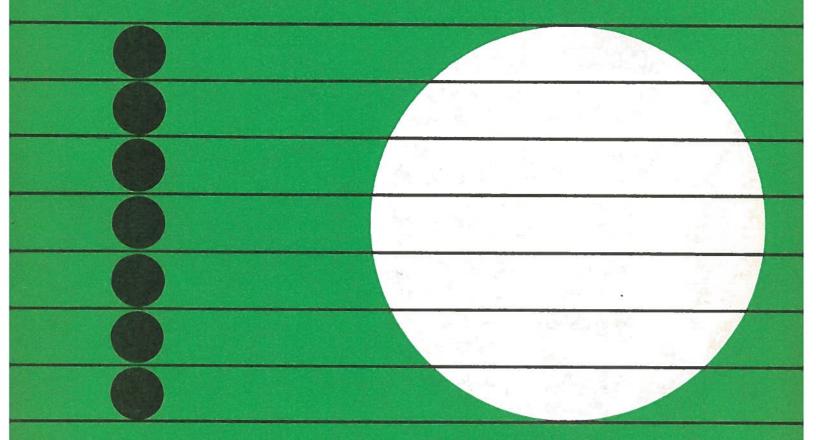
# 1970 WORLD CENSUS OF AGRICULTURE

## REGIONAL PROGRAM FOR ASIA AND THE FAR EAST



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#### **PREFACE**

The Thirteenth Session of the FAO Conference, in its Resolution No. 3/65 on the 1970 World Agricultural Census, 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 Agricultural Census, 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 Asia and the Far East consists of two parts:

- I World Program
- II Asia and the Far 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 Asia and the Far East region. The Supplement has been prepared on the basis of recommendations obtained from the First Session of the Asia and Far East Commission on Agricultural Statistics, held in Tokyo, Japan, 26 September to 3 October 1966. The Commission 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 for 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 type or ordinary. The Short List items are considered to be of major importance in world and/or regional agriculture and data on these items are desired to be collected from all countries of Asia and the Far 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 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 and 10 of the World Program remained unchanged for Asia and the Far 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;
- 6. 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;
- 9. 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 INSTRUCTIONS

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 country. 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).
- 3. 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

#### 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

Maj		
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 on 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 02.81 Civil person 02.82 Corporation 02.83 Co-operative or consciously planned collective 02.84 Government 02.85 Tribe and/or clan
	02.9	<b>02.89 Other</b> Name of the respondent and his relationship to the 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 others  03.21 Area rented for a fixed amount of money 03.22 Area rented for a fixed amount of produce 03.23 Area rented for a fixed amount of money and some produce  03.24 Area rented for a share of the produce or 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-
	03.3	free) and in right of usufructuary mortgages  Area of the holding which is operated on a squatter basis
	03.4	Area of the holding which is operated under tribal or traditional communal forms of tenure
	03.9	Area of the holding which is operated under other forms of tenure not included in the 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
		In the case of holdings producing mainly for sale, check the appropriate box below:  (a) Crops holding
		(b) Livestock and poultry holding

(c)

Mixed holding

Other

#### 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 land-holdings 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 lease-hold 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, area, mode of operation and fragmentation of holdings, by size

	Hold	ings		Mode of	operation		Fragme	ntation
Size class	Number	Area	By the h	older <sup>1</sup>	Through mana		Number of parcels in the	Average number of parcels
			Number	Area	Number	Area	holdings reporting <sup>2</sup>	per holding <sup>2</sup>
All holdings with and without land								
Holdings without land		xxx		xxx		xxx	xxx	xxx
Holdings under 0.5 hectare								
under 0.1 hectare								1.5
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	1		* .					
2 hectares and under 3								
3 hectares and under 4							1.3	
4 hectares and under 5								
5 hectares and under 10		7.74					111	
10 hectares and under 20								
20 hectares and under 50								
50 hectares and under 100	1.	į.						
100 hectares and under 200								
200 hectares and under 500	1.	7.1						
500 hectares and under 1,000								
1,000 hectares and under 2,500								
2,500 hectares and over								
Holdings of size not reported		×××		xxx		xxx		

<sup>&</sup>lt;sup>1</sup> Excludes holdings where the hired manager is considered as the holder. - <sup>2</sup> 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

		33.75	All holdings			1.3	Holdin	ngs fully ow	ned 2	
	1	Number of	holdings co	nsisting of:		- 1	Number of	holdings co	nsisting of	: 1 - 1
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
All holdings with land								1		
Holdings under 0.5 hectare										
0.1 hectare and under 0.2		1								
Holdings 0.5 hectare and over										
0.5 hectare and under 1										
2 hectares and under 3										
4 hectares and under 5										
10 hectares and under 20			on the second							
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										-
doldings of size not reported										

<sup>&</sup>lt;sup>1</sup> Some countries may wish to prepare this table also by legal status of holder. - <sup>2</sup> 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)

Size class	Number of holders		Numb	er of holders wl	no are:	
Jacobs State Control of the Control	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						
0.1 hectare and under 0.2 0.2 hectare and under 0.5						
Holdings 0.5 hectare and over						
1 hectare and under 2 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						
2,500 hectares and over						

<sup>&</sup>lt;sup>1</sup> 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 occu		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				
under 0.1 hectare				
0.2 hectare and under 0.5				
Holdings 0.5 hectare and over				
1 hectare and under 2				
2 hectares and under 3				
4 hectares and under 5				
10 hectares and under 20				
20 hectares and under 50 50 hectares and under 100				
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

					1 1 1	Но	ldings b	y legal	status	of hold	ler	1.5	11-11-	
Size class	Tot holdi repor	ngs	Civ pers		Cor rati		Co-op ative conscio plani collec	or ously ned	Gove me		Tri and cla	or	Oth	er
	Num- ber	Area	Num- ber	Area	Num- ber	Area	Num- ber	Area	Num- ber	Area	Num- ber	Area	Num- ber	Area
All holdings with and without land				<u>                                       </u>						1				<u></u>
													1.0	
Holdings without land		xxx		xxx		xxx		xxx		ххх		xxx		xxx
Holdings under 0.5 hectare												Ĺ		
under 0.1 hectare				1.										
0.1 hectare and under 0.2												:		
0.2 hectare and under 0.5		1				:							1.7	1
Holdings 0.5 hectare and over										1			1.0	
0.5 hectare and under 1														
1 hectare and under 2												1 11		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						1								
50 hectares and under 100						1								
100 hectares and under 200		<b>l</b> .										1		
200 hectares and under 500														
500 hectares and under 1,000						1			1					
1,000 hectares and under 2,500		:				1		Ì						
2,500 hectares and over									1					
Holdings of size not reported		xxx		xxx		xxx		xxx	1	xxx		xxx		xxx
riordings of size not reported		^^^		^^^		~~~			1	^^^				1

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

					Tolor	nothings operated under one form of tenure								one form of tenure	of tenure	4
	Total	Owned			Ren	Rented from others	thers	-		-	Under			More than 50% of	l	-
Size class	holdings 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 tenure	Under other single forms of tenure	Total	cotal area owned by the ho der or in ownerlike possession	At least 50% of total area rented	other other
	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. Area	No. Area	No. Area No. Area No. Area No. Area	No. Area	No. Area	No. Area
All holdings with land				:												
Holdings under 0.5 hectare				1							:					
under 0.1 hectare																
0.2 hectare and under 0.5																
Holdings 0.5 hectare and over																
0.5 hectare and under 1																
2 hectares and under 3																
3 hectares and under 4																
-																
10 hectares and under 20 20 hectares and under 50																
100 hectares and under 200.																
1,000 hectares and under 2,500																
2,500 hectares and over																
Holdings of size not reported	XXX	XXX	×××	××	XXX	XX	×××	××		xxx	××	××	××	×××	xxx	××

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

4

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

1adie U./.	- Total	area o	HOIGH	gs, by	tenure a	na by s	ize of f	oramg		and the first	3.343	
					Area rei	nted from	n others		14 14 15		Area	3.5
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 <sup>1</sup>	Area oper- ated on a squat- ter basis	oper- ated under tribal or tradi- tional com- munal forms of tenure	Area operated under other forms of tenure
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 10 20 hectares and under 50 50 hectares and under 50 50 hectares and under 50 50 hectares and under 50 500 hectares and under 50 500 hectares and under 50 500 hectares and under 1,000 1,000 hectares and under 2,500 1,000 hectares and under 2,500 1,000 hectares and under 2,500												
Holdings of size not reported								:.				

<sup>&</sup>lt;sup>1</sup> 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 1

Size class  If holdings with and without land	Hold produ mainly fo consum	cing or home	Num- ber	Area	Cro hold Num- ber		Lives and p hold Num-	oultry	Mix holdi Num-		Oti hold Num-	
		Area		Area		Area		Area		Area	Num-	A = a =
							Del		ber	Aiea	ber	Vier
aldiana suisbassa land		1					İ					
oldings without land	1	xxx		xxx		xxx		xxx	1	xxx	1.1	xxx
网络斯特特特 医多种性 电电流 电电流电流	1 1						:	* .				
oldings under 0.5 hectare									- :			
under 0.1 hectare												
0.1 hectare and under 0.2								4.		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						1						1
3 hectares and under 4		1		1		¥.	1					
4 hectares and under 5	-											
5 hectares and under 10				1,								
10 hectares and under 20		1.										
20 hectares and under 50								1. 1		3		
50 hectares and under 100												
100 hectares and under 200			1.							1.0		
200 hectares and under 500										1		
500 hectares and under 1,000						1.		1.				
000 hectares and under 2,500												
500 hectares and over										1.	1 1	
and the first of the second section is a first of the second second section in the second section is a second										4.1		
oldings of size not reported		xxx		xxx		xxx		XXX		XXX		xxx

<sup>&</sup>lt;sup>1</sup> 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

	<b></b>		1 . A		nd	perr	nanent		under ows an	d past	ures	Wood or				land
Size class	Total land	Ara la:		perm	der anent ops	То	tal	Culti	/ated		cul- ited		est nd	Total area	Unused and poten- tially	Land not clas- sified
	ares	ber	ea ares)	ber	Area (hectares)	ıber	ea ares)	ber	ea ares)	ber	ea ares)	ber	Area lectares)		pro- ductive	else- where
	Hectares	Number	Area (hectares)	Number	Ar (hect	Number	Area (hectares)	Number	Area (hectares)	Number	Area (hectares)	Number	Ar (hect	Hec- tares	Hec- tares	Hec- tares
		:														
											i,					
All holdings with land																
Holdings under 0.5 hectare						1										
under 0.1 hectare			1							1						
0.1 hectare and under 0.2																
0.2 hectare and under 0.5												1.				1
Holdings 0.5 hectare and over			1													
0.5 hectare and under 1								1.					1 .			
1 hectare and under 2				1									1 . 3			
2 hectares and under 3	1. 1.													1		
3 hectares and under 4							1								100	
4 hectares and under 5																
5 hectares and under 10	1															
10 hectares and under 20					1 .											
20 hectares and under 50		- 1					1 : :									
50 hectares and under 100								1								
100 hectares and under 200						;										
200 hectares and under 500									1							
500 hectares and under 1,000												l				
,000 hectares and under 2,500				1	-			1								
2,500 hectares and over																1 %
医抗电影 电电流电路 医电路电路 电电路 电克克特	100	1								1						
Holdings of size not reported																

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  Holdings under 0.5 hectare under 0.1 hectare 011 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 20 20 hectares and under 50 50 hectares and under 50 50 hectares and under 100 1100 hectares and under 200 200 hectares and under 200 200 hectares and under 500 500 hectares and under 2,500 2,500 hectares and over						

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

Size class	Total land	Arable land	Land under permanent crops	Land under permanent meadows and pastures	Wood or forest land	All other land
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 6 hectares and under 10 10 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 500 500 hectares and under 1,000 1,000 hectares and under 2,500 2,500 hectares and under 2,500 2,500 hectares and over  Holdings of size not reported						

<sup>&</sup>lt;sup>1</sup> 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

	Holdings	Holdings producing mainly for sale								
Land utilization class	producing mainly for home consumption	Total	Crops holdings	Livestock and poultry holdings	Mixed holdings	Other holdings				
Total  Arable land  Land under permanent crops  Land under permanent meadows and pastures  Total  Cultivated  Uncultivated										
Wood or forest land All other land										

Table 1.5. - Area, in hectares, of holdings, by land utilization (Specify type of holdings)<sup>1</sup>

Size class	Total land	Arable land	Land under permanent crops	Land under permanent meadows and pastures	Wood or forest land	All other land
All holdings with land			:			
Holdings under 0.5 hectare under 0.1 hectare 0.1 hectare and under 0.2						
O.2 hectare and under 0.5  Holdings 0.5 hectare and over  O.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						
50 hectares and under 100						
1,000 hectares and under 2,500						

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

Major	Area Product							
group Group	Total <sup>1</sup>	Irrigated	Not irrigated Total					
21. CROPS ON ARABLE LAND								
21.1 CEREALS HARVESTED FOR GRAIN								
21.11 Wheat								

<sup>&</sup>lt;sup>1</sup> 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				Area		Production
Group			Total <sup>1</sup>	Irrigated	Not irrigated	Total
21. 21.1						
	21.12	Rye(a) Winter rye				
		(b) Spring rye				
	21.13	and the contract of the contra		2	3	
	21.14	Millet and sorghum				
		[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	•••	•••	•••	
	21.15	Maize [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				
		(b) Ordinary maize				
	21.16					
		(Include barley for all uses)				
		(a) Winter barley	•••	•••	•••	
	24 47	(b) Spring barley	•••			
	21.17	(Include oats for all uses and mature	•••	•••		
		oats fed unthreshed)				
	21.18	Mixed grains (maslin, etc.)				
	21.19	Other cereals harvested for grain				
		(buckwheat, quinoa, spelt, etc.)	• • •		•••	
21.2	LEGU	JMINOUS PLANTS MAINLY FOR				
		(Include all dry pulse crops except				
		soybeans and groundnuts)				
	21.21	Dry broad beans	•••			
	21.22		•••		•••	
	21.23	Lentils	•••	• • • •	•••	
		Chick peas (gram)  Edible dry peas	•••			
	21.29	Other legumes mainly for grain (lu-				
		pines, vetches, fenugreek, pigeon peas, cowpeas, bambarra nuts [earth				
		peas], etc.)				
		Burgara Barangan Kabupatèn Barangan Barang				
21.3		ER, ROOT AND BULB CROPS FOOD OR FEED				
		alfore e e e a la la la calabata de la				
	21.31	Potatoes (Early and late crops for all purposes,		•••		•••
		including seed potatoes)				
	21.32	Manioc (cassava)				
	21.33	Sweet potatoes				
	21.34	Arrowroot				
	21.35	Cocoyams and yams				
	21.36	Dry onions				
	21.37	, ,	1			
	21.38	Tuber, root or bulb crops grown prin- cipally for feed				
		(a) Turnips	•••	•••	•••	xxx
		(b) Mangels (fodder beets)	•••	•••		XXX
		(c) Sugar beets for feed				XXX
		(e) Carrots				xxx
		(f) Swedes		•••		xxx
						l e

<sup>&</sup>lt;sup>1</sup> 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. – <sup>2</sup> Wet rice. – <sup>3</sup> Dry rice.

Major				Area		Production
group Group			Total 1	Irrigated	Not irrigated	Total
21. 21.3						
	21.39	Other tuber, root or bulb crops grown for food or feed				xxx
21.4		PORARY CROPS MAINLY FOR				
		JSTRIAL PURPOSES				
	21.41	Sugar crops (a) Sugarcane for sugar				
		[Include area cut for planting, for				
		chewing, and for sugarcane juice.				
		Sugarcane for feed should be reported 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 sor-				
	24.42	ghum, etc.)		•••		
	21.42	Fiber crops (a) Cotton				
		(b) Flax harvested for fiber				
		(c) Hemp harvested for fiber (in-				
		cluding hemp for paper mills)	•••	•••		
		(d) Jute (e) Other fiber crops (sunn hemp,				
		kenaf, urena, etc.)				1.2.3.3.3
21.4	21.43	Oilseed crops				
		(a) Groundnuts (peanuts, for all				
		purposes)				
		(c) Linseed [Flax for fiber is included				
		under 21.42 (b)]	1		1.1.	
		(d) Mustard				
		(e) Poppy seed (f) Hempseed (e)				
		(g) Castor beans			•••	
		(h) Sesame				
		(i) Sunflower				
		(i) Rapeseed or colza				
		flower seed, niger seed, etc.)		<b></b>		
	21.44			4.4 (4.4)		
		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-				
	04 15	um, cardamom, caraway seed, etc.)		•••	•••	xxx
	21.45	(0., 0,				
	21.49	lavender, mint, etc.)				xxx
	41.77	Other industrial crops (a) Tobacco				
		(i) Flue cured				
		(ii) Other types	•••	••••		
		(b) Hops		•••	•••	
		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			

<sup>&</sup>lt;sup>1</sup> 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).

or				Area		Production
up Group			Total <sup>1</sup>	Irrigated	Not irrigated	Total
21.5 TE	EMPO!	RARY FODDER CROPS				11111
21		egumes, grasses and cereals cut for				
		nay, green feed, or silage (Include all				
		rotation land from which temporary rops were cut, even if also grazed				
		pefore or after fodder was cut)		1.11		
		a) Alfalfa alone				xxx
		b) Clover alone				xxx
	(	c) Other leguminous forage crops				
		alone (lespedeza, sainfoin, soy-				
		bean hay, etc.)	•••		•••	xxx
		d) Leguminous forage crop, mixed	10.4 0.5			
	•	e) Grasses alone (timothy, red-top,				
	1	sudan, orchard grass, etc.)  f) Grasses, mixed				XXX
		g) Mixed legumes and grasses				XXX
		h) Maize (corn) for silage				XXX
		i) Other cereals cut for hay, green				
		feed or silage				xxx
	(	j) Other fodder crops cut for hay,				
		green feed or silage (e.g., sugar-				
		cane for feed, maize and soybeans				
_	4 50	mixed, etc.)	•••		•••	xxx
21		egumes, grasses and cereals grown				1111
		only for grazing (Exclude all rotation				
		and from which grasses, legumes, cereals were cut for hay or for green				
		eed and/or silage which should be				
		eported under 21.51)				xxx
		(a) Alfalfa, clover and other legumi-				
		nous plants				xxx
		b) Grasses	•••		•••	xxx
		c) Mixed legumes and grasses	•••		•••	xxx
		d) Cereals	• •		•••	xxx
21		Other fodder crops not included				
		elsewhere				
		(a) Cabbage for fodder (b) Pumpkins for fodder	•••			XXX
		c) Sunflower for fodder				XXX
		d) Others				XXX
21.6 V	'EGET	ABLES AND MELONS GROWN IN				1443
		PEN, PRINCIPALLY FOR HUMAN				100
С	ONSL	IMPTION				
		Groups 21.61 to 21.66 include all		1 15 1 1 1		
		vegetables and melons produced mainly				I HEAV
		for sale, whether produced as field				
		crops or in market gardens. Vege-				
		tables and melons grown principally				
		for home consumption should be re-				
		ported 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				1 444
		crops for food or feed), or under				
		group 21.59 (other fodder crops).			1111111	
		Vegetables grown only for seed				
		should be reported under Group 21.80)				
_	1 41					1.35.197
		Leafy or stem vegetables produced mainly for sale				
		(d) Cabbage (red. white, savov and				
		(a) Cabbage (red, white, savoy and Brussels sprouts)				

<sup>&</sup>lt;sup>1</sup> 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).

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			•	.,,	vu

# 21. 2

or up				Aica		Production
Group			Total 1	Irrigated	Not irrigated	Total
21.6						
			1.00			
		(c) Kale	•••	•••		
		(d) Artichokes				
		(f) Celery				
		(g) Chicory for greens				
		(h) Lettuce				
		(i) Spinach (Include silver beet or				
		spinach beet)				
		(j) Leek (k) Endive				
		(I) Cress (including watercress and				
		American cress)				
		(m) Rhubarb		•••		
		(n) Other leafy or stem vegetables				
	24.42	(e.g., fennel, corn salad, etc.)	•••	•••		xxx
	21.62	Fruit-bearing vegetables produced				
		mainly for sale (a) Watermelons				
		(b) Cantaloupes and other melons.		• • • • • • • • • • • • • • • • • • • •		
		(c) Pumpkins				
		(d) Squash				
		(e) Gourds		•••		
		(f) Cucumbers	•••	•••	•••	
		(g) Eggplant	• • •	•••	•••	
		(i) Tomatoes	:::			
		(j) Chities (fresh)				
		(k) Sweet peppers		•••		
		(1) Other fruit-bearing vegetables				
	24.42	(e.g., chayote, etc.)	•••		• • •	xxx
	21.63	Root, bulb, and tuberous vegetables				
		produced mainly for sale (a) Green garlic				
		(b) Green onions				
		(c) Red beets				
		(d) Carrots		•••		
		(e) Radishes (including horseradishes)	•••	•••	•••	
		(f) Rutabagas or swedes and kohlrabi (g) Turnips	•••	•••	•••	
		(h) Other root, bulb and tuberous				
		vegetables (e.g., cardoon, celeriac,				
		parsnip, scorzonera, salsify, etc.)				xxx
	21.64	Leguminous vegetables for human con-				
		sumption produced mainly for sale				
		(a) Beans (harvested green)	•••	•••		
		(b) Peas (harvested green)	•••	•••	•••	
		broad beans harvested green,				
		cowpeas harvested green, etc.)				xxx
	21.65	Other vegetables for human con-				
		sumption produced mainly for sale				
		(a) Cauliflower and broccoli	•••			
		(b) Corn (sweet)	•••	•••		
		(c) All other vegetables not reported elsewhere				
	21.66					xxx
	21.00	(Include those grown in caves, cellars				
		and elsewhere)				
	21.67					
		primarily for home consumption, in-				
		cluding those from kitchen gardens				xxx
21.7	SPECIA	AL HORTICULTURAL CULTIVATION				
	21.71	Flowers grown in the open (for sale,				
		seed or industrial purposes)				xxx
	21.72	Flower bulbs and corms				xxx
	21.73	Ornamental plants grown in the open		•••		xxx
		그들 보다 그 물을 가는다는 말을 다니				

Production

<sup>&</sup>lt;sup>1</sup> 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		Village Carteria (1)	Area		Production
group	Group	Total 1	Irrigated	Not irrigated	Total
21.	21.74 Cultivation under glass (total)  (a) Cultivation of vegetables  (b) Cultivation of flowers and/or ornamental plants  (c) Mixed cultivation (e.g., vegetables and flowers)				xxx xxx xxx 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 xxx
22.	PERMANENT MEADOWS AND PASTURES				
	22.1 Permanent grassland cut for hay  (Includes all permanent grassland from which hay was cut, even if also pastured or grazed before or after the hay was cut)				XXX

<sup>&</sup>lt;sup>1</sup> 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	ntations	P	Number of t	rees or vine	s	
Major					Trees or	Trees or	In co	mpact plants	ations	14 (4.4.5)	D
group Gı	roup			Total	vines of productive age	vines of non- productive age	Total	Of productive age	Of non- productive age	Scattered total	Produc- tion
23.	PERN	1A1	NENT CROPS								
23.1	FRUI	T	TREES AND VINES								
	23.11		rus trees								
			Oranges  Mandarines and tange-	•••	•••	•••	•••	•••	•••	•••	
		(-)	rines (including clemen-								
		(c)	tines and satsuma)		• • •		•••				
		(d)	Grapefruit and pomelo								
			Sour limes	•••	•••	• • • • •	•••	• • •	•••	•••	
		(I)	bitter orange, sweet limes, citrons, bergamots, etc.).		•••	•••					xxx
	23.12		me fruit trees								
		` '	Apples		• • • •		•••	•••			
		(c)	Quince								:::
		• /	Medlars	• • •	•••	•••	•••	•••		•••	
		(0)	loquat, etc.)		•••						xxx
	23.13	Sto	ne fruit trees								
		: ` '	Apricots		•••		•••	•••	•••	•••	
			Cherries Peaches (incl. nectarines).	•••		• • • • • • • • • • • • • • • • • • • •		• • • •			
		(d)	Plums and prunes		• • • •	• • • •	•••	• • •		•••	
	0044	(e)		•••	•••			•••			XXX
	23.14	(a)	her cultivated fruit trees  Dates								
		(b)	Figs								
			Breadfruit	•••			•••		:::		:::
		(e)	Avocados								
		. ;; (	Custard apple	• • • •	•••	•••	••••	•••	•••	•••	
		(g) (h)	Pomegranate		:::						
		(i)	Zapote			•••	•••	•••	•••	• • • •	
		(j) (k)	Persimmon			:::	xxx	xxx	xxx	xxx	:::
		(l)	Plantains		• • •	•••	xxx	xxx	xxx	xxx	
		(m) (n)	Pineapples			:::	XXX	XXX	xxx	XXX	:::
	23.15	` '	all cultivated fruit	100							
		(a)	Strawberries				xxx	xxx	xxx	xxx	
			Raspberries			:::	XXX	XXX	XXX	XXX	:::
			Currants				XXX	xxx	XXX	XXX	
			Blueberries	•••	•••	•••	XXX	XXX	XXX	XXX	•••
		(g)	Other cultivated small fruit			•••	^^^	^^^	^^^	^^^	
			and berries (e.g., black- berries)			1.3	VVV	WW.	VVV	2000	VVVV
	22.47	<u> </u>			•••	•••	XXX	XXX	XXX	XXX	XXX
	23.16		Itivated edible nut trees Almonds								1
			Walnuts				•••			•••	
			Cashew nuts		•••	••••			•••	•••	'''
		(-)	(e.g., pecan, hazelnut or								
			filbert, chestnut, pistachio nut, Brazil nut, Macadamia								
			[Queensland nut], etc. [ex-								
			cluding coconut])	• • • • •	•••	•••	•••	•••			XXX
	23.17		apes		•••	•••	XXX	xxx	XXX	XXX	
			Grapes for wine and juice Grapes for table use				XXX	XXX	XXX	XXX	
			Grapes for raisins				xxx	xxx	xxx	xxx	
				1	1		1 1 1 1 1 1	A 1 1 1 1 1 1	1 3 3 3 3 3	1	1

		Area in	compact pla	intations	20.00	Number of t	rees or vine	s	
Major group			Trees or	Trees or	In co	mpact plant	ations	1111	Produc-
Gro 23. 23.1		Total	vines of productive age	vines of non- productive age	Total	Of productive age	Of non- productive age	Scattered total	tion
	23.19 Other cultivated fruit (includ-								
	ing mulberry grown for fruit, carob, litchi, etc.)				•••				xxx
23.2	PERENNIAL CROPS YIELDING SPICES, CONDIMENTS, AND ARO- MATIC PRODUCTS								
	23.21 Cinnamon							•••	
	23.22 Cloves	•••				• • •		•••	
	23.23 Nutmeg and mace	•••	•••		•••	•••	•••	• • • •	
	23.25 Vanilla	• • •			•••		• • •	•••	
	23.26 Ginger  23.29 Other perennial crops yielding spices, condiments, and aromatic products (drumstick, etc.)	•••	•••	•••	•••	•••		•••	xxx
<b>23.</b> 3	PERMANENT CROPS MAINLY FOR INDUSTRIAL PRODUC-								
	TION								
	23.31 Crops for beverage and stimulant production								
	(a) Coffee	• • • •			• • • •	• • •	• • •		
	(c) Tea								
	(d) Yerba mate	•••			•••	•••	• • •	•••	
	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 1			
	(a) Agave plants	•••	• • • •		XXX	XXX	XXX	XXX	
	(ii) Henequen				XXX	xxx	xxx	xxx	
	(iii) Other(b) New Zealand flax (formio)	•••	•••		xxx	xxx	xxx	xxx	xxx
	(c) Abaca (Manila hemp) (d) Ramie and rhea	•••			•••	• • •			
	(e) Kapok					• • • • • • • • • • • • • • • • • • • •			
	(f) Other (e.g., fiquè, etc.)	• • •	•••		•••	•••	•••	•••	xxx
	23.34 Crops for rubber and tan- ning production (a) Rubber (Hevea)								
	(b) Black wattle								
	(c) Quebracho				•••	•••	• • • •	• • • •	
	(d) Other	•••	•••	•••	•••	•••	•••	•••	XXX
	are not included elsewhere				3.7				
	(e.g., sago palm, palmyra palm, citronella, lemon grass, mul-								
	berry for silkworms and paper,								
	etc.)	•••	•••	•••	•••	•••	•••	• • •	XXX
23.4	23.41 Nurseries of fruit, nut trees	•••	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
	namental trees, and bushes	•••	xxx	xxx	xxx	xxx	xxx	xxx	xxx
23.5	PERMANENT CROPS GROWN PRI- MARILY FOR HOME CONSUMP-								
	TION IN KITCHEN GARDENS	•••	• • • •	•••	• • •	•••	•••	•••	xxx
23.9	OTHER PERMANENT CROPS NOT INCLUDED ELSEWHERE (specify)				•••			•••	
	and the control of th			· ·				· · · · · · · · · · · · · · · · · · ·	4.4

#### 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 \_\_\_\_\_\_\_, by size of holding 1 (State name of crop on arable land)

	Number of holdings reporting	Area of	crop re	ported <sup>2</sup>	Quantity produced
Size class	(State name of crop on arable land)	Total 3	Irri-	Not -	Quantity produced
	(State hame of crop on arable land)	10tai*	gated	gated	(unit of measure)
All holdings with land					
Holdings under 0.5 hectare					
under 0.1 hectare					
0.1 hectare and under 0.2			4.1		
0.2 hectare and under 0.5			1		
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					
50 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				. 1	
Holdings of size not reported					

<sup>&</sup>lt;sup>1</sup> 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. – <sup>2</sup> 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. – <sup>3</sup> 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

	Num-			Comp	act plant	ations			Scatt trees o		
	ber of hold- ings			Area		Nur	nber of or vines				Quan- tity pro-
Size class	(State name of permanent crop)	Num- ber of hold- ings report- ing	Total	Trees or vines of pro- ductive age	Trees or vines of non- pro- ductive age	Total	Of productive	Of non- pro- ductive age	ings	Num- ber of trees or vines	(unit of meas- ure)
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						1					
0.5 hectare and under 1										. 1	
1 hectare and under 2								100			-
2 hectares and under 3											
3 hectares and under 4					1						
4 hectares and under 5		1					İ				
10 hectares and under 20			1								Ì
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											
1,000 hectares and under 2,500								1			:
2,500 hectares and over											
Holdings of size not reported											

<sup>&</sup>lt;sup>1</sup> 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

Size class holdings Under 1 1 hectare 2 hectares 3 hectares 5 hectares 20 hectares and and and and and and and and and and		Ali	Numb	per of holding	s reporting (	State name o	f crop)	
All holdings with land  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	Size class	holdings	and	and	and	and	and	20 hectares and over 3
100 hectares and under 200	All holdings with land  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 1  1 hectare and under 3  3 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 20  20 hectares and under 50  50 hectares and under 50  50 hectares and under 500  100 hectares and under 500  200 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 under 2,500							

<sup>&</sup>lt;sup>1</sup>This table can be repeated for each crop, or at least for the most important ones. - <sup>2</sup> Some countries report area "Sown" or "Under crop at the census date" rather than area "Harvested." In that case the table should so read. - <sup>3</sup> 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 group			Number	
Group		Total	Male	Female
31.	HORSES, MULES, ASSES, AND CAMELS			
	그렇게 하는 도마 가는 가는 하는 사람들이 하는 것이 없는 그 그 그 그들이 되는 사람들이 되는 것이다.			
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			xxx	xxx
31.4		• • •		
31.7	Camels (all ages)	• • •	XXX	xxx
	31.42 Camels 4 years of age and over	• • •	XXX	XXX
	31.42 Camers 4 years of age and over	• • •	xxx	XXX
32.	CATTLE <sup>1</sup>			
22.4	Cottle (all ann) stanified to			
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	I I I I I I I I I I I I I I I I I I I			
	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 control of th			
	32.21 Cows in productive age	•••	XXX	XXX
		•••	XXX	XXX
		•••	XXX	XXX
		•••	XXX	XXX
	(d) Kept for mixed purposes	•••	XXX	xxx
	interior transfer and a transfer and a single contraction of the contr			

<sup>&</sup>lt;sup>1</sup> Some countries may wish to inquire into milk production under "Cattle and buffaloes."

Majo				Number	
	Group		Total	Male	Female
32.	32.2				
	32.	22 Heifers in calf		xxx	xxx
		(a) Raised for milk production		XXX	XXX
		(b) Raised for meat production		XXX	XXX
		(c) Raised for draft and mixed purposes		XXX	XXX
	32.	i de la companya de la companya de la companya de la companya de la companya de la companya de la companya de		xxx	
	32.	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the 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			xxx
	32.	(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		XXX	xxx
		bulls)			
		(e) Intended primarily for use as draft oxen	•••	XXX	XXX
		(f) Others	•••	xxx	xxx
33.	RI	JFFALOES1			
JJ.		ALVES.			
	33.1 Bu	ffaloes (all ages), classified by age and sex			
		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	•••	• • •	•••
	22		•••		
		12 Buffaloes 3 years of age and over	•••	•••	
		faloes (all ages), classified by use or purpose			
	33.			xxx	xxx
		(a) Kept primarily for milk production		xxx	XXX
		(b) Others		xxx	XXX
	33.			xxx	xxx
		(a) Raised primarily for milk production		XXX	XXX
		(b) Others		XXX	XXX
	33.				
	33	(a) Intended primarily as draft animals	•••	XXX	XXX
		(b) Others	•••	XXX	XXX
				xxx	xxx

<sup>&</sup>lt;sup>1</sup> Some countries may wish to inquire into milk production under "Cattle and buffaloes."

Maj grou	ир 🐪		Number
	Group		
34.			
	34.1	Sheep (all ages)	
		34.11 Lambs under 1 year of age	
		(a) Male (whether castrated or not)	
		(b) Female	
	34.2	Sheep (including lambs) clipped during the year	
			Quantity
	34.3	Wool (total production in the year, indicating whether in the	
		grease or washed)	Number
			Number
35.		GOATS IN 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 SECOND SEC	
	35.1	Goats (all ages)	
		35.11 Goats under 1 year of age	
		(a) Male	
		(b) Female	
	35.2	Goats clipped during the year	0
	35.3	Goat hair and mohair (total production in the year, indicating	Quantity
	55.5	whether in the grease or washed)	
			Number
36.		PIGS	
50.	26.4		
	36.1	Pigs (all ages) 36.11 Pigs under 6 months of age	
		36.12 Pigs 6 months of age and over	
		(a) Sows and gilts for breeding 6 months of age and over	
		(b) All other pigs 6 months of age and over (Include	
		sows for fattening)	
37.		POULTRY AND RABBITS	
	37.1	Hens, cocks, pullets, and chicks (total)	
		37.11 Cockerels, pullets, and chicks under 6 months of age	•••
	27.2	37.12 Cocks, capons, hens, and pullets 6 months of age and over	
	37.2 37.3	Laying hens (of those already reported under 37.12)	
	37.4	Ducks and ducklings (all ages)  Geese and goslings (all ages)	
	37.5	Turkeys and poults (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 TANA A AND A TANA A AND A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A STATE OF A ST	
		38.11 Beehives and colonies	
		38.12 Honey (amount obtained in the year from beehives and	Quantity
		colonies reported under 38.11)	
		38.13 Beeswax (amount obtained in the year from beehives and	
	38.2	colonies reported under 38.11)	
	30.2	Silkworms 38.21 Silkworm eggs placed in incubation	
		38.22 Fresh cocoons produced	
	30.7		Number
	38.3	Llamas, guanacos, alpacas, and vicuñas (all ages)	
	38.4	Fur-bearing animals (reared in captivity for fur or skin)	
		38.42 Minks (total)	
	30.5	38.49 Other fur-bearing animals	
	38.9	Other domesticated animals not included elsewhere (specify: reindeers, zebras, ostriches, elephants, etc.)	
		A series of Actions, Osciticas, Cicpitalitis, Etc.)	

#### Definition of census items and explanatory notes

#### COVERAGE

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

		Ho	rses		М	ules	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	. 1				, 1, 3 1, 1, 1			
Holdings without land								
Holdings under 0.5 hectare								
Holdings 0.5 hectare and over 0.5 hectare and under 1							>	
2 hectares and under 3					:			
10 hectares and under 20						1.1		
100 hectares and under 200								
2,500 hectares and over					-			

<sup>&</sup>lt;sup>1</sup> 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

	Total (all	cattle ages)	cattle 2* y		Numb calves 1 year	under	cattle of ag	ber of 1 year se and er 2*	cattl years	ber of le 2* of age over
Síze class	Num- ber of hold- ings re- port- ing	Num- ber of head	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male
				Ì						
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							
1 hectare and under 2										
2 hectares and under 3	. [									
3 hectares and under 4						1.1				
4 hectares and under 5					1					
5 hectares and under 10			-							1
10 hectares and under 20		1								
20 hectares and under 50					1		İ			
50 hectares and under 100							]			
100 hectares and under 200		1			1	nambalis*				1
200 hectares and under 500										
500 hectares and under 1,000			*				1			
1,000 hectares and under 2,500										
2,500 hectares and over										
ទំនានជាតិមាន ម៉ែន នាក្រាស់ ស្រាស់ ស្រាស់ ខេត្ត ស្រាស់ ប្រាក់										
Holdings of size not reported										
		1								

<sup>\*</sup> 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

	tend-	ed pri- marily for use as draft oxen	
	_=	Other adult manimals for for meat c	
Other cattle		Coull cows for fatten-ing	
Och	Calves for	Meat pro- duction	
	Calve	Breed- ing	
		Total	
		bulls used for serv- ice	
		Draft and mixed pur- poses	
in calf	Raised for	Meat pro- duction	
Heifers in calf		Milk pro- duction	
		Total	
		Mixed pur- poses	
tatus	Kept for	Draft	
Cows in active status	Кер	Meat pro- duction	
Cows i		Milk pro- duction	
		Total	
	Total	num- ber of head re- ported	
		Size class	All holdings with and without land Holdings without land Holdings under 0.5 hectare 0.1 hectare and under 0.5 0.2 hectare and under 1 1 hectare and under 2 2 hectares and under 3 3 hectares and under 4 4 hectares and under 4 5 hectares and under 50 0.0 hectares and under 50 0.0 hectares and under 10 0.0 hectares and under 10 0.0 hectares and under 10 0.0 hectares and under 100 0.0 hectares and under 100 0.0 hectares and under 100 0.0 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000 0.00 hectares and under 1,000

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

				Nun	nber of h	oldings re	eporting (	cattle	1111		
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							1				
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											
Holdings 0.5 hectare and over  0.5 hectare and under 1  1 hectare and under 2											
2 hectares and under 3					A A						
5 hectares and under 10											
100 hectares and under 200											
,000 hectares and under 2,500								And a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec			
Holdings of size not reported											

Table 3.5. - Number of buffaloes, by size of holding, age and sex1

	To buffa (all :	loes	Number of buffaloes under 3* years of age		Number of calves under 1 year of age		Number of buffaloes 1 year of age and under 3*		Number of buffaloes 3* years of age and over	
Size class	Num- ber 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					V					
Holdings under 0.5 hectare under 0.1 hectare 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										
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										
Holdings of size not reported										

<sup>\*</sup> For countries where the age of maturity is different from 3 years the figure "3" 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 3.6. - Number of buffaloes, classified by use and purpose, by size of holding

			Buffalo cow	. 1	Heifers	in calf	Ot	Other buffaloes		
Size class	Total number of head reported	Total	Kept primarily for milk pro- duction	Others	Raised primarily for milk pro- duction	Others	Total	Intended prima- rily as draft animals	Others	
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			1							
0.2 hectare and under 0.5										
foldings 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									1	
4 hectares and under 5						100				
5 hectares and under 10					1.5					
10 hectares and under 20										
20 hectares and under 50			1.1						1	
50 hectares and under 100										
100 hectares and under 200									1	
200 hectares and under 500										
500 hectares and under 1,000	1.5	100			1 1					
,000 hectares and under 2,500					1 1 1					
2,500 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 hol	dings 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
			, i								
All holdings with and without land											
Holdings without land				1					1		
Holdings under 0.5 hectare							1				
under 0.1 hectare				1.1						1.	
0.1 hectare and under 0.2											
0.2 hectare and under 0.5			i '							1.0	
Holdings 0.5 hectare and over											
0.5 hectare and under 1											
1 hectare and under 2					1 :				1.1		
2 hectares and under 3					1 :						
3 hectares and under 4			1			1					
4 hectares and under 5											
5 hectares and under 10											1 .
10 hectares and under 20		1									
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					1.3		
1,000 hectares and under 2,500											
2,500 hectares and over				1							
Holdings of size not reported		1									1

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

	Number		Number		er of sheep 1 age and ove		W	ool
Size class	of holdings reporting	Total 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)
	11.5				1 1 1 1	1.5	: 1	
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								
2 hectares and under 3								
3 hectares and under 4								
5 hectares and under 10								
10 hectares and under 20								
50 hectares and under 100								
100 hectares and under 200								
500 hectares and under 1,000								
1,000 hectares and under 2,500								
Holdings of size not reported								

<sup>&</sup>lt;sup>1</sup> 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	Total	Number	Numb of	er of goats 1 age and ove	year r	Goat hair a	and mohair
Size class	of holdings reporting goats	number of goats reported	of goats under 1 year of age	Total	Male	Female	Number of goats clipped	Production
							during the year	(unit of measure)
All holdings with and without land		1.4.4						
Holdings without 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								
2 hectares and under 3								
4 hectares and under 5								
10 hectares and under 20								
50 hectares and under 100								
100 hectares and under 200								
500 hectares and under 1,000								
2,500 hectares and over								
Holdings of size not reported								

<sup>&</sup>lt;sup>1</sup> 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 holdings	Total number	Number of pigs under 6* months	Number of pi of age a	
	reporting pigs	of pigs reported	of age	Sows and gilts for breeding	All other pigs
All holdings with and without land					
Holdings without land					
Holdings under 0.5 hectareunder 0.1 hectare					
0.1 hectare and under 0.2					
Holdings 0.5 hectare and over					
0.5 hectare and under 1			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 second second secon		
2 hectares and under 3					
4 hectares and under 5					
5 hectares and under 10					
20 hectares and under 50					
100 hectares and under 200					
500 hectares and under 1,000					
2,500 hectares and over					
Holdings of size not reported					

<sup>\*</sup> 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

	Number of holdings reporting 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													
Holdings without land													
Holdings under 0.5 hectare													
0.1 hectare and under 0.2													
Holdings 0.5 hectare and over													
1 hectare and under 2 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		***************************************											
2,500 hectares and over						Philipping							

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

					Nun	ber of h	ead repo	orted			
Size class	Num- ber of hold-		Chick	ens <sup>2</sup>							
Size class	ings re- port-	Total	Under 6*	6* m of age a		Ducks	Geese	Tur- keys	Guinea fowls	Pigeons	Rabbits and hares
	ing	iotai	months of age	Total	Laying hens		1				
All holdings with and without land											
Holdings without 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		1						:			
0.5 hectare and under 1						1					
2 hectares and under 3								À.	1		
4 hectares and under 5											
10 hectares and under 20						1					
50 hectares and under 100											
100 hectares and under 200											
500 hectares and under 1,000											
2,500 hectares and over											
riolangs of size not reported									1.1	1	

<sup>\*</sup> 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	
Number of cameis 4 years of age and over	
Llamas, guanacos, alpacas and vicuñas	
Number of holdings reporting	
Number of head reported	
Fur-bearing animals	
(a) Foxes	
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	
Number of head reported	
Bees	
Number of holdings reporting beehives	
Total number of beehives	
Quantity of honey produced	
	(unit of measure)
Quantity of beeswax produced	()
Silkworms	(unit of measure)
Number of holdings reporting silkworms	
Quantity of eggs placed in incubation	
	(unit of measure)
Quantity of fresh cocoons produced	
	(unit of measure)

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	
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	
500 hectares and under 1,000	
1,000 hectares and under 2,500	
2,500 hectares and over	
Holdings of size not reported	

# 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 (i)household enterprise;
- wage work on other agricultural holdings;
- (iii) wage work or other employment in nonagricultural activities carried out outside the same household enterprise;
- (c) 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.

group	

#### SECTION 4 — EMPLOYMENT IN AGRICULTURE

- EXTENT TO WHICH THE AGRICULTURAL WORK ON THE OLDING IS CARRIED ON BY THE HOLDER'S HOUSEHOLD OR BY PERSONS WORKING FOR PAY (check 41. the appropriate box of 41.1, 41.2 or 41.3 below)
  - 41.1 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 41.3 The bulk of agricultural work on the holding is done by persons working for pay  $\Box$
  - 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	
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	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						
42.1 Number of persons employed in agri- cultural work on the holding during the census week							
42.11 Holder and unpaid members of his household <sup>1</sup>		****	•••	• • •	•••		
42.12 Participants in co-operative, collective and communal holdings 1 (a) Permanent workers (b) Temporary workers (c) Occasional workers	•••			•••		•••	
42.13 Persons working for pay on the holding 1, 2			···	•••			•••

<sup>&</sup>lt;sup>1</sup> Items 42.11, 42.12 and 42.13 are mutually exclusive. - <sup>2</sup> Including the hired manager.

N				1949	Male			Female	
Maj groi			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.					0, 250	und Over	Of age	O age	and over
	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								
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 <sup>3</sup> (a) as of							
43.	43.1	etc.  43.13 Persons working for pay on the holding 2, 3  (a) as of							
	43.2	etc.  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	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							
	42.4	(a) as of (date) (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	• • •				•••		
		(c) as of							

<sup>&</sup>lt;sup>2</sup> Including the hired manager. - <sup>3</sup> 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, not receiving full wages in money or kind, 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

<sup>&</sup>lt;sup>1</sup> The definition of "household" is given in the explanatory notes to Section 5 on page 56.

<sup>&</sup>lt;sup>2</sup> 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 w	hich	
Size class	Total number of holdings reporting	All agricultural work is done by the members of the holder's household <sup>1</sup>	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 <sup>2</sup>
All holdings with and without land					
Holdings without land					
Under 0.1 hectare					
0.2 hectare and under 0.5					
O.5 hectare and under 1 hectare and under 2					
2 hectares and under 3					
4 hectares and under 5					
20 hectares and under 50					
100 hectares and under 200					
500 hectares and under 1,000					
Holdings of size not reported					

<sup>&</sup>lt;sup>1</sup> Including work exchanged with others. - <sup>2</sup> 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	
Occasional workers		Under 15 years of age	
		65 years of age and over	
Occasi	Male	15 to 64 years of age	
		Under 15 years of age	
		Total	
		65 years of age and over	
	Female	15 to 64 years of age	
orkers		Under 15 years	
Temporary workers		65 years of age and over	
Тетр	Male	15 to 64 years of age	
	÷.	Under 15 years of age	
1		Total	
	Female	65 years of age and over	
		15 to 64 years of age	
orkers		Under 15 years of age	
Permanent workers		65 years of age and over	
Perma	Male	15 to 64 years of age	
		Under 15 years of age	
		ls:oT	
	2	Total numb of worker	
		lod to radmuM reporting	
		Sire class	

<sup>1</sup> 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<sup>2</sup>

	Female	of age 15 to 64 years of age 65 years of age and over	
		and over Under 15 years	
2	Male	of age	
	2	Under 15 years of age	
		egs to sees 60 age and over	
From	Total	15 to 64 years of age	
i	-	Under 15 years of age	
he wee		65 years of age and over	
Number of persons employed in agricultural work during the week	Female	15 to 64 years of age	
work d		Under 15 years of age	
ultural		65 years of age and over	
in agricu	Male	15 to 64 years of age	
s employed ir		Under 15 years	
sons em		65 years of age	
er of person From	Total	15 to 64 years of age	
tumber Fr		Under 15 years of age	
1	e	65 years of age and over	
	Female	15 to 64 years of age	
		Under 15 years to age	
50	e e	65 years of age and over	
	Male	15 to 64 years of age	
		Under 15 years of age	
From	le l	of age 65 years of age and over	
From	Total	of age	
	<u>                                     </u>	Under 15 years	
			d
		Size class	All holdings with and without land Holdings without land

<sup>&</sup>lt;sup>1</sup>This table to be based on the successive surveys. - <sup>2</sup>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 4.4. - 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 worked on the holding during the census week  Man-hours worked on the holding during the census week by holder and "the unpaid mem of his household"						
Size class	By the ho unpaid me his hou	embers of	By other	persons	Number of	Number of man-hours reported	
	Number of holdings reporting	Number of man-hours reported	Number of holdings reporting	Number of man-hours reported	holdings reporting		
			1 + 1 + 1				
All holdings with land							
Holdings under 0.5 hectare							
under 0.1 hectare							
0.1 hectare and under 0.2			1 1				
0.2 hectare and under 0.5							
0.2 hectare and under 0.5	A 4 4 4 4 4						
foldings 0.5 hectare and over							
0.5 hectare and under 1	7.						
1 hectare and under 2							
2 hectares and under 3							
3 hectares and under 4					1, 1, 1, 1, 1, 1		
4 hectares and under 5	1 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		8 J. J. H.					
500 hectares and under 1.000							
,000 hectares and under 2,500							
,500 hectares and over							
loldings 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 <sup>1</sup>

	Estimated man-hours worked on the holding during the year by the holder and "the unpaid membe 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 holdings reporting	Number of man-hours reported	holdings reporting	man-hours reported	
All holdings with land							
A it floidings with faild							
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	1, 5 5 1						
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							
1,000 hectares and under 2,500							
2,500 hectares and over							
医马克斯氏氏征检肾炎性溃疡 电电阻损益 医自动 电圆							
Holdings of size not reported					1 1 1 1 1		

<sup>&</sup>lt;sup>1</sup> 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 he d and partic in co-opera ctive and co unal holding	ouse- ci- ctive, om-		mber of oth rsons living holdings	
		Total	Male	Female	Total	Male	Female
All holdings with and 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							
100 hectares and under 200			-				
2,500 hectares and over  Holdings of size not reported			V 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 control of				

<sup>&</sup>lt;sup>1</sup> 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<sup>1</sup>

	Number			Male			Female	
Size class	of holdings reporting	Total population	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
All holdings with and without land				:				11.1
Holdings without land		:	1,					
Holdings under 0.5 hectare								
under 0.1 hectare								
0.1 hectare and under 0.2				1			18.59	
0.2 hectare and under 0.5								
Holdings 0.5 hectare and over								
0.5 hectare and under 1								
1 hectare and under 2					1,10			
2 hectares and under 3								
3 hectares and under 4								
4 hectares and under 5				1 1				
5 hectares and under 10							1.5	F 4 5 5 5
10 hectares and under 20								
20 hectares and under 50								
50 hectares and under 100						1		
100 hectares and under 200							[	
200 hectares and under 500						1.		
500 hectares and under 1,000								
1,000 hectares and under 2,500	1.14	1 1 1				1.0	4, 54,	1 3.5
2,500 hectares and over						1		
Holdings of size not reported		1.11					1. A.A.	

<sup>&</sup>lt;sup>1</sup> 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 holding.
- 3. It is proposed to enumerate the number of machines owned by the holder at the date of the census.
- 4. Questions are proposed on different arrangements under which machinery is used during the year preceding the census. An indication

62.3 Electric motors.....

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

Group								
61.	USE AND SOURCE OF POWER ON	THE HO	LDING					
61.1 61.2		ol, oil, gas,	steam, wat	er, wind c	r electricit	у)		
61.3	(Check this box if any agricultural work in Source of electric power (Check the appropriate box if electric power) purchased;				as done by	animal po	wer)	
	(b) produced on the holding							
		Number owned by the		e by markii	on the holdi	priate box	whether the	
Major group 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
62.	STATIONARY POWER-PRODUC- ING MACHINERY	: A	: 10 : 10 : 10 : 10 : 10 : 10 : 10 : 10					
62.1	Prime movers							
	62.11 Internal combustion engines 62.12 Steam engines, including locomo-	•••						
	biles		xxx xxx	xxx xxx	xxx xxx	xxx xxx	xxx xxx	xxx xxx
62.2								

<sup>&</sup>lt;sup>1</sup> 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 holdi	ng during th	ne year	
			Number owned by the	Indicat spor	e by marki nding machi	ng the appro	opriate box ements were	whether the	corre- vere:
Maj gro			holder at a specific date	Owned solely by the holder	Owned jointly by the holder and others <sup>1</sup>	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	×xx ×xx ×xx ×xx ×xx
	63.2	Wheel tractors (excluding single-axle			, , , , , , , , , , , , , , , , , , ,	AAA	^^^	^^^	^^^
		63.21 less than 18 hp 63.22 18 hp and less than 27. 63.23 27 hp and less than 37. 63.24 37 hp and less than 56. 63.29 56 hp and over	•••	xxx xxx xxx xxx xxx	xxx xxx xxx xxx xxx	xxx xxx xxx xxx xxx		xxx xxx xxx xxx xxx	xxx xxx xxx xxx xxx
	63.3	Power tillers and other single-axle traction power units	•••						
64.		TILLAGE, PLANTING, AND CULTIVAT- ING EQUIPMENT	-						
	64.1 64.2	Plows 64.11 Animal-operated 64.12 Tractor-operated Rotary tillers (tractor-operated)	• • •						
	64.3	Rotary harrows (disk type and other types) 64.31 Animal-operated							
	64.4	Disk harrows 64.41 Animal-operated 64.42 Tractor-operated							
	64.5	Seed drills (includes combined seed drills and fertilizer distributors) 64.51 Hand-operated 64.52 Animal-operated							
	64.6	64.53 Tractor-operated							
	64.7								
	64.8	64.81 Hand-operated	•••						
	64.9	Other selected tillage, planting, and cultivating machinery and implements (specify type and kind of traction)							
65.		HARVESTING AND THRESHING EQUIPMENT							
	65.1	Mowers 65.11 Animal-operated	• • •						
	65.2	Rakes (side delivery and others) 65.21 Horse rakes							
		age harvesters)  65.31 Animal-operated  65.32 Tractor-operated or self-propelled	•••		_ _ _				

<sup>&</sup>lt;sup>1</sup> 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 holdi	ng during tl	ne year	
				Number owned by the			ng the appro			
Major group 65.				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 a) Of which those used also for							
	65.5		corn harvesting	•••						
	65.6	Potato	f-propelled combines)harvesting machinery	•••						
			Animal-operated diggers  Tractor-operated or self-propelled diggers and harvesters	•••						
	65.7		peet harvesting machinery Animal-operated sugar-beet lifters							
			Tractor-operated or self-propelled sugar-beet harvesters							
	<b>65.8</b> 65.9	Other equipn tractio								
			Hay balers (stationary only) Pick-up balers Cotton harvesters	• • •						
		65.99	Other harvesting and threshing equipment	•••						
66.			STEAD EQUIPMENT, INCLUDING SPORT MEANS							
	66.1	equipn								
			Grain cleaners and sorters Potato, onion, and fruit sorters and graders	•••						
			Grain grinders and crushers Sugarcane crushers Corn shellers and shredders		xxx xxx	xxx xxx	xxx xxx	xxx xxx	xxx xxx	xxx xxx
		66.16 66.17 66.18	Root cutters	•••	xxx	xxx	xxx	xxx	XXX	XXX
		66.19	(a) Grain driers	•••						
			processing and handling equipment (a) Coffee pulping machines (b) Others (specify)	•••	□ xxx	□ xxx	□ xxx	□ xxx	□ xxx	□ xxx
	66.2	poultr	ock equipment (including dairy, y, etc.) Milking machines (number of units)							
		66.22 66.23 66.24	Milk coolers Cream separators Incubators		xxx xxx	xxx xxx	xxx xxx	xxx xxx	xxx xxx	xxx xxx
		66.25	(i) Hand-operated	•••						
		66.29	Power-operated barn cleaners Other selected livestock equipment (specify)		xxx	xxx	xxx	xxx	xxx	xxx
	66.3	66.31	oort means Wheelbarrows		xxx	xxx	xxx	xxx	xxx	xxx
			Carts							
		66.35 66.36 66.37	Automobiles							
			equipment Other means of transport	<b>!</b>						

<sup>&</sup>lt;sup>1</sup> Excludes machines or implements owned by co-operatives, which should be recorded in the column under the heading "Provided by a co-operative."

67.

# Number owned by the holder

67.1 Are agricultural products from the holding sold outside the holding? (Yes or No)

GENERAL TRANSPORT FACILITIES

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.

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 holding	Number of holdings			
		Total number				Human power		ectric power
	Size class	of holdings	Mechanical power only	Animal power only	Mechanical and animal power	only (i.e., neither mechanical nor animal power used) <sup>2</sup>	Purchased	Produced on the holding
100	医乳腺管 经销售 医动脉切除 化苯甲基甲基苯甲基甲基							3.43, 5
All he	oldings with and without land							
						1.7		
Holdi	ngs without land					2.0	: 1	
Holdi	ngs under 0.5 hectare					4,3		
	er 0.1 hectare					3.3		
	nectare and under 0.2							
0.2	nectare and under 0.5					1, 11		
	et television el el el el el el el el el el el el el							
	ngs 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					A ( A	11.1	
50 100	hectares and under 100hectares and under 200							
200								
500	hectares and under 500hectares and under 1,000							
1,000	hectares and under 2,500				1.7			
2,500	hectares and over							
2,300	nectares and over							
Holdi	ngs of size not reported				11.			
	·							

<sup>&</sup>lt;sup>1</sup> Countries which are in a position to do so are requested to tabulate these data by tenure and by type of holding. – <sup>2</sup> 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

	co bus	rnal m- tion ines	Ste eng		Wind	lmills	Wa whe		Oth pri mov (spe	me rers	Elec gener			tric tors
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			-	-									- Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual	
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		WANTED COLUMN TO THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T				, , , , , , , , , , , , , , , , , , ,			:					
Holdings 0.5 hectare and over  0.5 hectare and under 1  1 hectare and under 2  2 hectares and under 3					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 second second secon		Vando-Audamaniana Andreas & Descriptor (Andreas Andreas Andreas & Descriptor (Andreas Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas & Andreas &							
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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					ada manaja manaja propinski propinski propinski propinski propinski propinski propinski propinski propinski pr		manada y a manada manada y a sa anada sa asa anada sa an							
1,000 hectares and under 2,500 2,500 hectares and over Holdings of size not reported					GRADIO DE PROPERTO DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE L		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 second second secon							

<sup>&</sup>lt;sup>2</sup> 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

	S S				Nun	nber o	f trac	tors o	wned	by th	e hold	lers			
	oldin	actor		Tr	ack-layii	ng tract	ors				Wheel	tractor	s		and
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
All holdings with and without land	* .										Ì				
Holdings without land															
Holdings under 0.5 hectare										İ					
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								į				1.			
1 hectare and under 2			1								1				
2 hectares and under 3							1								
3 hectares and under 4															
4 hectares and under 4		l								1	٠.				
5 hectares and under 10															
10 hectares and under 20	.														***************************************
20 hectares and under 50						ĺ						· .			
50 hectares and under 100											Mary Control				-
100 hectares and under 200															-
200 hectares and under 500															
500 hectares and under 1,000			:												
,000 hectares and under 2,500						1									-
2,500 hectares and over															
Holdings of size not reported													1		-

<sup>&</sup>lt;sup>1</sup> 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 holdin	gs reporting	use of equ	uipment whi	ch was:
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					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Tractors							
Wheel tractors							
Tracklaving tracrors							
Garden tractors						1, 13.	
Tillage, planting, and cultivating equipment					, i A ,		
Specify							
Harvesting and threshing equipment							
Specify							
Farmstead equipment, including transport means							
} Specify							

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

		Total num-	Me	eans used	to trans	port proc	lucts fron	n 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 <sup>2</sup>	By bicycle	By truck, jeep or other motor vehicle	By train	By boat	By plane	By other means (specify)
					Numi	ber of hol	dings repo	rting			
All hol	dings with and without land		1		1	1	1				
All Iloi	ulligs with and without land					1					
Holdin	gs without land										
	医格尔克氏性 医多氏性医氏性皮肤 医皮肤皮肤										
	gs under 0.5 hectare										
	r 0.1 hectare	.]									1.5
	ectare and under 0.2										
0.2 1	ectare and under 0.5										
Holdin	gs 0.5 hectare and over										
	hectare and under 1										
1	hectare and under 2		İ		1			1			
2	hectares and under 3						1.			1.3	
3	hectares and under 4									4	
4	hectares and under 5										
5	hectares and under 10										
10	hectares and under 20										
20	hectares and under 50								1		
50	hectares and under 100		1				1				
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										
Holdin	gs of size not reported										
,,014111	gs of size flot reported						1 .				
<u></u>		1	1	1		1	1	1	1	i	1

<sup>&</sup>lt;sup>1</sup> 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. - <sup>2</sup> 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

Major group 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  71.21 Area supplied with water from the holding itself  71.22 Area supplied with water from outside the holding.  71.23 Area supplied with water from inside and outside the holding.	
71.3		

Major group Group		Hectares
71.		
	71.33 Area supplied with water by pumping from ground water. (Includes all devices for raising water, e.g., Persian wheels, buckets, etc.) 71.34 Area supplied with water by other means (e.g., flowing wells, springs, etc.—Specify)	
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 actually irrigated	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)	

### 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.

#### SECTION 8 — FERTILIZERS AND SOIL DRESSINGS

Major group Group

81.	CHEMICAL	INORGANIC	AND
	ORGANIC	MANURES	AND
	OTHER EE	RTILIZEDS	

81.1 Have any inorganic fertilizers been applied on the holding during the year?

	tre	ed	ap	

Yes

 $\Box$ 

No

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).	

81.21	Nitrogenous fertilizers		
	Phosphate fertilizers		·
81.23	Potash fertilizers		
	Mixed, compound and com-		
	plex inorganic fertilizers.	,	

Majo grou			Area treated (ha)	Amount applied (kg)
81.				
	81.3	Organic manures 81.31 Farmyard manure and/or		
		81.32 Green manure	•••	XXX XXX 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.

81.

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

		Size class	All 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 1 1 hectare and under 2 2 hectares and under 3 3 hectares and under 4 4 hectares and under 10 10 hectares and under 20 20 hectares and under 10 10 hectares and under 10 20 hectares and under 20 20 hectares and under 20 30 hectares and under 20 30 hectares and under 20 4 hectares and under 20 50 hectares and under 20 50 hectares and under 20 50 hectares and under 20 50 hectares and under 100 100 hectares and under 100 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000 1,000 hectares and under 1,000
	Chemical inorganic fertilizers <sup>2</sup>	ings reporting	
-	icai inic cers 2	Amount applied (kg)	
	Farmyard manure and or compost	Number of hold- ings reporting	
	yard e and npost	(sd) bessent senA	
Organic manures	Green manure	-blod to naddu- gniorogan egni	
andres	n Seaweed re	Area treated (ha)	
		-biofi to held- ings reporting	
	-0	Area treated (ha)	
Ċ	(sp	Number of hold- ings reporting	
Orbor for	tilizers (specify)	Area treated (ha)	
		Amount applied (kg)  Number of hold-	
	Lime	gnisropar zgni	
	· o	Amount applied (kg)	
0	-	-blod to redmuM sagings reporting	
son aressings	Gypsum	Area treated (ha)	
11183	E .	Amount applied (kg)	
***************************************		-blod to nadmuM sings reporting	
	Other (specify)	Area treated (ha)	

<sup>1</sup>Countries which are in a position to do so are requested to tabulate these data by tenure and by type of the holding. - <sup>2</sup>Countries which are in a position to do so should report separately on the area treated with, and 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 commodities 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

Majo grou			Quantity (indicate unit of measure)
91.		WOOD PRODUCTS OBTAINED FROM THE HOLDING DURING THE YEAR	
	91.2 91.3 91.4	Fuelwood (including wood for charcoal) Sawlogs and veneer logs. Pulpwood and pitprops Christmas trees Other roundwood (e.g., posts for fencing, poles, piling etc.)	
92.		FISHERY OUTPUT FROM WATERS WITHIN THE BOUNDARIES OF THE HOLDING	
	92.1	Total fishery (animal) output (a) From fish culture in ponds, dams, hatcheries and reservoirs (b) From rice fields	•••
	92.2	Indicate if any seaweed (marine algae) were taken from the water within the boundaries of the holding	Yes □

### 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

	. Fuel	wood	Sawlog venee		Pulpy and pi		Chris tre			her Iwood
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 o meas- ure)
All holdings with land										
Holdings under 0.5 hectare										
under 0.1 hectare				1					1	
0.1 hectare and under 0.2						1				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										
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										
200 hectares and under 500					ALL CONTRACTOR OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON O					
500 hectares and under 1,000							-			
1,000 hectares and under 2,500										
2,500 hectares and over										
					1 .					1
Holdings of size not reported					1		1			

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

Size class	То		From fish in pond hatcher	h <b>c</b> ulture s, <b>d</b> ams,	From ri	boundarie		her	Number of holdings reporting seaweed
	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)	gathering from their waters
All holdings with land									
		-							1
Holdings under 0.5 hectare					1			1	
under 0.1 hectare									
0.1 hectare and under 0.2			1		1	-			ĺ
0.2 hectare and under 0.5			1				:		
doldings 0.5 hectare and over									
0.5 hectare and under 1									1
1 hectare and under 2									
2 hectares and under 3								1	
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									ļ
100 hectares and under 200									l
200 hectares and under 500							•		1 1.
500 hectares and under 1,000									1
000 hectares and under 2,500	-								
500 hectares and over									
oldings of size not reported									
ordings of size flot reported								1 1	

### Section 10 - ASSOCIATION OF AGRICULTURAL HOLDINGS WITH OTHER INDUSTRIES

Major

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

Majo. 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.....

Group 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 Canning or preserving of fruits 101.23 and/or vegetables ..... 101.24 Manufacturing of grain mill products  $\Box$ Sugar factory and refinery.... 101.25 101.26 Forestry and logging..... 101.27 Manufacturing of rubber products ..... 101.28 Fishing ..... 101.29 Other industries (a) Wholesale or retail trade (b) Other industries (specify)... 102. CONTRACT OPERATIONS 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:  $\Box$ 102.21 Cereals ..... Fruits and grapes..... (a) Olives..... (b) Grapes ..... (c) Other fruits ..... 102.24 Sugar crops (sugarcane or sugar beets) ..... 102.25 Vegetables ..... 102.26 Tobacco ..... 102.27 Livestock and livestock products (a) Cattle ...... (b) Pigs ..... (c) Poultry..... (d) Other livestock (specify) ... (e) Milk ..... (f) Eggs ..... (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 Yes 🗆 agricultural services? ..... No 🗆

Yes 🗆

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	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  0.5 hectare and under 1  1 hectares and under 2  2 hectares and under 3  3 hectares and under 4  4 hectares and under 5  5 hectares and under 5  6 hectares and under 50  70 hectares and under 10  8 hectares and under 10  10 hectares and under 10  10 hectares and under 10  20 hectares and under 20  30 hectares and under 20  50 hectares and under 20  60 hectares and under 20  70 hectares and under 20  80 hectares and under 20  90 hectares and under 200  1000 hectares and under 2,500  1000 hectares and under 2,500  1000 hectares and under 2,500  1000 hectares and under 2,500  1000 hectares and under 2,500  1000 hectares and under 2,500											
Holdings of size not reported											

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

Fruits and grapes  Fruits and grapes  Other crops tables Tobacco Cattle Pigs Poultry  Total Olives Grapes fruits
Sugar Vege- Tobacco Cattle Pigs crops tables
2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2
25 S
Boultry Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of th
Other live. Stock Milk (spec-
E E E E E E E E E E E E E E E E E E E
Other Other live- agri- stock cultural prod- prod- prod- ucts (spec- (spec- ify) ify)

<sup>1</sup> 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	Crop Reference number	
Abaca (Manila hemp)	23.33(c)	Musa textilis
Alfalfa for grazing Alfalfa for hay, green feed or silage	*21.52(a) } 21.51(a) }	Medicago sativa
Almonds	23.16(a)	Prunus amygdalus
American cress	*21.61( <i>l</i> )	Barbarea verna
Aniseed	*21.44( <i>b</i> )	Pimpinella anisum
Apples	23.12(a)	Malus sylvestris
Apricots	23.13(a)	Prunus armeniaca
Arrowroot	21.34	Maranta spp., Curcuma spp.
Artichokes	21.61( <i>d</i> )	Cynara scolymus
Artichokes, Jerusalem	21.38(d)	Helianthus tuberosus
Asparagus	21.61(e)	Asparagus officinalis
Avocados	23.14( <i>e</i> )	Persea americana
Bambarra nuts (earth peas)	*21.29	Voandzeia subterranea
Bananas	23.14( <i>k</i> )	Musa sapientium, Musa cavendishii
Barley	21.16	Hordeum spp.
Beans, dry, edible	21.22	Phaseolus spp.
Beans, harvested green	21.64(a)	Phaseolus spp.
Beets, fodder (mangels)	21.38( <i>b</i> )	Beta vulgaris var. alba
Beets, red	21.63(c)	Beta vulgaris var. rubra
Beets, silver or spinach	*21.61( <i>i</i> )	Beta vulgaris var. maritima
Beets, sugar for feed Beets, sugar for sugar or for alcohol	$21.38(c) \\ 21.41(b)$	Beta vulgaris var. altissima
Bergamots	*23.11( <i>f</i> )	Citrus aurantium var. bergamia
Blackberries	*23.15(g)	Rubus spp.
Black pepper	23.24	Piper nigrum
Black wattle	23.34( <i>b</i> )	Acacia spp.
Blueberries	23.15(e)	Vaccinium myrtillus
Brazil nut	*23.16(d)	Bertholletia excelsa
Breadfruit	23.14(c)	Artocarpus altilis (incisus)
Broad beans, dry	21.21	
Broad beans, harvested green	*21.64(c)	Vicia faba
Broccoli	*21.65(a)	Brassica oleracea var. italica

Спор	Crop Reference number	
Broom millet	*21.49(e)	Pennisetum glaucum; eleusine coracana; Pa-
		nicum miliaceum: Setaria italica; Echi-
Broom sorghum	*21.40(a)	nochloa crusgalli and similar spp.
Brussels sprouts	*21.49( <i>e</i> ) *21.61( <i>a</i> )	Sorghum vulgare Brassica oleracea var. gemmifera
Buckwheat	*21.19	Fagopyrum esculentum
Cabbage		Brassica oleracea var. capitata
# (red, "Feb. 1981)		(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(b)	Cucumis melo
Caraway seed	*21.44(b)	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)	
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)	Cichorium iniyous
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	*23.39	Cymbopogon nardus
Citrons	*23.11( <i>f</i> )	Citrus medica
Clementines	*23.11( <i>b</i> )	Citrus nobilis
Clover for grazing	*21.52(a) }	Trifolium spp.
Clover for hay, green feed or silage	21.51(b)	[지원] : 이 아본 [1] 아니라 한 한 글 토 하는 토토 글로 말한 때
Cloves	23.22	Eugenia aromatica
Coconut	23.32(a)	Cocos nucifera
Cocyams	*21.35	Colocasia spp.; Xanthosoma spp.
Coffee	23.31(a)	Coffea spp.
Cola (consecut)	*23.31(e)	Cola spp.
Colza (rapeseed)	21.43( <i>j</i> )	Brassica campestris, brassica napus, brassica rapa
Corn, for silage	21.51(h)	Zea mays
Corn salad	*21.61(n)	Valerianella olitoria
Corn, sweet	21.65(b)	Zea mays

Crop	Reference number	Botanical name
Cotton	21.42( <i>a</i> )	Gossypium spp.
Cowpeas Cowpeas, harvested green	*21.29 *21.64(c)	Vigna sinensis
Cranberries	21.04(e) $f$ $23.15(f)$	Vaccinium oxyccocus, vaccinium ma-
Cress	*21.61( <i>l</i> )	crocarpum Lepidium sativum
Cress, water	*21.61( <i>l</i> )	Nasturtium officinale
Cress, American	*21.61( <i>l</i> )	Barbarea verna
Cucumbers	21.62(f)	Cucumis sativus
Currants	23.15(d)	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(a)	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(d)	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	Allium sativum
Garlic, green	21.63(a) \( \)	
Geranium Ginaan	*21.45	Pelargonium spp.
Ginger Gooseberries	23.26	Zingiber officinale
Gourds	23.15(c)	Ribes uva-crispa
Gram (chick peas)	21.62(e) 21.24	Lagenaria vulgaris Cicer arietinum
Grapefruit	*23.11( <i>d</i> )	Citrus decumana; Citrus grandis
Grapes	23.17	Curus decumuna, Curus grandis
Grapes for raisins	23.17(c)	
Grapes for table use	23.17(b) {	Vitis vinifera
Grapes for wine and juice	23.17(a)	
Grass, orchard	*21.51(e)	Dactylis glomerata
Green garlic	21.63(a)	Allium sativum
Green onions	21.63(b)	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( <i>c</i> )	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( <i>e</i> )	Indigofera spp.
Jerusalem artichokes	21.38( <i>d</i> )	Helianthus tuberosus
Jute	21.42( <i>d</i> )	Corchorus spp.
Kale	21.61( <i>c</i> )	Brassica oleracea var. acephala
Kapok	23.33( <i>e</i> )	Ceiba pentandra
Kenaf	*21.42( <i>e</i> )	Hibiscus cannabinus
Kohlrabi	*21.63( <i>f</i> )	Brassica oleracea var. caulo-rapa
Lavender	*21.45	Lavandula spp.
Leek	21.61( <i>j</i> )	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(d)	Macadamia spp.
Mace	23.23	Myristica fragrans
Maize	21.15	
Maize, hybrid	21.15(a)	Zea mays
Maize, ordinary, for grain	21.15(b)	
Maize for silage	21.51(h)	
Mandarins	*23.11(b)	Citrus nobilis
Mangels (fodder beets)	21.38(b)	Beta vulgaris var. alba
Mangoes Manile hamp (chase)	23.14( <i>d</i> )	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> )	Mespilus germanica
Melons (excl. watermelons)	*21.62(b)	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( <i>d</i> )	Brassica nigra; Sinapis alba
Nectarines	*23.13(c)	Prunus persica; Prunus persica var. necta- rina
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( <i>b</i> )	Elaeis guineensis
Okra	21.62(h)	Hibiscus esculentus
Olive	23.32(c)	Olea europea
Onions, dry	21.36	
Onions, green	21.63(b)	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( <i>b</i> )	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( <i>b</i> )	
Pecan nut	*23.16( <i>d</i> )	Carya pecan (Carya illinoensis)
Pepper, black	23.24	Piper nigrum
Peppers, dry	21.44(a)	Capsicum fructescens (annuum)
Peppers, sweet	21.62(k)	
Persimmon	23.14(j)	Diospyros kaki and Diospyros virginiana
Pigeon peas	*21.29	Cajanus cajan; Cajanus indicus
Pimentos	*21.44(a)	Capsicum
Pineapples	23.14(m)	Ananas comosus (sativus)
Pistachio nut	*23.16(d)	Pistacia vera
Plantains	23.14( <i>l</i> )	Musa paradisiaca
Plums and prunes	23.13(d)	Prunus domestica
Pomegranate	23.14(h)	Punica granatum
Poppy seed	21.43(e)	Papaver somniferum
Potatoes sweet	21.31	Solanum tuberosum
Prunes and plums	21.33	Ipomoea batatas
Prunes and plums	23.13( <i>d</i> )	Prunus domestica

Спор	Reference number	BOTANICAL NAME
Pomelo	*23.11( <i>d</i> )	Citrus decumana; Citrus grandis
Pumpkins, edible Pumpkins for fodder	$ \begin{array}{c} 21.62(c) \\ 21.59(b) \end{array}\} $	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( <i>c</i> )	Cydonia oblonga (vulgaris); Cydonia japonica
Quinoa	*21.19	Chenopodium quinoa
Radishes (incl. horseradishes)	21.63( <i>e</i> )	Raphanus sativus (incl. Cochlearia armo- racia)
Ramie	*23.33( <i>d</i> )	Boehmeria nivea
Rapeseed (colza)	21.43( <i>j</i> )	Brassica campestris; Brassica napus; Bras- sica 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(d)	Boehmeria tenacissima
Rhubarb	21.61(m)	Rheum spp.
Rice	21.13	Oryza sativa
Rubber (hevea)	23.34(a)	Hevea spp.
Rutabagas (swedes) Rye	*21.63( <i>f</i> ) 21.12	Brassica napobrassica Secale cereale
	21.12	Becule Cereule
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( <i>b</i> )	Citrus nobilis
Savoy cabbage	*21.61(a)	Brassica oleracea var. bullata
Scorzonera	*21.63(h)	Scorzonera hispanica
Sesame	21.43(h)	Sesamum indicum
Silver beets	*21.61(i)	Beta vulgaris var. maritima
Sisal Complying	23.33(a) (i)	Agave sisalana
Sorghum Sorghum, broom	21.14( <i>b</i> ) *21.49( <i>e</i> )	Caralyna wilaya
Sorghum, sweet	*21.41(c)	Sorghum vulgare
Sour limes	23.11(e)	Citrus aurantifolia
Soybeans	23.11(e) 21.43(b)	Citrus aurantifolia
Soybean hay	*21.51(c)	Glycine soja
Spelt 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( <i>b</i> )	Hordeum spp.
Spring rye	21.10(b) 21.12(b)	Secale cereale
Spring wheat	21.12(b) $21.11(b)$	
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( <i>d</i> )	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)	그런 한 경우 아무리 아이들은 얼마를 살았다.
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( <i>b</i> )	Zea mays
Sweet limes	*23.11( <i>f</i> )	Citrus limetta
Sweet peppers	21.62(k)	Capsicum fructescens (annuum)
Sweet potatoes	$21.32(\kappa)$	Ipomoea batatas
Sweet sorghum	*21.41(c)	Sorghum vulgare
Sect Solghum	21.41(c)	Sorgnum vulgare
Tangerines	*23.11( <i>b</i> )	Citrus nobilis
Tea	23.11(b) $23.31(c)$	
Timothy	*21.51(e)	Thea sinensis; Thea assamica
Tobacco		Phleum pratense
Tomatoes	21.49(a)	Nicotiana tabacum; Nicotiana rustica
	21.62(i)	Lycopersicon esculentum
Tung trees	*23.32( <i>d</i> )	Aleurites fordii; Aleurites triloba A. montana, A. moluccana
Turnips for feed	21.38(a)	Brassica rapa
Turnips, edible	21.63(g) \int	
Urena	*21.42( <i>e</i> )	Urena lobata
Vanilla	23.25	Vanilla planifolia
Vetches for grain	*21.29	Vicia sativa
Walnuts	23.16( <i>b</i> )	Juglans spp.
Water cress	*21.61 $(l)$	Nasturtium officinale
Watermelons	21.62(a)	Citrullus vulgaris
Wattle, black	23.34(b)	Acacia spp.
Wheat	21.11	Triticum spp.
White cabbage	*21.61(a)	Brassica oleracea var. alba
Winter barley	21.16(a)	Hordeum spp.
Winter rye	21.12(a)	Secale cereale
Winter wheat	21.12(a) $21.11(a)$	Electric tertain
Winter wheat, hard	21.11(a) $(i)$	Triticum spp.
Winter wheat, soft	21.11(a) (i) $21.11(a) (ii)$	11 meum spp.
Yams	*21.35	Dioscorea spp.
Yerba maté	23.31( <i>d</i> )	Ilex paraguensis
Zapote (sapodilla)	23.14( <i>i</i> )	Achras sapota

## II - ASIA AND THE FAR EAST SUPPLEMENT TO THE WORLD PROGRAM

#### INTRODUCTION

#### Outline of Asia and the Far 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 Asia and the Far East region.

While indicating modifications in the census items proposed, it has sometimes been found necessary 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 II and 8).

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

#### D. Coverage (see page 2)

The following should be added to this topic:

Much care should be exercised to obtain a proper coverage of the country during the agricultural census. Elimination of urban areas from the agricultural censuses may, in some countries, considerably reduce the value of the information obtained from the census for use in planning agricultural development. This may create doubts among planners and administrators about the usefulness of agricultural censuses in general.

In order to avoid incomplete data in the census, special attention should also be given to the listing

of agricultural holdings for census purposes. Lists of holdings available from administrative offices appear frequently to be incomplete, not up to date, and therefore not useful for enumeration purposes.

#### E. Methods (see page 3)

Under the item COMPLETE ENUMERATION CENSUSES AND SAMPLE CENSUSES, the following should be inserted in the penultimate paragraph:

In countries where agricultural development is more advanced and plans and programs are formulated for smaller areas, the sample censuses may not be able to supply the data required for regional planning because of the relatively small number of holdings in the regions concerned. A census by complete enumeration would then be needed.

#### K. Countries not using the metric system (see page 9)

The following should be added to this topic: Countries which measure the area in acres are

urged to arrange their classification of holdings by size within the following size groups:

All holdings with and without land Holdings without land Holdings under 1 acre under 0.2 acre 0.2 acre and under 0.5 0.5 acre and under 1 Holdings 1 acre and over 1 acre and under 2.5 2.5 acres and under 5 5 acres and under 7.5 7.5 acres and under 10 10 acres and under 12 12 acres and under 25 25 acres and under 50 50 acres and under 125 125 acres and under 250 250 acres and under 500 500 acres and under 1,250 1,250 acres and under 2,500 2,500 acres and under 6,000 6,000 acres and over Holdings of size not reported

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

## O. Simultaneous enumeration for the agricultural and population censuses

Simultaneous enumeration for the agricultural and population censuses would provide an occasion to relate some characteristics of the agricultural holdings to characteristics of population and households connected with those holdings and, in certain cases, would lead to economies. There are, however, certain disadvantages. First of all, a combination of the two enumerations may overburden the enumerators. This may create a greater probability of errors in collecting the census data, especially those related to the agricultural part of the census, which generally include more difficult questions than the population census. Secondly, special difficulties arise if objective measurements have to be made to collect certain information required for the agricultural census. Thirdly, experience has shown that, in many cases where the agricultural census enumeration was combined with that for the population census, the latter data were processed first while processing of agricultural information was seriously delayed, because it was commenced only after processing of the population data had been completed. Finally, in cases where sampling methods are to be used, it would be difficult to evolve an efficient sampling design for purposes of both the agricultural census as well as the population census.

On balance, it appears that the disadvantages of simultaneous enumeration outweigh its advantages.

Taking the population and the agricultural census at the same time cannot, generally, be recommended. However, countries are free to synchronize the timing of the two censuses if the conditions and resources of the countries justify it.

## P. Relation of the census of agriculture to current agricultural statistics

An agricultural census provides basic information on the agricultural structure, while other agricultural statistics are collected to supply, currently, information on agricultural operations. A complete picture of the agricultural situation in a country can be obtained only from a combination of both types of statistics.

Agricultural census results, furthermore, are used as a bench mark and thus facilitate the application of simplified methods for collecting and checking current agricultural statistics. They also serve as a frame, occasionally with modifications, for selection of a sample of holdings in subsequent surveys. The sample design of such surveys may be improved by using the census data for stratification purposes or for adopting more efficient estimation procedures.

Thus, statistical information supplied by the census of agriculture constitutes an excellent basis for the establishment of a sound system of current agricultural statistics.

For all these purposes, it is essential that the concepts and definitions used in both agricultural censuses and current agricultural statistics are the same as far as possible.

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

## Additional definition of census items and explanatory notes

#### HOLDING

Under this item, the following should be inserted on page 12, column 1, at the beginning of the last paragraph, by replacing the word "Where":

As has been emphasized above, a holding may consist of one or more separate parcels located in one or more territorial divisions, provided all these parcels are under the same management, use the same means of production, and provided also neither one of these conditions is violated. In addition, if production obtained from two different groups of parcels or livestock goes to two different groups of persons, each group of parcels or livestock, respectively, should be considered as a separate holding. Therefore, where...

#### LOCATION OF THE HOLDING

It may happen that the holding consists of several parcels located in different political subdivisions. In such case, a criterion should be established to determine which political subdivision should be entered as the location of the holding. It is recommended that the political subdivision where the largest part of the whole area of the holding is located should be considered as the location of the holding.

#### TOTAL AREA OF THE HOLDING

It is suggested that when the house of the holder is located in a residential area, e.g., in a town, the area of his house included in the total area of the holding (Group 01.3) is also recorded separately.

#### HOLDER

The following should be inserted under this item on page 13, column 2, between the first and second paragraphs:

In countries where operation of agriculture is on a family basis, the person to be reported as the holder should be the one actually operating the land or the livestock and not the head of the household, unless he is responsible for the operation of the holding.

Attention is called to the fact that the same holder may operate more than one holding. Such a case will occur, for instance, if the juridical person operates several agricultural technical units having separate means of production, e.g., labor force, machinery and animal production, and each of these units is administered by a hired manager.

Laborers receiving land from the landlord for their own operation but located within a large holding should be recognized as separate holders, because they themselves decide what and when to cultivate and have the power of decision making. Consequently, such laborers should be separately enumerated and not included as part of the large holding in which they are located.

#### LEGAL STATUS OF THE HOLDER

For countries using the farm household as the unit of enumeration, the legal status should always be "civil person." The question of legal status need not be included in the census of peasant agriculture. Other forms of legal status should, however, be investigated for agricultural establishments other than farm households.

#### TENURE

Area rented in exchange for services (see page 15, column 1, paragraph 3).

Part (b) of the definition of area rented in exchange for services, in the Program for the 1970 World Census of Agriculture, should read as follows: ... (b) that in which the holder is granted a piece of land as payment or part-payment for services to the government, to the church or to religious organizations or to others.

NAME OF THE RESPONDENT AND HIS RELATIONSHIP TO THE HOLDER

It is to be noted that the main aim of this item is to obtain an indication of the possible reliability of the information to be received. The item is not included in the tabulation program.

#### Modified and additional tabulation plans

For some countries of the region, the classification of holdings by size proposed in the World Census Program may not be fully adequate. However, countries are free to expand the size classification within the frame of the classification proposed in the World Program. In some cases, for instance,

the largest classes may be combined if the number of holdings in the separate classes is too small. This approach may be used particularly in the case of sample censuses. However, it is stressed that, in designing a sample census, the size of the sample should be properly determined in order to ensure the accuracy required for the proposed classification of holdings.

### Section 1 - LAND UTILIZATION

## Additional definition of census items and explanatory notes

SIMULTANEOUS UTILIZATION OF LAND FOR DIFFERENT TYPES OF CROPS

In the case of associated crops, i.e., when both temporary crops and permanent crops are growing simultaneously in the same field, the total physical area of the field should be properly divided between the different groups of land utilization in proportion to the coverage of the area by each of the component categories.

To avoid difficulties arising in the case where permanent crops such as rubber, for instance, are being established and, during the transitional period, when temporary crops are being grown in the same field, a separate category, "Land in transition to permanent crops," may be included. This class of land could then, according to need, be added either to "Land under permanent crops," or to "Land under temporary crops."

### Section 3 - LIVESTOCK AND POULTRY

#### Additional and modified census items proposed

SUBDIVISION OF GROUPS 31.1, 31.2 AND 31.3 BY SEX

In the Regional Program, it is proposed that data

on horses, mules and asses (all ages) be collected by sex. Therefore, on page 37 of the World Program, the appropriate part of the table regarding the proposed census items should read as follows:

Major group	Number							
	Total	Male	Female					
31. HORSES, MULES, ASSES AND CAMELS								
31.1 Horses (all ages)								
*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)								
31.3 Asses (all ages)								

<sup>\*</sup> Item repeated without modification from the World Program.

Transfer from the Expanded List to the Short List

From the World Program, Group 37.3 is transferred from the Expanded List to the Short List for the Regional Program. The appropriate item on page 39 of the World Program should, therefore, be printed in **bold type**, i.e.:

37.3 Ducks and ducklings (all ages)

ITEMS REGARDING PRODUCTION OF MILK, EGGS AND MEAT

In the World Program, no items are proposed with respect to the collection of data on the production of milk, eggs and meat. Only in footnote 1 on pages 37 and 38 is it mentioned that some countries may wish to inquire into milk production. This is because production of the above-mentioned

products continues with different intensity throughout the year and annual production is not known to a holder who can only report information related to a short period. However, in most countries of this region, the census offers the only opportunity to obtain information regarding production of milk, eggs and meat. In those countries, data on these products may be collected in the census with some fixed period as a base (not more than a week) e.g., one day or one week. In order to estimate annual production of these products, collection of such data should be followed by successive sample surveys in different seasons during the census year. Wherever feasible, a provisional check of these figures by objective methods should also be made.

No specific items or tables with regard to the above items are proposed in the Regional Program.

#### Modified and additional tabulation plans

According to modifications introduced in the list of items for the Regional Program in Table 3.1 of the World Program, columns regarding sex are added under horses, mules and asses. Furthermore, in Table 3.12 of the World Program, the heading "Ducks" should appear in **bold type**.

The above-mentioned tables should therefore read as follows:

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

			Н	rses				Mui	es			Ass	es	
Size class	hold- reported		Number of horses	of horses		0	lumbe f mule eporte	5	Num- ber of hold- ings		Numbe of asses eporte			
	report- ing horses	Total	Male	Fe- male	under 3 years of age	of age and over	report- ing mules	Total	Male	Fe- male	report- ing asses	Total	Male	Fe- male
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		ĺ												
0.5 hectare and under 1														
1 hectare and under 2			1.				1 1							
2 hectares and under 3														
3 hectares and under 4														
4 hectares and under 5			-	1.										
5 hectares and under 10	1													
10 hectares and under 20											1 1			
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														

<sup>&</sup>lt;sup>1</sup> Countries which are in a position to do so are requested to tabulate these data according to the form of tenure of the holding.

		Number of head reported											
	Num-	Chickens <sup>2</sup>					Geese				Rabbits and hares		
Size class	ber of hold- ings	nold- ings			6* months of age and over			Tur- keys	Guinea fowls	Pigeons			
	report- ing	Total	months of age	Total	Laying hens								
All holdings with and without land		i i											
Holdings without land				:									
Holdings under 0.5 hectare				· .							1		
under 0.1 hectare									1	1.0			
0.1 hectare and under 0.2				1.5									
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													
2 hectares and under 3													
3 hectares and under 4											1		
4 hectares and under 5													
5 hectares and under 10		1	15.0			1.	1.						
10 hectares and under 20					1					1 4 4 3			
20 hectares and under 50			1										
50 hectares and under 100						1							
100 hectares and under 200	1 35									1.5			
200 hectares and under 500			1										
500 hectares and under 1,000			]										
1,000 hectares and under 2,500			1										
2,500 hectares and over		1									1		
Holdings of size not reported		1				1							
riologings of size not reported			1						1				
		1				1				1 1 2			

<sup>\*</sup> 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.

### Section 4 - EMPLOYMENT IN AGRICULTURE

#### Additional and modified census items proposed

AGE GROUPING

Classification by age in this section of the World Program (see pages 49 and 50) will be expanded in the Regional Program to the following groups:

- \*(a) Under 15 years of age
- (b) 15 to 54 years of age
- (c) 55 to 64 years of age
- \*(d) 65 years of age and over

SUBDIVISION OF GROUPS 42.4 AND 43.4

In the Regional Program, Groups 42.4 and 43.4 are subdivided into two items:

42.41 and 43.41 - Man-hours spent on agricultural

42.42 and 43.42 - Man-hours spent on nonagricultural work

As a result of the above-mentioned modifications, the proposed census items in the World Program regarding Major Groups 42 and 43 (see pages 49 and 50) should be replaced in the Regional Program by the following:

<sup>\*</sup> Item repeated without modification from the World Program.

				Ma	ile			Female				
				· .	Under	15	55	65	Under	15	55	65
Majo	ip '			Total	15 years	to 54 years	to 64 years	years of age and	15 years	to 54 years	to 64 years	years of age and
	Grou	р		*	of age	of age	of age	over	of age	of age	of age	over
42.		EMPLO	DYMENT IN AGRICULTURAL WORK ON									
		THE	HOLDING DURING THE CENSUS WEEK		1							
	42.1	Numb	er of persons employed in agricultural									
		work	on the holding during the census week									
		42.11	Holder and unpaid members of his house-									
			hold <sup>1</sup> (a) Permanent workers						• • • •			•••
			(b) Temporary workers									• • • • • • • • • • • • • • • • • • • •
			(c) Occasional workers	• • •	•••	•••	•••	•••	• • • •	•••	••••	•••
		42.12	Participants in co-operative, collective and communal holdings 1	• • •				• • •		•••	•••	•••
			(a) Permanent workers					• • •				•••
			(b) Temporary workers	• • •	• • • •			•••	•••			•••
		42.42	Mark and the section of the second of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section o	•••	•••	•••	• • •		• • •	• • • •	•••	
		42.13	Persons working for pay on the holding 1,2 (a) Permanent workers		• • • •					• • •		•••
			(b) Temporary workers									
			(c) Occasional workers	• • •	•••	•••	••••	•••	•••	• • • •	•••	•••
42.	42.2 Total number of man-hours worked on the holding during the census week by the holder and		number of man-hours worked on the hold-									
								1 1				
		unpaic	members of his household	• • •	• • • •	•••	• • • •	• • • •	• • •			
	42.3		number of man-hours worked on the hold-				*.					
	ing during the census week by other persons, including participants in co-operative, collective											
		and co	ommunal holdings	• • •	•••	•••	•••	• • •	• • •		•••	•••
	42.4		number of man-hours worked off the hold- iring the census week by the persons re-									
			in 42.11									
			Man-hours spent on agricultural work Man-hours spent on nonagricultural work			•••		•••	•••		•••	•••
		72.72	Transition's spent on nonagricultural work	• • •		•••	•••	•••	•••	•••	•••	
43.			DYMENT IN AGRICULTURAL WORK ON HOLDING AT DIFFERENT SEASONS									
		(To be	recorded by successive sample surveys of									
		agricu	tural holdings during the agricultural year)					1				
	43.1		er of persons employed in agricultural work holding during the survey week		1							
			in the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contrac	•••	•••	•••	• • • •	•••	•••			
		43.11	Holder and unpaid members of his household 3		and the second							
			(a) as of						•••	•••		
			(b) as of								• • •	• • •
			etc.					•••				
		43.12	Participants in co-operative, collective, and									
			communal holdings 3		: .							
			(b) as of						• • • •		• • • •	•••
			(c) as of (date)	• • •			• • • •	•••		• • •	•••	•••
		42 12	Section and the engineering of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the s	•••	•••	•••	•••	•••	•••	•••	•••	•••
		<del>1</del> 3.13	Persons working for pay on the holding 2,3 (a) as of									
			(b) as of				• • •	• • • •			• • • •	
			(c) as of (date)						•••			
							,				••••	

<sup>&</sup>lt;sup>1</sup> Items 42.11, 42.12 and 42.13 are mutually exclusive. - <sup>2</sup> Including the hired manager. - <sup>3</sup> Items 43.11, 43.12 and 43.13 are mutually exclusive.

Major group		14.1	1.3%	M	ale			Fen	nale	. 5/1/15/2
Grou 43.		Total	Under 15 years of age	15 to 54 years of age	55 to 64 years of age	65 years of age and	Under 15 years of age	15 to 54 years of age	55 to 64 years of age	65 years of age and
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	•••	•••		•••	over			o, age	over
43.3	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		•••		•••		• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	
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		•••	•••	•••		•••	•••		
	43.41 Man-hours spent on agricultural work  (a) as of	•••	•••		• • • • • • • • • • • • • • • • • • • •	•••	•••	• • • •	•••	•••
	43.42 Man-hours spent on nonagricultural work (a) as of		•••							•••

#### Modified and additional tabulation plans

According to changes in the list of items introduced in the Regional Program, Tables 4.2 to 4.5 of the World Program have been modified as follows:

In Tables 4.2 and 4.3, each of the columns under the heading "15 to 64 years of age" is split up

into two columns: "15 to 54 years of age" and "55 to 64 years of age."

In Tables 4.4 and 4.5, the last column, "Number of man-hours reported," is split up into three columns: "Total," "Agricultural work" and "Nonagricultural work."

The above-mentioned tables should therefore read as follows:

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	55 to 64 years of age	
	Fen	15 to 54 years of age	
orkers		27 year 15 years 93 s 10	
nal w		55 years of age and over	
Occasional workers	e	sass to 63 see	
ľ	Male	15 to 54 years of age	
		Under 15 years of age	
		Total	
-		65 years of age and over	
	ale	sass to 62 sage	
	Female	15 to 54 years of age	
Temporary workers		Under 15 years of age	
rary w		65 years of age and over	
Гетро	Male	55 to 64 years of age	
ľ	Σ	15 to 54 years of age	
		Under 15 years of age	
		Total	
		65 years of age and over	
	ale	sass to of see	
	Female	15 to 54 years of age	
orkers		Under 15 years of age	
ent w		65 years of age and over	
Permanent workers	<u>o</u>	sass to 64 years	
	Male	15 to 54 years of age	
		Under 15 years of age	
		ls20T	
		Total number of workers	
	s	Buiblod to nadmuM gnionogan	
		Size class	All holdings with and without land Holdings without land under O.1 hectare 0.1 hectare and under 0.2 0.2 hectare and under 0.5 1 hectare and under 1.7 1 hectares and under 1.7 2 hectares and under 2.7 3 hectares and under 4.4 4 hectares and under 5.0 50 hectares and under 5.0 50 hectares and under 10 70 hectares and under 10 70 hectares and under 10 70 hectares and under 10 70 hectares and under 10 70 hectares and under 50 70 hectares and under 10 70 hectares and under 50 70 hectares and under 50 70 hectares and under 50 70 hectares and under 50 700 hectares and under 1,000 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200 700 hectares and under 200
			All holdings with and Holdings without land Holdings under 0.5 hectare 0.1 hectare and unde 0.2 hectare and unde 0.2 hectare and und 1 hectare and unde 0.5 hectare and unde 0.5 hectares and unde 0.5 hectares and unde 0.5 hectares and unde 0.5 hectares and unde 0.5 hectares and unde 0.5 hectares and undectares and und

<sup>1</sup> 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 (year)

All persons 2

A control age of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	
	All holdings with and without land Holdings without land Holdings without land Under 0.5 hectare 0.1 hectare and under 0.5 0.2 hectare and under 1 1 hectare and under 2 2 hectares and under 4 3 hectares and under 4 4 hectares and under 10 10 hectares and under 10 20 hectares and under 10 20 hectares and under 10 20 hectares and under 10 20 hectares and under 10 20 hectares and under 10 20 hectares and under 10 20 hectares and under 10 20 hectares and under 100 200 hectares and under 100 200 hectares and under 1,000 500 hectares and under 2,500 5250 hectares and under 2,500 5260 hectares and under 2,500 5260 hectares and under 2,500

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		the holding d week	uring the	Man-hours worked off the holding during the cen- sus week by the holder and "unpaid members of his household"					
Size class		older and embers of usehold	By other	persons	Number of	Number of man-hours reported				
	Number of holdings reporting	Number of man-hours reported	Number of holdings reporting	Number of man-hours reported	holdings reporting	Total	Agricultural work	Nonagri- cultural work		
All holdings with and without land		11.1								
Holdings without land										
Holdings under 0.5 hectare										
0.1 hectare and under 0.2  0.2 hectare and under 0.5										
O.2 hectare and under 0.5										
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										
200 hectares and under 500										
1,000 hectares and under 2,500										
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 <sup>1</sup>

	Estimated		worked on the	holding	Estimated man-hours worked off the holding during the year by the holder and "unpaid members of his household"					
Size class	By the holder and unpaid members of his household		By other	persons	Number of	Number of man-hours reported				
	Number of holdings reporting	Number of man-hours reported	Number of holdings reporting	Number of man-hours reported	holdings reporting	Total	Agricultural work	Nonagri- cultural work		
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 50 50 hectares and under 50 50 hectares and under 50 50 hectares and under 50 50 hectares and under 50 50 hectares and under 500 100 hectares and under 500 100 hectares and under 500 100 hectares and under 1,000 1,000 hectares and under 2,500 1,000 hectares and under 2,500 1,500 hectares and over										
Holdings of size not reported										

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

### Section 5 - FARM POPULATION

#### Additional and modified census items proposed

Modification of items 51.1(b) and 51.2(b)

In the Regional Program, items 51.1(b) and 51.2(b) have been modified, so that the age group "15 to 54 years of age" could be distinguished from that of "55 to 64 years of age." Therefore, on page 56 of the World Program, items 51.1(a) and (c) and 51.2(a) and (c) remain the same, but 51.1(b) and 51.2(b) should read as follows:

(b. 1) 15 to 54 years of age

(b. 2) 55 to 64 years of age

#### Modified and additional tabulation plans

According to modifications in the list of items introduced in the Regional Program in Table 5.2 — Farm population by sex and age, by size of holding, each of the columns under the heading "15 to 64 years of age" has been split up into two columns: "15 to 54 years of age" and "55 to 64 years of age."

Table 5.2 should therefore read as follows:

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

	Number	Total		Ma	ıle	44.41.41	19.3	Female				
Size class	of holdings reporting	popula- tion	Under 15 years of age	15 to 54 years of age	55 to 64 years of age	65 years of age and over	Under 15 years of age	15 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					13							
0.1 hectare and under 0.2							1, 5,					
0.2 hectare and under 0.5												
Holdings 0.5 hectare and over												
1 hectare and under 2												
3 hectares and under 4												
4 hectares and under 5												
10 hectares and under 20												
50 hectares and under 100												
100 hectares and under 200												
500 hectares and under 1,000						***************************************						
2,500 hectares and over												
Holdings of size not reported						Name 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 Control						
		7 + 4 +			1 - 1 -							

<sup>&</sup>lt;sup>1</sup>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

## Additional definition of census items and explanatory notes

NUMBER OWNED BY THE HOLDER

Data on the number of machines owned by the holder should cover all serviceable equipment (including equipment under repair), whether it is actually in use or not on the date to which information relates.

Machines owned by the holder but used for agricultural work on other holdings should be enumerated as "owned by the holder" but the use of the same machine should be reported by the other holders concerned as "provided by private contractors."

### Section 7 - IRRIGATION AND DRAINAGE

## Additional definition of census items and explanatory notes

AREA OF LAND ACTUALLY IRRIGATED (see page 66)

It is suggested that, in this section, the *physical* area irrigated should be reported, while in Section 2 — Crops (see pages 26 to 31, column under heading "Irrigated"), the *aggregate* irrigated area of selected crops should be reported.

In cases where part of the holding was irrigated

several times but to a different extent, or was not irrigated in one season but in another, the area to be reported should be the largest physical area irrigated during the year.

#### DRAINAGE

The concept of drainage also includes cases where water flows from a field situated on a higher level to that of a lower one by means of special sluices.

### Section 8 - FERTILIZERS AND SOIL DRESSINGS

#### Additional and modified census items proposed

It is advisable that countries of this region which are in a position to do so report also data under Groups 81.2 and 81.3 for each of the major crops in the country.

## Additional definition of census items and explanatory notes

AREA TREATED WITH FERTILIZERS

If organic and inorganic fertilizers are applied to the same piece of land, the area of this land should be reported both under "Area treated with organic fertilizers" and "Area treated with inorganic fertilizers."

### Section 9 - WOOD AND FISHERY PRODUCTS

#### Additional and modified census items proposed

NEW GROUPS

In the Regional Program, the following new groups are proposed:

91.5 Bamboo

91.6 Wood for agricultural implements

On page 69 of the World Program, the above groups should be inserted between Groups 91.4 and 91.9. Furthermore, Group 91.2 should read:

91.2 Sawlogs and veneer logs (excluding wood used specially for agricultural implements, which should be reported under Group 91.6)

#### Modified and additional tabulation plans

According to modifications in the list of items introduced in the Regional Program, in Table 9.1 – Number of holdings reporting wood products and quantity produced, by size of holding, new columns for "Bamboo" and "Wood for agricultural implements" are included. Table 9.1 of the World Program should therefore be replaced by the following:

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

<sup>1</sup> Excluding quantities used specially for the construction of agricultural implements.