hens						
All holdings with and without land		1.									
Holdings without land											1.1
Holdings under 0.5 hectare under 0.1 hectare 0.1 hectare and under 0.2 0.2 hectare and under 0.5											
Holdings 0.5 hectare and over		Territoria (1994)									٠.
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^{*} For countries where the age of maturity is different from 6 months the figure "6" should be changed accordingly.

¹ Countries which are in a position to do so are requested to tabulate these data according to the form of tenure of the holding. - ² Hens, cocks, pullets and chicks.

Table 3.13. - Other domesticated animals

Camels	
Number of holdings reporting	
Number of camels under 4 years of age	
Number of camels 4 years of age and over	
Llamas, guanacos, alpacas and vicuñas	
Number of holdings reporting	
Number of head reported	
Fur-bearing animals	
(a) Foxes	
(4)	
Number of holdings reporting	• • •
Number of foxes reported	***
(b) Mink	
Number of holdings reporting	•••
Number of mink reported	***
(c) Other fur-bearing animals	
Number of holdings reporting	•••
Number of head reported	***
Bees	
Number of holdings reporting beehives	
Total number of beehives	
Quantity of honey produced	.,,
Quantity of Hone, produced	(unit of measure)
Quantity of beeswax produced	
	(unit of measure)
Silkworms	
Number of holdings reporting silkworms	• • •
Quantity of eggs placed in incubation	(unit of manuary
O	(unit of measure)
Quantity of fresh cocoons produced	(unit of measure)
	(2

Table 3.14. - Number of holdings without any cattle, buffaloes, sheep, goats, pigs, poultry or rabbits, by size of holding

Size class	Number of holdings reporting
All holdings with and without land	
Holdings without land	
Holdings under 0.5 hectare	
Holdings 0.5 hectare and over  0.5 hectare and under 1  1 hectare and under 2  2 hectares and under 3  3 hectares and under 4  4 hectares and under 5  5 hectares and under 10  10 hectares and under 20  20 hectares and under 50  50 hectares and under 100  100 hectares and under 200  200 hectares and under 200  100 hectares and under 200  200 hectares and under 500  500 hectares and under 500  500 hectares and under 500  500 hectares and under 500  500 hectares and under 500  1,000 hectares and under 1,000  1,000 hectares and under 2,500  2,500 hectares and over	

## Section 4 - EMPLOYMENT IN AGRICULTURE

#### Introduction

An account of the agriculture of a country will be concerned with the extent to which agriculture is oriented to home consumption or to the market; the extent to which agriculture is carried on in combination with other activities, and the extent to which the work in agriculture is carried on by the household of the holders or by hired agricultural workers. There is also a need for information on the labor input in agriculture, both by members of the holder's household and by hired workers. Inquiries concerning the type of holding are proposed in Section 0; those relating to the extent to which agriculture is carried on in combination with other activities are included in Section 10. The other subjects are dealt with in this section.

This section of the present Program differs from that of 1960 principally in respect of the following;

- 1. Introduction of a new topic concerning the extent to which the agricultural work on the holding is carried on by the holder's household or by persons working for pay (hired workers).
- 2. Addition of new items on the number of manhours worked on the holding by the holder and unpaid members of his household, and on the number of man-hours worked off the holding by these persons.
- 3. Extension of the age classes of persons employed in agricultural work to three instead of only two.
- 4. A suggestion to secure, whenever possible, information on the extent to which the households of the holders depend on the holding for their support.

With regard to (1), the main reason for introducing this topic is the difficulty of collecting information on labor input in agriculture. Employment in agriculture is subject to large seasonal variations. Adequate information should refer to a whole year, but because of the difficulty of remembering facts over a long period of time, it is necessary to limit the inquiry to a much shorter period, like a week. This is not a very satisfactory solution because the week which precedes the enumeration day may not be a typical week. Therefore, adequate information has

to be collected through a series of sample surveys conducted at different times during the agricultural year, and related to the census. Some countries may, however, be unable to perform such successive surveys. In view of this, the 1970 Program requires all countries to collect more simple information on the important subject of employment in agriculture, restricting it to a few indications of the degree to which agricultural work on the holding is dependent on hired workers. Some countries may also ask for the total amount of money paid to persons working for pay on the holding during the past agricultural year.

With regard to (2), the 1960 Program requested information only on the total number of man-days worked by these persons. Because of the prevalence in several countries of part-time workers, it is preferable to express their volume of work in the number of man-hours instead of number of man-days worked. Moreover, data on number of man-hours worked on the holding by the holder and unpaid members of his household give an important indication of the extent to which these persons participate in the agricultural work on the holding. It is also very useful to collect information on the number of man-hours worked by the same persons off the holding. All these proposals are included only in the Expanded List.

With regard to (3), it has been observed in some developed countries that the proportion of old people among the persons employed in agriculture steadily increases. In order to arrive at a clearer conception of this problem, the present Program subdivided the age class 15 years of age and over of the 1960 Program into two classes: 15 to 64 years of age and 65 years of age and over.

With regard to (4), it is advisable that countries which are able to do so secure information on the extent to which the households of holders depend on the holding for their support. For this purpose, inquiries should be included showing:

- (a) holders' households which are dependent entirely on the holding;
- (b) holders' households which derive the greater portion of their income from the holding but

which have some members securing income from other sources, including:

- other activities carried out in the same household enterprise;
- wage work on other agricultural holdings;
- wage work or other employment in non-(iii) agricultural activities carried out outside the same household enterprise;
- holders' households which have the majority of their income from sources other than the work on the holding, including:
  - other activities carried out in the same household enterprise;
  - wage work on other agricultural holdings; (ii)
  - (iii) wage work or other employment carried out outside the same household enterprise.

It is emphasized that this information can be collected in some countries only and that caution should be taken to frame the questions on this subject according to the conditions in the country. For these reasons they are not included in the "Proposed census items."

## Proposed census items

The following is the list of items for which it is suggested that countries participating in the 1970 World Census of Agriculture produce comparable information. The Short List of items for which information is desired from all countries is printed in **bold type**. The Expanded List includes the items printed in bold type as well as those printed in ordinary type. Countries may select from the items printed in ordinary type those suitable to their conditions.

## Maj group Group Major

#### SECTION 4 - EMPLOYMENT IN AGRICULTURE

- EXTENT TO WHICH THE AGRICULTURAL WORK ON THE OLDING IS CARRIED 41. ON BY THE HOLDER'S HOUSEHOLD OR BY PERSONS WORKING FOR PAY (check the appropriate box of 41.1, 41.2 or 41.3 below)
  - All agricultural work on the holding is done by the members of the holder's household (including work exchanged with others)
  - 41.2 The bulk of agricultural work on the holding is done by the members of the holder's household, but persons working for pay are also employed  $\Box$  $\Box$
  - 41.3 The bulk of agricultural work on the holding is done by persons working for pay
  - 41.4 Total amount of money paid to persons working for pay on the holding during the last agricultural year (with proper recognition of payment in kind)

Amount (indicate currency unit)

					Male			Female	
<b>M</b> ajo grou			Total	Under 15 years of age	15 to 64 years of age	65 years of age and over	Under 15 years of age	15 to 64 years of age	65 years of age and over
42.	EMPLOYMENT WORK ON THE CENSUS	THE HOLDING DURING							
		ersons employed in agrion the holding during the							
		and unpaid members of his							
		old ¹							
		rmanent workers							• • • •
		mporary workers	• • •		• • •	• • • •	• • •	• • • •	• • • • • • • • • • • • • • • • • • • •
			• • •		•••		• • • •	• • •	
		eants in co-operative, col- and communal holdings ¹							
		rmanent workers					• • • •	• • • •	•••
							• • • •	• • •	• • • •
		mporary workers					• • • •		
		ccasional workers						• • • •	
		s working for pay on the				1			1
		1, 2							
	(a) Pe	rmanent workers							
	(b) Te	mporary workers							
		ccasional workers			1				

¹ Items 42.11, 42.12 and 42.13 are mutually exclusive, - ² Including the hired manager.

					Male			Female	1000
Majo grou			Total	Under 15 years of age	15 to 64 years of age	65 years of age and over	Under 15 years of age	15 to 64 years of age	65 years of age and over
42.									1.1.
	42.2	Total number of man-hours worked on the holding during the census week by the holder and unpaid members of his household	•••	• • •	•••		•••	•••	
	42.3	Total number of man-hours worked on the holding during the census week by other persons, including participants in co-operative, collective and communal holdings	• • •						
	42.4	Total number of man-hours worked off the holding during the census week by the persons reported in 42.11	• • •	•••	• • •	:		•••	•••
43.		EMPLOYMENT IN AGRICULTURAL WORK ON THE HOLDING AT DIFFERENT SEASONS (To be recorded by successive sample surveys of agricultural holdings during the agricultural year)							
	43.1	Number of persons employed in agricultural work on the holding during the survey week	• • •	•••	•••	•••		•••	•••
		43.11 Holder and unpaid members of his household ³ (a) as of	•••			•••	•••		•••
		43.12 Participants in co-operative, collective, and communal holdings ³ (a) as of				• • • • • • • • • • • • • • • • • • • •			•••
43.	43.1	43.13 Persons working for pay on the holding 2, 3 (a) as of	• • •		•••		•••	•••	
	43.2	Total number of man-hours worked on the holding during the survey week by the holder and unpaid members of his household  (a) as of		•••		•••			
	43.3	etc.  Total number of man-hours worked on the holding during the survey week by other persons, including participants in co-operative, collective and communal holdings  (a) as of		•••.			···		
		(b) as of (date) (c) as of (date) etc.		•••		• • •	• • • •	•••	•••
	43.4	Total number of man-hours worked off the holding during the survey week by the persons reported in 43.11  (a) as of							
		(b) as of (date) (c) as of (date) etc. (date)	•••	•••		• • •	•••	•••	

² Including the hired manager. - ³ Items 43.11, 43.12 and 43.13 are mutually exclusive.

## Definition of census items and explanatory notes

#### TIME REFERENCE

Information on the extent to which the agricultural work on the holding is carried on by the holder's household or by persons working for pay (Major group 41) should refer to a specific year, such as the last agricultural year or the year preceding the date of enumeration. Data on employment in agriculture should relate to the week preceding the date of enumeration, i.e., the period of one week length which ends at the day of enumeration. Of course, the day of enumeration will be different for the census and for each of the successive surveys devoted to collection of data on employment in agriculture.

It is emphasized that, although the data on employment in agriculture collected in the census refer to one week only, the classification of workers as permanent, temporary or occasional is based on the amount of time they have worked on the same holding the entire year or during a shorter period, if agricultural work is done generally during part of the year only (see also the explanatory notes on "Permanent, temporary, and occasional workers" below).

#### AGRICULTURAL WORK

By agricultural work or agricultural activities is meant any farm work or planning necessary to the operation of the holding. It includes feeding and caring for livestock and poultry; working in the field; working in the market or kitchen gardens; planning farm work; supervising other agricultural workers; keeping farm records; taking farm products to market; bringing feed, fertilizer, or other supplies from town to the holding; repairing fences, farm equipment, machinery, etc.; constructing buildings and fences with farm help, and related activities. Land reclamation and improvements, if carried out by the farmer and his labor force, should be considered as agricultural work. It excludes work related to the operation of the home, contract construction work done by persons employed specifically to do such work, labor performed by inmates of institutions, workers employed by a contractor, and handicraft work.

## PERSONS EMPLOYED IN AGRICULTURAL WORK

The persons employed in agricultural work include:

(a) the holder, regardless of the amount of time he has spent in agricultural work;

- (b) members of his family and unrelated persons living in his household,¹ not receiving full wages in money or kind,² and who are engaged in agricultural activities (including care of poultry, cheesemaking, etc., but excluding domestic servants);
- (c) participants in co-operative, collective, and communal holdings;
- (d) all persons working for pay on the holding.

Members of the holder's household who work on the holding and receive full wages in money or kind for their work are to be classified as persons working for pay.

Some countries may wish to modify the definition for (b), "Unpaid members of the holder's household" to include only those members of the holder's household who did agricultural work on the holding during the reference week for at least one third of the number of hours which constitute a normal work week.

## PERMANENT, TEMPORARY, AND OCCASIONAL WORKERS

Workers on the holding during the census week may be classified as permanent, temporary, or occasional workers, depending on the amount of time they worked on the same holding during the year adopted as time reference.

*Permanent* workers are those who had been employed on the holding for a total period of at least half the working time during the year.

Temporary workers are those who had been employed on the holding for a total period of less than one half but at least one third of the working time during the year.

Occasional workers are those who had not worked on the holding before the census week and others who had been employed on the holding for a total period of less than one third of the working time during the year.

No definition is offered for "working time during the year." Countries will need to determine, in the light of their own conditions, whether to use the entire year or a shorter period, such as the part of the year during which agricultural work is done. The country's census reports should specify which basis was used.

Persons who are engaged in agricultural work but generally work less than a full day may be classified according to the number of days on which

¹ The definition of "household" is given in the explanatory notes to Section 5 on page 56.

² In such cases there is no contract (written or oral) regarding the wages which the person should receive for the work on the holding, and the person usually depends on the holder or on some member of his household.

they worked, or according to the total number of hours which they worked. The country's census reports should also specify which basis was used.

EMPLOYMENT IN AGRICULTURAL WORK AT DIFFERENT SEASONS

It is proposed that countries collect information on the labor input in agriculture by means of successive sample surveys conducted at different times during the agricultural year, and related to the census. Information collected at each survey should relate to the survey week, i.e., the period of one week which ends on the day of enumeration. Data on manhours worked on the holding and off the holding obtained from the successive surveys combined with those obtained from the census would permit to esti-

mate man-hours worked on the holding and off the holding during the entire agricultural year.

## Tabulation plans

The following tables are submitted to indicate the comparable data which are desired in this section by the 1970 World Census of Agriculture. The items in **bold type** are those desired from all countries, while from those printed in ordinary type countries may select those which are suitable to their conditions.

The tables in the section relate to all agricultural holdings. Countries which are in a position to do so are requested to tabulate the data also by type of holding, i.e., separately for holdings producing mainly for home consumption, separately for holdings producing mainly for sale, and separately for crops holdings, etc.

Table 4.1. - Extent to which agricultural work on the holding is carried on by the holder's household or by persons working for pay, by size of holding

		Num	ber of holdings on v	/hich	
Size class	Total number of holdings reporting	All agricultural work is done by the members of the holder's household ¹	Bulk of agricul- tural work is done by members of the holder's household but also by persons working for pay	Bulk of agri- cultural work on the holding is done by persons working for pay	Total amount of money paid to persons working on the holding during the last agricultural year ²
All holdings with and without land		•			
Holdings without land		1			
Holdings under 0.5 hectare under 0.1 hectare			-	:	
Holdings 0.5 hectare and over					
3 hectares and under 4					
20 hectares and under 50					
200 hectares and under 500					
Holdings of size not reported					

¹ Including work exchanged with others. - ² With proper recognition of payment in kind.

Table 4.2. - Number of persons employed in agricultural work on the holding during the census week, by size of holding All persons 1

		65 years of age and over	
	Female	15 to 64 years of age	
rkers		Under 15 years of age	
Occasional workers		65 years of age and over	
Occasi	Male	15 to 64 years of age	
		Under 15 years of age	
		[610 <del>]</del>	
		65 years of age and over	
	Female	15 to 64 years of age	
rkers		Under 15 years of age	
Temporary workers		65 years of age and over	
Tempo	Male	15 to 64 years of age	
		Under 15 years	
		Total	
		65 years of age and over	
	Female	15 to 64 years of age	
rkers	A	Under 15 years of age	
Permanent workers		65 years of age and over	
Permai	Male	15 to 64 years of age	
		Under 15 years of age	
		lsto]	
	78 3	Total numbo of workers	
	zgnib	Mumber of hol reporting	
		Size class	

¹ This table should be repeated for (a) holders and unpaid members of their households; (b) participants in co-operative, collective and communal holdings; (c) persons working for pay on the holding.

Table 4.3. - Employment on holdings in selected weeks in (year), classified by size of holding 1

# All persons 2

			Size class Under 15 years of age	All holdings with and without land Holdings without land Holdings under 0.5 hectare 0.1 hectare and under 0.5 0.5 hectare and under 0.5 1 hectare and under 2 2 hectares and under 3 3 hectares and under 4 5 hectares and under 5 10 hectares and under 5 5 hectares and under 5 60 hectares and under 10 70 hectares and under 10 70 hectares and under 10 70 hectares and under 50 70 hectares and under 50 70 hectares and under 50 70 hectares and under 50 70 hectares and under 1,000 700 hectares and under 50 700 hectares and under 50 700 hectares and under 50 700 hectares and under 2,500 700 hectares and under 50 700 hectares and under 50 700 hectares and under 2,500 7500 hectares and under 2,500 7,500 hectares and under 2,500 7,500 hectares and under 2,500 7,500 hectares and under 2,500
	From	Total	15 to 64 years	
			65 years of age and over	
			Under 15 years of age	
		Male	15 to 64 years of age	
	5		65 years of age and over	
			Under 15 years of age	
		Female	15 to 64 years of age	
Ž			65 years of age and over	
nber o	Fron		Under 15 years of age	
persor	From	Total	15 to 64 years of age	
ıs empl			65 years of age and over	
oyed in		-	Under 15 years of age	
agricul	\$	Male	15 to 64 years of age	
Number of persons employed in agricultural work during the week			65 years of age and over Under 15 years	
ork dur		Fer	of age	
ing the		Female	of age 65 years of age	
week			and over Under 15 years	
	From	Total	of age	
	From	-a	of age 65 years of age and over	
			Under 15 years to age	
	:	Male	15 to 64 years of age	
	: :	e	65 years of age	
			Under 15 years of age	
	:	Female	15 to 64 years of age	
	:		65 years of age	

¹This table to be based on the successive surveys. - ²This table should be repeated for (a) holders and unpaid members of their households; (b) participants in co-operative, collective and communal holdings; (c) persons working for pay on the holding.

Table 4.4. - Number of man-hours worked on the holding and off the holding during the census week by the holder and unpaid members of his household, and man-hours of work on the holding by other persons, by size of holding

	Man-hours w	vorked on the hol	Man-hours worked off the holding during the census week by the holder and "the unpaid members of his household"				
Size class	By the ho unpaid me his hou	mbers of	By other	persons	Number of	Number of	
	Number of holdings reporting	Number of man-hours reported	Number of Number of holdings man-hours reporting reported		holdings reporting	man-hours reported	
	: .						
All holdings with land	1						
Holdings under 0.5 hectare		]					
under 0.1 hectare							
0.1 hectare and under 0.2		:1					
0.2 hectare and under 0.5							
Holdings 0.5 hectare and over							
0.5 hectare and under 1							
1 hectare and under 2		. 1					
2 hectares and under 3							
3 hectares and under 4	·	1					
4 hectares and under 5							
5 hectares and under 10							
10 hectares and under 20		1			.		
20 hectares and under 50							
50 hectares and under 100							
100 hectares and under 200							
200 hectares and under 500			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1		
500 hectares and under 1,000	. 1						
1,000 hectares and under 2,500							
2,500 hectares and over		1, 1					
Holdings of size not reported		* •					

Table 4.5. - Estimated total number of man-hours worked on the holding and off the holding during the year by the holder and by unpaid members of his household, and man-hours of work on the holding by other persons, by size of holding ¹

Size class    By the holder and unpaid members of his household   By other persons   Number of holdings   Number of holdings   Number of holdings   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peported   Peport		Estimated mar	n-hours worked o	ing the year	Estimated man-hours worked off the holding during the year by the holder and "the unpaid members of his household"		
Number of holdings reporting Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reporting Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reporting Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours reported Para-hours repo	Size class	unpaid me	mbers of	By other	persons		Number of
Holdings under 0.5 hectare under 0.1 hectare and under 0.2 0.2 hectare and under 0.5  Holdings 0.5 hectare and over 0.5 hectare and under 1 1 hectare and under 2 2 hectares and under 3 3 hectares and under 4 4 hectares and under 5 5 hectares and under 10 10 hectares and under 20 20 hectares and under 50 50 hectares and under 50 100 hectares and under 500 500 hectares and under 500 500 hectares and under 500 500 hectares and under 500 500 hectares and under 200 200 hectares and under 200 200 hectares and under 200 200 hectares and under 200 200 hectares and under 200 200 hectares and under 200 200 hectares and under 200 200 hectares and under 200 200 hectares and under 200 200 hectares and under 2,500 2,500 hectares and over		holdings	man-hours	holdings	man-hours		
Holdings under 0.5 hectare under 0.1 hectare and under 0.2 0.2 hectare and under 0.5  Holdings 0.5 hectare and over 0.5 hectare and under 1 1 hectare and under 2 2 hectares and under 3 3 hectares and under 4 4 hectares and under 5 5 hectares and under 10 10 hectares and under 20 20 hectares and under 50 hectares and under 50 bectares and under 500 hectares and under 500 bectares and under 500 hectares and under 1,000 1,000 hectares and under 2,500 hectares and under 2,500 hectares and under 2,500 hectares and under 2,500 hectares and under 2,500 hectares and under 2,500 hectares and under 2,500 hectares and under 2,500 hectares and under 2,500 hectares and under 2,500 hectares and under 2,500 hectares and under 2,500		ĺ				i i	
under 0.1 hectare  0.1 hectare and under 0.2  0.2 hectare and under 0.5  Holdings 0.5 hectare and over  0.5 hectare and under 1  1 hectare and under 2  2 hectares and under 3  3 hectares and under 4  4 hectares and under 5  5 hectares and under 10  10 hectares and under 20  20 hectares and under 50  50 hectares and under 50  bectares and under 100  100 hectares and under 200  200 hectares and under 200  200 hectares and under 200  200 hectares and under 200  200 hectares and under 200  200 hectares and under 500  500 hectares and under 1,000  hectares and under 1,000  hectares and under 2,500  hectares and under 2,500  hectares and under 2,500  hectares and under 2,500  hectares and under 2,500  hectares and under 2,500  hectares and under 2,500  hectares and under 2,500  hectares and under 2,500  hectares and under 2,500	All holdings with land						
0.1 hectare and under 0.2 0.2 hectare and over  0.5 hectare and under 1 1 hectare and under 2 2 hectares and under 3 3 hectares and under 4 4 hectares and under 5 5 hectares and under 50 10 hectares and under 50 30 hectares and under 100 100 hectares and under 500 50 hectares and under 500 50 hectares and under 500 500 hectares and under 500 500 hectares and under 500 500 hectares and under 500 500 hectares and under 500 500 hectares and under 500 500 hectares and under 1,000 500 hectares and under 2,500 500 hectares and under 2,500 500 hectares and under 2,500	Holdings under 0.5 hectare						
0.2 hectare and under 0.5  Holdings 0.5 hectare and over  0.5 hectare and under 1  1 hectare and under 2  2 hectares and under 3  3 hectares and under 4  4 hectares and under 5  5 hectares and under 50  20 hectares and under 50  50 hectares and under 100  100 hectares and under 200  200 hectares and under 500  50 hectares and under 500  50 hectares and under 500  500 hectares and under 500  500 hectares and under 500  500 hectares and under 1,000  1,000 hectares and under 2,500  2,500 hectares and over	under 0.1 hectare						
Holdings 0.5 hectare and over  0.5 hectare and under 1  1 hectare and under 2  2 hectares and under 3  3 hectares and under 4  4 hectares and under 5  5 hectares and under 10  10 hectares and under 50  50 hectares and under 50  100 hectares and under 200  200 hectares and under 200  200 hectares and under 50  50 hectares and under 200  200 hectares and under 500  200 hectares and under 500  200 hectares and under 500  500 hectares and under 2,500  2,500 hectares and under 2,500  2,500 hectares and under 2,500	0.1 hectare and under 0.2						
0.5 hectare and under 1  1 hectare and under 2  2 hectares and under 3  3 hectares and under 4  4 hectares and under 5  5 hectares and under 20  20 hectares and under 50  50 hectares and under 100  100 hectares and under 200  200 hectares and under 200  200 hectares and under 500  500 hectares and under 500  500 hectares and under 500  500 hectares and under 500  500 hectares and under 2,500  500 hectares and under 2,500  2,500 hectares and onder 2,500  hectares and onder 2,500  hectares and onder 2,500  hectares and over	0.2 hectare and under 0.5						
1 hectare and under 2 2 hectares and under 3 3 hectares and under 4 4 hectares and under 5 5 hectares and under 10 10 hectares and under 50 50 hectares and under 50 100 hectares and under 200 200 hectares and under 500 500 hectares and under 500 500 hectares and under 500 500 hectares and under 500 500 hectares and under 1,000 1,000 hectares and under 2,500 2,500 hectares and over	Holdings 0.5 hectare and over			1 1			
2 hectares and under 3 3 hectares and under 4 4 hectares and under 5 5 hectares and under 10 10 hectares and under 20 20 hectares and under 50 50 hectares and under 100 100 hectares and under 200 200 hectares and under 500 500 hectares and under 500 500 hectares and under 2,500 500 hectares and under 2,500 2,500 hectares and under 2,500	0.5 hectare and under 1					. 1	
3 hectares and under 4	1 hectare and under 2		1				
4 hectares and under 5				1			
5 hectares and under 10	3 hectares and under 4		A 1	1.			
10 hectares and under 20	4 hectares and under 5						
20 hectares and under 50							
50 hectares and under 100							
100 hectares and under 200							
200 hectares and under 500							
500 hectares and under 1,000			. ]			1	
1,000 hectares and under 2,500							
2.500 hectares and over							
	· · · · · · · · · · · · · · · · · · ·			'			
Holdings of size not reported							

¹ This table should be based on the results of the census and the successive surveys.

## Section 5 - FARM POPULATION

#### Introduction

This section deals with the enumeration of persons who are members of the holder's household and all other persons living on the agricultural holding. The population so defined includes, among others, the holders, participants in co-operative, collective and communal holdings, and members of their households. Information is required from all countries concerning these groups, whether living on holdings or not. Agricultural laborers who do not live on the holding should not be included.

In addition to the items included in the 1960 Program, the 1970 Program suggests the classification of the farm population into three age groups. Items on major occupation included in the 1960

Program have been deleted from the 1970 Program.

Attention should be drawn to the fact that in many countries a considerable number of holders do not live on agricultural holdings but information about these persons and members of their households should be collected.

## Proposed census items

The following are the items for which it is suggested that countries produce comparable information. The items on which information is desired from all countries are printed in **bold type**. Countries might include the other items in their census if this is suitable to their conditions.

#### SECTION 5 - FARM POPULATION

Major group Group	Total	Male	Female
51. FARM POPULATION			
51.1 Members of the holder's household (Include the holder and participants in co-operative, collective and communal holdings together with members of their families and unrelated persons living in their households)	•••		
(a) under 15 years of age		•••	•••
51.2 Other persons living on the holding (Include all persons living on the holding, who are not members of the holder's household, whether or not such persons work on the holding)			•••
(a) under 15 years of age		•••	•••

#### Definition of census items and explanatory notes

#### TIME REFERENCE

Information on farm population should relate to a specific date, such as the day of enumeration or some other day close to this.

#### Household

The term "household" means the aggregate of persons generally bound by ties of kinship who normally reside together, not necessarily under the same roof. This includes the holder, the relatives living with him, and the other persons who share that community of life for reasons of work or because of other connections. The other persons who share the rooms occupied by the holder's family

or who use separate rooms in the same dwelling unit but take their meals with the family, should also be considered as members of the household. Persons who live alone and lodgers who occupy separate rooms in the dwelling unit and do not take their meals with the holder's family, should not be considered as part of the holder's household.

## Tabulation plans

The following tables are submitted to indicate the comparable data which are desired on this section from countries participating in the 1970 World Census of Agriculture. The items printed in bold type are those for which information is desired from all countries. From the items printed in ordinary type countries may select those which are suitable to their conditions.

Table 5.1. - Farm population, by size of holding 1

Size class	Number of hold- ings re- porting	of the hole pants colle	per of mem holder's ho d and partic in co-opera ctive and co unal holding	ouse- ci- tive, om-	Number of other persons living on holdings		
		Total	Male	Female	Total	Male	Female
All holdings with and without land Holdings without land Holdings under 0.5 hectare under 0.1 hectare 0.1 hectare and under 0.2 0.2 hectare and under 0.5 Holdings 0.5 hectare and over 0.5 hectare and under 1 1 hectare and under 2 2 hectares and under 3 3 hectares and under 4 4 hectares and under 5 5 hectares and under 5 0 hectares and under 20 0 hectares and under 50 10 hectares and under 50 10 hectares and under 100 100 hectares and under 200							
200 hectares and under 500 500 hectares and under 1,000 1,000 hectares and under 2,500 2,500 hectares and over Holdings of size not reported							

¹ Countries which are in a position to do so are requested to tabulate these data by type of the holding.

Table 5.2. - Farm population by sex and age, by size of holding 1

	Number			Male		Female				
Size class	of holdings reporting	Total population	Under 15 to 64 15 years years of age of age		65 years of age and over	Under 15 years of age	15 to 64 years of age	65 years of age and over		
All holdings with and without land										
Holdings without land										
Holdings under 0.5 hectare under 0.1 hectare  0.1 hectare and under 0.2  0.2 hectare and under 0.5										
Holdings 0.5 hectare and over  0.5 hectare and under 1  1 hectare and under 2  2 hectares and under 3  3 hectares and under 4										
4 hectares and under 5 5 hectares and under 10 10 hectares and under 20 20 hectares and under 50 50 hectares and under 100 100 hectares and under 200										
200 hectares and under 500			· · · · · · · · · · · · · · · · · · ·							

¹ Countries which are in a position to do so are requested to tabulate these data by type of the holding.

# Section 6 - AGRICULTURAL POWER AND MACHINERY AND GENERAL TRANSPORT FACILITIES

#### Introduction

Major

The proposals of the 1970 World Census of Agriculture Program on agricultural power and machinery and general transport facilities are as follows:

- 1. Minor changes as compared with the 1960 Program are introduced on questions related to the use and source of power on the holding.
- 2. The list of the 1960 Program has been expanded to include a more complete inventory of agricultural machinery and implements on the hold-
- 3. It is proposed to enumerate the number of machines owned by the holder at the date of the
- 4. Questions are proposed on different arrangements under which machinery is used during the year preceding the census. An indication

is therefore requested in the Program as to whether the machine or implement was (a) owned solely by the holder; (b) jointly owned by the holder and others; (c) provided by the landlord; (d) provided by private contractors; (e) provided by a co-operative; and (f) provided under government-sponsored projects.

5. A general question is asked on transport facilities.

## Proposed census items

These are printed in two types, bold and ordinary. Information indicated in **bold type** is desired from all countries. These items constitute the Short List. The Expanded List includes, besides the Short List, items printed in ordinary type. Countries may choose therefrom items which are suited to their conditions.

SECTION 6 — AGRICULTURAL POWER AND MACHINERY AND GENERAL TRANSPORT FACILITIES

Major group Group								
61.	USE AND SOURCE OF POWER ON	THE HO	LDING					
61.1	Mechanical power							
	(Check this box if any agricultural work in						hine	
	or machines propelled or operated by petro	ol, oil, gas,	steam, wat	er, wind o	r electricity	/)		
61.2	Animal power			•				
61.3	(Check this box if any agricultural work in Source of electric power	the field c	or on the fa	armstead w	as done by	animal po	wer)	
01.3	(Check the appropriate box if electric power	er is used a	on the hold	ling)				
	(a) purchased;	. 13 4364 (	on the note					
	(b) produced on the holding							
				Used	on the holdi	ng during th	e vear	
							. ,	
		Number owned			ng the appro			
		by the	spor	nding machii	nes or imple	ments were	used and v	vere:
Maior		holder at a specific	Owned solely	Owned jointly by the	Provided	Provided by	Provided by a	Provided under govern-
group Group		date	by the holder	holder and others ¹	by the landlord	private con- tractors	co- operative	ment- sponsored projects
62.	STATIONARY POWER-PRODUC-						4.3	
· · · · · · · · · · · · · · · · · · ·	ING MACHINERY							
62.1	Prime movers							1.0
02.1		1. 1	_ : '		_ `	_	_	
	<b>62.11 Internal combustion engines.</b> 62.12 Steam engines, including locomo-	• • •						
	biles							
	62.13 Windmills		xxx	xxx	xxx	xxx	xxx	xxx
	62.14 Water wheels		xxx	xxx	xxx	XXX	xxx	xxx
	62.19 Other prime movers (specify)							
62.2	Electric generators							
62.3	Electric motors							

¹ Excludes machines or implements owned by co-operatives, which should be recorded in the column under the heading "Provided by

			Used on the holding during the year								
		Number owned by the					whether the				
Major group G	Group	holder at a specific date	Owned solely by the holder	Owned jointly by the holder and others 1	Provided by the landlord	Provided by private con- tractors	Provided by a co- operative	Provided under govern- ment- sponsored projects			
63.	Tractors (total)					,,					
	63.1 Tracklaying tractors	•••	xxx xxx xxx xxx	xxx xxx xxx xxx	xxx xxx xxx	xxx xxx xxx xxx	xxx xxx xxx xxx	xxx xxx xxx xxx			
6	63.2 Wheel tractors (excluding single-axle tractors)	•••	XXX XXX XXX	xxx xxx xxx xxx	xxx xxx xxx xxx	×xx ×xx ×xx	×xx ×xx ×xx ×xx	xxx xxx xxx xxx			
6	63.29 56 hp and over	•••	xxx	xxx	xxx	xxx	xxx	XXX			
64.	tion power units  TILLAGE, PLANTING, AND CULTIVAT- ING EQUIPMENT										
6	64.1 Plows 64.11 Animal-operated 64.12 Tractor-operated 64.2 Rotary tillers (tractor-operated)		0 0								
6	64.31 Rotary harrows (disk type and other types) 64.31 Animal-operated										
	64.4 Disk harrows 64.41 Animal-operated 64.42 Tractor-operated							0			
6	64.5 Seed drills (includes combined seed drills and fertilizer distributors) 64.51 Hand-operated 64.52 Animal-operated 64.53 Tractor-operated										
	64.6 Cultivators and other weeding machines 64.61 Animal-operated										
6	64.7 Fertilizer distributors 64.71 Hand-operated 64.72 Animal-operated 64.73 Tractor-operated	•••									
6	64.8 Sprayers and dusters 64.81 Hand-operated 64.82 Animal-operated 64.83 Tractor-operated			0 0 0		0 0					
6	64.9 Other selected tillage, planting, and cultivating machinery and implements (specify type and kind of traction)										
<b>65.</b>	HARVESTING AND THRESHING EQUIPMENT 65.1 Mowers										
	65.11 Animal-operated							0			
	65.2 Rakes (side delivery and others) 65.21 Horse rakes	•••									
•	65.3 Reapers and binders (including field forage harvesters)			0 0				0 0			

¹ Excludes machines or implements owned by co-operatives, which should be recorded in the column under the heading "Provided by a co-operative."

				Used on the holding during the year								
				Number owned by the			ng the appro					
Majo grou				holder at a specific date	Owned solely by the holder	Owned jointly by the holder and others 1	Provided by the landlord	Provided by private con- tractors	Provided by a co- operative	Provided under govern- ment- sponsored projects		
	65.4	65.41 65.42	nes (harvester-threshers) Tractor-operated Self-propelled									
	65.5		corn harvestingpickers and picker shellers (exclud- lf-propelled combines)	•••								
	65.6	Potato 65.61	Animal-operated diggers  Tractor-operated or self-propelled	•••								
	65.7		diggers and harvestersbeet harvesting machinery									
	03.7	65.71	Animal-operated sugar-beet lifters Tractor-operated or self-propelled sugar-beet harvesters									
	65.8	Thres	hers (engine-operated)									
	65.9	equipr tractio										
		65.92	Hay balers (stationary only) Pick-up balers									
			Other harvesting and threshing equipment									
66.			STEAD EQUIPMENT, INCLUDING SPORT MEANS									
	66.1	Food equipr	and feed processing and handling									
		66.11	Grain cleaners and sorters Potato, onion, and fruit sorters							-		
		66.13 66.14	Sugarcane crushers		XXX XXX	□ xxx xxx	XXX XXX	□ xxx xxx	□ xxx xxx	XXX XXX		
		66.16	Corn shellers and shredders		×××	×××	□ xxx	□ xxx	×××	□ xxx		
		66.17 66.18			xxx	xxx	xxx	×××	xxx	xxx		
		66.19	(b) Fodder driers		ō							
			processing and handling equipment (a) Coffee pulping machines (b) Others (specify)		□ xxx	□ xxx	□ xxx	□ xxx	□ xxx	□ xxx		
	66.2		ock equipment (including dairy,	'''	XXX	AAA	^^^	^^^	^^^	^^^		
		66.21 66.22	y, etc.) Milking machines (number of units) Milk coolers		□ xxx	□ xxx	□ xxx	□ xxx	□ xxx	□ xxx		
		66.23 66.24 66.25	Incubators		xxx □	xxx □	xxx □	xxx □	xxx □	xxx □		
			(i) Hand-operated									
		66.29	Power-operated barn cleaners Other selected livestock equipment (specify)	•••	xxx	xxx	xxx	xxx	xxx	xxx		
	66.3	Transp	oort means Wheelbarrows		XXX	xxx	xxx	xxx	xxx	xxx		
		66.32	Carts			· 🖂						
		66.34										
		66.36	Conveyors and elevators  Power-dumping or unloading	•••								
		66.39	equipment Other means of transport	1								

¹ Excludes machines or implements owned by co-operatives, which should be recorded in the column under the heading "Provided by a co-operative."

Major group Group

## 67. GENERAL TRANSPORT FACILITIES

- 67.1 Are agricultural products from the holding sold outside the holding? (Yes or No)
- 67.2 If the answer to the previous question is "Yes," check one or more of the following principal means (including private or public transport means) used to transport agricultural products from the holding to the first place of sale
  - 67.21 By foot
  - 67.22 By pack animal
  - 67.23 By animal-drawn or man-drawn cart or wagon
  - 67.24 By bicycle
  - 67.25 By truck, jeep or other motor vehicle
  - 67.26 By train
  - 67.27 By boat
  - 67.28 By plane
  - 67.29 By other means (specify)

## Definition of census items and explanatory notes

Information on the number of machines owned by the holder and on the source of electric power (Group 61.3) should relate to a specific date, such as the day of enumeration or some other day close to this. The other data in this section, i.e., on use of power on the holding (Groups 61.1 and 61.2), on machines used on the holding and on general transport facilities (Major group 67) should refer to a specific year, such as the last agricultural year or the year preceding the date of enumeration.

#### USE AND SOURCE OF POWER

The items under this heading should be checked only if the form of power concerned was used for agricultural work as defined in Section 4, "Employment in agriculture," whether or not the animals or the mechanical power used belong to the holding. It should include only power used for activities mentioned in Major group 01, Agriculture, of the *International Standard Classification of All Economic Activities*, 1958 edition (Statistical Papers Series M No. 4, Rev. 1, UN). It should not include power used for activities listed in the other Major groups of this classification, and should also exclude power used in the residential part of the farmstead.

#### NUMBER OWNED BY THE HOLDER

If a machine is owned solely by a holder, it should be enumerated on his holding no matter where it is located at the time of the census. On the other hand, if a machine or a piece of equipment is owned by more than one holder, it should be counted as owned by the holder on whose holding it is located at the date of the census, but its use should be reported by each of the owners as "Owned jointly by the holder and others."

#### Horsepower of tractors

There are various ways of measuring and indicating the horsepower of a tractor, such as: engine horsepower, drawbar horsepower, power take-off (pto) horsepower and, finally, the nominal horsepower indicated on the plate of the tractor. The intention of the 1970 World Census of Agriculture is to obtain information on the number of tractors classified by engine horsepower. However, countries can collect the information by different methods, for instance, by asking for make, model and year of the tractor and converting this information into engine horsepower classes, as desired by the Program, while processing the collected data. In all cases, countries should make clear to FAO the definition of horsepower that they actually have used.

#### MILKING MACHINES

As the unit of milking machines, an installation and not a pail should be reported.

## Tabulation plans

Five tables are submitted for which comparable data are desired on this section from countries taking part in the 1970 World Census of Agriculture. The items printed in **bold type** are those on which information is desired from all countries. From the items printed in ordinary type, countries may select those which are suitable to their conditions.

Table 6.1. Use and source of power on agricultural holdings, by size of holding 1

		Numbe	er of holdin	gs reporting	use of:	Number c		
	Total number				Human power	reporting electric pow		
Size class	of holdings	Mechanical power only	Animal power only	Mechanical and animal power	only (i.e., neither mechanical nor animal power used) ²		Produced on the holding	
All holdings with and without land								
医骶头神经炎病 化化化环化物 医重性电流 电流电流电流 化二氯磺								
Holdings without land					1			
Holdings under 0.5 hectare								
under 0.1 hectare								
0.1 hectare and under 0.2								
0.2 hectare and under 0.5								
0.2 nectare and under 0.5								
Holdings 0.5 hectare and over						1 1		
0.5 hectare and under 1								
1 hectare and under 2								
2 hectares and under 3								
3 hectares and under 4		! !						
4 hectares and under 5		-		1				
5 hectares and under 10								
10 hectares and under 20								
20 hectares and under 50								
50 hectares and under 100								
100 hectares and under 200								
200 hectares and under 500								
500 hectares and under 1,000		1						
1,000 hectares and under 2,500								
2,500 hectares and over								
Holdings of size not reported								

¹ Countries which are in a position to do so are requested to tabulate these data by tenure and by type of holding. - ² Holdings where no boxes of items 61.1 or 61.2 were checked.

Table 6.2 - Number of holdings reporting stationary power-producing machinery 1 and number owned by holders, by size of holding

	Internal com- bustion engines		Steam engines		Windmills		Water wheels		Other prime movers (specify)		Electric generators		Electric motors	
Size class	Number of holdings reporting	Number owned by holders	Number of holdings reporting	Number owned by holders	Number of holdings reporting	Number owned by holders	Number of holdings reporting	Number owned by holders	Number of holdings reporting	Number owned by holders	Number of holdings reporting	Number owned by holders	Number of holdings reporting	Number owned by holders
All holdings with and without land														
Holdings without land														
Holdings under 0.5 hectare under 0.1 hectare 0.1 hectare and under 0.2 0.2 hectare and under 0.5  Holdings 0.5 hectare and over 0.5 hectare and under 1 1 hectare and under 2 2 hectares and under 3			radostala-ministratūradas taristas karastas karastas karastas karastas karastas karastas karastas karastas kar	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s			ACOLONNO TO THE THE THE THE THE THE THE THE THE THE				Amerikanska statutera i kanada sama kanada sama kanada sama kanada sama kanada sama kanada sama kanada sama ka			
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2,500 hectares and over									Alliamonto con concessoro e entreprenentes	Laboratory (control of the control o				

¹ This table should be repeated for (a) tillage, planting and cultivating equipment; (b) harvesting and threshing equipment, and (c) farmstead equipment, including transport means; showing data for each kind of machine in these Major groups.

Table 6.3. - Number of holdings reporting tractors and number of tractors owned by the holder, by horsepower and by size of holding

	5 5				Nun	nber c	f trac	tors o	wned	by the	e hold	ers			
				Tra	ack-layi	ng trac	tors				Wheel	tractor	s		and xle r units
Size class	Number of holdings reporting tractors owned 1	Total	Total	Less than 18 hp	18 hp and less than 27	27 hp and less than 37	37 hp and less than 56	56 hp and over	Total	Less than 18 hp	18 hp and less than 27	27 hp and less than 37	37 hp and less than 56	56 hp and over	Power tillers and other single-axle traction power units
All holdings with and without land															
Holdings without land															
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Holdings of size not reported							and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th								

¹ Including holdings reporting power tillers, etc.

Table 6.4. - Number of holdings reporting selected equipment used on holdings, classified by type of ownership of equipment

		Number of holdings reporting use of equipment which w									
Kind of equipment used	Total number of holdings reporting	Owned solely by the holder	Owned jointly by the holder and others	Provided by the landlord	Provided by private contrac- tors	Provided by co- operatives	Provided under govern- ment sponsored projects				
Stationary power-producing machinery  Specify  Specify											
Tractors  Wheel tractors  Tracklaying tractors.											
Garden tractors  Tillage, planting, and cultivating equipment											
Harvesting and threshing equipment											
Specify  Farmstead equipment, including transport means											
} Specify					1 2						

Table 6.5. - Means used to transport products from holding, by size of holding

	Total num-	М	eans used	to trans	port prod	ucts from	holding	to the pl	ace of sa	le ¹
Size class	ber of hold- ings report- ing on trans- port	By foot	By pack animal	By cart or wagon ²	By bicycle	By truck, jeep or other motor vehicle	By train	By boat	By plane	By other means (specify)
				Numl	ber of hole	ings repo	rting	• . • . • . • . •		•••••
All holdings with and without land		1	l	1	1	1	14.	1		
Holdings without land										
Holdings without land	1									
Holdings under 0.5 hectare		1								1
under 0.1 hectare	:									
0.1 hectare and under 0.2										
0.2 hectare and under 0.5										
Holdings 0.5 hectare and over										1 1
0.5 hectare and under 1						:				
1 hectare and under 2										
2 hectares and under 3										
3 hectares and under 4										
4 hectares and under 5			İ							
5 hectares and under 10	-									
10 hectares and under 20							1.5			
20 hectares and under 50					1					
50 hectares and under 100										
100 hectares and under 200										1 :
200 hectares and under 500										
500 hectares and under 1,000										
1,000 hectares and under 2,500										
2,500 hectares and over				-						
Holdings of size not reported	a.a.									
	į									

¹ Because the holding may use more than one means of transport, the sum of the number of holdings reporting specified means of transport may be larger than the total number of holdings reporting transport. - ² Animal-drawn or man-drawn.

### Section 7 - IRRIGATION AND DRAINAGE

#### Introduction

This section of the Program deals with the area and methods of irrigation and drainage on agricultural holdings.

The items proposed in this section are the same as those proposed in the 1960 Program, with the exception that provision has been made for the enumeration of nonirrigated areas drained through open drains.

#### Proposed census items

The following is the list of items for which it is suggested that countries participating in the 1970 World Census of Agriculture produce comparable information. For item 71.2 printed in **bold type**, information is desired from all countries. From the items printed in ordinary type countries may select those which are suitable to their conditions.

#### SECTION 7 - IRRIGATION AND DRAINAGE

Majo grou			Hectares
71.		IRRIGATION	
	71.1	Area of land provided with irrigation facilities	• • •
	71.2	Area of land actually irrigated at any time of the year by source of water	
	71.3	<u> </u>	

Major group Group		Hectares
71.		
	<ul> <li>71.33 Area supplied with water by pumping from ground water. (Includes all devices for raising water, e.g., Persian wheels, buckets, etc.)</li> <li>71.34 Area supplied with water by other means (e.g., flowing wells, springs, etc. — Specify)</li> </ul>	
71.4	Of the land actually irrigated (reported under Group 71.2), how much was irrigated by the sprinkler method?	
72.	DRAINAGE	
72.1	Area of irrigated land provided with drainage facilities	
72.2	Area of nonirrigated land provided with drainage facilities	

#### Definition of census items and explanatory notes

#### TIME REFERENCE

Information on area of land actually irrigated should refer to a specific year, such as the last agricultural year or the year preceding the date of enumeration. Information on area of land actually provided with irrigation facilities (Group 71.1) and that provided with drainage facilities (Major group 72) should refer to a specific date, usually the day of enumeration or some other day close to this.

#### IRRIGATION

For purposes of this census, irrigation is considered to denote the practice of purposively providing land

with water other than rain (but including flooding of the land by river water) for crop production or pasture improvement. However, when rain water has been collected and brought to the field later, that practice should also be considered as irrigation.

#### Area of land actually irrigated

Land actually irrigated should be considered any land of the holding irrigated during the year in question, whether several times or only once. The *physical area* of such a land should be reported.

#### GROUNDWATER

The water that occurs beneath the land surface and from which wells are supplied.

#### SOURCE AND METHOD OF WATER SUPPLY

The information required on source of water relates solely to the source from which the holder draws the water directly for irrigation. The information on method used relates solely to the methods of water supply used on the holding without regard to the method by which water is brought to the holding.

#### DRAINAGE

Drainage should be considered the removal of excess water from the surface of the land from the upper layers of the soil or subsoil by *artificial means* for the purpose of making nonproducing land productive and producing land more productive.

An area provided with small drains should be considered as provided with drainage facilities, even if large drains are needed for effective drainage.

#### Tabulation plans

The tables attached are submitted to indicate the comparable data which are desired from countries taking part in the 1970 World Census of Agriculture. The items printed in **bold type** are those on which information is desired from all countries. From the items printed in ordinary type countries may select those which are suitable to their conditions.

Table 7.1. - Number of holdings reporting, area of land provided with irrigation facilities and area of land actually irrigated, by source of water and method of water supply

Number of holdings reporting area of land actu-	Hectares
Area of land provided with irrigation facilities	
Area of land actually irrigated	•••
By source of water	
By water supplied from the holding itself	
By water supplied from outside the holding	
By water supplied from inside and outside the holding	
By method of water supply	
By gravity flow	
By pumping from streams, canals, tanks, lakes, and other surface water sources	
By pumping from ground water	
By other means (specify)	
Area irrigated by sprinklers	

Table 7.2. - Number of holdings reporting and area of land provided with drainage facilities

Number of holdings reporting land provided with drainage facilities	
Area of irrigated land provided with drainage facilities	Hectares
(total)	
By pumping through open drains	•••
By pumping through covered drains	•••
By gravity flow through open drains	•••
By gravity flow through covered drains	•••
Area of nonirrigated land provided with drainage facilities (total)	
Drained through open drains	•••
Drained through covered drains	
national and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont	

### Section 8 - FERTILIZERS AND SOIL DRESSINGS

#### Introduction

This section deals with the enumeration of the use of fertilizers and soil dressings. The items suggested are precisely the same as those of the 1960 Program, except for some rearrangements.

As in the 1960 Program, inorganic fertilizers have been subdivided (in the Expanded List) according to the main plant nutrients. Data on the amount of chemical inorganic fertilizers used are more significant when they are classified according to the plant nutrients. Countries which are in a position to do so are requested to investigate, by means of a sample survey undertaken as part of the census, the quantity of fertilizers used in terms of plant nutrients, separately for the various crops.

#### Proposed census items

The following is the list of items for which it is suggested that countries participating in the 1970 World Census of Agriculture supply comparable information. For item 81.1 printed in **bold type** information is desired from all countries. From the others printed in ordinary type countries may select the items which are suitable to their conditions.

	SECT	ION 8 — FERTILIZERS AND SOIL	DRESSI	NGS
Maj grou				
81.		CHEMICAL <b>INORGANIC</b> AND ORGANIC MANURES AND OTHER <b>FERTILIZERS</b>		
	81.1	Have any inorganic fertilizers been applied on the holding during the year?	Yes □	No □
			Area treated (ha)	Amount applied (kg)
	81.2	Chemical inorganic fertilizers (Enter the total area to which any chemical inorganic fertilizer was applied. If more than one type of this fertilizer was applied to any field, the total area treated may be less than the sum of the areas reported under 81.21 to 81.24 inclusive).		
81.		81.21 Nitrogenous fertilizers 81.22 Phosphate fertilizers 81.23 Potash fertilizers	• • •	•••

81.24 Mixed, compound and com-

plex inorganic fertilizers...

Major group Group		Area treated (ha)	Amount applied (kg)
81.			
81.3	Organic manures 81.31 Farmyard manure and/or		
	compost	•••	XXX
	81.32 Green manure		XXX
81.4	Other fertilizers (specify) (e.g., guano, bone meal, oilcake, woodash etc.)		
82.	SOIL DRESSINGS		
82.1 82.2 82.3	Lime	•••	

#### Definition of census items and explanatory notes

#### TIME REFERENCE

Information should refer to a specific year, such as the last agricultural year or the year preceding the census.

#### AREA TREATED WITH FERTILIZERS

An area treated more than once with the same kind of fertilizer applied to the same crop or group of crops cultivated simultaneously on the same land is to be reported only once. However, if it was applied to different crops grown successively in the year on the same land, the area should be reported for each crop separately.

An area receiving more than one kind of chemical inorganic fertilizer should be reported only once in reporting the total area treated with chemical inorganic fertilizers (Group 81.2) but it should also be reported under each of the fertilizers concerned.

Chemical inorganic fertilizers containing a single plant nutrient are to be reported in 81.21, 81.22 or 81.23, accordingly.

#### Tabulation plans

The table attached is submitted to indicate the comparable data which are desired from countries taking part in the 1970 World Census of Agriculture. Items printed in bold type are those on which information is desired from all countries. From the other items printed in ordinary type, countries may select those which are suitable to their conditions.

Table 8.1. - Number of holdings reporting, area treated with fertilizers and soil dressings, and amount applied, by size of holding 1

					S S	Organic manures	ures			Othor for					100	Soil dressings	2			
	U.E &	Chemical inorganic fertilizers 3		Farmyard manure and or compost	14 5t	Green manure	S	Seaweed		tilizers (specify)			Lime		G	Gypsum		S)	Other (specify)	
Size class	-blod to hold- ings reporting	Area treated (ha)	Amount applied (kg)	Number of hold- ings reporting	Area treated (ha)  Mumber of hold-	gnisnoqən egni	Mumber of hold-	Area treated (ha)	-blod to nadmuM -blod to reporting	Area treated (ha)	Amount applied (kg)	-blod to nedmuM ings reporting	Area treated (ha)	(kg) beilqqs annomA	Number of hold- ings reporting	(Ed) bestears sanA	Amount applied (kg)	-blod to nadmuk ings reporting	Area treated (ha)	Amount applied (kg)
All holdings with land							***************************************							***********						

¹ Countries which are in a position to do so are requested to tabulate these data by tenure and by type of the holding. - ² Countries which are in a position to do so should report separately on the amount applied of nitrogenous, phosphate, potash, and mixed, compound and complex chemical inorganic fertilizers.

### Section 9 - WOOD AND FISHERY PRODUCTS

#### Introduction

This section deals with the enumeration of wood obtained from agricultural holdings and of fishery products from the water areas located within the boundaries of agricultural holdings. It covers the total production of the holding whether for home consumption or for sale.

The number of items on wood products has been increased to include specific items which were included in "Other roundwood" in the 1960 Program.

The questions on fishery products have been increased and changed so as to indicate the source of fishery output, e.g., from fish culture in ponds, dams, hatcheries and reservoirs, from rice fields, etc.

The collection of information on wood and fishery products has been included in the Program because in some countries the production of these commod-

ities on agricultural holdings is not sufficiently covered by the forestry and fishery statistics. The data collected in the agricultural census would thus complement the information provided by the specialized statistics. However, no items in this section are suggested for the Short List. Some countries may obtain information on wood and fishery products on agricultural holdings through other means than the agricultural census.

#### Proposed census items

The following are the items for which information is requested from countries participating in the 1970 World Census of Agriculture. Countries may select from the list the items which are suitable to their conditions.

#### SECTION 9 — WOOD AND FISHERY PRODUCTS

Major group G	roup		Quantity (indicate unit of measure)
91.		WOOD PRODUCTS OBTAINED FROM THE HOLDING DURING THE YEAR	• • •
9 9 9	1.2 1.3 1.4	Fuelwood (including wood for charcoal) Sawlogs and veneer logs	•••
92.		FISHERY OUTPUT FROM WATERS WITHIN THE BOUNDARIES OF THE HOLDING	
		Total fishery (animal) output	  Yes □
7	2.2	Indicate if any seaweed (marine algae) were taken from the water within the boundaries of the holding	No□

#### Definition of census items and explanatory notes

#### TIME REFERENCE

Information on wood and fishery products should refer to a specific year, such as the year preceding the date of enumeration, i.e., the period of one year which ends at the date of enumeration, or some other one-year period.

#### WOOD PRODUCTS

The intention of the Program is to record wood products excluding bark. However, in general, the holders may be unable to report the quantities produced excluding bark. In such cases, conversion of the production data by exclusion of bark could be done at the time of processing of the information on wood products.

#### **FUELWOOD**

This includes all wood cut on the holding for heating purposes, for cooking, tobacco curing, and other uses, whether by the holder or someone else, including that for home use as well as that for sale. It includes also wood consumed in the manufacture of charcoal and for gasogenes.

#### CHRISTMAS TREES

It includes all coniferous trees cut during the year to be used as Christmas trees.

#### OTHER ROUNDWOOD

This item should include all other roundwood cut from the holding not included in any of the previous groups, whether for home use or for sale.

#### FISHERY (ANIMAL) OUTPUT

By fishery output is understood the quantity of aquatic animals caught during the year in the waters within the boundaries of the holding, after deduction of that part of the catch retained for breeding and restocking. Under aquatic animals are included, e.g., fish, crustaceans, mollusks, amphibia and aquatic reptiles.

#### Tabulation plans

The tables attached are submitted to indicate the comparable data which are desired from countries taking part in the 1970 World Census of Agriculture. Countries may select from these tables the items which are suitable to their conditions.

Table 9.1. - Number of holdings reporting wood products and quantity produced, by size of holding

	Fuelv	vood	Sawlog veneer		Pulpy and pir		Chris tre			her dwood
Size class	Num- ber of hold- ings report- ing	Quan- tity (unit of meas- ure)	Num- ber of hold- ings report- ing	Quan- tity (unit of meas- ure)	Num- ber of hold- ings report- ing	Quan- tity (unit of meas- ure)	Num- ber of hold- ings report- ing	Num- ber of trees	Num- ber of hold- ings report- ing	Quan- tity (unit of meas- ure)
All holdings with land								-	·	
Holdings under 0.5 hectareunder 0.1 hectare				The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s						-
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Holdings of size not reported										

Table 9.2. - Number of holdings reporting fishery output, source and quantities, by size of holding

Size class	То	tal	From fish in pond hatcher reser	s, <b>d</b> ams, ies and	From ric	e fields	Ot	.her	of holding reporting seawee gathering
	Number of holdings reporting	Quantity (unit of measure)	Number of holdings reporting	Quantity (unit of measure)	Number of holdings reporting	Quantity (unit of measure)	Number of holdings reporting	Quantity (unit of measure)	from their waters
All holdings with land				-			:		
i noidings with fand							1		
oldings under 0.5 hectare	-							1	-
under 0.1 hectare									
0.1 hectare and under 0.2				1					
0.2 hectare and under 0.5									
oldings 0.5 hectare and over									
0.5 hectare and under 1									
1 hectare and under 2									
2 hectares and under 3									
3 hectares and under 4									
4 hectares and under 5					]				
5 hectares and under 10					1			1	
10 hectares and under 20								1	
20 hectares and under 50									
50 hectares and under 100									
100 hectares and under 200									
200 hectares and under 500				l					1
500 hectares and under 1,000									1
000 hectares and under 2,500		1.4							
500 hectares and over									
oldings of size not reported									

# Section 10 - ASSOCIATION OF AGRICULTURAL HOLDINGS WITH OTHER INDUSTRIES

Major

group Group

#### Introduction

This section deals with a new concept, namely, the association of agricultural holdings with various other industries. There has been a tendency in recent years for certain industries to become interested in the operation of agricultural holdings. As a result, nonfarming establishments are integrated with agricultural holdings as part of the same enterprise. There has also been a tendency for business enterprises such as feed dealers, processors such as meat packers, canning factories, retailers, co-operatives, etc., to enter into contracts with agricultural holders for the production of certain crops or commodities of animal origin. Another tendency appearing in agricultural holdings of some countries is to have contracts with enterprises providing agricultural serv-

The reason for suggesting the enumeration of this topic in the 1970 World Census of Agriculture Program is to investigate to what extent these types of association of agricultural holdings with other industries have developed.

#### Proposed census items

The following items are suggested to be investigated in this section. No item is proposed for the Short List.

SECTION 10 - ASSOCIATION OF AGRICULTURAL HOLDINGS WITH OTHER INDUSTRIES

Major group Group

TYPE OF INDUSTRY WITH WHICH 101. THE HOLDING IS INTEGRATED

> 101.1 Ascertain if the holding is part of an enterprise having one or more activities other than farming.....

Yes 🗆 No □ 101. 101.2 If the answer to 101.1 is "Yes," indicate one or more of the following industries according to the kind of economic activities of this enterprise by checking the appropriate box or boxes 101.21 Slaughter, preparation and preservation of meat ...... 101.22 Manufacturing of dairy products 101.23 Canning or preserving of fruits and/or vegetables ..... 101.24 Manufacturing of grain mill prod- $\Box$ 101.26 Forestry and logging..... 101.27 Manufacturing of rubber products .....  $\Box$ 101.28 Fishing ..... 101.29 Other industries (a) Wholesale or retail trade (b) Other industries (specify)... CONTRACT OPERATIONS 102. 102.1 Ascertain if any part of the agricultural produce of the holding is produced under contract for the manufacturing industry (check the appropriate box): (a) Total agricultural production ...... (b) Part of agricultural production ..... (c) None ..... 102.2 If 102.1(a) or 102.1(b) has been checked, indicate one or more of the items which are produced under contract by checking the appropriate box or boxes: 102.21 Cereals ..... 102.23 Fruits and grapes..... (a) Olives..... (b) Grapes ..... (c) Other fruits ..... 102.24 Sugar crops (sugarcane or sugar beets) ..... 102.25 Vegetables ..... 102.26 Livestock and livestock products 102.27 (a) Cattle ...... (b) Pigs ..... (c) Poultry..... (d) Other livestock (specify) ... (e) Milk ..... (g) Other livestock products (specify) ..... 102.29 Other agricultural products (specify) ...... 02.3 Did the holding have any contract during the year with agencies providing

agricultural services? ......

Yes m

No □

#### Definition of census items and explanatory notes

#### TIME REFERENCE

Information on the type of industry with which the holding is integrated (Major group 101) should refer to a specific date, usually the day of enumeration or some other day close to this. Data on contract operations (Major group 102) should refer to a specific year, such as the last agricultural year or the year preceding the date of enumeration.

# TYPE OF INDUSTRY WITH WHICH THE HOLDING IS INTEGRATED

The various types of industries listed under Group 101.2 are those which are most likely to have agricultural holdings integrated with them, but they are not the only ones. Many other types of industries could be interested in the operation of agricultural holdings. These might be specified under item 101.29 (b).

An agricultural holding which includes forest land should not automatically be considered integrated with the forestry and logging industry. It should be considered integrated with this industry only if it is a part of a forestry and logging enterprise.

#### CONTRACT OPERATIONS

By contracts (usually written contracts) is understood a reciprocal agreement between a holder and a private firm, a co-operative or the state, specifying what the holder is to do or provide, and the obligation of the second party. Two kinds of contract operations are investigated in this section: (a) where a contract concerns the production of certain crops or animal products; and (b) where a contract concerns provision of some kinds of agricultural services to the holding. In case (a), a contract provides for the delivery of a certain quantity of one or more agricultural products from the holding, frequently on conditions stipulated with respect to quality, delivery time and prices, the said quantity being determined by count, measurement or area. Rental contracts between the holder and the landlord should be excluded from consideration as contract operations. In case (b), a contract determines what kind of agricultural services will be provided by the contractor to the holder. Agencies providing agricultural services may include agencies for seed cleaning, hatcheries service, and other custom work.

Under Group 102.2, the various crops, livestock and livestock products listed are those which are more likely to be produced under contract, but there could be many others. These might be specified under item 102.29.

#### Tabulation plans

The following tables are submitted to indicate the comparable data desired from countries which might wish to investigate the topic of this section in their census.

Table 10.1. - Number of holdings 1 reporting integration with industry, by size of holding

					Type of ind	Type of industry with which	the	holding is integrated			
Size class	Total number of holdings reporting	Slaughter, preparation and preserva- tion of meat	Manufacturing of dairy products	Canning or preserving of fruits and/ or vegetables	Manufacturing of grain mill products	Sugar factory and refinery	Forestry and logging	Manufacturing of rubber products	Fishing	Wholesale or retail trade	Other (specify)
All holdings  Holdings under 0.5 hectare under 0.1 hectare 0.1 hectare and under 0.2 0.2 hectare and under 0.5 1 hectare and under 1 1 hectare and under 2 2 hectares and under 3 3 hectares and under 3 5 hectares and under 5 5 hectares and under 5 5 hectares and under 5 6 hectares and under 5 70 hectares and under 50 70 hectares and under 50 70 hectares and under 50 70 hectares and under 50 70 hectares and under 50 70 hectares and under 50 70 hectares and under 50 70 hectares and under 50 70 hectares and under 50 70 hectares and under 50 70 hectares and under 50 70 hectares and under 500 700 hectares and onder 2,500 7,500 hectares and onder 2,500 7,500 hectares and onder 2,500 7,500 hectares and onder 2,500 7,500 hectares and onder 2,500 7,500 hectares and over											

Countries which are in a position to do so are requested to tabulate these data by type of holding.

Table 10.2. - Number of holdings reporting 1 operations under contract, by size of holding

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¹ Countries which are in a position to do so are requested to tabulate these data by type of holding.

#### APPENDIX

#### Alphabetical list of crops with botanical names

The purpose of this list is to help countries in identifying crops listed in Section 2, Crops, of the Program by indicating their botanical names. The number given opposite each item is the corresponding item number in Section 2. An asterisk before a reference number indicates that the crop is included with others in a general or composite item. The references shown below are not complete, as they are restricted only to those items in the list of Section 2 where the name of the crop has been *specifically* mentioned.

Спор	Reference number	BOTANICAL NAME
Abaca (Manila hemp) Alfalfa for grazing Alfalfa for hay, green feed or silage Almonds American cress Aniseed Apples Apricots Arrowroot	23.33(c) *21.52(a) 21.51(a) 23.16(a) *21.61(l) *21.44(b) 23.12(a) 23.13(a) 21.34	Musa textilis  Medicago sativa  Prunus amygdalus  Barbarea verna  Pimpinella anisum  Malus sylvestris  Prunus armeniaca  Maranta spp., Curcuma spp.
Artichokes Artichokes, Jerusalem Asparagus Avocados	21.61( <i>d</i> ) 21.38( <i>d</i> ) 21.61( <i>e</i> ) 23.14( <i>e</i> )	Cynara scolymus Helianthus tuberosus Asparagus officinalis Persea americana
Bambarra nuts (earth peas) Bananas Barley Beans, dry, edible Beans, harvested green Beets, fodder (mangels) Beets, red Beets, silver or spinach Beets, sugar for feed Beets, sugar for sugar or for alcohol Bergamots Blackberries Black pepper Black wattle Blueberries Brazil nut Breadfruit Broad beans, dry Broad beans, harvested green	*21.29 23.14(k) 21.16 21.22 21.64(a) 21.38(b) 21.63(c) *21.61(i) 21.38(c) 21.41(b) *23.11(f) *23.15(g) 23.24 23.34(b) 23.15(e) *23.16(d) 23.14(c) 21.21 *21.64(c) }	Voandzeia subterranea Musa sapientium, Musa cavendishii Hordeum spp. Phaseolus spp. Phaseolus spp. Beta vulgaris var. alba Beta vulgaris var. rubra Beta vulgaris var. maritima  Beta vulgaris var. bergamia Citrus aurantium var. bergamia Rubus spp. Piper nigrum Acacia spp. Vaccinium myrtillus Bertholletia excelsa Artocarpus altilis (incisus)  Vicia faba
Broccoli	*21.65(a)	Brassica oleracea var. italica

Спор	Reference number	BOTANICAL NAME
Broom millet	*21.49( <i>e</i> )	Pennisetum glaucum; eleusine coracana; Pa-
		nicum miliaceum: Setaria italica; Echi-
		nochloa crusgalli and similar spp.
Broom sorghum	*21.49(e)	Sorghum vulgare
Brussels sprouts	*21.61(a)	Brassica oleracea var. gemmifera
Buckwheat	*21.19	Fagopyrum esculentum
Cabbage		Brassica oleracea var. capitata
(red,		(brassica oleracea var. rubra;
white,	*21.61(a)	brassica oleracea var. alba;
savoy,		brassica oleracea var. bullata;
Brussels sprouts)		brassica oleracea var. gemmifera)
Cabbage, Chinese	21.61( <i>b</i> )	Brassica sinensis, Brassica pekinensis
Cabbage, for fodder	21.59(a)	Brassica oleracea var. capitata
Cacao	23.31( <i>b</i> )	Theobroma cacao
Cantaloupes	*21.62( <i>b</i> )	Cucumis melo
Caraway seed	*21.44( <i>b</i> )	Carum carvi
Cardamom	*21.44( <i>b</i> )	Elettaria cardamomum
Cardoon	*21.63(h)	Cynara cardunculus
Carob	*23.19	Ceratonia siliqua
Carrots, edible	21.63(d)	Daucus carota
Carrots, for feed	21.38(e)	Daucus carota
Cashew nuts	23.16( <i>c</i> )	Anacardium occidentale
Cassava (manioc)	21.32	Manihot esculenta (utilissima)
Castor beans	21.43(g)	Ricinus communis
Cauliflower	*21.65(a)	Brassica oleracea var. botrytis
Celeriac	*21.63(h)	Apium graveolens var. rapaceum
Celery	21.61( <i>f</i> )	Apium graveolens
Chayote	*21.62( <i>l</i> )	Sechium edule
Cherries	23.13( <i>b</i> )	Prunus cerasus; Prunus avium
Chestnut	*23.16( <i>d</i> )	Castanea spp.
Chick-peas (gram)	21.24	Cicer arietinum
Chicory	21.49(c)	Cichorium intybus
Chicory for greens	21.61(g)	
Chilies, dry	*21.44(a) }	Capsicum fructescens (annuum)
Chilies, fresh	21.62(j)	
Chinese cabbage	21.61( <i>b</i> )	Brassica sinensis, Brassica pekinensis
Cinnamon	23.21	Cinnamomum (Zeylanicum) spp.
Citronella Citrons	*23.39	Cymbopogon nardus Citrus medica
Clementines	*23.11(f)	Citrus metica Citrus nobilis
	*23.11(b) *21.52(a)	Curus nooms
Clover for how green feed or silege		Trifolium spp.
Clover for hay, green feed or silage Cloves	21.51( <i>b</i> ) \( 23.22	Eugenia aromatica
Coconut	23.32(a)	Cocos nucifera
Cocoyams	*21.35	Colocasia spp.; Xanthosoma spp.
Coffee	23.31(a)	Coffea spp.
Cola	*23.31( <i>a</i> )	Colla spp.
Colza (rapeseed)	23.31(e) $21.43(j)$	Brassica campestris, brassica napus, bras
Comp. for piloso	21.51(1)	sica rapa
Corn, for silage	21.51(h)	Zea mays
Corn sweet	*21.61(n)	Valerianella olitoria
Corn, sweet	21.65(b)	Zea mays

Спор	Reference number	BOTANICAL NAME
Cotton	21.42( <i>a</i> )	Gossypium spp.
Cowpeas	*21.29	
Cowpeas, harvested green	*21.64(c) $\}$	Vigna sinensis
Cranberries	23.15( <i>f</i> )	Vaccinium oxyccocus, vaccinium ma-
		crocarpum
Cress	*21.61( <i>l</i> )	Lepidium sativum
Cress, water	*21.61( <i>l</i> )	Nasturtium officinale
Cress, American	*21.61( <i>l</i> )	Barbarea verna
Cucumbers	21.62( <i>f</i> )	Cucumis sativus
Currants	23.15( <i>d</i> )	Ribes rubrum; Ribes nigrum
Custard apple	23.14( <i>f</i> )	Anona spp.
Dates	23.14(a)	Phoenix dactylifera
Drumstick	*23.29	Moringa pterygosperma
Dry beans, edible	21.22	Phaseolus spp.
Dry broad beans	21.21	Vicia faba
Dry chilies	*21.44( <i>a</i> )	Capsicum fructescens (annuum)
Dry garlic	21.37	Allium sativum
Dry onions	21.36	Allium cepa
Dry peas, edible	21.25	Pisum sativum
Dry peppers	*21.44( <i>a</i> )	Capsicum fructescens (annuum)
Earth peas (bambarra nuts)	*21.29	Voandzeia subterranea
Eggplant	21.62(g)	Solanum melongena
Endive	21.61(k)	Cichorium endivia
Esparto grass	*21.49( <i>e</i> )	Lygeum spartum
Fennel	*21.61(n)	Foeniculum vulgare
Fenugreek, for grain	*21.29	Trigonella foenumgraecum
Figs	23.14( <i>b</i> )	Ficus carica
Filbert (hazelnut)	*23.16( <i>d</i> )	Corylus spp.
Fiqué	*23.33( <i>f</i> )	Furcraea macrophylla
Flax for fiber	21.42( <i>b</i> )	Linum usitatissimum
Fodder beets (mangels)	21.38( <i>b</i> )	Beta vulgaris var. alba
Formio (New Zealand flax)	23.33(b)	Phormium tenax
Garlic, dry	21.37	
Garlic, green	21.63(a)	Allium sativum
Geranium	*21.45	Pelargonium spp.
Ginger	23.26	Zingiber officinale
Gooseberries	23.15(c)	Ribes uva-crispa
Gourds	21.62(e)	Lagenaria vulgaris
Gram (chick peas)	21.24	Cicer arietinum
Grapefruit	*23.11( <i>d</i> )	Citrus decumana; Citrus grandis
Grapes	23.17	
Grapes for raisins	23.17(c)	Vitia ninifona
Grapes for table use	23.17( <i>b</i> )	Vitis vinifera
Grapes for wine and juice	23.17(a)	
Grass, orchard	*21.51( <i>e</i> )	Dactylis glomerata
Green garlic	21.63(a)	Allium sativum
Green onions	21.63( <i>b</i> )	Allium cepa
Groundnuts (peanuts)	*21.43(a)	Arachis hypogaea
Guava	23.14(g)	Psidium spp.

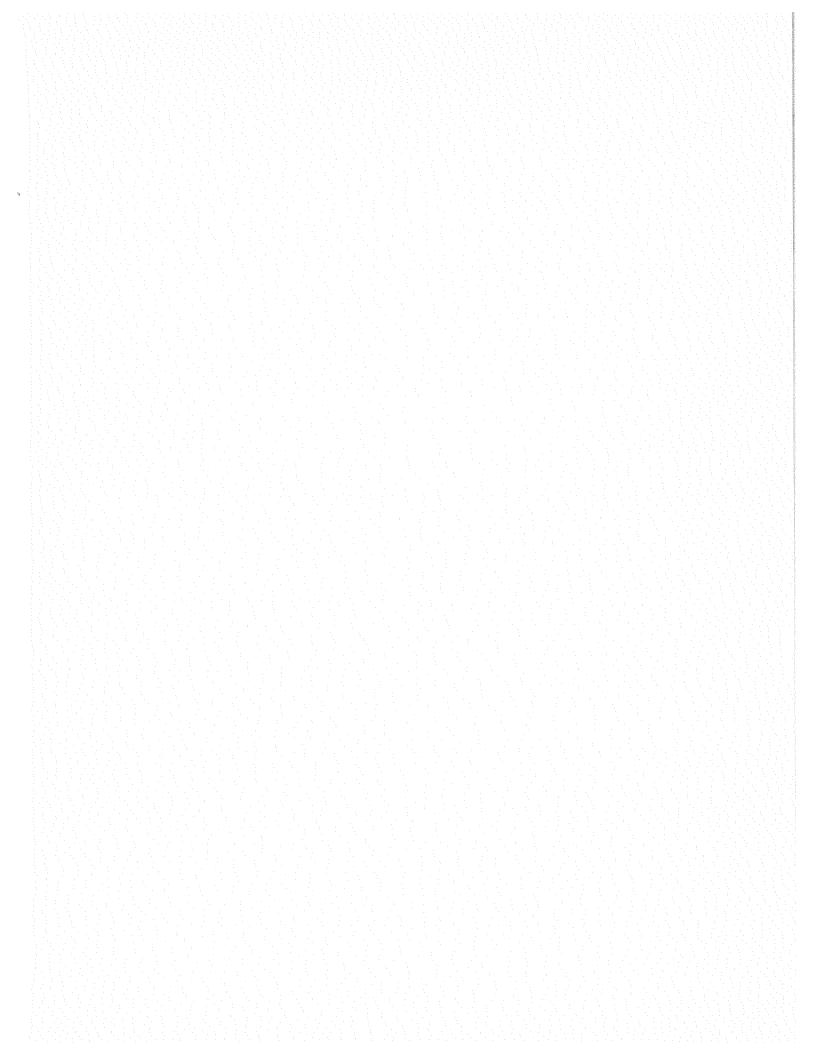
Спор	REFERENCE NUMBER	BOTANICAL NAME
Hazelnut (filbert)	*23.16( <i>d</i> )	Corylus spp.
Hemp, for fiber or for paper mills	21.42(c)	Cannabis sativa
Hemp, Manila (abaca)	23.33(c)	Musa textilis
Hempseed	21.43(f)	Cannabis sativa
Hemp, sunn	*21.42(e)	Crotalaria juncea
Henequen	23.33(a) (ii)	Agave fourcroydes
Henna	*21.49(e)	Lawsonia alba
Hops	21.49(b)	Humulus lupulus
Horse radishes	21.63(e)	Cochlearia armoracia
Hybrid maize	21.15(a)	Zea mays
Indigo	*21.49(e)	Indigofera spp.
Jerusalem artichokes	21.38( <i>d</i> )	Helianthus tuberosus
Jute A Park The Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contr	21.42( <i>d</i> )	Corchorus spp.
Kale	21.61(c)	Brassica oleracea var. acephala
Kapok	23.33(e)	Ceiba pentandra
Kenaf	*21.42(e)	Hibiscus cannabinus
Kohlrabi	*21.63( <i>f</i> )	Brassica oleracea var. caulo-rapa
Lavender	*21.45	Lavandula spp.
Leek	21.43 $21.61(j)$	Allium porrum
Lemons	23.11(c)	Citrus limonum
Lemon grass	*23.39	Cymbopogon citratus
Lentils	21.23	Lens esculenta (Ervum lens)
Lespedeza	*21.51( <i>c</i> )	Lespedeza spp.
Lettuce	21.61(h)	Lactuca sativa
Licorice	*21.44( <i>b</i> )	Glycyrrhiza glabra
Limes, sour	23.11(e)	Citrus aurantifolia
Limes, sweet	*23.11( <i>f</i> )	Citrus limetta
Linseed	21.43(c)	Linum usitatissimum
Litchi	*23.19	Litchi sinensis
Loquat	*23.12(e)	Eriobotrya japonica
Lupines for grain	*21.29	Lupinus spp.
Macadamia (Queensland nut)	*23.16( <i>d</i> )	Macadamia spp.
Mace	23.23	Myristica fragrans
Maize	21.15	7. 12. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Maize, hybrid	21.15(a)	
Maize, ordinary, for grain	21.15(b)	Zea mays
Maize for silage	21.51(h)	
Mandarins	*23.11( <i>b</i> )	Citrus nobilis
Mangels (fodder beets)	21.38(b)	Beta vulgaris var. alba
Mangoes	23.14(d)	Mangifera indica
Manila hemp (abaca)	23.33(c)	Musa textilis
Manioc (cassava)	21.32	Manihot esculenta (utilissima)
Maslin	*21.18	Mixture of <i>Triticum</i> spp. and <i>Secale</i> cereale
Medlars	23.12( <i>d</i> )	cereate Mespilus germanica
Melons (excl. watermelons)	*21.62( <i>b</i> )	Cucumis melo

Спор	Reference number	BOTANICAL NAME
Millet	21.14(a)	Pennisetum glaucum; Eleusine coracana;
Millet, broom	*21.49(e)	Panicum miliaceum; Setaria italica; Echi-
Millet and sorghum	*21.14	nochloa crusgalli and similar spp.
Mint	*21.45	Mentha piperita
Mulberry for fruit	*23.19	Morus spp.
Mulberry for paper	*23.39	Broussonetia papyrifera
Mulberry for silkworms	*23.39	Morus alba
Mushrooms	21.66	Fungi
Mustard	21.43(d)	Brassica nigra; Sinapis alba
Nectarines	*23.13(c)	Prunus persica; Prunus persica var. nectarina
Niger seed	*21.43(k)	Guizotia abbyssinica
New Zealand flax (formio)	23.33(b)	Phormium tenax
Nutmeg	23.23	Myristica fragrans
Oats	21.17	Avena spp.
Oil palm	23.32(b)	Elaeis guineensis
Okra	21.62(h)	Hibiscus esculentus
Olive	23.32(c)	Olea europea
Onions, dry	21.36	Alliana aona
Onions, green	21.63( <i>b</i> )	Allium cepa
Opium	*21.44( <i>b</i> )	Papaver somniferum
Oranges	23.11(a)	Citrus sinensis
Oranges, bitter	*23.11( <i>f</i> )	Citrus aurantium
Orchard grass	*21.51(e)	Dactylis glomerata
Palm, oil	23.32(b)	Elaeis guineensis
Palm, palmyra	*23.39	Borassus flabellifer
Palm, sago	*23.39	Metroxylon spp.; Cycas spp.
Papaya	23.14(n)	Carica papaya
Parsnip	*21.63(h)	Peucedanum sativum
Peaches	23.13(c)	Prunus persica
Peanuts (groundnuts)	21.43(a)	Arachis hypogaea
Pears	23.12( <i>b</i> )	Pyrus communis
Peas, edible dry	21.25	Pisum sativum
Peas, harvested green	21.64(b)	(C
Pecan nut	*23.16(d)	Carya pecan (Carya illinoensis)
Pepper, black Peppers, dry	23.24 21.44(a)	Piper nigrum
Peppers, sweet		Capsicum fructescens (annuum)
Persimmon	$21.62(k)$ $\int$ $23.14(j)$	
Pigeon peas	*21.29	Diospyros kaki and Diospyros virginiana Cajanus cajan; Cajanus indicus
Pimentos	*21.44(a)	Capsicum  Capsicum
Pineapples	23.14(m)	Ananas comosus (sativus)
Pistachio nut	*23.14( <i>m</i> )	Pistacia vera
Plantains	23.16(l) $23.14(l)$	Musa paradisiaca
Plums and prunes	23.14(t) $23.13(d)$	Prunus domestica
Pomegranate	23.14(h)	Punica granatum
Poppy seed	21.43(e)	Papaver somniferum
Potatoes	21.45(e)	Solanum tuberosum
Potatoes, sweet	21.33	Ipomoea batatas
Prunes and plums	23.13( <i>d</i> )	Prunus domestica
	23.13(4)	Timus comestica

Спор	REFERENCE NUMBER	BOTANICAL NAME
Pomelo	*23.11( <i>d</i> )	Citrus decumana; Citrus grandis
Pumpkins, edible Pumpkins for fodder	21.62(c) $21.59(b)$	Cucurbita pepo
Pyrethrum	21.49(d)	Chrysanthemum cinerariaefolium
Quebracho	23.34(c)	Aspidosperma spp.
Queensland nut (macadamia)	*23.16( <i>d</i> )	Macadamia spp.
Quince	23.12(c)	Cydonia oblonga (vulgaris); Cydonia japonica
Quinoa	*21.19	Chenopodium quinoa
Radishes (incl. horseradishes)	21.63( <i>e</i> )	Raphanus sativus (incl. Cochlearia armoracia)
Ramie	*23.33( <i>d</i> )	Boehmeria nivea
Rapeseed (colza)	21.43( <i>j</i> )	Brassica campestris; Brassica napus; Brassica rapa
Raspberries	23.15(b)	Rubus idaeus
Red beets	21.63(c)	Beta vulgaris var. rubra
Red cabbage	*21.61(a)	Brassica oleracea var. rubra
Red-top	*21.51(e)	Agrostis spp.
Rhea	*23.33( <i>d</i> )	Boehmeria tenacissima
Rhubarb	21.61( <i>m</i> )	Rheum spp.
Rice	21.13	Oryza sativa
Rubber (hevea)	23.34(a)	Hevea spp.
Rutabagas (swedes)	*21.63( <i>f</i> )	Brassica napobrassica
Rye	21.12	Secale cereale
Safflower	*21.43( <i>k</i> )	Carthamus tinctorius
Sago palm	*23.39	Metroxylon spp; Cycas spp.
Salsify	*21.63(h)	Tragopogon porrifolius
Sainfoin	*21.51(c)	Onobrychis spp.
Sapodilla (zapote)	23.14(i)	Achras sapota
Satsuma	*23.11(b)	Citrus nobilis
Savoy cabbage	*21.61(a)	Brassica oleracea var. bullata
Scorzonera	*21.63(h)	Scorzonera hispanica
Sesame Silven hoots	21.43(h)	Sesamum indicum
Silver beets Sisal	*21.61(i)	Beta vulgaris var. maritima
	23.33(a) (i)	Agave sisalana
Sorghum Sorghum, broom	$21.14(b) \\ *21.49(e)$	Sorghum vulgare
Sorghum, sweet	*21.41(c)	Borghum vuigure
Sour limes	23.11(e)	Citrus aurantifolia
Soybeans	21.43(b)	
Soybean hay	*21.51(c)	Glycine soja
Spelt	*21.19	Triticum spelta
Spinach	*21.61( <i>i</i> )	Spinacia oleracea
Spinach beets	*21.61( <i>i</i> )	Beta vulgaris var. maritima
Spring barley	21.16(b)	Hordeum spp.
Spring rye	21.12( <i>b</i> )	Secale cereale
Spring wheat	21.11(b)	
Spring wheat, hard	21.11(b)(i)	Triticum spp.
Spring wheat, soft	21.11(b) (ii)	
Sprouts, Brussels	*21.61(a)	Brassica oleracea var. gemmifera
Squash	21.62(d)	Cucurbita spp.

Спор	REFERENCE NUMBER	BOTANICAL NAME
Strawberries	23.15(a)	Fragaria spp.
Sudan grass	*21.51(e)	Sorghum sudanense
Sugar beets for feed	21.38(c)	
Sugar beets for sugar or for alcohol	21.41(b)	Beta vulgaris var. altissima
Sugarcane for feed	*21.51(j)	
Sugarcane for sugar	21.41(a)	Saccharum officinarum
Sugarcane for thatching	*21.49(e)	
Sunflower for fodder	21.59(c)	
Sunflower for seed	21.43(i)	Helianthus annuus
Sunn hemp	*21.42(e)	Crotalaria juncea
Swedes (rutabagas)	*21.63(f) \	
Swedes for feed	21.38(f)	Brassica napobrassica
Sweet corn	21.65(b)	Zea mays
Sweet limes	*23.11( <i>f</i> )	Citrus limetta
Sweet peppers	21.62(k)	Capsicum fructescens (annuum)
Sweet potatoes	21.33	Ipomoea batatas
Sweet sorghum	*21.41(c)	Sorghum vulgare
Tangerines	*23.11( <i>b</i> )	Citrus nobilis
Tea	23.31(c)	Thea sinensis; Thea assamica
Timothy	*21.51(e)	Phleum pratense
Tobacco	21.49(a)	Nicotiana tabacum; Nicotiana rustica
Tomatoes	21.62(i)	Lycopersicon esculentum
Tung trees	*23.32(d)	Aleurites fordii; Aleurites triloba A. montana, A. moluccana
Turnips for feed Turnips, edible	21.38(a) 21.63(g)	Brassica rapa
Urena	*21.42( <i>e</i> )	Urena lobata
Vanilla	22.25	V:II!:f-!:-
	23.25 *21.29	Vanilla planifolia Vicia sativa
Vetches for grain	21.29	vicia sativa
Walnuts	23.16( <i>b</i> )	Juglans spp.
Water cress	*21.61( <i>l</i> )	Nasturtium officinale
Watermelons	21.62(a)	Citrullus vulgaris
Wattle, black	23.34(b)	Acacia spp.
Wheat	23.34(0)	**
White cabbage		Triticum spp.
Winter barley	*21.61(a)	Brassica oleracea var. alba
•	21.16(a)	Hordeum spp.
Winter rye	21.12(a)	Secale cereale
Winter wheat	21.11(a)	
Winter wheat, hard	21.11(a) (i)	Triticum spp.
Winter wheat, soft	21.11(a) (ii)	
Vome	*11.25	Diagrams and
Yams Vorha matá	*21.35	Dioscorea spp.
Yerba maté	23.31( <i>d</i> )	Ilex paraguensis
Zapote (sapodilla)	23.14(i)	Achras sapota

# II - NEAR EAST SUPPLEMENT TO THE WORLD PROGRAM



### INTRODUCTION

#### Outline of the Near East Supplement

The contents of each section on which modifications are made are subdivided as follows:

- (i) Additional and modified census items proposed
- (ii) Additional definition of census items and explanatory notes
- (iii) Modified and additional tabulation plans

Definitions and additional explanations are included in cases where it was judged necessary to clarify a specified item or subject, or when these were considered of particular importance for the region.

Changes in tables are made in accordance with those introduced in the list of items. A few additional tabulations are included as a consequence of additional or modified items proposed for the Near East region.

While indicating modifications in the census items proposed, it has been found necessary, sometimes, to repeat an item in the Supplement in the same way as it is presented in the World Program. Such items have been marked with an asterisk (*).

Additional items or any items not in the Short List of the World Program which are considered of major importance to the region are printed in **bold type** in the Supplement to indicate that they are considered to be Short List items for the Regional Program in accordance with the convention adopted (see pages 1 and 8).

Additional explanations of topics in the introduction to the World Program are given below.

# F. Preparatory work for the taking of a census (see page 5)

Under the item Geographic preparations for the taking of a census the following should be inserted before the last paragraph:

The availability of a suitable frame such as a list of villages or other primary units is highly essential for the taking of a census, regardless of whether the census is conducted on the basis of complete enumeration or of sampling. Administrative records or results of population censuses can be used for compiling or bringing up to date a complete list of villages.

* * *

The following new item should be added before TRAINING OF SUPERVISORY AND SPECIALIZED PERSONNEL (see page 6, column 2):

#### CENSUS ENUMERATORS

Careful consideration should be given to the type of persons most suitable to be employed as census enumerators, and the kind of training to be given to them. It is emphasized that, apart from basic educational qualifications, the census enumerator must have some rural background, familiarity with the agricultural pattern of the region, a liking for outdoor field work, honesty and integrity, and an understanding of the language and customs of the rural population. Agricultural field staff, such as extension agents, usually are suitable for this purpose, provided they are given adequate training.

* * :

The following new topic should be added at the end of page 10:

#### O. Improvement of livestock statistics in the region

In view of the importance of livestock in the economy of most countries of the region, it is suggested that Near East countries should give particular attention to the improvement of livestock statistics in general on the occasion of the 1970 Agricultural Census. The census itself would provide some useful information on several aspects of livestock associated with agricultural holdings. However, many countries of the region require information on livestock products, such as eggs and milk, which would not be obtained satisfactorily from agricultural censuses. Such information may be better obtained through special surveys.

The question of livestock movements across international boundaries is of particular importance in the region. Some livestock movements are registered, whereas others are illegal and hence not registered. If all the countries of the region, in addition to the agricultural census, simultaneously undertake a special livestock survey, it would assist in providing more precise information on total livestock production.

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# Section 0 - HOLDING, HOLDER, TENURE, AND TYPE OF HOLDING

#### Additional and modified census items proposed

Modification of subitem 04.12(b)

In the Regional Program, subitem 04.12(b) has been modified so that livestock holding could be distinguished from poultry holding. Therefore, on page 11 of the World Program, subitem 04.12 (b) should be replaced by the following:

(b.	1)	Livestock holding	
(b.	2)	Poultry holding	: [

# Additional definition of census items and explanatory notes

OPEN RANGE LAND

An agricultural census collects information on the agricultural structure of a country insofar as agriculture is carried out on agricultural holdings. Consequently, open range land, including land potentially productive for agriculture or forestry, and not forming part of any agricultural holding, should be excluded from the census. Information on the land utilization of open range areas might be obtained through special surveys conducted separately from the agricultural census.

SEPARATE PIECES OF LAND OPERATED IN DIFFERENT PARTS OF THE COUNTRY

In certain countries of the region, some persons may operate separate pieces of land spread over different parts of the country. The criteria to be applied for considering these pieces of land as one or more holdings should be based on whether these pieces of land are operated as one technical unit or not. In the latter case, they constitute different agricultural holdings operated by the same holder. Information for census purposes should then be collected separately for each holding but demographic data, as far as possible, should be assembled only once for the holder himself in respect of his age,

main occupation, and as regards the members of his household.

TREE HOLDINGS

A group of trees operated for agricultural purposes by persons who do not have any right to the use of the land on which the trees are grown should be considered as special kinds of agricultural holding without land and included in the agricultural census. Data regarding tree holdings should be tabulated separately from other holdings.

LOCATION OF THE HOLDING (see page 13)

Holdings consisting of scattered parcels located in different villages should be assigned to the village in which the largest part of the area of the holding is located.

To assure the proper identification of parcels in the census in the case that information on areas is collected during two or more rounds, or for the purposes of postenumeration (evaluation) surveys, countries should, in their census questionnaire, also provide information on the location of each parcel.

Type of holding (see page 15)

For purposes of classification of holdings by type, barter transactions should be considered as sales operations.

#### Modified and additional tabulation plans

According to changes in the list of items introduced in the Regional Program, Table 0.8 of the World Program — Number and area of holdings, by type and by size of holding — the column "Livestock and poultry holdings" is subdivided into: "Livestock holdings" and "Poultry holdings."

This table should therefore read as follows:

Table 0.8. - Number and area of holdings, by type and by size of holding 1

All holdings with and without land Holdings with and without land Holdings with and without land Holdings under 0.5 hectare and under 0.5  Holdings 0.5 hectare and under 0.5  Holdings 0.5 hectare and under 1  1 hectare and under 2  2 hectares and under 2  3 hectares and under 2  5 hectares and under 7  1 hectares and under 2  5 hectares and under 7  6 hectares and under 7  7 hectares and under 2  8 hectares and under 2  9 hectares and under 2  10 hectares and under 10  10 hectares and under 10  10 hectares and under 10  10 hectares and under 10  11 hectares and under 10  12 hectares and under 10  13 hectares and under 10  14 hectares and under 10  15 hectares and under 10  16 hectares and under 10  17 hectares and under 10  18 hectares and under 10  19 hectares and under 10	Z c a p	Area xxx	Crops holdings Number Area	Livestock holdings Number A	ock ngs	Poultry holdings	ry	Mixed	q	ŏ	Other
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2,500 hectares and over	***	×××	×××		××		XX		×××		×××
Holdings of size not reported											

¹ Some countries may wish to prepare this table also by form of tenure.

Table 3.13 - Other domesticated animals

	Number of holdings reporting	Number of head reported		Number of holdings reporting	Number of head reported	Production (unit of measure)
Camels (total)  Under 4 years of age	XXX XXX XXX XXX	xxx	Other fur-bearing animals  Bees Honey produced Beeswax produced  Silkworms Eggs placed in incubation Fresh cocoons produced	XXX XXX XXX	1 XXX XXX XXX XXX XXX	XXX

¹ Total number of beehives.

### Section 4 - EMPLOYMENT IN AGRICULTURE

#### Additional and modified census items proposed

TRANSFER FROM THE EXPANDED LIST TO THE SHORT LIST

World Program items 42.11 — Holder and unpaid members of his household — and its subitems (a), (b) and (c) as well as subitem 42.13 (a) — Persons working for pay on the holding, Permanent workers — are transferred from the Expanded to the Short List for the Regional Program. This change relates only to the column "Total." Therefore, the appropriate part of the stub and the heading on page 49 of the World Program relating to Major Group 42 should read as printed in **bold type**, as indicated below:

#### Modified and additional tabulation plans

According to modifications introduced in the list of items for the Regional Program in Table 4.2 — Number of persons employed in agricultural work on the holding during the census week, by size of holding (All persons) — the corresponding footnote (1) on page 53 of the World Program should be modified to read: "This table should be repeated for participants in co-operative, collective and communal holdings." Furthermore, two new tables, 4.2 (a) and 4.2 (b), are added in the Regional Program as a result of transferring item 42.11 and its subitems (a), (b) and (c), as well as subitem 42.13 (a) from the Expanded to the Short List, as shown on pages 92 and 93.

			Male			Female	
Major group Group	Total	Under 15 years of age	15 to 64 years of age	65 years of age and over	Under 15 years of age	15 to 64 years of age	65 years of age and over
42. EMPLOYMENT IN AGRICULTURAL WORK ON THE HOLDING DURING THE CENSUS WEEK							
42.11 Holder and unpaid members of his household			•••				
(a) Permanent workers (b) Temporary workers		•••	• • •		•••	•••	•••
(c) Occasional workers 42.13 Persons working for pay on	•••	···	***	•••	•••	•••	•••
the holding				• • •	•••	•••	
*(b) Temporary workers			•••	•••		•••	

^{*} Item repeated without modification from the World Program.

Table 4.2 (a). - Number of persons employed in agricultural work on the holding during the census week, by size of holding Holding their households

			-	erman	Permanent workers	rkers				Ten	porary	Temporary workers	S.			O	Occasional workers	nal wo	kers	
	1			Male		11.	Female			Male	9		Female				Male		F.	Female
Size class	Mumber of hold reporting Total numbe of workers	ls30T	Under 15 years of age	15 to 64 years of age	65 years of age and over	Under 15 years of age	sase fo of deep of age	and over	Total  Under 15 years	of age	of age  65 years of age read over	Under 15 years	15 to 64 years of age	65 years of age and over	Total	Under 15 years of age	15 to 64 years of age	65 years of age and over	Under 15 years of age 15 to 64 years	of age
All holdings with and without land																normanian e en accionada			-	
Holdings without land	· · · · ·										***************************************						-			
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2,500 hectares and over		:			:															
Holdings of size not reported	. 1																			
	-		_	-		_	-	-		-										

# Section 1 - LAND UTILIZATION

Additional definition of census items and explanatory notes

COVERAGE (see page 21)

It is emphasized that tree holdings (see definition of tree holdings on page 87) should not appear in

any of the land utilization classes, as the operators of the trees have no right to the operation of the land. Only the number of trees on these holdings should be reported in Section 2 — Crops, under the appropriate items of the permanent crops. Land on which the tree holding exists should be reported within the holdings of the person who operates this land.

# Section 3 - LIVESTOCK AND POULTRY

## Additional and modified census items proposed

SUBDIVISION OF ITEM 31.42

In the Regional Program item 31.42 — Camels 4 years of age and over (total) — has been subdivided into two classes: under 25 years of age, and those 25 years and over. Therefore, on page 37 of the World Program, after item 31.42, the following subitems should be added:

- (a) Camels 4 years of age and under 25
- (b) Camels 25 years of age and over

Transfer from the Expanded List to the Short List

In the Regional Program subdivision of items, 34.12 — Sheep 1 year of age and over — and 35.12 — Goats 1 year of age and over — by sex, are transferred from the Expanded List to the Short List. The appropriate subitems on page 39 of the World Program should therefore read as printed in **bold** type, i.e.:

*34.12 Sheep 1 year of age and over

- (a) Male (whether castrated or not)
- (b) Female

and

- *35.12 Goats 1 year of age and over
  - (a) Male
  - (b) Female

# Modified and additional tabulation plans

According to changes in the list of items introduced in the Regional Program, Tables 3.8, 3.9 and 3.13 have been adequately modified as follows:

In Table 3.8 — Number of sheep and production of wool, by size of holding — columns under the heading Number of sheep 1 year of age and over are transferred from the Expanded List to the Short List.

In Table 3.9 — Number of goats and production of goat hair and mohair, by size of holding — columns under the heading Number of goats 1 year of age and over are transferred from the Expanded to the Short List.

In Table 3.13 — Other domesticated animals — item "Number of camels 4 years of age and over" has been subdivided into "Camels 4 years of age and under 25," and "Camels 25 years of age and over."

The above-mentioned tables should therefore read as follows:

^{*} Item repeated without modification from the World Program.

Table 3.8. - Number of sheep and production of wool, by size of holding 1

	Number		Number		er of sheep 1 age and ove		Wo	ool
Size class	of holdings reporting	Total number of sheep	of lambs under 1 year				Number of sheep	Production
	sheep	reported	ofage	Total	Male	Female	clipped during the year	(unit of measure)
All holdings with and without land								
Holdings without land	-							
Holdings under 0.5 hectare								
under 0.1 hectare			. ]	-				
0.1 hectare and under 0.2								
0.2 hectare and under 0.5								
Holdings 0.5 hectare and over		-						and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th
0.5 hectare and under 1		-		*	- Indiana			
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2 hectares and under 3					1.			
3 hectares and under 4		-	-					
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500 hectares and under 1,000	-							
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2,500 hectares and over	- Company							
Holdings of size not reported							ries de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la con	

¹ Countries which are in a position to do so are requested to tabulate these data according to the form of tenure of the holding.

Table 3.9. - Number of goats and production of goat hair and mohair, by size of holding 1

	Number		Number		ber of goats fage and ov		Goat hair	and mohair
Size class	of holdings reporting	Total number of goats	of goats under 1 year				Number of goats	Production
	goats	reported	of age	Total	Male	Female	clipped during the year	(unit of measure)
All holdings with and without land								
Holdings without land					TO THE PERSON NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN NAMED IN COLUMN	1		
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0.1 hectare and under 0.2								
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4 hectares and under 5								
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20 hectares and under 50				Maria de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania del compania del compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania del la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de				
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1,000 hectares and under 2,500				1				
2,500 hectares and over	1							
Holdings of size not reported						1		
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³ Countries which are in a position to do so are requested to tabulate these data according to the form of tenure of the holding.

Table 4.2 (b). - Number of persons employed in agricultural work on the holding during the census week, by size of holding Persons working for pay

			65 years of age and over																				
		Female	15 to 64 years																				
	orkers		Under 15 years of age				1.1.					1	1					:					
	Occasional workers		65 years of age and over						- 1			- 1	:		:					. 1			
	Occas	Male	15 to 64 years of age						1									1			:		
			Under 15 years of age				:						:								. 1		:
			IssoT					:															
			65 years of age and over																				:
		Female	15 to 64 years of age																				
	orkers		Under 15 years of age																:				
	Temporary workers		65 years of age and over								*********												
	Tempo	Male	15 to 64 years of age																				:
			Under 15 years of age					:				-										1	
			lesoT					:															
r pay			65 years of age and over							:													
rersons working for pay		Female	15 to 64 years of age		was a sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the sure of the				1														٠.
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ī	Perma	Male	to 64 years of age	***************************************																			
			Under 15 years of age										:	:									
			Total														:						
			Total number of workers														:		-			•	
		sgu	iblod to TodmuM Reporting							,													
			Size class	All holdings with and without land	Holdings without land	Holdings under 0.5 hectare	under 0.1 hectare	0.2 hectare and under 0.5	Holdings 0.5 hectare and over	0,5 hectare and under 1	1 hectare and under 2		under	4 hectares and under 5	10 hectares and under 20	hectares and		hectares and	200 hectares and under 500			50	

### Section 5 - FARM POPULATION

# Additional definition of census items and explanatory notes

FARM POPULATION

In accordance with the concept of farm population, holders and members of their households should be included in the farm population whether they are living on the holdings or not, e.g., living in towns or villages that are far from the land operated. Those persons not members of the holder's household but living on the holding at the census date, whether working on it or not, should be included under item 51.2 — Other persons living on the holding. It is emphasized, however, that agricultural workers not living on agricultural holdings even if working permanently in agriculture are to be excluded from the farm population concept.

With regard to agricultural workers who are not living on holdings and therefore are excluded from the farm population as covered by the agricultural census, certain information on this population could

be collected at the time of preparing a list of agricultural holdings when census enumerators visit the households. Such additional information may be very useful for obtaining a more complete picture of the population connected with agriculture.

HOUSEHOLDS IN WHICH MEMBERS OPERATE DIFFERENT HOLDINGS

For the collection of data on households in which members are operating different holdings, certain rules should be established as to how to record information on farm population. In order to avoid duplication, some kind of artificial partitioning of such a household may be accepted, for example, assigning to each holder his closest dependents, so that each person in the household would belong to one holding only. Another possibility would be to collect personal information on all members of the household only in relation to the most important holding.

# Section 6 - AGRICULTURAL POWER AND MACHINERY AND GENERAL TRANSPORT FACILITIES

#### Additional and modified census items proposed

Transfer from the Expanded List to the Short List

From the World Program, items 65.41 and 65.42 are transferred from the Expanded to the Short List for the Regional Program. Hence, on page 60 of the World Program, Group 65.4 and items 65.41 as well as 65.42 should be replaced by **bold type**, i.e.:

65.4 Combines (harvester-threshers)

65.41 Tractor-operated 65.42 Self-propelled Additional definition of census items and explanatory notes

AGRICULTURAL MACHINERY OWNED OUTSIDE AGRICULTURAL HOLDINGS

It is noted that in some countries of the region a part of the machines used in agriculture is owned by nonagricultural units or establishments. In accordance with the World Program, such machines would be excluded from the census. In countries where the number of these machines is significant, such an approach would not give a complete picture of mechanization in agriculture. It is therefore recommended that, at the time of the agricultural census, a special survey be conducted on machinery used in agriculture but held by nonagricultural units and establishments. Tabulation of such data should be done separately from information collected in the agricultural census itself.

### Section 7 - IRRIGATION AND DRAINAGE

#### Additional and modified census items proposed

#### ADDITIONAL ITEM

In the Expanded List of the Regional Program, a new item regarding area supplied with water by a combination of methods of water supply has been introduced. In the list of items on page 65 of the World Program, after item 71.34, the following should therefore be added:

71.35 Area supplied with water by a combination of methods of water supply

# Additional definition of census items and explanatory notes

Data from authorities of irrigation projects on area irrigated

Collection of information from authorities of irrigation projects on area irrigated will give only very

limited results because these projects usually cover restricted areas. Collection of these data, however, might be useful for checking the information obtained from the census on area of land provided with irrigation facilities.

#### Modified and additional tabulation plans

According to changes in the list of items introduced in the Regional Program, Table 7.1 — Number of holdings reporting area of land provided with irrigation facilities and area of land actually irrigated, by source of water and by method of water supply — should be amended as indicated. Further, in view of the important role that irrigation plays in the region, Table 7.1 should present data classified by size of holding. Table 7.1 on page 66 of the World Program is therefore replaced by the following table:

Table 7.1. - Number of holdings reporting area of land provided with irrigation facilities and area of land actually irrigated, by source of water and method of water supply, by size of holding

					Area of la	Area of land actually irrigated	irrigated					
	Z		By	By source of water	ter		By met	By method of water supply	supply			
	of holdings reporting area of land actually irrigated	Total	By water supplied from the holding itself	By water supplied from outside the holding	By water supplied from inside and outside the holding	By gravity flow	By pumping from streams, canals, tanks, lakes and other surface water sources	By pumping from ground- water	By a combination of methods of water supply	By other means	Area of land provided with irrigation facilities	Area irrigated by sprinklers
All holdings with land					-							
Holdings under 0.5 hectare												
0.1 hectare and under 0.2												
0.2 hectare and under 0.5		-			-							
Holdings 0.5 hectare and over					-		:					
0.5 hectare and under 1												
1 hectare and under 2												
3 hectares and under 4					- :							
4 hectares and under 5												
5 hectares and under 10												
50 hectares and under 100												
				:								
1,000 hectares and under 4,500	1											
Holdings of size not reported												

# Section 10 - ASSOCIATION OF AGRICULTURAL HOLDINGS WITH OTHER INDUSTRIES

# Additional definition of census items and explanatory notes

CONTRACT OPERATIONS (see page 73)

Contract operations for purchasing a quantity of crops consist of agreements which are usually made before the cultivation of a crop. The aim is to assure the contractor entering into agreement with the holder that, after harvest, he will be provided with

certain quantities of one or more agricultural products from the holding. Such contracts, therefore, have an important influence on the holder's decision as to the area which should be cultivated with the crop contracted. On the other hand, agreements made shortly before harvest for purchasing crops should not be considered as contract operations, since they are made after the cultivation of the crop and, as such, have no influence on the holder's decision regarding cultivation.

#### PROGRAM FOR THE 1970 WORLD CENSUS OF AGRICULTURE

#### Corrigenda

Page 7, col. 2, line 3 from bottom: for "page 12" read "page 8"

Page 29, item 21.51 (d): dots (...) should be included in each of the first three columns of the table and crosses (xxx) should be entered in the last column

Page 38, item 32.24(f): dots (...) should be included in the first column of the table and crosses (xxx) should be entered in the two other columns

Page 63, Table 6.4, sixth line of stub: for "Garden tractors" read "Power tillers and other single-axle traction power units"

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