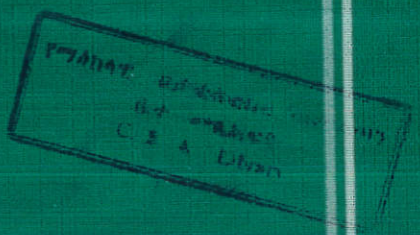
Federal Democratic Republic Of Ethiopia

CENTRAL AGRICULTURAL CENSUS COMMISSION

ETHIOPIAN AGRICULTURAL SAMPLE ENUMERATION, 2001/02(1994 E.C.)

Results for Gambella Region



STATISTICAL REPORT ON SOCIO-ECONOMIC CHARACTERISTICS OF THE POPULATION IN AGRICULTURAL HOUSEHOLDS, LAND USE, AREA AND PRODUCTION OF CROPS, FARM MANAGEMENT PRACTICES, LIVESTOCK AND FARM IMPLEMENTS

Addis Ababa
July ,2003

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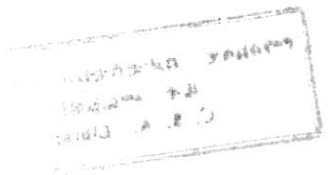

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FOREWORD

An agricultural census, which would serve as a source of a benchmark data for the sector has not been conducted in Ethiopia. However, in order to provide basic agricultural information to data users, annual agricultural sample surveys have been carried-out since 1980/81 by the Central Statistical Authority (CSA). Although, these annual sample surveys have some limitations in terms of scope, coverage and level of disaggregation, these surveys have served as a means of narrowing the data gap in the sector.

Considering the importance of the agricultural sector and the need for a comprehensive data, the CSA has requested the concerned government authority to initiate the undertaking of a National Agricultural Census several times. That is, it has submitted a project proposal immediately after the launching of the 1984 National Population and Housing Census. Moreover, it has also attempted to materialize this census in late 1980's and in early 1990's i.e. immediately after the undertaking of the 1994 National Population and Housing Census. The attempt continued till CSA got a positive response from the government in 1998. Hence, the CSA has been carrying out the Agricultural Census preparatory activities from September 1999, to August 2001.

Thus, in order to overcome the above-mentioned limitations on the data generated from the Annual Agricultural Sample Surveys and provide a benchmark data on the agriculture sector, the CSA launched the fieldwork of the first ever Ethiopian Agricultural Sample Enumeration in September 2001. Prior to launching the sample enumeration a number of preparatory activities such as the preparation of the census documents, undertaking the pretests and the pilot censuses, ...etc were also carried-out.

The 2001/02 Ethiopian Agricultural Sample Enumeration was launched under the auspices of the Ethiopian Agricultural Census Commission that was set up

under Proclamation No. 238/2001. The Commission is chaired by the Prime Minister and the members of the Commission are drawn from various relevant Federal Ministries and other government organizations. The Central Statistical Authority serves as the Secretariat Office of the Commission. Hence the collection, processing, evaluation and analysis of the census data as well as its dissemination are the responsibilities of this office.

The 2001/02 Ethiopian Agricultural Sample Enumeration is a huge nation wide operation, which could not be undertaken by a single organization. Hence, in order to enhance and facilitate the census enumeration activities Regional, Zonal, and Wereda Census Commissions have been established and Census Committies were set-up at Kebele levels. In the conduct of this census, full cooperation and assistance of governmental and non-governmental organizations, external donor agencies and the public in general have been obtained.

It is worth mentioning that the 2001/02 Crop Production Forecast Report, which is the first phase of the Agricultural Census was prepared, printed and disseminated to agricultural data users in December, 2001.

On the other hand, the census data on area under crop, production and yield of temporary crops consisted of cereals, pulses, oil seeds, vegetables and root crops for Meher Season was processed, compiled, evaluated and a report has been prepared and printed. This report entitled as a "Report on the Preliminary Results of Area, Production and Yield of Temporary Crops" (Meher Season, Private Peasant Holdings) is the Second Census Report so far published printed and disseminated to agricultural data users in October, 2002. It should be noted that during the census, huge sets of data on agriculture and related topics were collected. Given the limited resources (skilled manpower, computers...) available at the head quarters, data processing and summarization of results require quite longer period, than originally expected.

Since the release of the above mentioned Census Preliminary Report, the CSA, have put all the necessary efforts and made all the available resources, (skilled manpower computers,...) at the disposal of the census data processing activities. Consequently, the Authority has reached a stage where the agricultural census data processing activities have advanced to a stage where the data can be evaluated, reports can be prepared and released at regional levels and eventually at national level.

Thus, the Agricultural Census Report on Gambella Region is the ninth series of this census report. This regional report is a comprehensive one and it consists all the agricultural data collected during the 2001/02 Ethiopian Agricultural Sample Enumeration. These data include: the socio-economic characteristics of the population in agricultural households; land use; area, production and yield of temporary and permanent crops; farm management practices; livestock, poultry and beehives; and farm implements, draught animals and storage facilities. Similar comprehensive reports for the other regions will follow and would be released consecutively.

The Office of the Ethiopian Agricultural Census Commission would like to thank all government and non-government agencies who participated in the organization of the census, the supervision of the field work, the data collection, and the respondents who participated in providing the necessary census data. The Ethiopian government has given huge financial and unreserved administrative support in undertaking the 2001/02 Ethiopian Agricultural Sample Enumeration. This indicates the continuous commitment and high priority offered by the Ethiopian Government for the development of the agricultural sector statistics as well as the other socio-economic and demographic statistics.

Finally, the Office would also like to take this opportunity to express its many thanks to the United States Agency for International Development (USAID) for its generous financial and technical assistance for the census. Moreover, thanks are due to the European Union (EU) for its financial assistance and the British Department for International Development (DFID) for its material assistance for the census.

Abdulahi . Hassen (Ph.D.)

Member and Secretary,

Central Agricultural Census Commission

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CHAPTER I

BACKGROUND

1. INTRODUCTION

A nation has to feed its people adequately to have healthy and wealthy citizens for the promotion of its development and growth. A government concerned with the well being of its people and aiming at the rectification of the national economy makes agriculture its top priority for the achievement of the above goals. Policy making and decision taking are essential in this regard. But there are recognized constraints such as the availability of adequate and comprehensive statistical data on agriculture that guides policies and decisions for attaining development targets in the agricultural sector.

In recognition of these constraints, and in an effort to provide accurate, reliable and timely data on the nation's agriculture that policies and decisions entail, the Central Statistical Authority (CSA) has been conducting annual agricultural sample surveys since 1980/81 (1973 E.C.). As a result, data on area, production and yield of major crops, farm management practices, land use, livestock, poultry and beehives have been produced at country, regional and zonal levels for both Meher and Belg seasons on a yearly basis.

Despite this effort, the economic policy has recently focused on agricultural sector and data users became more sophisticated demanding for various data in greater detail on timely basis, with improved accuracy and reliability and highly disaggregated to levels where project planning and implementation take place. Hence, the existing data that has resulted from the regular annual agricultural sample survey could not meet these demands. Accordingly, these needs led the CSA to reappraise the agricultural data it has produced so far and realized the gap between the demand for agricultural data and the data supplied is widening. Thus, as an organization situated between the data and its users, the CSA was prompted by the gravity of the demand for more detailed data to embark upon a census of agriculture in the year 2001/02 and narrow the existing data gap.

Development and monitoring of the agricultural sector require data on a wide range of indicators. A census of agriculture is the leading source of such data. It provides an image of a nation's farming and agricultural activity at a particular point in time (an agricultural production year) for the data disaggregated at the lowest level of reporting.

In Ethiopia, prospects and policies regarding agriculture have evolved significantly over recent years. Economic problems have been the major factor in development and implementation of these policies and programs. The agricultural policies and programs are targeted at ensuring that food crops will be made available to those who need it and don't obtain enough of it or guaranteeing everyone access to safe and nutritious food. To put it in a nutshell: it is to create and maintain food security. The realization of this goal requires the implementation of the policies and programs at woreda level and make available agricultural statistics at corresponding administrative level. It is against this background that the census was conducted to monitor the trends and the changing patterns in agricultural production with the acquisition of agricultural statistics at wereda, zonal,regional and country levels.

2. OBJECTIVES OF THE CENSUS

There are fundamental problems prevailing in the agricultural sector that are especially affecting the rural population and often perceived as the maladies of the Ethiopian economy. In order to solve these problems gradually but steadily, the Ethiopian government has been developing various agricultural programs and schemes. To effect these programs and meet other objectives, the census is the appropriate method of data collection for providing much needed and more detailed statistical information on agriculture.

2.1 The general objectives are to: -

- Provide benchmark data on the structure of agriculture for planning, policy making and other uses during intercensal years,
- Provide detailed data at lower administrative level,

- Use the census as a vehicle for developing the national agricultural statistics system,
- Secure data for items whose production is limited (rare crops),
- Secure benchmark data for improving the annual agricultural sample survey in the future,
- Make use of the census experience and trained personnel for capacity building and strengthening the Ethiopian Statistical Authority in the field of agricultural statistics, and
- Develop data bank with facility for updating consistency checks and retrieval of data in various forms tailored to the needs of the users.

2.2 The specific objectives are to provide: -

- Basic information on the country's agriculture to the government for formulating and implementing timely food security measures and to alert policy makers about the food situation in the country,
- Information to the government to develop and monitor farm programs, study historical trends, appraise current conditions and plan for the future,
- Information for the government to design and allocate funding for extension service projects, and
- Data for the private sector in order to execute the effective production and distribution system in the agricultural sector.

This report presents the Agricultural Sample Enumeration results for Gambella Regional State. It comprises eight chapters: Chapter I presents the Background and the Objectives of the Census, Chapter II discusses the Census Methodology and Operations which is composed of Scope and Coverage of the Census, Sampling Frame, Sample Design, Sample Selection, Organization of Field Work, Training of Field Staff, Method of Enumeration, Concepts and Definitions and Data Processing. Chapter III deals with the Socio-Economic Characteristics of the Population in Agricultural Households. Chapter IV covers Land Utilization and Chapter V deals with Area and Production of Crops and Crop Utilization.

Moreover, Chapter VI treats Farm Management Practices. Further, in Chapter VII of this report, Size, Characteristics and Purpose of Livestock and Livestock Products are discussed. Finally, in Chapter VIII the census results are presented on Farm Implements, Draught Animals and Storage Facilities.

Also, each Part of the report encompasses Appendix I that shows the Estimation Procedures of Totals, Ratios and Sampling Errors; Appendix II gives the Number of EA's and Agricultural Households Sampled and Covered in the region by wereda; and Appendix III shows the Agricultural Sample Enumeration Questionnaires. Moreover, tables that show the Standard Errors (S.E) and Coefficients of Variation (C.V) are given as an annex at the end of the relevant chapters.

CHAPTER II

CENSUS METHODOLOGY AND OPERATIONS

1. INTRODUCTION

As explained in the introductory chapter of this publication, the census of Agriculture is a large-scale, periodic statistical operation for the collection of quantitative information on the structure of agriculture. Such a huge operation demands sequence of standard activities. In order to collect, process and produce reliable and internationally comparable data, the different technical procedures and operations that have to be applied during the census should follow what has been globally recommended.

Hence, this chapter highlights what has been exercised before and during the census operations in areas of subject and area coverage, census methodology, (such as sampling frame, sample design, listing and selection of primary sampling units and households), and census operations that included organization of field work, training, method of enumeration, quality control and data processing.

The scope of the agricultural census concerns the type and dimension of data to be collected. When the CSA has launched the planning of the census, it solicited the demand of data from various government and non-government organizations which are the major users of the resulting census data. The response was just overwhelming and put the CSA in an awkward position to decide on the scope. The decision on the range and extent of data items to be dealt with by the census is really hard to make given the size of the country's population engaged in agriculture, the limited human and financial resources, and the magnitude of the census work. The CSA had to strike a balance between the scope on the one hand and the available resources and time on the other hand so that there was a trade-off between the two.

Since the census of agriculture is not a frequent data collection activity, it is best suited for collecting more data on various characteristics relating to area and production of crops. It lends the opportunity of capturing as much data as possible, especially when it is conducted for the first time. But agricultural census is not a practical means of providing all data. Not all agricultural statistics can be collected through a census of agriculture. Hence, there was caution against overloading the agricultural census forms with extensive scope. Thus, with regard to the scope, the census had to be restricted to a coherent and manageable range of data items.

In this census the data collected include: demographic and economic characteristics of population in agricultural households and holders during the reference period; area, production and yield of both temporary and permanent crops harvested in the farming of Meher as well as Belg Seasons; farm management practices envisaged during both seasons; land use under major categories; and livestock, poultry and beehives. It also includes data on farm tools, implements, draught animals and storage facilities. The data collection on the production of vegetables and root crops, which was not covered by the annual agricultural sample survey, was also included in this census.

The cost of data collection is one of the most important factors in the planning and execution of a census. In a country like Ethiopia including in Gambella Region, where in addition to the problems mentioned above, transportation and communications are poor and the resources available are limited to meet the cost of a census tend to be major problems. The problem is more pronounced when deciding on the extent of census coverage.

A decision whether to carry out a complete enumeration or to plan a sample enumeration of holdings depends on the availability of resources and the level at which the census results are required. This holds true whether the results will be provided at wereda level or higher administrative hierarchies. With these constraints and extremely large number of holdings in the country's agricultural system and considering the huge cost required and timely production of the data, with the aim of providing the results at woreda level where almost all the agriculture is undertaken by small holders, a census of agriculture on the basis of sample

enumeration was adopted by the CSA. In a census that aims in securing data on more agricultural items with reasonable accuracy at wereda level, a well-defined sample enumeration is more manageable, efficient and is expected to produce equal or better quality data than a complete enumeration and is able to provide results in a more timely fashion.

Gambella is a regional state with an estimated population of 228 thousand in July 2003 and an area of 25,802.01 sq. kms. For administrative purposes, the Region is divided into two zones and 9 weredas. Agriculture is the dominant sector in the region and biggest employer of the economically active population. The sector in the Region is further characterized by extremely small holdings, mostly private peasant holdings, dispersion of cropland holdings, traditional farming and low level of literacy among the holders.

The Gambella Region Agricultural Sample Enumeration has covered adequately representative and sufficiently large number of units (holdings) engaged in agriculture both in rural and urban areas to produce relatively reliable data at wereda level. For the purpose of this census, three farming categories have been identified: rural private holdings, urban private holdings and commercial farms. All the categories have been treated in the census on sample bases except the last one that was enumerated completely. These farming categories were enumerated at different times of the census year in order to capture the data as the events happened. The census data collection operation took about six months for Meher seasons and 2 months for Belg season to cover the rural private holdings, about 10 days to cover the urban private holdings and about one month to cover the commercial farms.

In order to improve the coverage, there has been extensive census publicity in the census operation exercise. This helped to sensitize and gain the cooperation of the respondents during data collection. In these efforts, adhoc census committees have been established and replicated to the lowest level of administration that is Farmers Associations and this helped the smooth conduct of the census and raising public awareness to achieve the intended coverage.

2. CENSUS METHODOLOGY

2.1 Scope and Coverage

The 2001/02 (1994 E.C.) Ethiopian Agricultural Sample Enumeration (EASE) was designed to cover the rural and urban parts of all weredas in the country on a large-scale sample basis. This coverage encompasses 460 weredas in 58 administrative zones of the country excluding the pastoralist areas of the Afar and Somali Regional States. In these weredas the originally selected primary sampling units amounted to 11,292 rural and 4,378 urban Enumeration Areas (EAs).These EAs were selected at wereda level to be covered in the EASE, in order to provide data on agriculture at these administrative levels in the country.

At the time of the census, Gambella Regional State consists of two zones; 9 weredas and 8 towns. The rural parts of region have a total of 209 EAs while the urban parts have a total of 37 EAs.

In the two zones of the region, 8 weredas were covered in the census. In these weredas, 141 rural EAs were sampled and all urban EAs numbering 21 were covered but the number of EAs which were completed and found to be acceptable for tabulation amounted to 121 in rural areas. The remaining one wereda 20 EAs (rural) were not fully or partially covered due to various reasons. With respect to ultimate sampling units (agricultural households), it was planned to cover 4,230 households in rural areas and 640 in urban areas but about 3,552 rural and 640 urban agricultural households were actually covered. Based on the results of the census, for the rural parts of the region, the coverage rate of sampled EAs was 85.8 percent and the response rate of sampled agricultural households was 84 percent. The response rate in the urban domain was about 100 percent. The coverage of sampled EAs and agricultural households by wereda are given in Appendix II.

TABLE II:1 AREA COVERAGE OF THE 2001/02 (1994 E.C.) AGRICULTURAL SAMPLE ENUMERATION IN GAMBELLA REGION

Zone	Gambella Region				EAs Covered	
	Total		Covered			
	Wereda	Town	Wereda	Town	Rural	Urban
Zone One	4	4	3	2	60	13
Zone Two	5	4	5	3	61	8
Total	9	8	8	5	121	21

2.2 Sampling Frame

The list of enumeration areas for each wereda was compiled from the 1994 Ethiopian Population and Housing Census cartographic work for Gambella Region and was used as a frame for the selection of the Primary Sampling Units (PSU). The 1994 Population and Housing Census enumeration area maps of the region for the selected sample EAs were updated, and the EA boundaries and descriptions were further clarified to reflect the current physical situation. The sampling frame used for the selection of ultimate sampling units (agricultural households) was a fresh list of households, which was prepared by the enumerator assigned in the sampled EAs using a prescribed listing instruction at the beginning of the launching of the census enumeration.

2.3 Sample Design

In order to meet the objectives and requirements of the EASE, a stratified two-stage cluster sample design was used for the selection of ultimate sampling units. Thus, in the region, each wereda was treated as stratum for which major findings of the sample census are reported. The primary sampling units are the enumeration areas and the agricultural households are the secondary (ultimate) sampling units. Finally, after the selection of the sample agricultural households, the various census forms were administered to all agricultural holders within the sampled agricultural households.

For the private peasant holdings in the rural areas a fixed number (25) of sample EAs in each wereda and 30 agricultural households in each EA were randomly selected

(determined). In urban areas, weredas with urban EAs less than or equal to 25, all the EAs were covered. For other weredas (with > 25 urban EAs), a sample size of 25 EAs was selected. In each sampled urban EA, 30 agricultural households were selected for the census. The sample size determination in each wereda and thereby in each EA was based upon the required precision level of the major estimates and the cost consideration. The pilot survey and the previous year annual agricultural sample survey results were used to determine the required sample sizes per wereda.

2.4 Sample Selection of Primary Sampling Units

Within each wereda (stratum) in the region, the selection of EAs was carried out using probability proportional to size. In this case, size being total number of agricultural households in each EA obtained from the listing exercise undertaken in the 1994 Ethiopian Population and Housing Census of the region.

2.5 Listing of Households and Selection of Agricultural Households

In each sampled enumeration area of the region, a complete and fresh listing of households was carried out by canvassing the households in the EA. After a complete listing of the households and screening of the agricultural households during the listing operation in the selected EA, the agricultural households were serially numbered. From this list, a total of 30 agricultural households were selected systematically using a random start from the pre-assigned column table of random numbers. The sampling interval for each EA was determined by dividing the total number of agricultural households by 30. For crop cutting exercise purposes (rural domain) a total of 20 agricultural households were randomly selected from the 30 sampled agricultural households. The systematic random sampling technique was employed in this case, because its application is simple and flexible, and it can easily yield a proportionate sample.

In the urban parts of the region all the 21 EA's in the five towns were covered. Then, the listing of households in each E.A. was carried-out. In the listing exercise households that are considered agricultural households were identified. Then, the agricultural households

listed in the E.A. amounted upto 30, all such households were covered in the enumeration. However, if such households exceeded 30, then 30 households were systematically selected among the listed and identified agricultural households in the E.A. and were covered in the enumeration.

Estimation procedure of parameters of interest like total, yield and ratio and their sampling errors is presented in Appendix I. Standard errors and coefficient of variations of estimates for selected variables are given as an annex at the end of the relevant chapter

3. CENSUS OPERATIONS

3.1 Organization of Field Work

The magnitude of the census operation was a challenge to the CSA to organize and mobilize human, material and financial resources. But the CSA's capacity was enhanced to cope with these limitations, especially the logistics involved in the operation by the issuance of the Agricultural Census Act and establishment of adhoc structures.

Since the census operation was too large to direct and control effectively from the Head Quarters, field organization was used as a link between the sources of data and the central office. Field organization comprised the branch statistical office in the region constituting an office in Gambella town. This office was augmented with supervisors, enumerators, other support staff, logistics and the temporary structures. The temporary structures included the establishment of census committees at the regional, zonal, wereda and establishment of this committee went down to the lowest administrative hierarchies, i.e. to the peasant association levels in order to enlist support and cooperation from the local people.

In addition to the committees, commendable cooperation and assistance were also extended by other governmental and non-governmental organizations in the region at different stages of the census.

The field organization was required for the data collection operations and for the strict control and supervision of the fieldwork. The enumerators were the responsible field staff

for data collection. They were full time enumerators hired on a contract basis. Most of them were recruited from localities in which they were assigned to undertake the data collection activities. At country level, for census undertaking in the rural parts of the region, a total of 12,398 enumerators were recruited, trained and hired for the census data collection and 1,199 of whom were held as reserve. Moreover, for undertaking the census in the urban parts of the country, a total of 4,200 enumerators were selected from those who were hired for the rural parts of the country. Of this total, the Gambella Region has share of 151 enumerators, where 14 of them were held as reserves. For undertaking the census in the urban parts of the region 37 enumerators were selected out of those who were assigned in the rural EAs. The enumerators had an educational background of grade 12 and above. During the data collection operation, the enumerators lived in their places of assignment i.e. the sample EA. During the census, each enumerator was accompanied by a guide and an assistant who are familiar with the people and well informed about the agricultural practices in the area.

The CSA permanent supervisors in the region were responsible for recruitment, selection, and training of enumerators, and census supervisors. Moreover, they were responsible for supervision of data collection, remuneration, retrieving and dispatching the completed forms to their respective Branch Statistical Offices. They were also responsible for handling administrative and other technical problems. At country level, a total of 2,240 supervisors were involved in the census. The supervisor-enumerator ratio was 1:5 and supervision was carried out on regular basis. The supervision was coordinated and monitored by professional staff of the CSA. The logistics equipment of the census included programmable calculators, field compasses, measuring tapes and kitchen balances each numbering about 14,000. Moreover, it included 273 four wheel drive vehicles and numerous other instruments. Each enumerator was provided with all the necessary logistics equipment for the data collection. In Gambella Region, a total of 36 supervisors and 137 enumerators were involved and various field equipment were given to these field staff. The equipment used include, 4 field vehicles, 163 programmable calculators,143 field compasses,143 measuring tapes,143 kitchen balances, … etc.

3.2 Training

The success of a census operation and data quality depend on the type of training given to the enumerators and supervisors. The training helps the enumerators and supervisors secure a common understanding of the tasks to be performed and the standard procedures to be followed in census undertaking. Good data quality is assured when the training meets its objectives and the enumerators and supervisors show a sense of responsibility and enthusiasm in the exercise of the census operation.

In view of the above point, the CSA organized a two stage training programme, that is, training of trainers followed by training of the field staff. The first stage training was given at the CSA Head Quarters in Addis Ababa, to the trainers consisting of professional staff from the CSA Head Quarters and the CSA Branch Statistical Offices and other relevant federal, regional and zonal government organizations and senior CSA supervisors. The training that lasted for 30 days, included classroom sessions, field practices and demonstrations 550 trainers took part in the training.

The first stage of training was then followed by the second stage training, which took place in 47 training centers located in different zones and the training exercises for the region was held in Gamella Town. Extensive training was given to the field staff. The instructions in the training focused more on the procedures and techniques of data collection and the responsibility shouldered both by the enumerators and the supervisors. The instructions, details of techniques and procedures of enumeration were covered in the manual. The manual served as an instruction text and a reference guide. The rigorous theoretical training was emphasized by a series of field practice and demonstrations. After about 50 days of training and field practice, a regorous examination prepared at the census headquarters, in Addis Ababa, was given to the enumerators and supervisors at each training center. Based on the examination results only those enumerators who passed the exam were hired and assigned to their enumeration areas.

3.3 Method of Enumeration

In Ethiopia, particularly in this region, where a significant number of the farming population live in remote and inaccessible areas, data collection is time consuming and cumbersome. The problem is further aggravated by the large number of peasant holding operators, their geographical spread, high level of illiteracy among the operators and scattered land holdings. In such a situation where the agricultural statistics system has not been fully developed, besides the above problems, the appropriate enumeration method is house to house interviewing of holders and objective measurement of their holdings and crop yields.

Accordingly, most of the information on crop area and yield was elicited from the holders through interview and the remaining information was obtained by physically measuring the data items of interest. This was done by enumerators who identified the selected holders, interviewed them, measured all their crop fields using measuring tapes, field compasses, and scientific calculators. Moreover, they harvested and weighed the yields obtained using kitchen balances from plots of randomly selected crop fields.

As in many countries, a phased approach to the census was also used in Ethiopia in order to make the workload of manageable size and capture the data as the events unfolded. The first phase of the census was collection of data on demographic and economic characteristics of the rural peasant household; the second one was farm management practices of these rural peasant households using an interview method for both seasons. Data on crop area and yield of temporary and permanent crops was collected in the third phase of the census by visiting the farm operators and physically measuring the crop fields since the farmers are not familiar with standard units.

All crop fields of the randomly selected holders in each enumeration area were measured using the FAO recommended method. That is, first by identifying the boundaries of the fields, determining their shape which was mostly irregular and taking compass bearings of each side with respect to the north. This is followed by measuring the length of each side of the field and using a programmable calculator to arrive at both the area of the field and the

closure error. The objective of arriving at the closure error is to find out how well the field was measured.

The responses to the interview and results of the measurement were recorded on a structured questionnaire. The interview method helped on the spot clarification of objectives, concepts and form of information sought from the respondents during the interview.

Since crop production is a function of area and yield, yield measurement was done using the crop-cutting method. The method involved crop-cutting from small subplots of rectangular shape of different sizes randomly placed in the selected crop field for each crop type and subsequent threshing, drying and weighing and recording the weight of the harvest. The crop cutting was performed for a sub-sample of 20 out of the 30 households selected in each enumeration area. A 4x4 meter plot was randomly demarcated for cereals, pulses, and oil seeds and one square meter or 1 meter x 2 rows plot was designated for vegetables and root crops for the crop-cutting exercise.

The yields harvested from the plots were immediately weighed (green weight) and /or weighed again after two weeks of drying to conform to the normal holder harvesting and drying practices. The green and dry weights were recorded on the appropriate form.

Data collection activity on livestock, poultry and beehives in the rural areas; all agricultural data in urban areas; commercial farms, and farm implements including miscellaneous items were the fourth, the fifth, the sixth and the seventh phases of the census, respectively, where subjective approach was applied for all these phases. However, the Belg season area, production and farm management practices data, which was the eighth phase of the census, involves both objective and subjective methods, i.e., fields under temporary crops were objectively measured while the production and farm management practices data were collected by interviewing the sample agricultural holders.

3.4 Census Forms And Field Equipment

3.4.1 Census Forms

Forms and equipment are instrumental in gathering information from various sources. The census forms are the vehicle and basic document for collecting the desired data. These include general-purpose forms covering farm management practices, demographic and economic characteristics, area, production of both temporary and permanent crops; livestock, poultry and beehives, ...etc. These forms are formulated for recording data generated through interview as well as objective measurements.

Although the planning, organization and execution of the census were the responsibilities that rested within the CSA, development of the census forms was a tedious task that involved the formation of a working group composed of members of government and non-government organizations who are major users of agricultural data. Members of the working group were given the opportunity to identify their data requirements, define the needs of others and determine the specific questions that the forms should contain. The working group included the staff of the organizations that are involved in agricultural planning, collection of agricultural statistics and the use of data within the agricultural sector.

The working group designed different forms for the various data items on crop area, production, and other variables of interest to meet the needs of current data users and also considered the future expectations. Attempt was made to make the content of the forms of acceptable length by distributing the variables to be collected in the different census forms. As can be observed in the census questionnaires presented in Appendix III, the rural census questionnaires/forms include:-

- The listing forms 94/0 and 94/1 that are used to record all households in the enumeration area, identify the agricultural households and select the units to be covered by the census.

- Form 94/2 is developed to list all the members of the sampled agricultural households and record the demographic and economic characteristics of each of the members.

- Forms 94/3A, 94/3B, 94/3C and 94/3D *[1] are prepared to enumerate crop data through interview and objective measurement.

- Form 94/5 is designed to record crop area data via the physical or objective measurement of crop fields.

- From 94/6 is used to list all the fields under crop and select a crop field for each type of crop randomly for crop cutting exercise.

- Forms 94/7A, 94/7B, and 94/7C are developed for recording yield data on cereals, oil seeds, pulses, vegetables root crops and permanent crops by weighing their yields obtained from sub-plots and/or trees selected for crop-cuttings.

- Form 94/8 is prepared to enumerate livestock, poultry and beehives data by type, age, sex and purpose including products through interview (subjective approach).

- Forms 94/9, 94/10 and 94/11 are used to collect data on crop and livestock product usage; miscellaneous items and farm tools, implements, draught animals and storage facilities, in that order, by interviewing the sample holders

- The last but not least forms are the Belg season questionnaires identified as 94/12A and 94/12B that are used to record data on farm management practices of the season subjectively while 94/12C is for recording Belg season crop area through objective measurement and volume of production through interview approach.

On the other hand, the census questionnaires/forms used in the urban areas include:-

* Form 94/4 was the questionnaire used for collecting data on crop production forecast for 2001/02 and the data collected using this form was published in December 2001

- Form U-94/1 which used to record all households in the EA, identify the agricultural households and select the units to be covered by the census.

- Form U-94/2 is developed to list all the members of the sampled agricultural household and record the demographic and economic characteristics of each of the members.

- From U-94/3 is prepared to enumerate crop data through interview method.

- Form U-94/4 is prepared to enumerate livestock, poultry and beehives data by type, sex, age and purpose including products through interview (subjective approach).

- Form U-94/5 is used to collect data on crop and livestock usage.

The clarity of the forms was reinforced by the enumerators' as well as the supervisors' instruction manuals that dealt with an extensive elaboration on data collection with regard to the variables in the various forms.

3.4.2 Field Equipment

A census of agriculture involves the coverage of a large number of variables. Moreover, most of the data (variables) needed are of quantitative nature. But, as in most developing countries where illiteracy is high, in Ethiopia and thereby in the region, holders neither keep the records of the size of their holdings' and amount of their crop production, nor do they know standard units to measure the size of land they operate and volume of crop they produce. Under such circumstances, collecting data only through an interview has many limitations and it is not easy for an enumerator to obtain relatively accurate information on the volume of production and area under crops.

In order to overcome these shortcomings in the census, quantitave data on area under crop and yield of crops have been collected through objective measurements from designated plots of crop field. Fields under crops were measured by compass traversing. That is, by measuring the lengths of the sides of each crop field and taking compass bearings.

Measuring tapes each 20-50 meters, compasses with a half degree precision, metal pegs and programmable calculators for computing the area were used. Besides the above equipment, balance scales and bags made of cloth were used for yield measurements and drying. Area and yield measurements were the most cumbersome and time consuming aspects of the census as the enumerators had to visit all the fragmented and scattered crop fields of the holders.

3.5 Quality Control in Data Collection

The quality of official agricultural statistics should be relatively high in order to provide maximum benefit to users. The CSA, as a producer of statistics, has been concerned about the quality of the data right from the conception of the agricultural census. It has made every endeavor to maintain the data quality by lending more attention to those aspects of the census that affect the quality of the data.

Nearly all census activities starting from the designing of the questionnaires to data processing have significant impact on the quality of data. Efforts have been put into each activity of the census to assure data quality. Forms were designed sufficiently in advance of the commencement of the census enumeration in the field in order to have ample time for pre-testing, under-taking the pilot census and providing training to the enumerators. The forms were pre-tested in different parts of the country for about three times in addition to their application in the pilot census. Concepts and definitions used in the forms were expounded in the instruction manual. Attempts were made to formulate the questions with clarity and logical order. Questions about different subjects were written on different forms to avoid the mix of issues and restrict the length of the forms.

An enumerators' instruction manual was prepared and used as a training and reference guide to help the enumerators in understanding clearly all the details and procedures followed in the census and answer questions raised during the interviews. It contained questions on the forms with explanations, concepts, definitions, techniques of interviewing, duties and obligations of enumerators. A separate instruction manual was also prepared for supervisors in a similar fashion to all intents and purposes of supervision.

Training and supervision are also factors that affect data quality. The standard of training given to enumerators and supervisors is well reflected in the census results. With this in mind, the CSA offered a rigorous and thorough training to the enumerators and supervisors. Ample time has been allotted to it to help the trainees grasp the theoretical and practical aspects of data collection. The training sessions were repeatedly supplemented by field practice and demonstrations to reinforce the trainees understanding of the course. A written examination was given to all the trainees to screen and assign the best ones for the census. The supervisors have had a separate training in supervision in which the responsibilities of supervisors, field supervision, checking and editing completed forms and preparations of progress reports were reiterated. The supervisors reviewed the enumerators' work, re-interviewed samples of holders and re-measured samples of fields as part of supervision to verify the enumerators' work.

Data quality is also contingent on the cooperation and willingness of the holders to provide the desired information. In order to seek the cooperation of the holders (respondents) promotional efforts have been made using the electronic and print media. Thus, regarding the census publicity, poems, dramas and other programs were presented on the country's TV, Radio and the Press. The CSA prepared, customized and distributed census materials such as brochures, fact sheets, posters, caps with census emblem, calendars and other items to relevant institutions and government officials. Moreover, with respect to the progress of the census operations, CSA gave a number of press releases to foster public support and cooperation. Branch offices and supervisors worked with local officials and adhoc committees to obtain written and verbal support of the census operations in their speeches and public appearances.

3.5.1 Concepts and Definitions

Information on all items of agriculture is not useful until the items are distinctly defined and understood. The procedure of stating data items and related terms is a prerequisite for making standards and definitions for collection and compilation of agricultural data. The intent of using standard concepts and definitions is not only to provide quality data but also

to ensure that the right items are enumerated and measured accurately to reflect the agricultural situation.

Standard concepts and definitions used in a census setup provide clear linkages between various tables of the census and previous surveys and maintain consistent enumeration and measurement of variables of interest. To this end, the CSA has put a lot of efforts into communicating concepts and definitions to the census field staff through training and instruction manuals. The concepts and definitions used in the census were made to conform to the FAO standard with a slight adaptation of a few of them to suit the agricultural situation in Ethiopia. The concepts and definitions used in the census included the following: -

Enumeration Area (EA): an enumeration area in the rural parts of the country is a locality that is in most of the cases less than and only in some cases equal to a farmers' association in geographical area and usually consists of 150-200 households.

Household: a household may be either:

a) a one person household, that is a person who makes provisions for his own living without combining with any other person to form part of a multi-person household or

b) a multi-person household, that is, a group of two or more persons who live together and make common provisions for food and other essentials of living. The persons in the group may pool their incomes and have a common budget to a greater or lesser extent. They may be related or unrelated persons, or a combination of both. These persons are taken as members of the household.

Agriculture: the growing of crops and/or raising of animals for own consumption and/or sale.

Agricultural Household: a household is considered an agricultural household when at least one member of the household is engaged in growing crops and/or raising livestock in private or in combination with others.

Holding: a holding is all the land and/or livestock kept, which is used wholly or partly for agricultural production and is operated as one legal entity by one person alone, or with others without regard to management, organization, size or location.

Holder: a holder is a person who exercises management control over the operation of the agricultural holding and makes the major decision regarding the utilization of the available resources. He/she has primary technical and economic responsibility for the holding. He/she may operate the holding directly as an owner or a manager. Under conditions of traditional agricultural holding the holder may be regarded as the person, who with or without the help of others, operates land and/or raises livestock in his/her own right, i.e. the person who decides on which, where, when, and how to grow crops or raise livestock or both and has the right to determine the utilization of the products.

Parcel: a parcel of holding is any piece of land entirely surrounded by land and/or water and/or road and/or forest, . . .etc which is not part of the holding. It may consist of one or more cadastral units, plots or fields adjacent to each other.

Field: a field is defined as any plot of land which is a parcel or part of a parcel under the same or mixed crops or any other form of private holding.

Crop: includes cereals, pulses, oilseeds, vegetables, root crops, fruits, coffee, enset, chat, hops, sugar cane, cotton, tobacco, . . . etc produced for food, making drinks, stimulation and making fabrics or clothings.

Crop production: the processes of growing and harvesting of the above crops for own consumption and/or sale.

Temporary Crops/Annual: Annual temporary crops are crops which are grown in less than a year's time, sometimes only a few months with an objective to sow or replant again for additional production following the current harvest. Continuously grown crops planted in rotation are also considered as temporary crops since each is harvested and destroyed by ploughing in preparation for each successive crop.

Permanent Crops: Crops which are grown and occupy land for a long period of time, not requiring replanting for several years after each harvest, are considered as permanent crops. All fruit trees (i.e., oranges, mandarin, banana, ...etc.) and trees for beverages (i.e., coffee, tea, Gesho, ... etc.) are considered permanent crops but meadows and pastures are excluded.

Meher (main) Season Crop: any crop harvested between Meskerem (September) and Yekatit (February) is considered as Meher season crop.

Belg Season Crop: Any crop harvested during the months of March (Megabit) and August (Nehase) is considered to be Belg season crop.

Fallow Land: land which has been or intended to be kept at rest for at least one agricultural year and a maximum idleness of less them five years is considered fallow land.

Grazing Land: Land used for growing herbaceous forage crops, either through cultivation or naturally is considered to be grazing land.

Wood Land: All tracts of timber, natural or planted as part of the holding, which has a value as wood, timber, other wood products and/or used for protection. Forest land used for recreational purposes would not be included as Wood land.

Other Land Uses: Land occupied by the holders' houses and/or buildings, parking areas, gardens, barn, wells and ponds would be included as other land uses.

Irrigated Area: refers to the area of land purposely and actually provided with water, other than by rain, for improving the production of crops. The uncontrolled flooding of land by the over flow of rivers or streams is not categorized as irrigation practice although sometimes farmers use this incidence for production.

Improved Seed: is defined as crop variety which gives significantly higher yield, better quality and/or better benefit compared to traditional varieties of seeds, and usually produced by the Ethiopian Seed Enterprise (ESE) in Ethiopia.

Fertilizer: refers to anything added to the soil intended to increase the amount of plant nutrients available for crop growth. Usually, fertilizers are divided into two parts, natural and commercial. Examples of natural fertilizers are farmyard manure, wood ashes,...etc., while commercial fertilizers are DAP (Di- Ammonium Phosphate), UREA (Ammonium Nitrate), ...etc.

Pesticides: pesticides are chemicals useful for mitigation, control or elimination of pests which are troublesome or harmful to crops. Insecticides, herbicides and fungicides are all considered as pesticides.

Draught Animal: Refers to animals that are engaged in activities such as ploughing, threshing, ...etc

Dairy Cow: Refers to any type of cow used to give milk previously and/or provide milk currently or have never given milk before and pregnant now. Heifers are not included in this category.

Milking Cow: Refers to cows actually milked during the reference period, i.e. February 10, 2001 to February 9, 2002.

Laying Hens: Refers to all hens and pullets of all types which have laid eggs during the reference period, i.e., Feb 10, 2001 to Feb 9,2002.

Extension Package Programs: Are outreach programs operating in rural areas for private holdings aiming to transfer modern agricultural technologies to increase crop and livestock productivity.

4. DATA PROCESSING

4.1 Editing, Coding and Verification

In the 2001/2002 Ethiopian Agricultural Sample Enumeration (EASE), the filled-in forms that were retrieved from 47 Branch Statistical Offices were primarily received and systematically registered at the documentation unit of the CSA head quarters in Addis Ababa. Before launching the actual editing and coding activities, the Natural Resources and Agricultural Statistics Department staff gave adequate training to the 157 editors and coders. These editors and coders carried out the manual editing, coding and verification of the filled-in EASE questionnaires in two shifts.

At the outset, the editing and coding activities for the filled-in forms on area and agricultural practices took place, this was followed up by the editing and coding of the forms on the production of temporary crops (cereals, pulses, oil seeds, vegetables and root crops), livestock, farm implements, permanent crops, Belg and miscellaneous questionnaires region by region. For the filled-in forms on area and agricultural practices, verification was carried out on 100% basis for the first five weeks from the launching of the activity and then considering the quality performance of editor-coders the activity was dropped to 66% of the forms gradually. On the other hand, the verification activity has been carried out on 100% basis for the filled-in forms on production of the temporary and permanent crops, livestock, farm implements and all other completed forms.

For Gambella region, the editing, coding and verification of the filled-in forms in general took about 2.4 working days. That is, the editing, coding and verification of the filled-in forms for area, agricultural practice, the production of the temporary and permanent crops, and livestock took about 1.1 working days, while that of the filled-in forms on farm implements, demographic characteristics, Belg season and the urban forms took around 1.3 working days.

4.2 Data Entry, Cleaning and Tabulation

About 144 data encoders were assigned to undertake the data entry activity of 2001/02 EASE and it has been carried out on two-shift basis. Before the starting of the data entry operation data encoders were trained for about 5 days using computer programs developed by the Data Processing Department staff. The Programmers prepared the data entry programs using CENTRY, which is a data entry module of IMPS (Integrated Microcomputer Processing System).

The data entry exercise has been carried out using 76 personal computers (PC's). Like that of the manual editing and coding activity, the filled-in forms on area and agricultural practices were entered first and this was followed by entry of the filled-in forms on the production of temporary crops, livestock, farm implements, permanent crops, Belg and miscellaneous questionnaires region by region.

In order to ensure the quality of the data entry work, verification exercise was carried out. The entry of the filled-in forms on area and agricultural practices were verified on 100% basis. Then the verification exercise was dropped to 66% from the 6th week of the launching of the operation and was further reduced to 50% from the 10th week onwards by observing and assessing the magnitude of the percentage of errors. Later on verification process was carried out on 100% basis for the filled-in forms on the production of temporary and permanent crops, livestock, farm implements and all other completed forms. The verification activity was carried out through the process of re-entering the data.

For Gambella region, the whole data entry process of the filled-in forms on area, agricultural practice, the production of the temporary and permanent crops, and livestock took around 2.7 working days, while that of the filled-in forms on farm implements, demographic characteristics, Belg season and the urban forms took about 3.5 working days.

Data entered into the computer needs to be checked for completeness, consistency and validity. For this purpose computer edit programs were prepared by programmers using CONCOR, which is the editing module of IMPS. Using print-outs from these programs and referring to the filled-in census forms, corrections were made by nine trained manual data

cleaning technicians. Moreover, nine other data-cleaning computer operators were involved in making the actual corrections of the data on the computer.

Additionally, an intermediate set of instructions or programs were made available and applied on the data to prepare information suitable for tabulation. These programs were prepared using CSPro and IMPS softwares. Like IMPS Software, CSPro is used as a tool for entering, editing and tabulating data. CSA used the CSPro software for data editing and calculation of CVs.

Data made ready for tabulation through the process of cleaning and intermediate programs was finally used to generate the required tables. This was done using tabulation programs developed by the senior programmers of the Data Processing Department. The CENTS software, a tabulation component of IMPS, was used in producing the 2001/02 EASE results.

5. MEASURES OF PRECISION

These are measures that indicate the variable error that may be expected in the estimates derived from the sample. The common measures are variances, standard errors and coefficients of variation (CV). Out of these measures, the results of standard errors and coefficients of variation of estimates for selected variables are presented as an annex at the end of each chapter.

For comparing the variability of different crop estimates or of the same crop estimates in different reporting domains, the coefficient of variation (the standard deviation expressed as a percentage of the estimate), should be used since it is a unit-less measure.

In general, estimates with CV less than 30% are considered as reliable estimates (assuming no bias). Estimates between the ranges of 30% to 50% CV's are considered less reliable and users are advised to use them cautiously. This is due to the fact that the higher the CV the more unreliable the estimate will be. Estimates with CV greater than 50% are not shown or were suppressed, and instead they are marked with asterisk (*). Because, these estimates (with CV > 50%) are not reliable to use them for any demand.

CHAPTER III

SOCIO-ECONOMIC CHARACTERISTICS OF POPULATION IN THE AGRICULTURAL HOUSEHOLDS

1. INTRODUCTION

Population as a producer and consumer is closely related with agriculture. On the one hand, population affects production in general and agricultural outputs in particular by furnishing the required labour. On the other hand, the size of a population and its anticipated growth is the main factor determining food consumption requirements. Regarding the balance between population and consumption, if more people are to be fed than the food or services produced, saving and capital investments will be negatively affected. Moreover, population growth also negatively influences agriculture by putting pressure on the environment, such as water, fertility of land . . . etc. Population size further influence productivity mainly through the diversification and specialization of the economy, the size of the market, and the importance of foreign trade.

Not only the size, but also the socio-economic characteristics of the population of the agricultural households are important to the agricultural production. Study of the nature of the agricultural sector of á country will not be complete without proper understanding of the socio-economic characteristics of the population engaged in it. The population statistics of the agricultural households can be used to describe the characteristics and distribution of the population in space, its density and degree of concentration, the fluctuation in its rate of growth and the movement from one area to another. Data on population and agriculture will also help in finding out what percentage of resources will be needed at a particular time for the meeting of basic needs of the people and what amount of socially useful and productive labour is available in the country, regardless of whether labour or capital intensive techniques will suit the nation's economy.

Generally, an analysis of statistical data on population residing in agricultural households is important to assess the size, structure and characteristics of the human resources involved in and supported by the sector. Such kind of information will provide the human background

for planners and policy makers in their attempt to formulate policies that helps improve the sector's output as well as the living conditions of the rural population.

Cognizant of this fact, the 2001/2002 Ethiopian Agricultural Sample Enumeration has collected basic social and economic characteristics of the population in agricultural households in October 2001. This chapter assesses the resulting data related to the size, the structure and distribution of the population in agricultural households with some selected variables. These variables include size and age-sex structure, household size, relationship to the head of the household, marital status, literacy, educational level, working status, reason for not working, type of occupation, and employment status. Moreover, this chapter presents statistical tables that show the results at zonal and wereda levels. In the Annex to this chapter are also given tables showing Estimates, Standard Errors (S.E.) and Coefficient of Variations (C.V.) for some relevant variables.

2. SIZE AND AGE-SEX STRUCTURE OF THE POPULATION IN AGRICULTURAL HOUSEHOLDS

In this section, the size and age-sex composition of the population in agricultural households of Gambella Region will be assessed. The population in agricultural households comprises of all persons residing in households with at least one agricultural holder, where a holder is defined as a person who exercises management and control over the operation of the agricultural holding such as land and livestock and makes the major decision regarding the utilization of the available resources (detailed explanation of holder and holdings are provided in Chapter II of this report in the section that deals with concepts and definitions). Whenever is appropriate the assessment will be done separately for non-holders, holders and type of holding.

2.1. Size of the Population in Agricultural Households

Summary Table III.1 presents the estimated population size of the agricultural households in Gambella Region classified by sex, place of residence and holding status. According to the result of this sample enumeration, the population in agricultural households of the region is estimated to be 153,181. Of the total the population in agricultural households, 139,919 are

139,919 are residing in rural areas and the remaining 13,261, that is, only 8.7 percent of the population in agricultural households are residing in urban areas.

The enumeration results show that there were 35,150 agricultural holders in the region, making up 23 percent of the total population residing in agricultural households. Further breakdown of agricultural holders by type of holding is presented in Summary Table III.2. Accordingly, holders practicing crop and livestock farms constitute the largest proportion 66.1 percent of the total holders. Holders practicing crop only farms make up about 24.2 percent, while those practicing livestock only are 9.8 percent of the total holders.

The enumeration result further shows that the proportion of holders among the males to be significantly higher than their female counterparts. In both the rural and the urban areas, the proportion of the holders among the males is more than 3 times and 2 times higher than that of the females, respectively.

Regarding distribution of the population in agricultural households of zones by type of holding, the enumeration result presented in summary Table III.3 shows that crop and livestock agriculture is the dominant type of holding in both Zone 1 and Zone 2 where the proportions who holds crop and livestock are nearly the same in the two zones (65.6 percent and 66.4 percent). Crop only agriculture is more common in Zone 2 (27.4 percent), while only livestock holding is more common in Zone 2 (19.7 percent).

Summary Table III.1 Size of Population in Agricultural Households by Sex, Holding Status and Place of Residence

Place of Residence/Sex	Total Population in Agricultural Households		Holders		Members Other Than Holders	
	No.	%	No.	%	No.	%
Rural + Urban						
Both Sexes	153,181	100	35,150	22.9	118,031	77.1
Male	75,156	100	26,941	35.8	48,216	64.2
Female	78,024	100	8,209	10.5	69,815	89.5
Rural						
Both Sexes	139,919	100	32,756	23.4	107,163	76.6
Male	68,636	100	25,242	36.8	43,393	63.2
Female	71,283	100	7,513	10.5	63,770	89.5
Urban						
Both Sexes	13,261	100	2,394	18.1	10,867	81.9
Male	6,520	100	1,698	26.0	4,822	74.0
Female	6,741	100	696	10.3	6,045	89.7

Summary Table III.2 Size of Population in Agricultural Holders by Sex, Type of Holding and Place of Residence

Place of Residence/ Sex	Total Holders		Crop Only		Livestock Only		Crop and Livestock	
	No.	%	No.	%	No.	%	No.	%
Rural + Urban								
Both Sexes	35,150	100	8,489	24.2	3,432	9.8	23,229	66.1
Male	26,941	100	5,901	21.9	1,961	7.3	19,079	70.8
Female	8,209	100	2,589	31.5	1,471	17.9	4,150	50.6
Rural								
Both Sexes	32,756	100	8,109	24.8	2,649	8.1	21,997	67.2
Male	25,242	100	5,691	22.5	1,440	5.7	18,111	71.7
Female	7,513	100	2,418	32.2	1,209	16.1	3,886	51.7
Urban								
Both Sexes	2,394	100	380	15.9	783	32.7	1,231	51.4
Male	1,698	100	210	12.4	520	30.6	968	57.0
Female	696	100	170	24.4	263	37.8	263	37.8

Summary Table III.3 Distribution of Population in Agricultural Households by Zone, Place of Residence

Zones	Place of Residence	Total Population in Agricultural Households	Total Holders		Holders by Type of Holding		
			No.	%	Crop Only	Livestock Only	Crop and Livestock
All Zones	Rural + Urban	153,181	35,150	100	24.2	9.8	66.1
	Rural	139,919	32,756	100	24.8	8.1	67.2
	Urban	13,261	2,394	100	15.9	32.7	51.4
Zone 1	Rural + Urban	68,114	14,652	100	19.7	14.7	65.6
	Rural	59,144	13,120	100	20.9	11.9	67.2
	Urban	8,970	1,532	100	9.5	38.6	51.8
Zone 2	Rural + Urban	85,066	20,498	100	27.4	6.2	66.4
	Rural	80,775	19,636	100	27.4	5.5	67.1
	Urban	4,291	863	100	27.2	22.1	50.6

2.2 Age-Sex Structure of the Population in Agricultural Households

Age and sex are among the important factors that determine the status of individuals in their community in general and their involvement in production process in particular. The age-sex composition of a population of an area is the product of past fertility, mortality and migration trends. Age and sex structure are important for the functioning of the economy including the agricultural economy, since these two attributes constitute the main criteria for determining entrance into the work force and the division of labour. It is also important

for several purposes. Among others, age-sex data is useful for in-depth analysis of socio-economic characteristics of a given population. Also, age-sex data is vital for making component and sectorial projections.

The percentage distribution of the population in agricultural households by sex, age group, place of residence, and holding status and type is presented in Summary Table III.4. Also, the single year age and five years age distribution of the population in agricultural households are presented in Figure III.1 and Figure III.2, respectively. The population in agricultural households in both rural and urban areas is characterized by young age. As the data in the table shows, 50.2 percent and 52.5 percent of rural and urban population in agricultural households are under 18 years of age. Those persons aged 60 years and above constitute only small proportion (3.2 percent in rural and 2.5 percent in urban areas). According to the age pyramid the age pattern of the region's population in agricultural households appears to be fluctuating (see Figures III.1 to III.3). This can be observed in these figures, particularly from the distortion at age group 30-39 years. This undulation in the age pattern could be due to the influx of people for resettlement that was held some 15 years ago. As expected, the majority of holders are concentrated in the age groups 30 - 39 and 40-49 years (See Figure III.3).

The majority of holders of crop only farms and crop and livestock farms concentrated in the age group 30-49 years, with a peak at age group 30-39 years. Young population under age 18 years was found to have some involvement in livestock agriculture. Among those practicing live stock agriculture, about 12.2 percent were under age 18 years. This phenomenon of a significant proportion of the young being livestock only holders is particularly true in rural areas.

The sex distribution of a population can be studied using indices called "sex ratios" that are calculated as a ratio of males per 100 females. When the ratio is over 100, the males are in excess and when less than 100 the females predominate. The sex ratio of the population in agricultural households by holding status and type of holding are calculated and presented at

Figure III.1 Distribution of Population of Agricultural households by Sex and age in Single year (Urban + Rural)

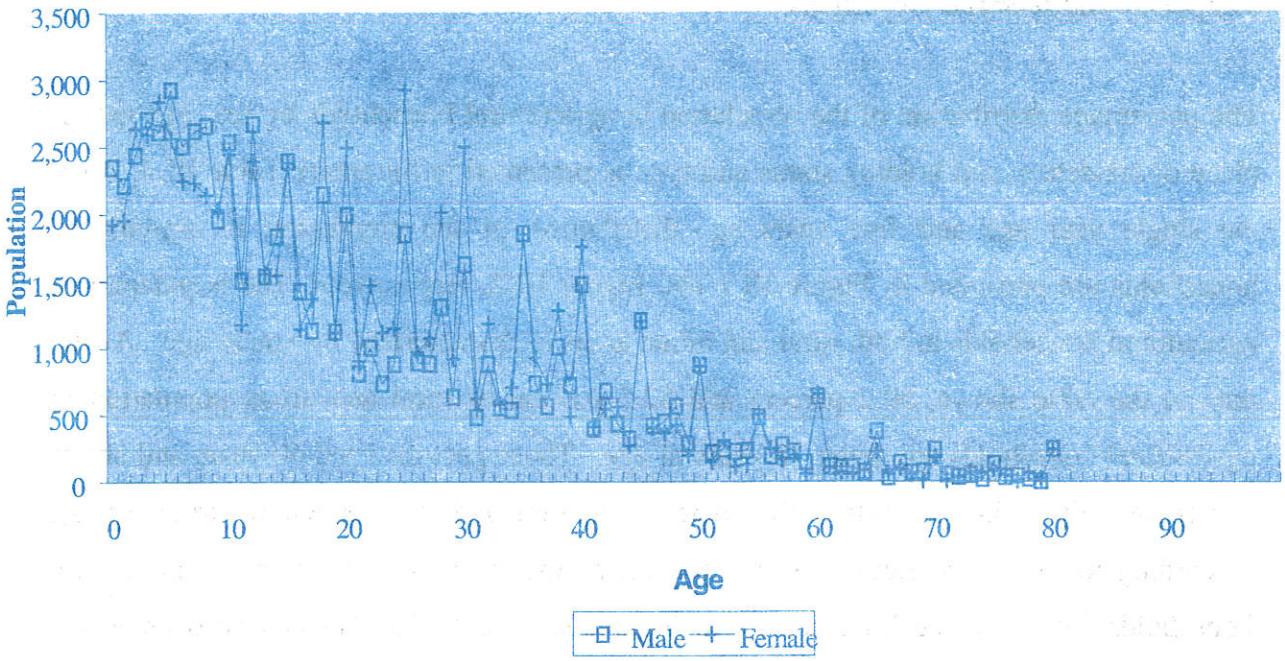


Figure III.2 Age-Sex Distribution of Population in Agricultural Households (urban + rural)

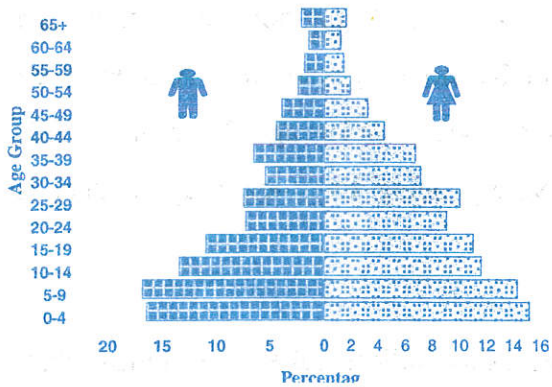
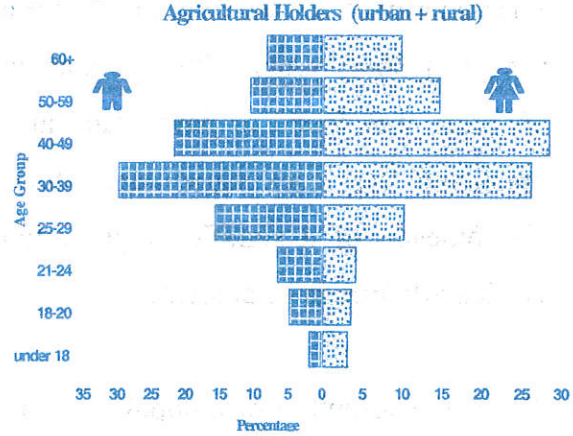


Figure III.3 Age-Sex Distribution of Population of Agricultural Holders (urban + rural)



Summary Table III.4 Distribution of Population in Agricultural Households by Sex, Age Group, Holding Status, Type of Holding and Place of Residence

Age Group And Sex	Rural + Urban					Rural					Urban				
	Total Population in Agricult-ural HHs	Total Holders	Holders by Type of Holding			Total Population in Agricult-ural HHs	Total Holders	Holders by Type of Holding			Total Population in Agricult-ural HHs	Total Holders	Holders by Type of Holding		
			Crop Only	Livestock Only	Crop and Livestock			Crop Only	Livestock Only	Crop and Livestock			Crop Only	Livestock Only	Crop and Livestock
Both Sexes															
All Ages	153,181	35,150	8,489	3,432	23,229	139,919	32,756	8,109	2,649	21,997	13,261	2,394	380	783	1,231
	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Under 18	50.4	2.3	2.6	12.2	0.7	50.2	2.4	2.7	15.4	0.7	52.5	*	-	*	-
18 - 20	7.5	4.5	6.4	6.5	3.5	7.4	4.6	6.5	7.5	3.6	8.5	2.7	4.5	*	1.7
21 - 24	5.3	6.0	8.0	8.0	5.0	5.2	6.2	8.3	9.4	5.1	5.6	2.8	*	3.6	2.5
25 - 29	8.8	14.5	13.6	13.2	15.0	8.8	14.5	13.8	11.9	15.1	8.5	14.2	8.2	17.6	13.9
30 - 39	12.9	29.1	25.5	29.5	30.4	13.0	28.8	25.3	28.5	30.1	12.5	33.8	28.7	33.1	35.8
40 - 49	8.1	23.4	20.5	20.3	25.0	8.2	23.2	20.0	19.5	24.9	6.8	26	30	22.9	26.7
50 - 59	3.8	11.6	13.2	5.0	12.0	3.9	11.7	13.1	4.1	12.1	3.0	10.1	15.5	7.8	9.8
60+	3.2	8.6	10.3	5.3	8.4	3.2	8.5	10.3	3.8	8.4	2.5	10	11.3	10.2	9.4
Male															
All Ages	75,156	26,941	5,901	1,961	19,079	68,636	25,242	5,691	1,440	18,111	6,520	1,698	210	520	968
	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Under 18	53.2	1.9	3.1	11.5	0.6	53.1	2.0	3.2	15.1	0.6	54.8	*	-	*	-
18 - 20	7.0	4.8	7.7	5.8	3.8	6.8	4.9	7.8	6.5	3.9	8.9	2.6	*	*	*
21 - 24	4.6	6.6	9.9	6.6	5.6	4.5	6.8	10.1	7.6	5.7	5.3	2.9	*	3.7	2.5
25 - 29	7.4	15.8	16.3	12.4	16.0	7.5	15.9	16.5	10.3	16.1	6.3	15.1	10.5	18.5	14.3
30 - 39	11.9	30.0	24.5	31.0	31.7	11.9	29.7	24.2	29.0	31.4	11.7	35.7	31	36.7	36.3
40 - 49	8.3	21.9	16.5	23.2	23.4	8.4	21.7	16.0	23.1	23.4	7.3	25.1	31.4	23.5	24.7
50 - 59	4.1	10.7	11.9	5.2	10.9	4.2	10.7	11.9	4.0	10.9	3.2	10.2	11.9	8.5	10.8
60+	3.5	8.3	10.1	4.4	8.1	3.6	8.3	10.3	4.6	8.0	2.5	7.8	*	3.8	10.4
Female															
All Ages	78,024	8,209	2,589	1,471	4,150	71,283	7,513	2,418	1,209	3,886	6,741	696	170	263	263
	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Under 18	47.6	3.2	*	13.3	0.7	47.4	3.4	*	15.6	0.7	50.3	*	-	*	-
18 - 20	8.1	3.6	3.5	7.5	2.3	8.1	3.7	3.5	8.8	2.2	8.1	2.9	*	1.5	*
21 - 24	5.9	4.2	3.7	10.0	2.4	6.0	4.3	3.9	11.4	2.3	5.9	2.3	-	3.4	*
25 - 29	10.1	10.2	7.3	14.2	10.6	10.1	10.1	7.5	13.8	10.5	10.6	12.1	*	16	12.9
30 - 39	13.9	26.1	27.7	27.5	24.6	14.0	25.8	27.8	27.9	23.9	13.2	29	25.9	25.9	34.2
40 - 49	7.9	28.4	29.4	16.4	32.0	8.0	28.4	29.5	15.1	31.9	6.4	28.2	28.2	22.1	34.2
50 - 59	3.5	14.6	16.1	4.8	17.1	3.6	15.1	15.8	4.4	17.9	2.9	9.5	19.4	6.5	6.1
60+	2.9	9.8	10.8	6.5	10.3	3.0	9.3	10.3	3.0	10.6	2.5	15.4	18.2	22.8	5.7
Sex Ratio	96.3	328.2	227.9	133.3	459.7	96.3	336	235.4	119.1	466.1	96.7	244	123.5	197.7	368.1

the bottom of Summary Table III.4. In a population where there is no sex selective migration, the over all sex ratio is expected to be around 100. In addition, sex ratio for the population in agricultural households will be affected by movements of people between agricultural and non-agricultural households within the region itself. For the population in agricultural households of Gambella Region the overall sex ratio is found to be 96.3, showing slight excess of females over males. The excess of females over males for population in agricultural households was also observed in both rural and urban areas.

The table further shows a sex ratio of 328.2 for agricultural holders. That is, for every 100 female holders there are 328 male holders. The excess of male holders over female holders is extremely large among those practicing both crop and livestock holding. The pattern observed at regional level also holds true in rural areas with rural livestock holders showing relatively a little bit higher sex ratios (119). In urban areas, the excess of females over males is less pronounced among crop only holders than those practicing livestock only.

2.3 Household Size

Size of household refers to the entire number of persons- related or unrelated who comprise one private household. In this survey a household is defined as either single person who makes provisions for his own or a group of two or more persons who live together and make common provisions for food and other essentials of living.

Summary Table III.5 presents the distribution of the agricultural households by number of persons per household and average household size for male and female-headed households. According to the sample enumeration, on September 2001 there were 32,088 agricultural households in Gambella Region. These households altogether accommodates 153,181 persons, resulting in average household size of 4.8 persons per agricultural household. Regarding the distribution of persons per household, the data in the table shows that, the majority of households have 4-5 persons (34.4 percent) closely followed by those with 6-9 persons (29 percent) and 2-3 persons (26.5 percent). Single person households and households with 10 and more persons comprise about 6 percent and 4 percent, respectively.

Average household size for agricultural households in urban areas is higher than that of rural areas. The enumeration results further show that the size of households differs by the sex of head. In both rural and urban areas, male-headed agricultural households appear to have larger household size, with the difference more pronounced in rural areas. As can be observed in Summary Table III.5, on average, male-headed agricultural households in both rural and urban areas of the region have about one more persons. In rural areas, women living alone occupy 11.4 percent of female-headed agricultural households. The data presented in Summary Table III.6 shows that average household size in Zone 1 is relatively higher than that of Zone 2. The same pattern also holds true in rural areas.

Summary Table III.5 Distribution of Agricultural Households by Household Size, Sex of Head and Place of Residence

Rural/ Urban and Sex of Head	Total Population in Agricultural HHs	Total Agricultural Households		Household Sizes					Average Household Size
		Nº	%	One Member HHs	2-3 Members HHs	4-5 Members HHs	6-9 Members HHs	10 & above Members HHs	
Rural + Urban									
Total	153,181	32,088	100	5.8	26.5	34.4	29.0	4.2	4.8
Male Head	127,109	25,578	100	4.6	24.3	34.9	31.4	4.8	5.0
Female Head	26,071	6,510	100	10.6	35.1	32.7	19.6	2.0	4.0
Rural									
Total	139,919	29,725	100	6.0	26.7	34.8	29.0	3.5	4.7
Male Head	117,012	23,876	100	4.6	24.6	35.2	31.5	4.0	4.9
Female Head	22,907	5,849	100	11.4	35.3	33.0	18.7	1.5	3.9
Urban									
Total	13,261	2,364	100	3.4	23.8	30.2	29.6	13.0	5.6
Male Head	10,097	1,702	100	3.5	20.1	30.4	30.3	15.7	5.9
Female Head	3,164	661	100	3.2	33.3	29.5	27.7	6.4	4.8

Summary Table III.6 Average Household Size by Zone, Place of Residence and Sex of Head of Households

Zones	Rural + Urban			Rural			Urban		
	Total	Male Headed	Female Headed	Total	Male Headed	Female Headed	Total	Male Headed	Female Headed
All Zones	4.8	5.0	4.0	4.7	4.9	3.9	5.6	5.9	4.8
Zone 1	5.1	5.4	4.0	5.0	5.3	3.8	5.9	6.3	5.0
Zone 2	4.5	4.7	4.0	4.5	4.6	4.0	5.0	5.2	4.5

3. SOCIO-ECONOMIC CHARACTERISTICS OF THE POPULATION IN AGRICULTURAL HOUSEHOLDS

In addition, the 2001/2002 Ethiopian Agricultural Sample Enumeration has collected some basic social and economic characteristics of the population residing in agricultural households. The information collected included relationship to the head of the household, marital status, literacy status and educational level, work status, employment status and type of occupation. In this respect, this section of the chapter presents some of the major findings of the sample census.

3.1. Relationship with the Head of Household

Relationship to the head of the household is an important measure of household formation and hence it is a pivot on which modern method of projecting households and families turns. Relationship to the head of the household is considered in this report for its influence on agricultural holding status and certain decision to be taken related to agricultural activities. In the sample census, the head of a household is any member of the household who is recognized as a head by the other members.

Summary Table III.7 presents the distribution of the population in agricultural households by sex, relationship to the head of the household, holding status and type of holdings for Gambella Region. Among both the males and the females the majority of the population in agricultural households are children of heads. Next to children of heads are the heads about (21 percent) and the spouses (16 percent). The proportion of heads among the male is substantially higher than that of the females, reflecting the fact that males in most societies assume execution of the major roles of the agricultural activities and the head is considered as the main bread winner in the household as well as the one who merely bear responsibility.

The overwhelming majority of both male and female holders (94.7 percent, and 78.9 percent, respectively) are heads of households and this dominancy of heads of households is highly pronounced in the crop and livestock, and crop only holdings. Spouses and children have substantial contribution (19.7 percent, and 16.2 percent, respectively) among livestock only holders and this phenomenon is more pronounced in the rural areas than urban areas.

Summary Table III.7 Size of Population in Agricultural Households by Sex, Relationship to the Head of Household, Holding Status and Type of Holding

Sex and Relationship to The Head	Rural + Urban					Rural					Urban				
	Total Population in Agricultural Households	Total Holders	Holders by Type of Holding			Total Population in Agricultural Households	Total Holders	Holders by Type of Holding			Total Population in Agricultural Households	Total Holders	Holders by Type of Holding		
			Crop Only	Livestock Only	Crop and Livestock			Crop Only	Livestock Only	Crop and Livestock			Crop Only	Livestock Only	Crop and Livestock
Both Sexes															
All Persons	153,181	35,150	8,489	3,432	23,229	139,919	32,756	8,109	2,649	21,997	13,261	2,394	380	783	1,231
Head	20.9	91.0	88.8	56.5	96.9	21.2	90.6	88.3	45.5	96.8	17.8	97.3	98.4	93.5	99.4
Spouse	16.3	3.1	2.7	19.7	0.8	16.5	3.2	2.8	24.7	0.8	14.1	1	-	2.8	0.1
Children	48.1	3.1	3.2	16.2	1.1	48.2	3.3	3.3	20.6	1.2	46.6	*	-	*	-
Mother/Father	1.7	0.5	1.0	2.0	*	1.8	0.5	0.9	2.5	*	1.2	*	*	-	-
Sister/Brother	4.0	1.0	2.1	1.7	0.5	3.8	1.0	2.2	2.0	0.5	5.2	*	-	*	-
Other Relatives	7.8	1.0	1.4	3.4	0.5	7.3	1.0	1.5	4.2	0.5	13.1	0.6	*	*	*
Non-Relative	1.2	0.3	0.9	*	*	1.1	0.4	0.9	*	*	2.0	*	-	*	-
Male															
All Persons	75,156	26,941	5,901	1,961	19,079	68,636	25,242	5,691	1,440	18,111	6,520	1,698	210	520	968
Head	34.0	94.7	90.6	78.2	97.7	34.8	94.5	90.3	71.9	97.6	26.1	98.3	98.6	95.8	99.6
Spouse	0.3	*	*	*	-	0.3	*	*	*	-	1.1	-	-	-	-
Children	50.7	2.8	3.7	15.2	1.2	50.9	2.9	3.8	20.0	1.3	49.3	*	-	*	-
Mother/Father	0.4	*	*	*	*	0.4	*	*	*	*	0.3	-	-	-	-
Sister/Brother	4.6	1.2	2.8	2.5	0.5	4.4	1.2	3.0	3.3	0.6	6.4	*	-	*	-
Other Relatives	8.4	0.9	1.6	2.5	0.5	7.8	0.9	1.6	3.0	0.5	14.5	0.7	*	*	*
Non-Relative	1.5	0.3	0.9	*	*	1.4	0.3	0.9	*	*	2.3	*	-	*	-
Female															
All Persons	78,024	8,209	2,589	1,471	4,150	71,283	7,513	2,418	1,209	3,886	6,741	696	170	263	263
Head	8.3	78.9	84.6	27.5	93.5	8.2	77.4	83.7	14.1	93.2	9.8	94.8	97.6	89.0	98.9
Spouse	31.7	12.9	8.2	45.3	4.3	32.2	13.8	8.8	53.3	4.5	26.7	3.3	-	8.4	0.4
Children	45.5	4.3	2.1	17.5	0.9	45.6	4.6	2.2	21.3	1.0	44.0	0.1	-	0.4	-
Mother/Father	3.1	1.9	2.9	4.1	*	3.1	2.0	2.9	5.0	*	2.2	*	*	-	-
Sister/Brother	3.3	0.3	*	*	*	3.3	0.3	*	*	*	4.0	*	-	*	-
Other Relatives	7.3	1.4	*	4.6	0.3	6.8	1.5	*	5.6	0.3	11.7	0.3	-	-	0.8
Non-Relative	0.8	0.4	*	-	*	0.7	0.5	*	-	*	1.6	-	-	-	-

3.2. Marital Status

This section presents the level and pattern of marital status of the population in the agricultural households in Gambella Region. In addition to being one of the important proximate determinants of fertility, marriage has economic and social implications. Generally, marriage is basic to family formation. In countries like Ethiopia, where the agriculture is subsistence farming, families play central role in the production processes, income maintenance, economic status ...etc.

In the census questionnaire, information was collected on the marital status of the population 10 years of age and older. The marital status was categorized into four main groups, namely never married (single), married, divorced and widowed. A person who had never been married is considered to be single, whereas married persons include couples who are living together bonded by any kind of marital engagement at the time of the census (traditional, religious or civil marriage). Separated couples are also considered to be married, unless they had dissolved their marriage agreement legally. A person who had been married but whose marriage was dissolved through divorce before the census day is categorized as divorced, and a person whose marriage was dissolved through the death of the spouse is categorized as widowed.

Summary Table III.8 presents the distribution of the population in agricultural households by marital status and broad age group. As the data in the table indicates, little above half of the population in the agricultural households in the region is in marital union at the time of the enumeration. Those who never married constitute about 36 percent while 10.7 percent have dissolved their marriage due to divorce or the death of the spouse. The data further shows that a higher proportion of the males to be in single-hood status, while the incidence of dissolution of marriage are significantly higher among the females than the males. Regarding the marital status of the agricultural holders in the region, the data in the table shows that, the majority (73 percent) were in marital union at the time of the census.

About 86 percent and 73 percent of the young (age 10-17 years) female population in agricultural households, and the holders, respectively are single, indicating early start of marriage in the region's female population, particularly among holders. Further, marriage is universal in the region as evidenced by the fact that at age 50 and over the proportion of single is only about two percent for the males and one percent for the females.

Summary Table III.8a Population Aged 10 Years and over in Agricultural Households by Sex, Age Group, Marital Status* and Holding Status in Gambella Region

Age Group and Holding Status	Total			Never Married			Married			Divorced			Widowed		
	M + F	M	F	M + F	M	F	M + F	M	F	M + F	M	F	M + F	M	F
All Population in Agricultural HHs															
All Ages	105,042	50,182	54,860	36.0	45.3	27.5	53.0	49.9	55.9	3.8	2.9	4.7	6.9	1.6	11.6
10 - 17	29,028	15,025	14,004	92.1	97.6	86.2	6.6	2.0	11.6	0.6	-	1.3	*	*	*
18 - 29	33,084	14,254	18,830	30.6	51.3	14.9	64.3	44.7	79.2	3.8	3.4	4.1	1.2	0.4	1.7
30 - 49	32,178	15,187	16,992	2.6	4.5	0.9	81.8	90.0	74.3	5.3	3.5	6.9	10.3	1.8	17.8
50+	10,751	5,716	5,035	1.1	1.5	0.7	57.9	82.5	29.9	8.3	7.5	9.2	32.7	8.6	60.0
Holders															
All Ages	35,108	26,905	8,203	8.7	9.8	5.1	73.0	84.9	34.1	5.4	3.0	13.2	12.7	2.2	47.4
10 - 17	743	487	255	90.7	100	72.9	*	-	*	-	-	-	-	-	-
18 - 29	8,788	7,313	1,475	22.1	24.4	10.8	70.4	71.1	67.1	4.9	3.9	9.7	2.4	0.4	12.3
30 - 49	18,471	13,998	4,473	1.8	2.1	1.1	79.3	94.0	33.0	5.6	2.0	16.8	13.2	1.7	49.0
50+	7,107	5,107	2,000	1.2	1.2	1.4	66.7	87.7	13.3	6.2	4.9	9.3	25.7	6.2	75.6

Summary Table III.8b Population Aged 10 Years and over in Agricultural Households by Sex, Age Group, Marital Status* and Holding Status, In Rural Areas

Age Group and Holding Status	Total			Never Married			Married			Divorced			Widowed		
	M + F	M	F	M + F	M	F	M + F	M	F	M + F	M	F	M + F	M	F
All Population in Agricultural HHs															
All Ages	96,009	45,722	50,287	35.4	44.6	27.1	53.3	50.4	56.0	4.0	3.0	4.9	6.9	1.7	11.7
10-17	26,294	13,513	12,780	91.8	97.7	85.5	6.8	1.9	12.1	0.7	-	1.5	*	*	*
18-29	30,083	12,913	17,170	30.1	50.4	14.8	64.6	45.3	79.1	3.9	3.6	4.1	1.2	0.4	1.8
30-49	29,617	13,949	15,668	2.6	4.5	0.8	81.7	89.8	74.5	5.5	3.7	7.1	10.2	1.9	17.6
50+	10,015	5,346	4,669	1.1	1.4	0.7	57.7	82.3	29.4	8.6	7.7	9.6	32.6	8.5	60.2
Holders															
All Ages	32,714	25,207	7,507	8.8	9.9	5.1	73.0	84.6	34.0	5.5	3.1	13.4	12.5	2.2	47.2
10-17	731	480	250	90.6	100	72.4	*	-	*	-	-	-	-	-	-
18-29	8,317	6,962	1,355	22.2	24.5	9.9	70.4	70.8	68.1	5.0	4.1	9.3	2.3	0.3	12.6
30-49	17,040	12,964	4,075	1.8	2.1	1.1	79.3	94.0	32.4	5.7	2.0	17.5	13.0	1.8	48.9
50+	6,626	4,800	1,827	1.1	1.1	*	67.1	87.6	13.2	6.2	5.0	9.3	25.4	6.3	75.7

Summary Table III.8c Population Aged 10 Years and over in Agricultural Households by Sex, Age Group, Marital Status* and Holding Status, In Urban Areas

Age Group and Holding Status	Total			Never Married			Married			Divorced			Widowed		
	M + F	M	F	M + F	M	F	M + F	M	F	M + F	M	F	M + F	M	F
All Population in Agricultural HHs															
All Ages	9,033	4,460	4,573	41.7	52.5	31.2	49.9	45.0	54.7	2.1	1.2	3.0	6.2	1.2	11.0
10-17	2,735	1,511	1,223	95.3	97.4	92.9	4.4	2.6	6.7	-	-	-	-	-	-
18-29	3,001	1,341	1,660	36.0	60.3	16.4	61.0	38.4	79.3	2.1	*	3.3	0.7	*	1.0
30-49	2,561	1,237	1,324	2.7	4.4	*	82.3	92.2	73.2	3.7	2.3	4.9	11.4	1.1	20.9
50+	736	370	366	1.9	*	*	61.0	84.9	36.6	3.9	*	4.4	33.2	9.2	57.4
Holders															
All Ages	2,394	1,698	696	6.6	6.9	5.7	73.2	88.9	35.2	4.5	1.9	10.6	15.6	2.1	48.6
10-17	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
18-29	471	351	120	21.7	21.7	*	70.5	75.5	55.8	3.8	-	15.0	3.2	*	8.3
30-49	1,431	1,034	398	2.1	2.4	*	78.7	94.0	38.7	4.3	2.1	10.1	15.0	1.4	50.3
50+	480	307	173	2.9	*	*	61.5	88.3	13.9	5.6	*	9.2	30.0	5.2	74.6

*Percentages of persons who do not show their Marital Status are not shown in the table.

3.3 Level of Education of the Population in Agricultural Households

Education is another important social characteristic that affects the well being of individuals or societies in general. Level of education is associated with the participation as well as the productivity of agriculture. Education improves knowledge and use of agricultural practices and applied technology in agricultural operations. Therefore, compiling and analyzing data on the educational attainment of the population in the agricultural households is essential for development planning.

The 2001/02 Agriculture Sample Enumeration of Ethiopia provides two types of data regarding education, namely, literacy status and educational attainment of persons aged 5 years or more. In the census a person is considered as literate if he/she can read and write simple sentence in any language. Educational attainment was obtained by asking individuals who can read and write concerning the highest grade competed and response were classified as non formal education and grades completed in the forma school system. Formal education /regular school/ is used to describe the educational system that provides a ladder by which individuals may progress from primary school through universities. On the other hand, the non-formal education that are entertained in this census includes those persons that were not in the formal schools such as self directed, or religious/socialy directed learning or teachings to read and write, with any of the languages.

The population in the agricultural households aged 10 years and over in Gambella Region classified by sex, literacy status and level of education, holding status and type of holding and place of residence is presented in Summary Table III. 9. The level of education in this table is classified as: primary level education which include grades 1-6, and above primary level education.

The data in the table reveals that 46.2 percent of the population in the agricultural households of Gambella Region to be literate. The literacy level among the urban dwellers (63.8 percent)

is nearly one and half times higher than that of rural areas (44.6 percent). The census result also shows that, relatively, more males than females are found to be literate in both rural and urban areas. For instance, in rural areas, 58.9 of males against 31.5 percent of females were literate.

About 3 percent and 2 percent, respectively, of the rural and the urban population aged 10 years and over in agricultural households were able to read and write through non-formal education. Those who attained primary level education make up 34.7 percent and 40.8 percent of the population in agricultural households of the rural and urban areas, respectively. On the other hand, small (only 7.3 percent) proportion of the population in the rural areas of agricultural households and a substantial proportion (21.3 percent) of the population in the urban agricultural households have attained an educational level of above primary school.

The proportion of literates among the agricultural holders is relatively lower than that of non-holders with glaring difference for females in urban areas. Also, very little variation in literacy status is observed by type of holding. Those who are only livestock holders are slightly better off in terms of level of education than those engaged in crop only and crop and livestock, probably due to a high proportion of young population among only livestock holders

With respect to the proportion of literates, population in agricultural households of Zone 2 of Gambella Region has relatively the highest level, and the advantage of Zone 2 in this regard is registered for both members other than holders and agriculture holders (see Summary Table III.10). In Zone 1, livestock holders are more literate than the other type of holdings, while those engaged in crop and livestock agriculture are more literate in Zone 2.

Summary Table III.9 Distribution of Population in Agricultural Household Aged 10 Years and Over by Sex, Literacy Status* and Educational Level, Holdings Status, Type of Holding and Place of Residence

Level of Education and Sex	Total Population in Agricultural Households	Non-Holders	All Holders	Type of Holding		
				Crop Only	Livestock Only	Crop & Livestock
Rural + Urban						
Male + Female						
Total	105,042	69,934	35,108	8,489	3,397	23,222
	100.0	100.0	100.0	100.0	100.0	100.0
Illiterate	53.8	49.9	61.5	63.8	59.2	60.9
Non-Formal	2.5	1.9	3.7	3.4	2.1	4.1
Primary	35.2	40.6	24.6	22.7	25.1	25.3
Above Primary	8.5	7.7	10.2	10.1	13.6	9.7
Male						
Total	50,182	23,276	26,905	5,901	1,925	19,079
	100.0	100.0	100.0	100.0	100.0	100.0
Illiterate	39.3	21.4	54.9	53.6	53.2	55.4
Non-Formal	3.0	1.2	4.5	4.4	3.1	4.6
Primary	43.1	60.4	28.2	28.2	24.1	28.7
Above Primary	14.6	17.0	12.4	13.8	19.6	11.3
Female						
Total	54,860	46,657	8,203	2,589	1,471	4,143
	100.0	100.0	100.0	100.0	100.0	100.0
Illiterate	67.0	64.1	83.1	87.1	66.9	86.3
Non-Formal	2.1	2.2	1.4	*	*	1.7
Primary	28.0	30.7	12.9	10.3	26.5	9.6
Above Primary	2.9	3.0	2.7		5.6	2.3
Rural						
Male + Female						
Total	96,009	63,,295	32,714	8,109	2,614	21,991
	100.0	100.0	100.0	100.0	100.0	100.0
Illiterate	55.4	51.9	62.3	64.0	64.6	61.4
Non-Formal	2.6	2.0	3.7	3.4	*	4.1
Primary	34.7	39.6	25.2	23.1	26.2	25.9
Above Primary	7.3	6.5	8.7	9.6	7.8	8.5
Male						
Total	45,722	20,515	25,207	5,691	1,405	18,111
	100.0	100.0	100.0	100.0	100.0	100.0
Illiterate	41.1	22.7	56.0	54.1	62.4	56.1
Non-Formal	3.0	1.3	4.4	4.3	*	4.6
Primary	43.1	60.7	28.9	28.4	23.9	29.4
Above Primary	12.8	15.3	10.7	13.1	11.5	9.9

Summary Table III.9 (Cont'd)

Level of Education and Sex	Total Population in Agricultural Households	Non-Holders	All Holders	Type of Holding		
				Crop Only	Livestock Only	Crop & Livestock
Female						
Total	50,287	42,780	7,507	2,418	1,209	3,880
	100.0	100.0	100.0	100.0	100.0	100.0
Illiterate	68.5	65.8	83.6	87.1	67.0	86.5
Non-Formal	2.1	2.3	1.4	*	*	1.8
Primary	27.1	29.5	13.0	10.6	28.9	9.5
Above Primary	2.3	2.4	2.1	*	3.5	2.2
Urban						
Male + Female						
Total	9,033	6,638	2,394	380	783	1,231
	100.0	100.0	100.0	100.0	100.0	100.0
Illiterate	36.2	31.3	49.6	61.1	41.1	51.5
Non-Formal	1.7	0.9	4.0	*	4.7	3.7
Primary	40.8	49.5	16.9	15.3	21.5	14.5
Above Primary	21.3	18.3	29.5	20.5	32.7	30.3
Male						
Total	4,460	2,762	1,698	210	520	968
	100.0	100.0	100.0	100.0	100.0	100.0
Illiterate	21.6	11.4	38.0	39.5	28.5	42.9
Non-Formal	2.2	-	5.1	*	6.0	4.5
Primary	43.2	58.1	19.0	22.4	24.4	15.5
Above Primary	33.0	30.1	37.8	31.9	41.3	37.2
Female						
Total	4,573	3877	696	170	263	263
	100.0	100.0	100.0	100.0	100.0	100.0
Illiterate	50.4	45.5	77.7	87.6	66.2	83.3
Non-Formal	1.2	1.2	*	-	*	*
Primary	38.5	43.3	11.6	*	15.6	11.4
Above Primary	9.9	10.0	9.3	*	15.6	4.9

Summary Table III.10 Proportion Literate among Population in Agricultural Households Aged 10 Years and Over by Holding Status, Type of Holding, Zone and Place of Residence

Zones	Total Population in Agricultural HHs	Total Holders	Type of Holding			Members Other than Holders
			Crop Only	Livestock Only	Crop and Livestock	
All Zones						
Rural + Urban	46.2	38.5	36.2	40.8	39.1	50.1
Rural	44.6	37.7	36.0	35.4	38.6	48.1
Urban	63.8	50.4	38.9	58.9	48.6	68.7
Zone 1						
Rural + Urban	41.0	28.0	26.9	37.4	26.1	47.0
Rural	38.3	25.8	26.9	30.5	24.7	44.2
Urban	59.9	46.2	28.1	55.6	42.6	64.6
Zone 2						
Rural + Urban	50.4	46.1	40.9	46.8	48.2	52.6
Rural	49.2	45.6	40.7	42.8	47.9	51.2
Urban	71.5	57.7	45.5	69.1	59.5	77.0

3.4 Work Status of the Population in Agricultural Households

All persons aged 10 years and over who are members of the agricultural households in both urban and rural areas were asked whether or not they have been engaged in productive activity during most of the 12 months prior to the census date. In the census economic or productive activity was defined in terms of production of goods and services that fall within the United Nations System of National Accounts (SNA) production boundary (ILO, 1990). Hence, in the 2001/2002 Agricultural Sample Enumeration, economic activity or productive activity is defined as a work that involves the production of goods and/or services for sale or exchange and production of certain products for own consumption. According to the above general definition, economic activity covers production of goods and services intended for sale on the market, production of other goods and services such as government activities; production and processing of primary products (agriculture, hunting, fishing, forestry and logging; and mining and quarrying) for own consumption, processing of primary products by the producers themselves, production of other commodities where part of it is sold on the market; and own account construction and fixed asset formation (expected life use of one year or more). Such economic activities could be performed for an individual, family or private enterprise, government establishment or public organization. The remuneration may be on daily, weekly, monthly, yearly or contract basis.

For a person to be counted as working during most of the last 12 months, he/she has to be engaged in any kind of economic activity at least for half of the reference year. In the case of persons engaged in agriculture, it was decided to consider them as being engaged in economic activity during most of the last 12 months if they have worked during most of the main agricultural season of the reference year. The distribution of the population aged 10 years and over in agricultural households of Gambella Region classified by sex, age group work status, and is presented in Summary Table III.11. According to the census result, out of the total 105,042 persons aged 10 years and over who are members of the agricultural households in the region, 55.3 percent were reported to have engaged in some kind of productive activity during the 12 months prior to the enumeration date. The proportion of working population among the male is relatively higher than that of females, that is, 71.7 percent of the males against 40.3

percent of the males against 40.3 percent among the females were engaged in productive activity during the 12 months prior to the survey date.

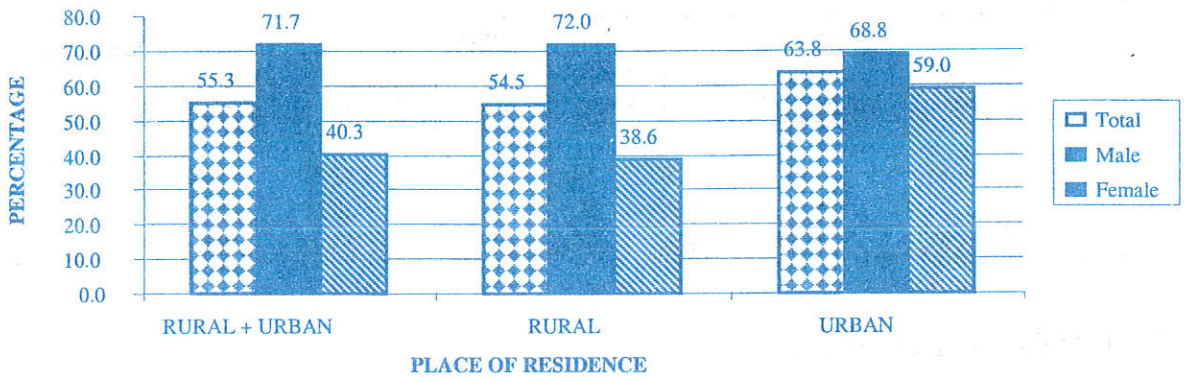
Summary Table III.11 Percentage Distribution of Population Aged 10 Years and Over in Agricultural Households by Sex, Age Group, Working Status* and Place of Residence

Sex/Age Group	RURAL + URBAN				RURAL				URBAN			
	Total		Percent Working	Percent Not Working	Total		Percent Working	Percent Not Working	Total		Percent Working	Percent Not Working
	No.	%			No.	%			No.	%		
Both Sexes												
All Ages	105,042	100	55.3	44.5	96,009	100	54.5	45.3	9,033	100	63.8	36.0
10-17	29,029	100	24.9	74.5	26,294	100	24.0	75.3	2,735	100	33.5	66.1
18-29	33,084	100	56.4	43.5	30,083	100	55.4	44.5	3,001	100	66.1	33.7
30-49	32,157	100	76.2	23.8	29,617	100	75.1	24.9	2,561	100	88.3	11.7
50+	10,743	100	71.8	28.2	10,015	100	71.0	28.9	736	100	82.1	17.8
Male												
All Ages	50,181	100	71.7	28.1	45,722	100	72.0	27.8	4,460	100	68.8	31.0
10-17	15,024	100	30.8	68.8	13,513	100	30.0	69.5	1,511	100	37.5	62.3
18-29	14,238	100	79.0	21.0	12,913	100	79.9	20.0	1,341	100	70.1	29.6
30-49	15,171	100	98.2	1.8	13,949	100	98.1	1.8	1,237	100	98.3	1.7
50+	5,716	100	91.2	8.8	5,346	100	91.0	9.0	370	100	94.1	6.2
Female												
All Ages	54,860	100	40.3	59.4	50,287	100	38.6	61.1	4,573	100	59.0	40.9
10-17	14,003	100	18.6	80.5	12,780	100	17.7	81.4	1,223	100	28.5	71.0
18-29	18,810	100	39.3	60.7	17,170	100	37.0	62.9	1,660	100	63.0	37.0
30-49	16,986	100	56.5	43.5	15,668	100	54.6	45.4	1,324	100	78.9	21.1
50+	5,026	100	49.8	50.2	4,669	100	48.1	51.7	366	100	70.2	29.8

* Those who do not report their Work Status are not shown.

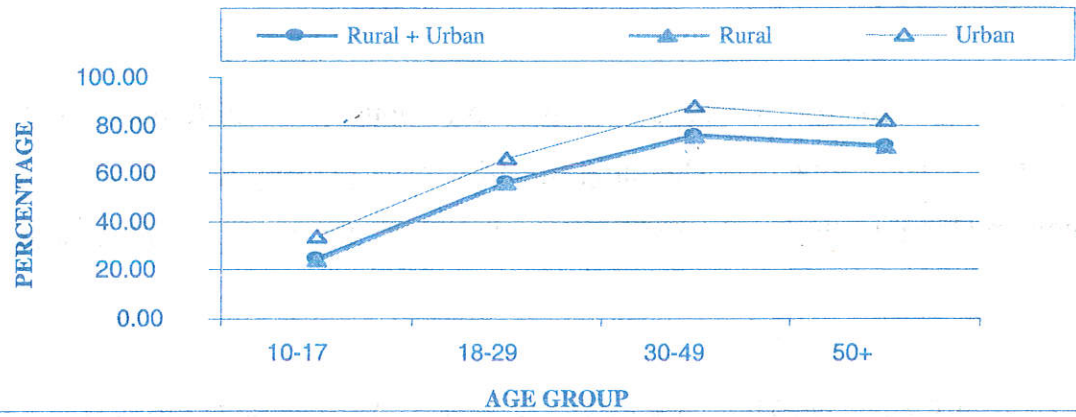
In contrast with other regions, engagement in productive activity is higher in the urban areas than that of the rural areas of the region. In urban areas, nearly two-thirds of the agricultural population was working during most of the 12 months prior to the survey date. Whereas, working persons in rural areas constituted little more than half (54.5 percent) of the population in question. In both rural and urban areas, the proportion working among the males is higher than that of the females with a wider gender disparity in rural areas (See Figure III.4).

Figure III.4 Working Population by Sex and Place of Residence



As can be seen from Figure III.5 engagement in productive activity is highest for persons of middle age (30 -49 years). As expected, the proportion working is low for the children aged 10-17 years. This phenomenon holds true for both the males and the females in rural as well as in urban areas.

Figure III.5 Proportion Working by Age Group and Place of Residence



Summary Table III.12 presents the proportion of working population in agricultural households by zone, place of residence and sex. The level of engagement in productive activity show slight variation between the two zones, with Zone 1 leading in urban areas and Zone 2 leading in rural areas. Moreover, in the two zones males have higher engagement level than females, the gap being wider for rural part Zone 1.

Summary Table III.12 Proportion of Population Aged 10 Years and Over in Agricultural Households Who Were Engaged in Productive Activities by Sex, Place of Residence and Zone

Zones	Rural + Urban			Rural			Urban		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
All zones	55.3	71.8	40.4	54.6	72.1	38.7	63.9	69.0	59.0
Zone 1	53.0	70.1	37.4	50.9	69.9	33.6	67.7	71.3	64.1
Zone 2	57.1	73.3	42.8	57.3	73.8	42.4	56.5	64.2	49.3

3.5 Reason for Not Working

The distribution of non-working population in agricultural households by main reason for not working and selected background variables is presented in Summary Table III.13. In both the rural and the urban areas of the region, the two most important reasons for not working are home making and attending school or being a student, together constituting 92.4 percent (47.3% + 45.1%). Disability or illness, and old age have very little contribution. The pattern in the urban areas is different in that students make up the highest proportion among non-working population.

The distribution of reasons for not working among the male population is different from that of the females. Students make up the overwhelming majority (86.7 percent) among non-working males while homemaking is the major (65.5 percent) reason for not working among the females.

The patterns of reason for not working vary as age increases. As expected, students make up the majority (76.9 percent) of non-working population aged 10-17 years. On the other hand, homemakers constitute the majority of non-working population aged 18-29 years and 30-49 years (68.0 percent and 90.5 percent, respectively), while old age/pension is the major reason for not working among those aged 50 years and above.

Summary Table III.13 Population in Agricultural Households by Reason for Not Working and Some Back Ground Variables

Back ground Variables	Reason for not Working					
	Total not Working	Student	Home Maker	Disabled /ill	Old Age/ Pension	Others
All Persons	46,702	45.1	47.3	0.8	4.0	2.8
Place of Residence						
Rural	43,449	43.8	48.6	0.8	4.1	2.7
Urban	3,253	63.1	29.4	*	2.2	4.5
Sex						
Male	14,101	86.7	5.0	1.2	2.4	4.7
Female	32,601	27.1	65.5	0.6	4.7	2.0
Age						
10 - 17	21,614	76.9	19.8	0.3	*	2.9
18 - 29	14,397	30.0	68.0	0.4	-	1.6
30 - 49	7,665	1.5	90.5	1.7	2.3	4.0
50+	3,027	*	35.2	3.9	55.2	5.4
Zone						
Zone 1	21,822	41.8	51.1	0.8	4.4	1.9
Zone 2	24,879	48.0	43.9	0.8	3.6	3.7

3.6 Type of Occupation for Working Population

Data on type of occupation was collected for all persons who have reported to have been engaged in productive activity during most of the last 12 months. The response to the question is classified as fully agricultural, partially agricultural and non-agricultural. This information provides the extent to which the agricultural population is engaged in other activities.

Summary Table III.14 presents the distribution of the population in the agricultural households aged 10 years and over who are engaged in productive activity by type of occupation and background variables. The census result shows that more than three fifths of the population in agricultural households age 10 years and over was engaged in fully agricultural activities, while only about 31 percent of the population was engaged in partially agricultural activities. The proportion of population engaged only in non-agricultural activities was very small, amounting to 5.1 percent. As expected, in urban areas the proportion engaged in partial or non-agricultural activities is larger than those who engaged in fully agricultural activities.

The pattern of type of occupation among the females, where the proportion engaged in fully agricultural and partially agricultural activities are close to each other, is different from that of the males. Higher proportion of females than males tend to get engaged in partially agricultural or non-agricultural activities. Engaging in fully agricultural activities appear to increase as the age of person increases. The two zones have similar distribution of type of occupation for the population in agricultural households, with engagement in fully agricultural activities is more pronounced in Zone 2.

Summary Table III.14 Percentage Distribution of Population in Agricultural Households Engaged in Productive Activities by Type of Occupation and Some Background Variables

Back ground Variables	Total Working		Fully Agricultural	Partially Agricultural	Non Agricultural
	No.	%			
All Persons	58,087	100	63.6	31.3	5.1
Place of Residence					
Rural	52,321	100	66.9	28.6	4.5
Urban	5,766	100	34.1	55.2	10.7
Sex					
Male	35,985	100	74.5	23.1	2.3
Female	22,102	100	45.9	44.5	9.6
Age					
10 - 17	7,228	100	41.5	53.1	5.3
18 - 29	18,652	100	55.7	35.3	9.0
30 - 49	24,492	100	70.0	26.5	3.5
50+	7,716	100	83.4	16.2	*
Zone					
Zone 1	24,698	100	58.1	37.1	4.8
Zone 2	33,389	100	67.7	27.0	5.3

3.7 Employment Status of Population Engaged in Agricultural Activities

Employment status of working population indicates the level of involvement and degree of decision-making in the respective activities. In this sample enumeration persons engaged in fully or partially agricultural activities were asked to report the employment status in that activity.

According to the data presented in Summary Table III.15, own account workers constituted the highest proportion (60.1 percent) of the working population in agricultural households. The proportion that hires others in their farm is only 1.8 percent, showing the low capacity of the region's agricultural industry to create employment opportunity for non-holders. On the other hand, only 0.6 percent of the population in agricultural households engaged in agricultural activities was employees.

Summary Table III.15 Percentage Distribution of Population in Agricultural Households Engaged in Agricultural Activities by Employment Status and Some Background Variables

Background variable	Total Engaged in Agricultural Activities		Employer	Own Account Worker	Employee	Unpaid Family Worker	Others
	No	%					
All Persons	55,127	100	1.8	60.1	0.6	37.3	0.1
Place of Residence							
Rural	49,978	100	1.6	61.7	0.7	35.8	0.2
Urban	5,150	100	3.5	43.7	0.6	52.1	-
Sex							
Male	35,153	100	2.1	72.9	1.0	23.9	*
Female	19,974	100	1.3	37.5	*	60.9	*
Age							
10 - 17	6,841	100	*	8.3	*	91.2	-
18 - 29	16,971	100	1.2	48.4	1.0	49.2	*
30 - 49	23,630	100	2.3	75.2	*	21.9	*
50+	7,685	100	3.3	85.3	*	10.7	*
Zone							
Zone 1	23,506	100	0.6	61.3	0.2	37.8	-
Zone 2	31,622	100	2.7	59.1	1.0	36.9	0.3

The situations in urban and rural areas are different, where working in own account is common in urban areas. The overwhelming majority (60.9 percent) of female respondents in agricultural households who are engaged in agricultural activities are unpaid family workers while self-employment (own account) is the common type of employment status among males (72.9 percent) showing the dominance of males over female in the tradition/culture of the society. As in the case of other variables, the distribution by employment status of the population in agricultural households did not show noticeable variation among the zones.

STATISTICAL TABLES PRESENTING RESULTS AT ZONE AND WEREDA LEVELS

Tables 3.1 – 3.5

Table 3.1 Distribution of Population in Agricultural Household by Status and Type of Holding, Percent Female, Rural and Urban Areas, Zone and Wereda

Geographic Area	Total Agricultural Population		All Non-Holders		Agricultural Holders							
					All Holders		Type of Holdings					
							Crop Only		Livestock only		Crop & Livestock	
	Total	% Female	Total	% Female	Total	% Female	Total	% Female	Total	% Female	Total	%Female
Gambella Region												
Rural + Urban	153,181	50.9	118,031	59.1	35,150	23.4	8,489	30.5	3432	42.9	23229	17.9
Rural	139,919	50.9	107,163	59.5	32,756	22.9	8,109	29.8	2649	45.6	21997	17.7
Urban	13,261	50.8	10,867	55.6	2,394	29.1	380	44.7	783	33.6	1231	21.4
Zone 1												
Rural + Urban	68,114	50.9	53,463	58.8	14,652	22.1	2,881	32.5	2157	31.7	9614	16.8
Rural	59,144	50.8	46,024	59.3	13,120	21.3	2,736	31.7	1565	30.2	8819	16.4
Urban	8,970	51.0	7,439	55.6	1,532	28.9	146	46.6	592	35.3	794	20.9
Jikawo Wereda												
Rural + Urban	32,254	50.6	25,762	59.9	6,493	13.7	677	25.7	1017	15.1	4799	11.7
Rural	32,254	50.6	25,762	59.9	6,493	13.7	677	25.7	1017	15.1	4799	11.7
Urban	-	-	-	-	-	-	-	-	-	-	-	-
Itang Wereda												
Rural + Urban	20,426	50.9	15,823	57.9	4,603	26.8	1,063	34.1	445	47.4	3095	21.3
Rural	16,568	49.8	12,576	57.5	3,992	25.7	1,009	32.5	244	55.7	2740	20.4
Urban	3,858	55.5	3,247	59.5	611	34.0	54	64.8	201	37.3	356	27.5
Gambella Wereda												
Rural + Urban	15,434	51.3	11,878	57.3	3,556	31.2	1,142	34.9	695	45.8	1719	23
Rural	10,322	53.1	7,687	60.0	2,635	33.2	1,050	34.8	304	60.2	1281	25.4
Urban	5,112	47.6	4,191	52.5	921	25.5	92	35.9	391	34.3	438	15.5
Zone 2												
Rural + Urban	85,066	51.0	64,568	59.5	20,498	24.3	5,608	29.5	1275	61.8	13615	18.6
Rural	80,775	51.0	61,139	59.7	19,636	24.1	5,373	28.9	1084	67.8	13178	18.5
Urban	4,291	50.5	3,429	55.8	863	29.3	235	43.4	191	27.7	437	22.2
Abobo Wereda												
Rural + Urban	16,477	51.4	12,365	59.8	4,112	26.0	1,449	22.8	266	67.3	2398	23.3
Rural	16,477	51.4	12,365	59.8	4,112	26.0	1,449	22.8	266	67.3	2398	23.3
Urban	-	-	-	-	-	-	-	-	-	-	-	-

Table 3.1 (Cont'd)

Geographic Area	Total Agricultural Population		All Non-Holders		Agricultural Holders							
					All Holders		Type of Holdings					
							Crop Only		Livestock only		Crop & Livestock	
	Total	% Female	Total	% Female	Total	% Female	Total	% Female	Total	% Female	Total	%Female
Jor Wereda												
Rural + Urban	4,946	55.8	3,736	61.1	1,210	39.4	327	58.4	75	*	808	32.4
Rural	4,946	55.8	3,736	61.1	1,210	39.4	327	58.4	75	*	808	32.4
Urban	-	-	-	-	-	-	-	-	-	-	-	-
Jog Wereda												
Rural + Urban	15,861	56.8	12,559	60.2	3,302	43.7	945	52.6	402	60	1956	36
Rural	14,232	57.4	11,211	61.3	3,021	43.1	862	50.1	316	70.6	1843	35.1
Urban	1,628	51.3	1,347	51.5	281	50.2	83	78.3	86	20.9	113	52.2
Godare Wereda												
Rural + Urban	47,612	48.4	35,777	58.9	11,834	16.7	2,887	22.0	498	67.7	8450	11.9
Rural	45,120	48.4	33,827	58.9	11,293	16.6	2,736	21.8	427	72.4	8130	11.9
Urban	2,492	49.8	1,950	58.3	542	19.2	151	24.5	71	39.4	320	12.2
Dima Wereda												
Rural + Urban	171	52.0	131	62.6	40	17.5	1	-	35	20	4	-
Rural	-	-	-	-	-	-	-	-	-	-	-	-
Urban	171	52.0	131	62.6	40	17.5	1	-	35	20	4	-

Table 3.2 Average Household Size of Zones by Place of Residence and Sex of Head of Households

Geographic Area	Rural + Urban			Rural			Urban		
	Total	Male Headed	Female Headed	Total	Male Headed	Female Headed	Total	Male Headed	Female Headed
Gambella Region	4.8	5.0	4.0	4.7	4.9	3.9	5.6	5.9	4.8
Zone 1	5.1	5.4	4.0	5.0	5.3	3.8	5.9	6.3	5.0
Jikawo Wereda	5.3	5.6	3.4	5.3	5.6	3.4	-	-	-
Itang Wereda	5.1	5.4	4.2	4.9	5.2	4.0	6.3	7.1	4.8
Gambella Wereda	4.8	5.0	4.2	4.4	4.6	3.9	5.7	5.8	5.2
Zone 2	4.5	4.7	4.0	4.5	4.6	4.0	5.0	5.2	4.5
Abobo Wereda	4.5	4.6	4.1	4.5	4.6	4.1	-	-	-
Jor Wereda	4.4	5.0	3.4	4.4	5.0	3.4	-	-	-
Jog Wereda	5.3	5.6	4.8	5.3	5.6	4.8	5.8	6.7	4.9
Godare Wereda	4.3	4.5	3.5	4.3	4.5	3.5	4.7	4.9	3.7
Dima Wereda	4.3	3.9	6.3	-	-	-	4.3	3.9	6.3

Table 3.3 Distribution of population in Agricultural Households by Sex, Marital Status, Place of Residence, Zone and Wereda

Geographic Area	Total			Never Married			Married			Divorced			Widowed		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
Gambella Region															
Rural + Urban	105,042	50,182	54,860	36.0	45.3	27.5	53.0	49.9	55.9	3.8	2.9	4.7	6.9	1.6	11.6
Rural	96,009	45,722	50,287	35.4	44.6	27.1	53.3	50.4	56.0	4.0	3.0	4.9	6.9	1.7	11.7
Urban	9,033	4,460	4,573	41.7	52.5	31.2	49.9	45.0	54.7	2.1	1.2	3.0	6.2	1.2	11.0
Zone 1															
Rural + Urban	46,609	22,374	24,235	35.5	45.7	26.1	55.0	50.6	59.0	2.2	1.5	2.8	7.1	2.0	11.9
Rural	40,615	19,389	21,226	34.8	44.7	25.8	55.4	51.4	59.1	2.3	1.7	2.9	7.2	2.1	12.0
Urban	5,994	2,985	3,009	40.2	52.7	27.8	51.9	45.3	58.5	1.4	0.4	2.3	6.4	1.6	11.2
Jikawo Wereda															
Rural + Urban	21,560	10,282	11,278	33.3	42.9	24.5	60.2	55.5	64.4	1.2	0.6	1.8	5.3	0.9	9.3
Rural	21,560	10,282	11,278	33.3	42.9	24.5	60.2	55.5	64.4	1.2	0.6	1.8	5.3	0.9	9.3
Urban	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang Wereda															
Rural + Urban	13,855	6,740	7,115	37.7	48.9	27.0	51.3	46.6	55.8	2.9	2.1	3.7	8.1	2.4	13.4
Rural	11,570	5,714	5,856	38.2	48.4	28.2	50.3	46.3	54.3	3.1	2.4	3.9	8.3	2.9	13.6
Urban	2,285	1,026	1,259	34.9	51.8	21.2	56.4	48.1	63.1	*	*	*	7.1	-	12.9
Gambella Wereda															
Rural + Urban	11,194	5,352	5,843	37.2	47.2	28.1	49.5	46.4	52.4	3.2	2.5	3.9	9.5	3.5	14.9
Rural	7,486	3,393	4,092	34.1	43.7	26.2	49.7	47.8	51.2	4.2	3.6	4.7	11.2	4.2	17.0
Urban	3,709	1,959	1,750	43.5	53.2	32.7	49.2	43.8	55.1	1.2	0.5	1.9	6.0	2.4	9.9
Zone 2															
Rural + Urban	58,433	27,808	30,624	36.4	45.0	28.5	51.5	49.4	53.5	5.2	4.0	6.2	6.7	1.4	11.5
Rural	55,394	26,333	29,061	35.9	44.6	28.0	51.8	49.6	53.8	5.2	4.1	6.3	6.7	1.4	11.5
Urban	3,039	1,475	1,564	44.7	52.2	37.6	46.0	44.5	47.5	3.5	2.7	4.2	5.7	*	10.7
Abobo Wereda															
Rural + Urban	11,898	5,521	6,377	38.1	46.9	30.4	49.4	46.7	51.6	3.4	3.0	3.8	8.8	2.9	13.9
Rural	11,898	5,521	6,377	38.1	46.9	30.4	49.4	46.7	51.6	3.4	3.0	3.8	8.8	2.9	13.9
Urban	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 3.3 (Cont'd)

Geographic Area	Total			Never Married			Married			Divorced			Widowed		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
Jor Wereda															
Rural + Urban	3,817	1,659	2,158	41.3	54.5	31.1	41.6	40.8	42.2	4.1	2	5.7	13.1	2.7	21
Rural	3,817	1,659	2,158	41.3	54.5	31.1	41.6	40.8	42.2	4.1	2	5.7	13.1	2.7	21
Urban	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jog Wereda															
Rural + Urban	10,777	4,356	6,421	39.5	51.9	31	46.8	44.3	48.6	3.1	1.4	4.3	10	1.7	15.7
Rural	9,638	3,825	5,813	38.8	51.1	30.6	47.1	44.7	48.7	3.4	1.6	4.5	10.1	1.8	15.6
Urban	1,139	530	608	45.5	57.9	34.7	44.6	41.3	47.5	*	-	*	9.2	*	16.4
Godare Wereda															
Rural + Urban	31,819	16,210	15,609	34.1	41.5	26.4	55.1	52.5	57.7	6.6	5.3	8.1	4	0.6	7.4
Rural	30,041	15,328	14,713	33.4	41	25.5	55.6	52.9	58.4	6.7	5.3	8.2	4	0.7	7.4
Urban	1,778	882	895	44.8	49.7	40.1	46	45.6	46.4	5.4	4.4	6.5	3.7	-	7.3
Dima Wereda															
Rural + Urban	122	62	60	35.2	40.3	30	60.7	56.5	65	0.8	1.6	-	3.3	1.6	5
Rural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Urban	122	62	60	35.2	40.3	30	60.7	56.5	65	0.8	1.6	-	3.3	1.6	5

Table 3.4 Proportion of Literate Population in Agricultural Households by Place of Residence, Sex, Zone and Wereda

Geographic Area	Rural + Urban			Rural			Urban		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
Gambella Region	46.2	60.7	33.0	44.6	58.9	31.5	63.8	78.4	49.6
Zone 1	41.0	54.7	28.4	38.3	51.3	26.3	59.9	76.6	43.3
Jikawo Wereda	26.9	40.2	14.7	26.9	40.2	14.7	-	-	-
Itang Wereda	47.4	62.3	33.3	48.0	61.4	34.9	44.6	67.4	25.9
Gambella Wereda	60.4	72.9	49.0	56.0	68.0	46.0	69.4	81.5	55.9
Zone 2	50.4	65.5	36.7	49.2	64.5	35.3	71.5	82.0	61.6
Abobo Wereda	53.7	68.0	41.3	53.7	68.0	41.3	-	-	-
Jor Wereda	50.9	67.9	37.8	50.9	67.9	37.8	-	-	-
Jog Wereda	55.5	72.7	43.8	53.6	71.0	42.1	71.6	84.9	60.0
Godare Wereda	47.3	62.4	31.6	45.8	61.3	29.7	71.6	80.4	63.0
Dima Wereda									

Table 3.5 Distribution of Population in Agricultural Households Aged 10 Years and Over by Sex, Working Status During the Last 12 Months, Reason for not Working, Percent Female, Zone and Wereda

Geographic Area	working		Not Working by Reason for not Working														Working Status Not Stated	
			Total not Working		Student		Home Maker		Disabled/ill		Old Age/pension		Others		Not Stated			
	No	% Female	No	% Female	No	% Female	No	% Female	No	% Female	No	% Female	No	% Female	No	% Female	No	% Female
Gambella Region	58,087	38.0	46,702	69.8	21,068	*	22,075	*	369	*	1,869	*	1,321	*	*	*	253	*
Zone 1	24,698	36.6	21,822	69.4	9,132	*	11,151	*	169	*	967	*	404	*	*	*	88	*
Jikawo Wereda	9,575	27.0	11,963	72.6	3,893	*	7,382	*	70	*	532	*	88	*	*	*	-	-
Itang Wereda	8,875	43.1	4,974	65.9	2,557	*	2,057	*	50	*	182	*	128	*	*	*	6	*
Gambella Wereda	6,248	42.0	4,885	65.0	2,682	*	1,713	*	49	*	253	*	188	*	*	*	61	*
Zone 2	33,389	39.1	24,879	70.2	11,936	*	10,924	*	199	*	903	*	918	*	*	*	164	*
Abobo Wereda	5,828	38.6	6,040	68.0	3,353	*	2,222	*	50	*	274	*	140	*	*	*	-	-
Jor Wereda	2,574	47.9	1,243	74.5	635	*	532	*	-	-	-	-	-	-	*	*	*	*
Gog Wereda	5,339	52.9	5,353	66.4	3,138	*	1,800	*	-	-	201	*	193	*	*	*	85	*
Godare Wereda	19,572	34.4	12,199	72.5	4,794	*	6,349	*	115	*	406	*	535	*	*	*	-	-
Dima Wereda	76	30.3	46	80.4	16	*	22	*	*	*	1	*	7	*	*	*	*	*

ANNEX TABLES PRESENTING ESTIMATES, STANDARD ERRORS AND COEFFICIENTS OF VARIATION FOR SELECTED SOCIO-ECONOMIC CHARACTERISTICS OF THE POPULATION IN AGRICULTURAL HOUSEHOLDS VARIABLES

Annex Table 3.1

Annex Table 3.1 Distribution of Population in Agricultural Household by Status and Type of Holding, Percent Female, Rural and Urban Areas, Zone and Wereda

Geographic Area	Total Agricultural Population			All Non-Holders			Agricultural Holders											
										Type of Holdings								
							All Holders			Crop Only			Livestock only			Crop & Livestock		
	Total	SE	CV	Total	SE	CV	Total	SE	CV	Total	SE	CV	Total	SE	CV	Total	SE	CV
Gambella Region																		
Rural + Urban	153,181	4,469	3	118,031	3,722	3	35,150	879	3	8,489	445	5	3,432	337	10	23,229	692	3
Rural	139,919	4,454	3	107,163	3,704	3	32,756	879	3	8,109	444	5	2,649	334	13	21,997	690	3
Urban	13,261	365	3	10,867	364	3	2,394	10	-	380	34	9	783	45	6	1,231	49	4
Zone 1																		
Rural + Urban	68,114	2,430	4	53,463	2,081	4	14,652	464	3	2,881	188	7	2,157	295	14	9,614	375	4
Rural	59,144	2,406	4	46,024	2,053	4	13,120	464	4	2,736	187	7	1,565	293	19	8,819	372	4
Urban	8,970	343	4	7,439	343	5	1,532	9	1	146	25	17	592	40	7	794	42	5
Jikawo Wereda																		
Rural + Urban	32,254	2,083	6	25,762	1,803	7	6,493	393	6	677	117	17	1,017	279	27	4,799	347	7
Rural	32,254	2,083	6	25,762	1,803	7	6,493	393	6	677	117	17	1,017	279	27	4,799	347	7
Urban	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang Wereda																		
Rural + Urban	20,426	367	2	15,823	365	2	4,603	-	-	1,063	49	5	445	41	9	3,095	57	2
Rural	16,568	203	1	12,576	199	2	3,992	36	1	1,009	44	4	244	22	9	2,740	44	2
Urban	3,858	306	8	3,247	306	9	611	-	-	54	20	38	201	35	17	356	37	10
Gambella Wereda																		
Rural + Urban	15,434	1,197	8	11,878	973	8	3,556	243	7	1,142	139	12	695	86	12	1,719	130	8
Rural	10,322	1,187	12	7,687	961	13	2,635	243	9	1,050	138	13	304	84	28	1,281	129	10
Urban	5,112	154	3	4,191	154	4	921	9	1	92	15	16	391	20	5	438	19	4
Zone 2																		
Rural + Urban	85,066	3,750	4	64,568	3,085	5	20,498	747	4	5,608	403	7	1,275	162	13	13,615	582	4
Rural	80,775	3,748	5	61,139	3,083	5	19,636	747	4	5,373	402	7	1,084	161	15	13,178	581	4
Urban	4,291	124	3	3,429	123	4	863	5	1	235	23	10	191	21	11	437	25	6

Annex Table 3.1 (Cont'd)

Geographic Area	Total Agricultural Population			All Non-Holders			Agricultural Holders											
										Type of Holdings								
							All Holders			Crop Only			Livestock only			Crop & Livestock		
	Total	SE	CV	Total	SE	CV	Total	SE	CV	Total	SE	CV	Total	SE	CV	Total	SE	CV
Abobo Wereda																		
Rural + Urban	16,477	2,110	13	12,365	1,735	14	4,112	405	10	1,449	184	13	266	79	30	2,398	291	12
Rural	16,477	2,110	13	12,365	1,735	14	4,112	405	10	1,449	184	13	266	79	30	2,398	291	12
Urban	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jor Wereda																		
Rural + Urban	4,946	730	15	3,736	562	15	1,210	190	16	327	76	23	75	36	48	808	140	17
Rural	4,946	730	15	3,736	562	15	1,210	190	16	327	76	23	75	36	48	808	140	17
Urban	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jog Wereda																		
Rural + Urban	15,861	420	3	12,559	402	3	3,302	66	2	945	69	7	402	61	15	1,956	91	5
Rural	14,232	411	3	11,211	393	4	3,021	66	2	862	68	8	316	59	19	1,843	89	5
Urban	1,628	85	5	1,347	85	6	281	-	-	83	15	18	86	14	16	113	15	13
Godare Wereda																		
Rural + Urban	47,612	2,983	6	35,777	2,456	7	11,834	595	5	2,887	343	12	498	122	25	8,450	475	6
Rural	45,120	2,982	7	33,827	2,454	7	11,293	595	5	2,736	343	13	427	122	28	8,130	475	6
Urban	2,492	90	4	1,950	89	5	542	5	1	151	18	12	71	15	22	320	20	6
Dima Wereda																		
Rural + Urban	171	-	-	131	-	-	40	-	-	1	-	-	35	-	-	4	-	-
Rural	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Urban	171	-	-	131	-	-	40	-	-	1	-	-	35	-	-	4	-	-

CHAPTER IV

LAND UTILIZATION

1. INTRODUCTION

From agricultural point of view, land is an indispensable factor for production of crops, raising of livestock and other ancillary agricultural activities. The proper utilization of land holdings under different components will contribute to the development of the nation's agricultural products. In order to scrutinize this development as well as farmers' attitude towards land use practices, a timely and comprehensive land use data has paramount importance for governmental, non-governmental and private sector data users. According to the international recommendations for Agricultural Census, the total land use is categorized into five main land use types, which are land under temporary crops, land under permanent crops, grazing land, fallow land, woodland and land for other purposes. Based on these major land use categories, the 2001/02 (1994 E.C.) Ethiopian Agricultural Sample Enumeration (EASE) provides quantitative information on land utilization at Regional, Zonal and Wereda levels.

The 2001/02(1994 E.C.) EASE covered all land holdings i.e., rural and urban holdings. In urban areas, size of land holdings was restricted to only cropland area and urban agricultural households were required to have a minimum size of 250 square meters in order to be covered in the census. On the other hand, in the rural areas land use data were collected without any size limitation of land holdings.

The coverage of land use data items in rural private holdings included all the categories of land used. However, in urban private holdings, the coverage of land use data item is limited to cropland area, which includes land under temporary and permanent crops. To have consistent and comparable land use information, a standard concepts and definitions were applied for the aforementioned data items.

In the 2001/02 EASE, a number of land use data was collected based on objective and subjective methods of enumeration. That is, in rural private holdings land area was obtained

by forwarding relevant questions on size of land to the holder and by objective area measurement using compass, measuring tape and programmable calculator. On the other hand, in urban private holdings data on land area was collected subjectively by interviewing the holder /responsible operator/ in standard or metric units (in some cases, local measuring units were reported).

This chapter deals with the data on land holding for rural and urban private holdings on land use findings from the results of the agricultural census for Gambella Region. It covers data on farm holdings by type and size of land holdings; population in agricultural households both in rural and urban areas of private holding that are disaggregated by size of land holdings; land area and fragmentation by type of land use and size of holding; cropland area by crop categories and data on area under land tenure systems. Also the census data should be presented for all the zones and weredas in the region. Hence, tables providing these data at zonal and wereda levels are also presented in Statistical Tables 4.1-4.56. Moreover, Estimates, Standard Errors (S.E.) and Coefficients of Variation (C.V.) are given in Annex Tables 4.1 – 4.4.2 for some relevant variables.

2. FARM HOLDINGS BY TYPE AND SIZE OF LAND HOLDINGS

Farm holding is referred to all land or livestock holdings, which are mainly used for both crop and livestock production. Depending on the type of activities, an agricultural holder engaged with farm holding has been categorized into three groups. These are "crop only" (crop production), "livestock only" and " both crop and livestock" (the production of both crop and livestock). All three types of holdings are practised in both rural and urban private holdings. Furthermore, the total area of land holdings under different uses is classified into seven-area size of holdings in hectare. The classification is given as follows:

i- Under 0.10 hectare
ii- 0.10-0.50 hectare
iii- 0.51-1.00 hectare
iv- 1.01-2.00 hectares
v- 2.01-5.00 hectares
vi- 5.01-10.00 hectares

vii- Above 10 hectares

Hence, the number of agricultural holders is disaggregated by type and previous size of land holdings. From this point of view, one can realize that the total number of farm holdings within a given size of land holding is equal in magnitude with the corresponding reported number of agricultural holders.

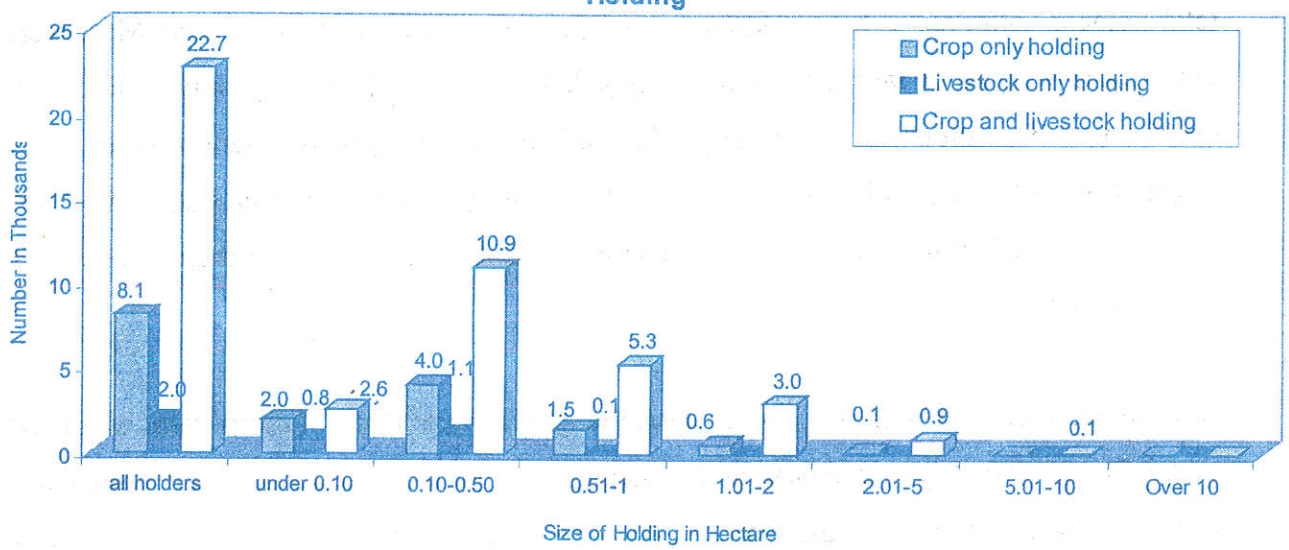
The total number of agricultural holders that are involved in all types of farm-holding activities and the reported land use of Gambella Region was estimated to be about 32,767. Out of the total holders those who are engaged in crop production, livestock and both crop and livestock production were estimated to be about 8,111 (24.8%), 1,967 (6.0%) and 22,689 (69.2%), respectively. In general, most of agricultural holders (49.0%) had a total size of land holdings that ranges from 0.10 to 0.50 hectare and followed by 20.7% of the total holders with area size of holding that fall between 0.51 and 1.00 hectare. Moreover, with regard to type of farm activities, holders that are engaged in "crop only", "livestock only" and " both crop and livestock production" are reported to have land holdings that ranges from 0.10 to 0.50 hectare (49.7% for " crop only", 55.8% for "livestock only" and 48.1% for mixed crop and livestock production, respectively) (See Summary Table IV.1 and Figure IV.1).

In rural areas of Gambella Region, the total number of agricultural holders were estimated to be 31,155 (95.1%) and this total is composed of holders producing crop production (24.8%), livestock (6.3%) and holders that are engaged in mixed crop and livestock production (68.9%). In general, the majority of agricultural holders (49.6%) had a total size of land holdings that ranges from 0.10 to 0.50 hectare, followed by size of land holdings that fall within 0.51 to 1.00 hectare (21.3%). Similarly, agricultural holders that are involved in crop, livestock and mixed crop and livestock production are estimated to have an area size of holdings that ranges from 0.10 to 0.50 hectare (50.0%"crop only", 55.8% " livestock only" and 48.9% "crop and livestock production", respectively) (For details refer to Summary Table IV.1).

On the other hand, in urban areas of the Gambella Region, the type of land use considered during the census were only crop field i.e., temporary and permanent crops.

Thus, the census result indicates that 1,611 agricultural holders (4.9%) are reported in the urban areas of the region. Of this total, 23.6 percent are only crop growing holders while the remaining 76.4 percent are practicing mixed farming (i.e., both crop and livestock production). Most of the holders (39.9%) in the urban areas had a land holding that falls under 0.10 hectare. Among the total 380 (23.6%) crop producing holders, 42.9% were holders with a holding size of 0.10 to 0.50 hectare, followed by those under 0.10 hectare (31.1%). Furthermore, in holders with mixed crop and livestock production, the highest number is reported with holding size below 0.10 hectare (42.6%) followed by 0.10 to 0.50 hectare (35.2%)(See Summary Table IV.1).

Figure IV.1: Distribution Of Agricultural Holders By Type And Size of Holdings, For private Holding



The census result shows that of the total agricultural holders reported in the region, the largest number of agricultural holders was found in Zone-2 (58.9%), followed by Zone-1 (41.1%). Similarly, with regard to the type of farming activities, most of agricultural holders who are involved in "crop only" production (5,342) and mixed "crop and livestock" production (13,327) were both reported in Zone-2 with corresponding highest number of holders with a size of holding that ranges from 0.10 to 0.50 hectare for both. On the other hand, the highest number of agricultural holders (1,329) that are engaged in "livestock only" production activities were found in Zone-1 with corresponding highest number of holders having area size of holding of between 0.10 and 0.50 hectare (59.3%). Moreover, across the region, most of agricultural holders that are engaged in livestock farming had

total size of land holdings of between 0.10 and 0.50 hectare (For details, refer to Summary Table IV.1).

Summary Table IV.1: Distribution Of Agricultural Holders By Type And Size Of Holdings In Rural And Urban Areas And Zones, For Private Holdings

Items	All Holders	Size of holding in hectare						
		Under 0.1	0.1-0.50	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10	over 10
RURAL + URBAN								
All holders	32767	5338	16051	6795	3548	956	75	*
Percent..	100	16.3	49.0	20.7	10.8	2.9	0.2	*
Crop only holding	8111	1967	4031	1452	558	94	*	0
Percent..	24.8	24.3	49.7	17.9	6.9	1.2	*	0.0
Livestock only holding	1967	782	1097	74	*	0	0	0
Percent..	6.0	39.8	55.8	3.8	*	0.0	0.0	0.0
Crop and livestock holding	22689	2588	10924	5269	2975	862	67	*
Percent..	69.2	11.4	48.1	23.2	13.1	3.8	0.3	*
RURAL								
All holders	31155	4696	15455	6642	3426	889	*	0
Percent..	95.1	15.1	49.6	21.3	11.0	2.9	*	0.0
Crop only holding	7731	1849	3868	1413	547	54	0	0
Percent..	24.8	23.9	50.0	18.3	7.1	0.7	0.0	0.0
Livestock only holding	1967	782	1097	74	*	0	0	0
Percent..	6.3	39.8	55.8	3.8	*	0.0	0.0	0.0
Crop and livestock holding	21457	2065	10490	5155	2865	836	*	0
Percent..	68.9	9.6	48.9	24.0	13.4	3.9	*	0.0
URBAN								
All holders	1611	642	596	153	122	66	29	*
Percent..	4.9	39.9	37.0	9.5	7.6	4.1	1.8	*
Crop only holding	380	118	163	39	11	41	*	0
Percent..	23.6	31.1	42.9	10.3	2.9	10.8	*	0.0
Crop and livestock holding	1231	524	433	114	110	26	20	*
Percent..	76.4	42.6	35.2	9.3	8.9	2.1	1.6	*
ZONE 1								
All holders	13460	2533	8930	1602	378	16	0	0
Percent..	41.1	18.8	66.3	11.9	2.8	0.1	0.0	0.0
Crop only holding	2769	784	1735	231	*	3	0	0
Percent..	20.6	28.3	62.7	8.3	*	0.1	0.0	0.0
Livestock only holding	1329	477	788	*	*	0	0	0
Percent..	9.9	35.9	59.3	*	*	0.0	0.0	0.0
Crop and livestock holding	9362	1273	6407	1313	356	*	0	0
Percent..	69.6	13.6	68.4	14.0	3.8	*	*	0.0
ZONE 2								
All holders	19307	2805	7121	5193	3170	940	75	*
Percent..	58.9	14.5	36.9	26.9	16.4	4.9	0.4	*
Crop only holding	5342	1184	2296	1221	542	91	*	0
Percent..	27.7	22.2	43.0	22.9	10.2	1.7	*	0.0
Livestock only holding	638	305	309	*	*	0	0	0
Percent..	3.3	47.8	48.4	*	*	0.0	0.0	0.0
Crop and livestock holding	13327	1316	4516	3956	2619	849	67	*
Percent..	69.03	9.87	33.89	29.68	19.65	6.37	0.5	*

***Note** : Those holders with "livestock only" reported land holding that might include grazing land, woodland or land for other purposes.*

3. POPULATION IN AGRICULTURAL HOUSEHOLDS AND SIZE OF LAND HOLDING

The census data shows that the total population in agricultural households that depend on agricultural holdings are estimated and classified by area size of holdings. However, the total area size of holdings that are associated with agricultural households does not necessarily indicate the owner of the land, since the total land holding might include other land tenure systems at the time of enumeration.

The population in agricultural households is composed of agricultural and non-agricultural holders residing within the agricultural households. As the data in Summary Table IV.2 depicts, the total population in agricultural households in the region were estimated to be about 149,591. The results also indicate that out of the total population in agricultural households, 32,767 were agricultural holders found in 31,332 agricultural households that have reported land holding. As shown in Summary Table IV.2, about 48.9% of agricultural households reported to have an estimated land area size between 0.10 and 0.50 hectare. 21.7% of agricultural households who reported to have an area size ranging from 0.51 to 1.00 hectare and about 11.4% to have a land area size that fall between 1.01 to 2.00 hectares follows this. The data also indicated that the average household size for the region was estimated to be 4.77 persons or 477 members per 100 agricultural households. Furthermore, the largest average household size (7.83 persons) was reported for those households with an average area size of holding of 5.01 to 10.00 hectares. Hence, the census results show that as size of land holdings increases, the average household size also increases (See Summary Table IV.2 and Figure IV.2).

In the rural areas of the region, the total (139,919) population is reported to be in 29,725 agricultural households. About 49.5 percent of the agricultural households are operating on the land area size that ranges from 0.10 to 0.50 hectare. Few numbers of households (3.1%) are reported to operate on an average land holding of 2.01 to 5.00 hectares. As can be observed in Summary Table IV.2, as the land area size increases the average household size also increases. Also the average household size in the rural area is estimated to be 4.71 persons.

The contribution of urban areas to the total agricultural households and population in agricultural households is estimated to be 5.1% and 6.5%, respectively. Unlike the rural area, about 40.0% of urban agricultural households are reported to operate on land area size of under 0.10 hectare. Furthermore, the average household size of urban area is 6.02 persons which is higher than that reported in the rural areas (See Summary Table IV.2).

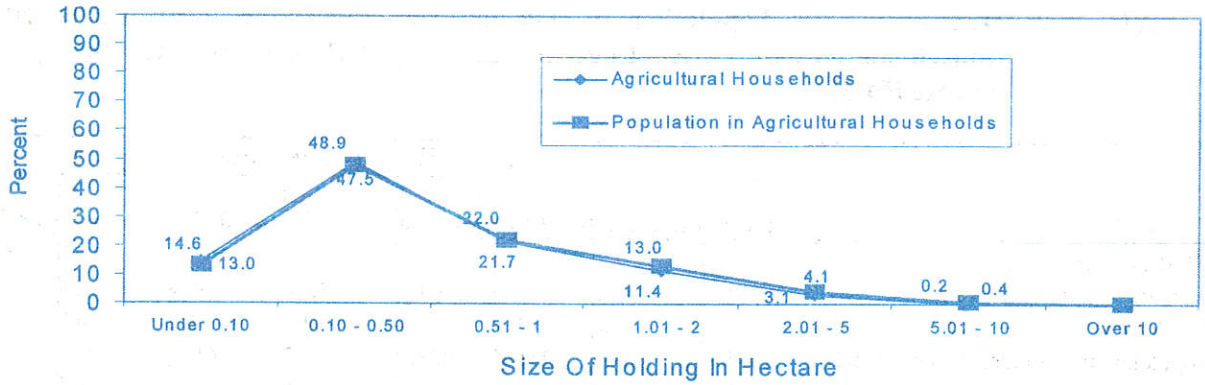
Table IV.2: Distribution Of Population In Agricultural Households And Agricultural Households By Size Of Holdings In Rural And Urban Areas And Zones, For Private Holdings

Items	Size of Holding (Hectares)							
	All Holdings	Under 0.1	0.1-0.50	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	over 10
RURAL + URBAN								
Agricultural households.....	31332	4585	15308	6806	3576	979	75	*
Percent..	100	14.6	48.9	21.7	11.4	3.1	0.2	*
Population in Agricultural Households	149591	19432	71121	32850	19378	6198	587	*
Percent..	100	13.0	47.5	22.0	13.0	4.1	0.4	*
Average members per household ...	4.77	4.24	4.65	4.83	5.42	6.33	7.83	*
RURAL								
Agricultural households.....	29725	3943	14711	6657	3455	913	*	0
Percent..	94.9	13.3	49.5	22.4	11.6	3.1	*	0.0
Population in Agricultural Households	139919	15459	67878	31937	18411	5831	*	0
Percent..	93.5	11.1	48.5	22.8	13.2	4.2	*	0.0
Average members per household ...	4.71	3.92	4.61	4.80	5.33	6.39	*	-
URBAN								
Agricultural households.....	1607	642	596	149	122	66	29	*
Percent..	5.1	40.0	37.1	9.3	7.6	4.1	1.8	*
Population in Agricultural Households	9672	3973	3243	913	966	367	184	*
Percent..	6.5	41.1	33.5	9.4	10.0	3.8	1.9	*
Average members per household ...	6.02	6.19	5.44	6.13	7.92	5.56	6.34	*
ZONE 1								
Agricultural households.....	12682	2080	8473	1716	383	30	0	0
Percent..	40.5	16.4	66.8	13.5	3.0	0.2	0.0	0.0
Population in Agricultural Households	65491	9519	43214	9863	2696	*	0	0
Percent..	43.8	14.5	66.0	15.1	4.1	*	0.0	0.0
Average members per household ...	5.16	4.58	5.1	5.75	7.04	*	-	-
ZONE 2								
Agricultural households.....	18650	2505	6834	5089	3193	949	75	*
Percent..	59.5	13.4	36.6	27.3	17.1	5.1	0.4	*
Population in Agricultural Households	84100	9913	27907	22987	16682	5999	587	*
Percent..	56.2	11.8	33.2	27.3	19.8	7.1	0.7	*
Average members per household ...	4.51	3.96	4.08	4.52	5.22	6.32	7.83	*

Note: *In the urban areas, the number of agricultural households, holders and all members presented in Chapter III are considered as agricultural households whether they have or do not have land holdings. Whereas in this chapter the number of*

agricultural households are those who reported to have land holdings. Due to these reason estimates of agricultural households, holders and all members are slightly different in these two chapters.

Figure IV.2: Percentage Distribution Of Population In Agricultural Households And Households By Size Of Holdings, For Private Holding



As the data in Summary Table IV.2 shows, the average household size in Zone-1 is higher than those in Zone-2 of Gambella Region. The relationship between the average household sizes across different size of land holding is almost similar in both zones of the region. That is, as the area size increases the average household size also increases.

4. LAND AREA AND FRAGMENTATION BY TYPE OF LAND USE AND SIZE OF HOLDING

Land area is referred to area under all private holdings. In general, the total area of a holding consists of land in the following classifications:

i. Agricultural land (that includes land under temporary as well as permanent crops, fallow land and grazing land)

ii. Woodland or forest

iii. All other land, which is, unused and undeveloped potentially productive land, homestead, …etc.

On the other hand, land fragmentation is the breaking down of land holdings into parts with some distance apart from one another. Land fragmentation is measured by the number of

parcels that are reported in the total land holdings of a holder. In general, a parcel of a holding is any pieces of land entirely surrounded by other land, water, road, forest or other boundaries that are not part of the holding.

4.1. Land Area By Type Of Land Use

As presented in Summary Table IV.3, the total land holding area under different land uses was estimated to be about 17,190 hectares, in the region. This area is composed of 94.7% of the rural holdings and 5.3% of the urban holdings. Of this land, area under temporary crop accounted for 9,827 hectares (57.2%); land under permanent crops estimated to be 3,766 hectares (21.9%); grazing land amount to be 174 hectares (1.0%); fallow land is reported to be 2,905 hectares (16.9%); woodland amounted to be 64 hectares (0.4%) and land for other uses is estimated to be 454 hectares (2.6%).

The census result indicated that out of the total estimated holders (32,767) almost all (30,070) used their holding for other land purposes which is followed by 29,159 holders who had used their holding to cultivate temporary crops. It was also reported that 18,695 holders used their land for cultivating permanent crops and 13,192 holders left their land as fallow during the census year. On the other hand, number of holders reported woodland and grazing account for about 1,569 and 1,115, respectively. In general, the regional average size of land holding per holder was estimated to be 0.52 hectare. The result also shows that the highest average size of land holding area per holder is for the cultivation of temporary crops, which was estimated at 0.34 hectare and followed by fallow land, which is about 0.22 hectare. (For details, refer to Summary Table IV.3 and Figure IV.3).

In rural private holdings, the total land area under different land uses was estimated to be 16,281 hectares contributing 94.7% to the regional total land area. Out of this total land area, the highest (57.7%) and lowest (0.4%) proportions of areas were used for cultivating temporary crops and as woodland, respectively. The average size of land holding was estimated to be 0.52 hectare per holder. Moreover, the highest average size of land holding per holder was reported as area under temporary crops (0.34 hectare), followed by land under fallow, which is about 0.22 hectare (See Summary Table IV.3).

Summary Table IV.3. Distribution of Area and Holders by Type of Land Use in Rural And Urban Areas And Zones, For Private Holdings

Items	Land Area Under						
	Total Number	Temporary Crops	Permanent Crops	Grazing	Fallow Land	Woodland	Other Land
RURAL + URBAN							
Area in hectares(ha)	17190	9827	3766	174	2905	64	454
Percent..	100	57.2	21.9	1.0	16.9	0.4	2.6
All parcels	79935	47073	30245	1339	15081	1736	35929
Holders reporting	32767	29159	18695	1115	13192	1569	30070
Average area per holder (ha)	0.52	0.34	0.2	0.16	0.22	0.04	0.02
Average parcels per holder	2	2	2	1	1	1	1
Average area per parcel (ha)	0.22	0.21	0.12	0.13	0.19	0.04	0.01
RURAL							
Area in hectares(ha)	16281	9395	3289	174	2905	64	454
Percent..	94.7	57.7	20.2	1.1	17.8	0.4	2.8
All parcels	76876	44901	29291	1339	15081	1736	35929
Holders reporting	31155	27766	18097	1115	13192	1569	30070
Average area per holder (ha)	0.52	0.34	0.18	0.16	0.22	0.04	0.02
Average parcels per holder	2	2	2	1	1	1	1
Average area per parcel (ha)	0.21	0.21	0.11	0.13	0.19	0.04	0.01
URBAN							
Area in hectares(ha)	909	431	477				
Percent..	5.3	47.4	52.5				
All parcels	3060	2173	954				
Holders reporting	1611	1393	597				
Average area per holder (ha)	0.56	0.31	0.8				
Average parcels per holder	2	2	2				
Average area per parcel (ha)	0.3	0.2	0.5				
ZONE 1							
Area in hectares(ha)	3971	2231	129	*	1467	1	143
Percent..	23.1	56.2	3.3	*	36.9	0.0	3.6
All parcels	33553	16635	6456	24	7221	102	15845
Holders reporting	13460	11565	4485	24	6239	102	11932
Average area per holder (ha)	0.3	0.19	0.03	*	0.24	0.01	0.01
Average parcels per holder	2	1	1	1	1	1	1
Average area per parcel (ha)	0.12	0.13	0.02	*	0.2	0.01	0.01
ZONE 2							
Area in hectares(ha)	13219	7596	3637	174	1438	63	312
Percent..	76.9	57.5	27.5	1.3	10.9	0.5	2.4
All parcels	46382	30439	23789	1315	7859	1634	20084
Holders reporting	19307	17594	14209	1090	6953	1467	18138
Average area per holder (ha)	0.68	0.43	0.26	0.16	0.21	0.04	0.02
Average parcels per holder	2	2	2	1	1	1	1
Average area per parcel (ha)	0.29	0.25	0.15	0.13	0.18	0.04	0.02

Note: *The number of holders and parcels that reported under land use classification are not mutually exclusive.*

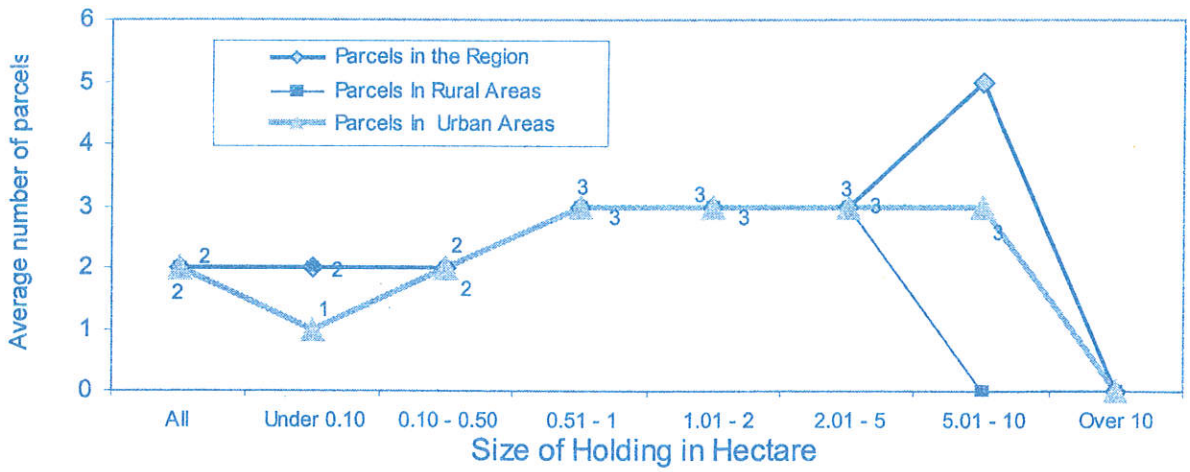
On the other hand, in urban private holdings, the total land area under both temporary and permanent crops was estimated to be 909 hectares contributing 5.3% to the regional total land area. Out of which temporary crops accounted for 431 (47.4%) hectares and permanent crops accounted for 477 (52.5%) hectares. From the census data one can observed that the majority of urban holders in Gambella Region tend to use most of their land for growing temporary crops (1,393), which is followed by permanent crops (597). In general, the average size of land area per holder was estimated to be 0.56 hectare. With regards to temporary and permanent crops, average size of land holding per holder was estimated to be 0.31 hectare and 0.8 hectare, respectively (See Summary Table IV.3).

Of the total land area recorded in Gambella Region, the largest area is contributed by Zone-2 (76.9%), followed by Zone-1 (23.1%). In both zones of the region, over 50 percent of land use was allotted to the cultivation of temporary crops. On the other hand, land under permanent crops and woodland were relatively larger in Zone-2 of Gambella Region than that reported in Zone-1. However, fallow land is more exercised in Zone-1 of the region. The average size of area per holder varies from 0.3 hectares in Zone-1 to 0.68 hectares in Zone-2.

4.2. Land Fragmentation By Size Of Holding

Providing information on land fragmentation is important to show how farmers waste their valuable working time, energy and other resources when the number of parcels is many and very far apart from one another. Taking this into consideration in the 2001/2002 EASE, data on number of parcels was collected for private holding in rural and urban areas of the region. Accordingly, the census result indicates that 79,935 parcels were estimated under the total land holdings in the region, which constituted 96.2% of rural holdings and 3.8% of urban holdings. Of this total parcels, the highest and smallest number of parcels or fragmentation of land are reported in area size of holding 0.10 to 0.50 hectare (48.3%) and 5.01 to 10 hectares (0.5%), respectively. Generally, temporary and permanent crops were cultivated on 47,073 parcels and 30,245 parcels, respectively. Moreover, grazing land, fallow land, woodland and land for other purpose were found on 1,339 parcels, 15,081 parcels, 1,736 parcels and 35,929 parcels, respectively. However, the number of parcels reported by land use categories is not mutually exclusive. The average size of land area per parcel and average number of parcels per holder were estimated to be about 0.22 hectare and two parcels, respectively (See Summary Table IV.3, Summary Table IV.4 and Figure IV.4).

Figure IV.4: Average Number Of Parcels By Size Of Holdings In Rural And Urban Areas, For Private Holdings



In rural areas, the average number of parcels per holder was estimated at two parcels and the average area per parcel was 0.21 hectare. On the other hand, in urban areas, the extent of land fragmentation is estimated and the average number of parcels per holder is found to be two while the average size of land area per parcel is 0.3 hectare. For details refer to Summary Table IV.4.

The census result reveals that the highest number of parcels or land fragmentation was observed in Zone-2, followed by Zone-1 with corresponding estimated number of 46,382 (58.0%) parcels and 33,553 (42.0%) parcels, respectively. In both zones of the region the average number of parcels per holder were estimated to be two parcels (See Summary Table IV.3).

Summary Table IV.4. Distribution Of Parcels By Size Of Holdings In Rural And Urban Areas, For Private Holdings

Items	All Number	Size of holding in hectare						
		Under 0.1	0.1-0.50	0.51-1.00	1.01-2.00	2.01-5.0	5.01-10	over 10
RURAL + URBAN								
All parcels	79935	8192	38632	18804	10636	3249	385	*
Percent..	100	10.3	48.3	23.5	13.3	4.1	0.5	*
All holders	32767	5338	16051	6795	3548	956	75	*
All area in hectare	17190	246	4279	4794	4771	2572	482	*
Average parcels per holder	2	2	2	3	3	3	5	*
Average area per parcels	0.22	0.03	0.11	0.25	0.45	0.79	1.25	*
RURAL								
All parcels	76876	7353	37495	18357	10322	3046	*	0
Percent..	96.2	9.6	48.8	23.9	13.4	4.0	*	0.0
All holders	31155	4696	15455	6642	3426	889	*	0
All area in hectare	16281	217	4123	4679	4599	2371	292	0
Average parcels per holder..	2	2	2	3	3	3	*	-
Average area per parcels	0.21	0.03	0.11	0.25	0.45	0.78	*	-
URBAN								
All parcels	3060	838	1137	448	314	203	83	*
Percent..	3.8	27.4	37.2	14.6	10.3	6.6	2.7	*
All holders	1611	642	596	153	122	66	29	*
All area in hectare	909	29	156	115	172	201	191	*
Average parcels per holder..	2	1	2	3	3	3	3	*
Average area per parcels	0.3	0.03	0.14	0.26	0.55	0.99	2.3	*

5. CROPLAND AREA BY CROP CATEGORIES

The 2001/02 (1994 E.C.) Agricultural Sample Enumeration covered the area under temporary and permanent crops in Meher/main and Belg seasons. In general, cropland area is described as part of the total land area, which comprises land under temporary and permanent crops.

5.1. Cropland Area Under Meher/Main Season

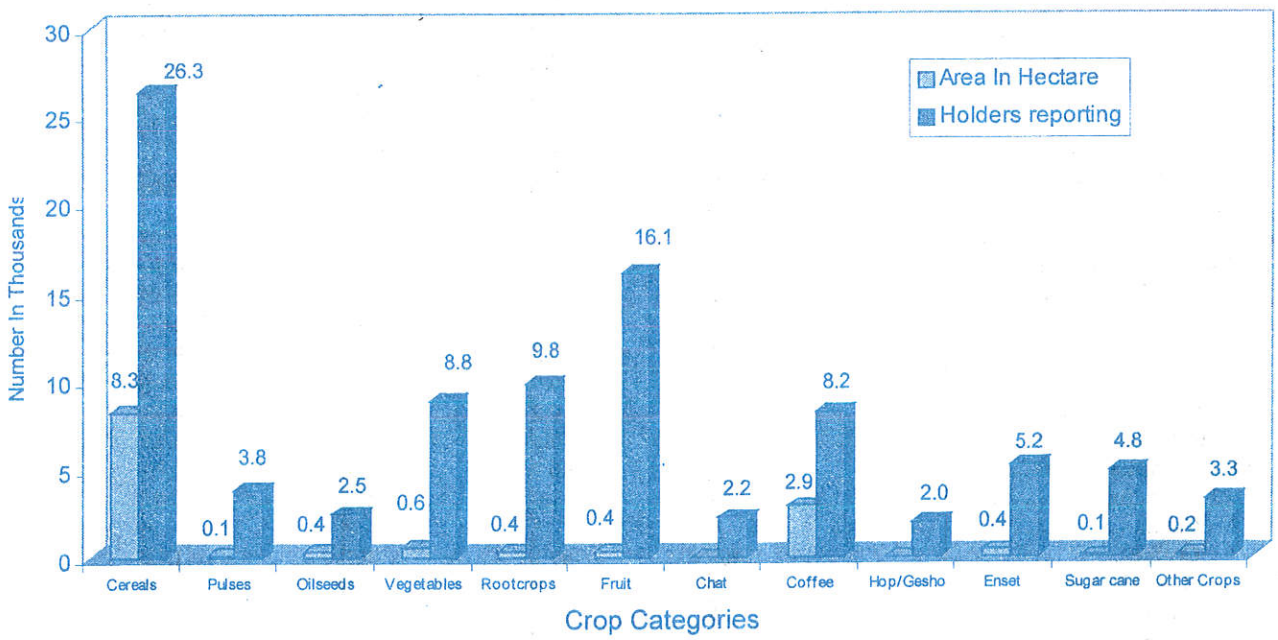
The data in Summary Table IV.5 illustrates that the total cropland area for Meher/ main season in the region was estimated to be 13,592 hectares, which consisted of 93.3% in rural and 6.7% in urban areas of private holdings. Out of the total cropland, area under temporary crops accounted to 72.3% and the remaining was the share of permanent crops. Considering the area under temporary crops, cereals, followed by vegetables, which accounted for 84.0% and 5.8%, respectively, covered the highest proportion. Of all the area under permanent crops, coffee crops took the largest area, which account for 2,874 hectares (76.3%) and the smallest was area under other permanent crops, which covered about 4 hectares (0.1%). Among the total holders in the region who grows temporary crops (29,159), the largest number of holders (26,276) was cultivating cereals followed by holders (9,849) producing root crops. Similarly, among all holders (18,692) that are involved in growing permanent crops, the highest number (16,103) are growing fruit crops while the lowest number of holders (1,317) are cultivating other permanent crops. The overall average cropland area per holder in the region was estimated to be 0.44 hectare while area under temporary and permanent was estimated to be 0.34 hectare and 0.2 hectare, respectively. (See Summary Table IV.5 and Figure IV.5).

In rural areas, temporary and permanent crops contribute about 74.1% and 25.9%, for private holdings, respectively. Out of the total area under temporary crops, the largest cultivated area was under cereal crops, followed by vegetables, which contribute about 7877 hectares (83.8%) and 562 hectares (6.0%), respectively. The numbers of holders producing these crops were estimated to be about 24,925 and 8,790 with corresponding average size of land area per holder of about 0.32 hectare and 0.06 hectare, respectively. (For details, refer to Summary Table IV.5).

In urban areas, the total cropland area is estimated to be 909 hectares, of which temporary crops and permanent crops accounted for 47.6% and 52.4%, for private holdings, respectively. Considering the total areas under temporary crops, cereals accounted for 377 hectares (87.3%) and the corresponding holders that cultivated cereal crops are estimated to be 1,351. Among land under permanent crops, coffee crops took the highest cultivated area i.e., 462 hectares (97.1%) and operated by 407 holders (See Summary Table IV.5).

The highest average area under temporary crops was reported as 0.43 hectares per holder in Zone-2, followed by Zone-1, which was 0.19 hectare per holder. The largest permanent cropland area was also estimated in Zone-2, followed by Zone-1, which are estimated as 3,637 hectares and 128 hectares, respectively. Out of the total areas under permanent crops in Zone-2, coffee crops covered about 79.0% of the area, followed by Enset that covered an area of 393 (10.8%) hectares.

Figure IV.5: Distribution of Cropland Area And Holders By Crop Categories For Private Holdings, Meher Season



Summary Table IV.5. Distribution Of Cropland Area And Holders By Crop Categories In Rural And Urban Areas And Zones, For Private Holdings

Crop Categories	Area in Hectare		Holders Reporting	Average Area per Holder(in Hectare)
	Number	Percent		
RURAL + URBAN				
All cropland	13592		30800	0.44
All temporary crops	9827	100.0	29159	0.34
Cereals	8254	84.0	26276	0.31
Pulses	117	1.2	3801	0.03
Oilseeds	367	3.7	2457	0.15
Vegetables	565	5.8	8840	0.06
Root crops	367	3.7	9849	0.04
Other temporary	156	1.6	3261	0.05
All permanent crops	3765	100.0	18692	0.2
Fruit crops	370	9.8	16103	0.02
Chat	38	1.0	2242	0.02
Coffee	2874	76.3	8201	0.35
Hops (Gesho)	14	0.4	1993	0.01
Enset	393	10.4	5171	0.08
Sugar cane	73	1.9	4841	0.02
Other permanent	4	0.1	1317	0.00
RURAL				
All cropland	12684		29188	0.43
All temporary crops	9395	100.0	27766	0.34
Cereals	7877	83.8	24925	0.32
Pulses	116	1.2	3789	0.03
Oilseeds	345	3.7	2265	0.15
Vegetables	562	6.0	8790	0.06
Root crops	363	3.9	9798	0.04
Other temporary	132	1.4	3166	0.04
All permanent crops	3289	100.0	18097	0.18
Fruit crops	361	11.0	15838	0.02
Chat	37	1.1	2234	0.02
Coffee	2411	73.3	7794	0.31
Hops (Gesho)	14	0.4	1986	0.01
Enset	393	12.0	5158	0.08
Sugar cane	68	2.1	4814	0.01
Other permanent	4	0.1	1317	0.00
URBAN				
All cropland	909		1611	0.56
All temporary crops	432	100.0	1393	0.31
Cereals	377	87.3	1351	0.28
Pulses	1	0.2	13	0.08
Oilseeds	23	5.3	192	0.12
Vegetables	4	0.9	51	0.08
Root crops	4	0.9	52	0.08
Other temporary	24	5.6	95	0.25
All permanent crops	476	100.0	595	0.80
Fruit crops	9	1.9	266	0.03
Chat	*	*	*	*
Coffee	462	97.1	407	1.14
Hops(Gesho)	*	*	*	*
Enset	*	*	*	*
Sugar cane	5	1.1	27	0.19
Other permanent	0	0.0	0	-

Summary Table IV.5 (continued)

Crop Categories	Area in Hectare		Holders Reporting	Average Area per Holder(in Hectare)
	Number	Percent		
ZONE 1				
All cropland	2360		12131	0.19
All temporary crops	2232	100.0	11565	0.19
Cereals	2040	91.4	10691	0.19
Pulses	47	2.1	1305	0.04
Oilseeds	34	1.5	437	0.08
Vegetables	31	1.4	861	0.04
Root crops	72	3.2	1924	0.04
Other temporary	7	0.3	447	0.02
All permanent crops	128	100.0	4483	0.03
Fruit crops	126	98.4	4459	0.03
Chat	0	0.0	0	-
Coffee	*	*	*	*
Hops (Gesho)	0	0.0	0	-
Enset	0	0.0	0	-
Sugar cane	1	0.8	212	0.00
Other permanent	1	0.8	23	0.04
ZONE 2				
All cropland	11233		18669	0.60
All temporary crops	7596	100.0	17594	0.43
Cereals	6213	81.8	15585	0.40
Pulses	70	0.9	2497	0.03
Oilseeds	334	4.4	2020	0.17
Vegetables	534	7.0	7980	0.07
Root crops	295	3.9	7926	0.04
Other temporary	149	2.0	2813	0.05
All permanent crops	3637	100.0	14209	0.26
Fruit crops	244	6.7	11644	0.02
Chat	0	0.0	0	-
Coffee	2874	79.0	8197	0.35
Hops (Gesho)	14	0.4	1993	0.01
Enset	393	10.8	5171	0.08
Sugar cane	72	2.0	4629	0.02
Other permanent	3	0.1	1294	0.00

Note: Holders that reported by crop categories are not mutually exclusive.

5.2. Cropland Area Under Belg Season

The census result indicated that in the rural private holdings about 2,987 hectares of land was cultivated under temporary crops during Belg season and the estimated total number of holders practicing Belg season crops were found to be 14,474. Of the total temporary cropland area, cereals took the highest share of the cultivated area (93.2%). The overall average area per holder during Belg season was estimated at 0.21 hectare (See Summary Table IV.6).

Summary Table IV.6: Area Under Crop Categories And Number Of Holders- Belg season

Type of Crop Categories	Area in Hectare		Holders reporting	Average area per holder
	Number	%		
RURAL				
All temporary crops	2987	100.0	14474	0.21
Cereals	2783	93.2	14378	0.19
Pulses	108	3.6	2848	0.04
Oilseeds	21	0.7	97	0.22
Vegetables	49	1.6	1944	0.03
Root crops	16	0.5	702	0.02
Other temporary crops	10	0.3	326	0.03

***Note**: Data users should not attempt to sum up cropland area under Belg season to the total land use area since the Belg season cropland area is part of the total land use area. However, providing Belg season information in this section is to show only how the holders shift the Meher/main season cropland area, fallow land and/or any other land into Belg season. On the other hand, data on Belg season crops of the urban area was not covered in the census.*

6. AREA UNDER LAND TENURE SYTEMS

Land tenure refers to the arrangements or rights under which the holder uses or owns the land of the holding. In this Agricultural Sample Census, tenure system is classified into three categories. The first is land owned or held in owner like possession having recognition from local government/ Kebele; the second is land rented from other person either in cash or proper share of the produce or other rental agreement and the third is land possession in other forms (neither owned nor rented such as land given temporarily to others without any rental agreement or any other means). Based on this concept, data on land tenure systems was collected and the result indicates that of the total land area (17,190 hectares), land owned by the operators accounted for 16,078 hectares (93.5%), land rented from other person accounted for 626 hectares (3.6%) and land obtained from other system was estimated to be 486 hectares (2.8%) in the region. Of the total holders (32,767) in the region, 32,239 holders owned the land they operated, while 2,793 holders operated the land by rental agreement and 2,282 holders used the land in other system of tenure. The average

size of area per holder by type of tenure is estimated to be 0.5 hectare (for land owned), 0.22 hectare (for rented land) and 0.21 hectare (other tenure). (Refer Summary Table IV.7 and Figure IV.6).

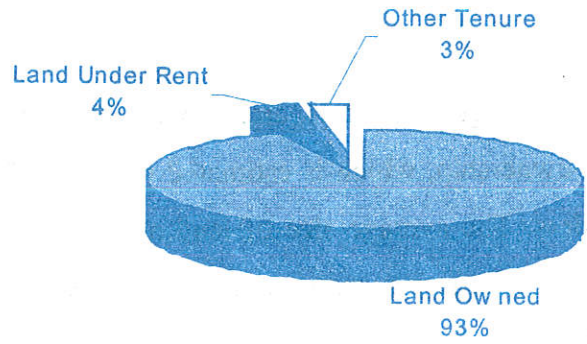
Similarly in rural private holdings, of the total area (16,281 hectares), most of land area was accounted to the title of ownership, which is estimated to be 15,277 hectares (93.8%) and operated by 30,734 holders. The average size of land area per holder under land owned, land rented and land for other tenure system are 0.50, 0.21 and 0.20 hectares, respectively (See Summary Table IV.7).

Summary Table IV.7: Distribution of Land Area and Holders by Tenure Systems In Rural And Urban Areas and Zones, For Private Holdings

Items	All Number	Type of Land Tenure Systems		
		Land Owned	Land Rented	Other Tenure
RURAL + URBAN				
All area in hectare	17190	16078	626	486
Percent	100	93.5	3.6	2.8
All holder	32767	32239	2793	2282
Average area per holder	0.52	0.5	0.22	0.21
RURAL				
All area in hectare	16281	15277	564	440
Percent	94.7	93.8	3.5	2.7
All holder	31155	30734	2678	2180
Average area per holder	0.52	0.5	0.21	0.2
URBAN				
All area in hectare	909	801	62	46
Percent	5.3	88.1	6.8	5.1
All holder	1611	1505	115	102
Average area per holder	0.56	0.53	0.54	0.45
ZONE 1				
All area in hectare	3971	3897	68	7
Percent	23.1	98.1	1.7	0.2
All holder	13460	13361	490	163
Average area per	0.3	0.29	0.14	0.04
ZONE 2				
All area in hectare	13219	12181	559	479
Percent	76.9	92.2	4.2	3.6
All holder	19307	18878	2303	2119
Average area per holder	0.68	0.65	0.24	0.23

Note: *Holders that reported different type of land tenure systems should not be summed up to get the total number of holders since these holders are not mutually exclusive in each tenure systems.*

Figure IV.6: Percentage Distribution Of Total Area By Tenure Systems, For Private Holdings



In urban private holdings, the tenure system is different in which the proportion of land owned is 88.1% and that of rented land is 6.8%. On the other hand, the average size of land holding by type of tenure is estimated to be about 0.53 hectare, 0.54 hectare and 0.45 hectare per holder for land owned, land under rent and land under other tenure system, respectively. In urban areas the average size of rented land area per holder (0.54 hectare) is a good deal higher than that reported in rural areas (0.21 hectare) (See Summary Table IV.7).

Summary Table IV.7 also presents the distribution of land tenure systems for the zones. As indicated in the table, in both zones the proportion of owned land was the highest, followed by rented land. The proportion of rented land in Zone-2 was 559 hectares (89.3% of regional rented land area) and this percentage was relatively much higher compared to the other zone.

STATISTICAL TABLES PRESENTING RESULTS AT ZONE AND WEREDA LEVELS

Tables 4.1 – 4.56

TABLE 4.1 NUMBER OF AGRICULTURAL HOLDERS BY TYPE AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

TYPE OF HOLDING	All Number	Number of holders by size of holdings (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
All	32767	5338	16051	6795	3548	956	75	*
Crop Only	8111	1967	4031	1452	558	94	*	-
Livestock Only	1967	782	1097	74	*	-	-	-
Crop and Livestock	22689	2588	10924	5269	2975	862	67	*

TABLE 4.1.1 RURAL HOLDINGS

TYPE OF HOLDING	All Number	Number of holders by size of holdings (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
All	31155	4696	15455	6642	3426	889	*	-
Crop Only	7731	1849	3868	1413	547	54	-	-
Livestock Only	1967	782	1097	74	*	-	-	-
Crop and Livestock	21457	2065	10490	5155	2865	836	*	-

TABLE 4.1.2 URBAN HOLDINGS

TYPE OF HOLDING	All Number	Number of holders by size of holdings (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
All	1611	642	596	153	122	66	29	*
Crop Only	380	118	163	39	11	41	*	-
Crop and Livestock	1231	524	433	114	110	26	20	*

TABLE 4.2 NUMBER OF AGRICULTURAL HOLDERS UNDER ALL HOLDINGS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	All Number	Number of holders under all holdings by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 – 2.00	2.01 – 5.00	5.01 - 10	Over 10
Gambella Region	32767	5338	16051	6795	3548	956	75	*
Zone 1	13460	2533	8930	1602	378	16	-	-
Jikawo	6287	668	4808	691	121	-	-	-
Itang	4170	827	2531	582	223	*	-	-
Gambella	3003	1038	1591	330	34	*	-	-
Zone 2	19307	2805	7121	5193	3170	940	75	*
Abobo	3785	*	1175	984	747	242	*	-
Jor	1146	136	592	301	*	*	-	-
Gog	2930	565	1318	619	319	108	-	-
Godare	11441	1470	4035	3288	1998	580	67	*
Dima	5	4	1	-	-	-	-	-

TABLE 4.2.1 RURAL HOLDINGS

Geographic Area	All Number	Number of holders under all holdings by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 – 2.00	2.01 – 5.00	5.01 - 10	Over 10
Gambella Region	31155	4696	15455	6642	3426	889	*	-
Zone 1	12520	2077	8547	1555	330	*	-	-
Jikawo	6287	668	4808	691	121	-	-	-
Itang	3760	675	2314	569	196	*	-	-
Gambella	2472	734	1425	296	*	*	-	-
Zone 2	18635	2620	6907	5087	3096	879	*	-
Abobo	3785	*	1175	984	747	242	*	-
Jor	1146	136	592	301	*	*	-	-
Gog	2734	492	1205	610	319	108	-	-
Godare	10970	1362	3936	3192	1924	519	*	-
Dima*	-	-	-	-	-	-	-	-

* = Residents of rural Dima Wereda are mostly involved in non-agricultural activities, hence, values for the Wereda are left empty in this and the rest of rural tables.

TABLE 4.2.2 URBAN HOLDINGS

Geographic Area	All Number	Number of holders under all holdings by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	1611	642	596	153	122	66	29	*
Zone 1	940	457	382	47	48	6	-	-
Itang	410	152	217	*	*	-	-	-
Gambella	530	305	165	34	21	6	-	-
Zone 2	672	185	214	106	74	61	29	*
Gog	196	73	113	*	-	-	-	-
Godare	471	108	100	96	74	61	29	*
Dima	5	4	1	-	-	-	-	-

TABLE 4.3 NUMBER OF AGRICULTURAL HOLDERS UNDER CROP HOLDING BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	All Number	Number of holders under crop only holdings by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 – 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	8111	1967	4031	1452	558	94	*	-
Zone 1	2769	784	1735	231	*	3	-	-
Jikawo	653	136	472	*	-	-	-	-
Itang	1012	298	619	80	*	-	-	-
Gambella	1103	350	644	106	-	3	-	-
Zone 2	5342	1184	2296	1221	542	91	*	-
Abobo	1375	*	512	322	253	45	-	-
Jor	279	56	152	46	*	-	-	-
Gog	873	235	371	185	72	*	-	-
Godare	2814	648	1261	668	192	37	*	-
Dima	1	1	-	-	-	-	-	-

TABLE 4.3.1 RURAL HOLDINGS

Geographic Area	All Number	Number of holders under crop only holdings by size of holding (In hectares)						
		Under 0.10	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	7731	1849	3868	1413	547	54	-	-
Zone 1	2623	712	1672	224	*	-	-	-
Jikawo	653	136	472	*	-	-	-	-
Itang	958	277	585	80	*	-	-	-
Gambella	1012	298	615	99	-	-	-	-
Zone 2	5108	1138	2196	1190	531	54	-	-
Abobo	1375	*	512	322	253	45	-	-
Jor	279	56	152	46	*	-	-	-
Gog	790	208	316	185	72	*	-	-
Godare	2664	630	1216	637	181	-	-	-
Dima*	-	-	-	-	-	-	-	-

TABLE 4.3.2 URBAN HOLDINGS

Geographic Area	All Number	Number of holders under crop only holdings by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	380	118	163	39	11	41	*	-
Zone 1	146	72	63	*	-	3	-	-
Itang	54	*	34	-	-	-	-	-
Gambella	92	52	29	*	-	3	-	-
Zone 2	235	46	100	31	11	37	*	-
Gog	83	27	55	-	-	-	-	-
Godare	151	18	45	31	11	37	*	-
Dima	1	1	-	-	-	-	-	-

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TABLE 4. 4 NUMBER OF AGRICULTURAL HOLDERS UNDER LIVESTOCK HOLDING BY GEOGRAPHIC AREA AND SIZE OF HOLDING

RURAL HOLDINGS

Geographic Area	All Number	Number of holders under Livestock only holdings By size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 – 5.00	5.01 - 10	Over 10
Gambella Region	1967	782	1097	74	*	-	-	-
Zone 1	1329	477	788	*	*	-	-	-
Jikawo	1012	255	716	*	-	-	-	-
Itang	85	34	34	*	*	-	-	-
Gambella	232	188	37	*	-	-	-	-
Zone 2	638	305	309	*	*	-	-	-
Abobo	49	34	*	*	-	-	-	-
Jor	133	*	82	*	-	-	-	-
Gog	260	88	164	-	*	-	-	-
Godare	196	143	*	-	-	-	-	-
Dima*	-	-	-	-	-	-	-	-

TABLE 4.5 NUMBER OF AGRICULTURAL HOLDERS UNDER CROP AND LIVESTOCK HOLDINGS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	All Number	Number of holders under Crop and Livestock holdings by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 – 5.00	5.01 - 10	Over 10
Gambella Region	22689	2588	10924	5269	2975	862	67	*
Zone 1	9362	1273	6407	1313	356	*	-	-
Jikawo	4622	276	3620	605	121	-	-	-
Itang	3073	496	1878	492	201	*	-	-
Gambella	1667	501	910	216	34	*	-	-
Zone 2	13327	1316	4516	3956	2619	849	67	*
Abobo	2362	*	652	658	494	197	*	-
Jor	733	40	358	244	*	*	-	-
Gog	1797	242	783	435	238	99	-	-
Godare	8431	679	2722	2620	1806	542	59	*
Dima	4	3	1	-	-	-	-	-

TABLE 4.5.1 RURAL HOLDINGS

Geographic Area	All Number	Number of holders under Crop and Livestock holdings by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 – 5.00	5.01 - 10	Over 10
Gambella	21457	2065	10490	5155	2865	836	*	-
Zone 1	8568	888	6088	1274	308	*	-	-
Jikawo	4622	276	3620	605	121	-	-	-
Itang	2717	364	1695	478	174	*	-	-
Gambella	1229	248	773	190	*	*	-	-
Zone 2	12890	1176	4403	3882	2557	825	*	-
Abobo	2362	*	652	658	494	197	*	-
Jor	733	40	358	244	*	*	-	-
Gog	1684	197	725	425	238	99	-	-
Godare	8111	588	2667	2555	1743	519	*	-
Dima*	-	-	-	-	-	-	-	-

TABLE 4.5.2 URBAN HOLDINGS

Geographic Area	All Number	Number of holders under Crop and Livestock holdings by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella	1231	524	433	114	110	26	20	*
Zone 1	794	385	320	40	48	*	-	-
Itang	356	132	183	*	*	-	-	-
Gambella	438	253	136	26	21	*	-	-
Zone 2	437	139	114	75	62	23	20	*
Gog	113	46	58	*	-	-	-	-
Godare	320	91	55	65	62	23	20	*
Dima	4	3	1	-	-	-	-	-

TABLE 4.6 NUMBER OF AGRICULTURAL HOUSEHOLD MEMBERS AND AGRICULTURAL HOUSEHOLDS BY SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Size of Holdings	All		Number of Households				
	Number of Members	Number of Household s	Households with One Member	Households with 2-3 Members	Households with 4-5 Members	Households with 6-9 Members	Households with 10 or More Members
All Holdings	149591	31332	1827	8287	10813	9086	1319
Under 0.10 Hectare	19432	4585	487	1581	1378	912	227
0.10 – 0.50 Hectare	71121	15308	973	4111	5435	4262	527
0.51 – 1.00 Hectare	32850	6806	237	1759	2530	2073	206
1.01 – 2.00 Hectares.....	19378	3576	101	698	1192	1396	189
2.01 – 5.00 Hectares.....	6198	979	*	138	253	403	157
5.01 – 10.00 Hectares....	587	75	-	-	26	35	*
Over 10 Hectares.....	*	*	-	-	-	*	-

TABLE 4.6.1 RURAL HOLDINGS

Size of Holdings	All		Number of Households				
	Number of Members	Number of Household s	Households with One Member	Households with 2-3 Members	Households with 4-5 Members	Households with 6-9 Members	Households with 10 or More Members
All Holdings	139919	29725	1779	7941	10340	8618	1047
Under 0.10 Hectare	15459	3943	472	1447	1169	767	88
0.10 – 0.50 Hectare	67878	14711	951	3970	5249	4083	458
0.51 – 1.00 Hectare	31937	6657	228	1725	2508	2013	182
1.01 – 2.00 Hectares	18411	3455	101	683	1158	1356	156
2.01 – 5.00 Hectares	5831	913	*	116	241	380	148
5.01 – 10.00 Hectares	*	*	-	-	*	*	*
Over 10 Hectares	-	-	-	-	-	-	-

TABLE 4.6.2 URBAN HOLDINGS

Size of Holdings	All		Number of Households				
	Number of Members	Number of Household s	Households with One Member	Households with 2-3 Members	Households with 4-5 Members	Households with 6-9 Members	Households with 10 or More Members
All Holdings	9672	1607	48	346	473	467	273
Under 0.10 Hectare	3973	642	*	134	208	146	139
0.10 – 0.50 Hectare	3243	596	23	140	185	180	68
0.51 – 1.00 Hectare	913	149	*	35	21	60	*
1.01 – 2.00 Hectares	966	122	-	15	34	39	*
2.01 – 5.00 Hectares	367	66	1	22	12	22	*
5.01 – 10.00 Hectares	184	29	-	-	*	17	-
Over 10 Hectares	*	*	-	-	-	*	-

TABLE 4.7 POPULATION IN AGRICULTURAL HOUSEHOLDS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	All Members	Population in Agricultural Households by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella	149591	19432	71121	32850	19378	6198	587	*
Zone 1	65491	9519	43214	9863	2696	*	-	-
Jikawo	32254	2300	24591	4440	774	*	-	-
Itang	19525	2708	11599	3551	1654	*	-	-
Gambella	13712	4512	7024	1872	268	*	-	-
Zone 2	84100	9913	27907	22987	16682	5999	587	*
Abobo	16477	*	4321	4073	3346	1459	*	-
Jor	4946	312	2520	1422	*	*	-	-
Gog	15329	2716	6489	3430	2027	667	-	-
Godare	47330	3634	14573	14062	10658	3833	543	*
Dima	19	15	4	-	-	-	-	-

TABLE 4.7.1 RURAL HOLDINGS

Geographic Area	All Members	Number of Members By size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	139919	15459	67878	31937	18411	5831	*	-
Zone 1	59144	6493	40927	9452	2098	*	-	-
Jikawo	32254	2300	24591	4440	774	*	-	-
Itang	16568	1809	10149	3348	1249	*	-	-
Gambella	10322	2384	6187	1664	*	*	-	-
Zone 2	80775	8966	26951	22484	16314	5657	*	-
Abobo	16477	*	4321	4073	3346	1459	*	-
Jor	4946	312	2520	1422	*	*	-	-
Gog	14232	2280	5899	3359	2027	667	-	-
Godare	45120	3138	14211	13631	10290	3491	*	-
Dima*	-	-	-	-	-	-	-	-

TABLE 4.7.2 URBAN HOLDINGS

Geographic Area	All Number	Number of members by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10.
Gambella Region	9672	3973	3243	913	966	367	184	*
Zone 1	6346	3026	2287	*	*	*	-	-
Itang	2956	898	1451	*	*	-	-	-
Gambella	3390	2128	836	208	193	*	-	-
Zone 2	3325	947	956	502	369	342	184	*
Gog	1096	436	590	*	-	-	-	-
Godare	2210	496	362	432	369	342	184	*
Dima	19	15	4	-	-	-	-	-

TABLE 4.8 NUMBER OF AGRICULTURAL HOUSEHOLDS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	All Households	Number of All Households by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 – 1.00	1.01 - 2.00	2.01 – 2.00	5.01 - 10	Over 10
Gambella Region	31332	4585	15308	6806	3576	979	75	*
Zone 1	12682	2080	8473	1716	383	30	-	-
Jikawo	6051	568	4624	737	107	*	-	-
Itang	3775	574	2333	624	238	*	-	-
Gambella	2856	938	1516	355	37	*	-	-
Zone 2	18650	2505	6834	5089	3193	949	75	*
Abobo	3686	*	1104	977	728	251	*	-
Jor	1132	129	585	301	*	*	-	-
Gog	2900	552	1301	619	319	108	-	-
Godare	10927	1202	3843	3191	2041	580	67	*
Dima	5	4	1	-	-	-	-	-

TABLE 4.8.1 RURAL HOLDINGS

Geographic Area	All Households	Number of All Households by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	29725	3943	14711	6657	3455	913	*	-
Zone 1	11742	1623	8091	1669	335	*	-	-
Jikawo	6051	568	4624	737	107	*	-	-
Itang	3366	422	2116	610	211	*	-	-
Gambella	2326	633	1351	322	*	*	-	-
Zone 2	17982	2320	6620	4987	3120	889	*	-
Abobo	3686	*	1104	977	728	251	*	-
Jor	1132	129	585	301	*	*	-	-
Gog	2704	479	1188	610	319	108	-	-
Godare	10460	1094	3743	3099	1967	519	*	-
Dima*	-	-	-	-	-	-	-	-

TABLE 4.8.2 URBAN HOLDINGS

Geographic Area	All Households	Number of All Households by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	1607	642	596	149	122	66	29	*
Zone 1	940	457	382	47	48	6	-	-
Itang	410	152	217	*	*	-	-	-
Gambella	530	305	165	34	21	6	-	-
Zone 2	668	185	214	102	74	61	29	*
Gog	196	73	113	*	-	-	-	-
Godare	467	108	100	92	74	61	29	*
Dima	5	4	1	-	-	-	-	-

TABLE 4.9 NUMBER OF AGRICULTURAL HOUSEHOLDS WITH ONE MEMBER BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	All Households	Number of Households with one member by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	1827	487	973	237	101	*	-	-
Zone 1	493	165	294	*	-	1	-	-
Jikawo	172	56	116	-	-	-	-	-
Itang	116	41	71	*	-	-	-	-
Gambella	205	68	107	*	-	1	-	-
Zone 2	1334	322	679	205	101	*	-	-
Abobo	307	*	135	83	*	*	-	-
Jor	73	23	39	*	-	-	-	-
Gog	148	35	51	44	*	-	-	-
Godare	806	240	454	67	*	*	-	-
Dima	-	-	-	-	-	-	-	-

TABLE 4.9.1 RURAL HOLDINGS

Geographic Area	All Households	Number of Households with one member by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	1779	472	951	228	101	*	-	-
Zone 1	462	154	280	*	-	-	-	-
Jikawo	172	56	116	-	-	-	-	-
Itang	111	41	66	*	-	-	-	-
Gambella	179	58	98	*	-	-	-	-
Zone 2	1317	318	670	201	101	*	-	-
Abobo	307	*	135	83	*	*	-	-
Jor	73	23	39	*	-	-	-	-
Gog	148	35	51	44	*	-	-	-
Godare	789	235	445	63	*	*	-	-
Dima*	-	-	-	-	-	-	-	-

TABLE 4.9.2 URBAN HOLDINGS

Geographic Area	All Households	Number of Households with one member by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	48	*	23	*	-	1	-	-
Zone 1	31	*	14	*	-	1	-	-
Itang	*	-	*	-	-	-	-	-
Gambella	26	*	9	*	-	1	-	-
Zone 2	17	*	*	*	-	-	-	-
Gog	-	-	-	-	-	-	-	-
Godare	17	*	*	*	-	-	-	-
Dima	-	-	-	-	-	-	-	-

TABLE 4.10 NUMBER OF AGRICULTURAL HOUSEHOLDS WITH 2-3 MEMBERS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	All Households	Number of Households with 2-3 members by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	8287	1581	4111	1759	698	138	-	-
Zone 1	2809	630	1921	212	35	*	-	-
Jikawo	1158	172	911	74	-	-	-	-
Itang	841	152	564	91	27	*	-	-
Gambella	811	305	446	46	*	*	-	-
Zone 2	5478	951	2190	1548	663	126	-	-
Abobo	1006	115	371	265	206	50	-	-
Jor	313	84	175	49	*	-	-	-
Gog	533	143	268	86	18	*	-	-
Godare	3623	607	1376	1148	434	*	-	-
Dima	3	3	-	-	-	-	-	-

TABLE 4.10.1 RURAL HOLDINGS

Geographic Area	All Households	Number of Households with 2-3 members by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 – 5.00	5.01 - 10	Over 10
Gambella Region	7941	1447	3970	1725	683	116	-	-
Zone 1	2643	550	1841	208	34	*	-	-
Jikawo	1158	172	911	74	-	-	-	-
Itang	785	125	536	91	27	*	-	-
Gambella	700	252	395	43	*	*	-	-
Zone 2	5298	897	2129	1517	649	105	-	-
Abobo	1006	115	371	265	206	50	-	-
Jor	313	84	175	49	*	-	-	-
Gog	495	128	245	86	18	*	-	-
Godare	3485	571	1339	1118	421	*	-	-
Dima*	-	-	-	-	-	-	-	-

TABLE 4.10.2 URBAN HOLDINGS

Geographic Area	All Households	Number of Households with 2-3 members by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	346	134	140	35	15	22	-	-
Zone 1	167	80	79	*	1	*	-	-
Itang	56	*	*	-	-	-	-	-
Gambella	111	53	51	*	1	*	-	-
Zone 2	180	54	61	31	*	20	-	-
Gog	38	15	23	-	-	-	-	-
Godare	138	36	38	31	*	20	-	-
Dima	3	3	-	-	-	-	-	-

TABLE 4.11 NUMBER OF AGRICULTURAL HOUSEHOLDS WITH 4-5 MEMBERS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	All Households	Number of Households with 4-5 members by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	10813	1378	5435	2530	1192	253	26	-
Zone 1	4634	758	3056	679	141	-	-	-
Jikawo	2319	233	1729	294	63	-	-	-
Itang	1351	228	808	247	68	-	-	-
Gambella	964	297	518	138	*	-	-	-
Zone 2	6179	620	2379	1850	1051	253	26	-
Abobo	1350	*	358	413	286	68	*	-
Jor	388	18	190	150	*	*	-	-
Gog	1011	190	516	198	80	27	-	-
Godare	3428	191	1314	1090	664	147	*	-
Dima	1	-	1	-	-	-	-	-

TABLE 4.11.1 RURAL HOLDINGS

Geographic Area	All Households	Number of Households with 4-5 members by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	10340	1169	5249	2508	1158	241	*	-
Zone 1	4367	604	2955	671	137	-	-	-
Jikawo	2319	233	1729	294	63	-	-	-
Itang	1228	152	761	247	68	-	-	-
Gambella	820	219	465	130	*	-	-	-
Zone 2	5973	566	2295	1837	1021	241	*	-
Abobo	1350	*	358	413	286	68	*	-
Jor	388	18	190	150	*	*	-	-
Gog	949	167	476	198	80	27	-	-
Godare	3285	160	1270	1077	633	135	*	-
Dima*	-	-	-	-	-	-	-	-

TABLE 4.11.2 URBAN HOLDINGS

Geographic Area	All Households	Number of Households with 4-5 members by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	473	208	185	21	34	12	*	-
Zone 1	267	154	101	*	*	-	-	-
Itang	123	76	47	-	-	-	-	-
Gambella	144	78	54	*	*	-	-	-
Zone 2	206	54	84	*	30	12	*	-
Gog	62	23	39	-	-	-	-	-
Godare	143	31	44	*	30	12	*	-
Dima	1	-	1	-	-	-	-	-

TABLE 4.12 NUMBER OF AGRICULTURAL HOUSEHOLDS WITH 6-9 MEMBERS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	All Households	Number of Households with 6-9 members by size of holding (In hectares)						
		Under 0.1	0.1 – 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	9086	912	4262	2073	1396	403	35	*
Zone 1	3920	380	2740	663	134	*	-	-
Jikawo	1979	98	1552	311	*	-	-	-
Itang	1253	103	803	243	103	-	-	-
Gambella	687	179	384	109	13	*	-	-
Zone 2	5166	532	1523	1410	1261	400	35	*
Abobo	892	*	223	214	146	89	*	-
Jor	346	*	178	84	*	-	-	-
Gog	1038	147	424	243	172	54	-	-
Godare	2888	164	698	870	863	258	*	*
Dima	1	1	-	-	-	-	-	-

TABLE 4.12.1 RURAL HOLDINGS

Geographic Area	All Households	Number of Households with 6-9 members by size of holding (In hectares)						
		Under 0.1	0.1 – 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	8618	767	4083	2013	1356	380	*	-
Zone 1	3699	297	2620	657	125	-	-	-
Jikawo	1979	98	1552	311	*	-	-	-
Itang	1155	95	714	243	103	-	-	-
Gambella	564	105	354	103	*	-	-	-
Zone 2	4919	470	1462	1357	1232	380	*	-
Abobo	892	*	223	214	146	89	*	-
Jor	346	*	178	84	*	-	-	-
Gog	953	122	373	233	172	54	-	-
Godare	2728	127	689	825	834	238	*	-
Dima*	-	-	-	-	-	-	-	-

TABLE 4.12.2 URBAN HOLDINGS

Geographic Area	All Households	Number of Households with 6-9 members by size of holding (In hectares)						
		Under 0.10	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	467	146	180	60	39	22	17	*
Zone 1	221	83	119	*	10	*	-	-
Itang	98	*	89	-	-	-	-	-
Gambella	123	74	30	*	10	*	-	-
Zone 2	246	63	60	54	29	20	17	*
Gog	85	25	51	*	-	-	-	-
Godare	160	37	*	44	29	20	17	*
Dima	1	1	-	-	-	-	-	-

TABLE 4.13 NUMBER OF AGRICULTURAL HOUSEHOLDS WITH 10 OR MORE MEMBERS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	All Households	Number of Households with 10 or more members by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 – 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	1319	227	527	206	189	157	*	-
Zone 1	826	148	463	130	72	*	-	-
Jikawo	422	*	316	58	*	*	-	-
Itang	215	50	86	38	41	-	-	-
Gambella	189	89	61	33	*	-	-	-
Zone 2	493	79	64	76	117	143	*	-
Abobo	132	*	*	*	39	*	-	-
Jor	*	-	*	*	-	-	-	-
Gog	169	37	43	49	32	*	-	-
Godare	181	-	-	*	*	105	*	-
Dima	-	-	-	-	-	-	-	-

TABLE 4.13.1 RURAL HOLDINGS

Geographic Area	All Households	Number of Households with 10 or more members by size of holding (In hectares)						
		Under 0.10	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	1047	88	458	182	156	148	*	-
Zone 1	572	*	394	107	*	*	-	-
Jikawo	422	*	316	58	*	*	-	-
Itang	87	*	39	25	14	-	-	-
Gambella	63	-	*	23	-	-	-	-
Zone 2	475	*	64	76	117	135	*	-
Abobo	132	*	*	*	39	*	-	-
Jor	*	-	*	*	-	-	-	-
Gog	159	*	43	49	32	*	-	-
Godare	172	-	-	*	*	96	*	-
Dima*	-	-	-	-	-	-	-	-

TABLE 4.13.2 URBAN HOLDINGS

Geographic Area	All Households	Number of Households with 10 or more members by size of holding (In hectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	273	139	68	*	*	*	-	-
Zone 1	254	129	68	*	*	-	-	-
Itang	128	*	47	*	*	-	-	-
Gambella	126	89	21	*	*	-	-	-
Zone 2	19	*	-	-	-	*	-	-
Gog	*	*	-	-	-	-	-	-
Godare	*	-	-	-	-	*	-	-
Dima	-	-	-	-	-	-	-	-

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TABLE 4.14. NUMBER OF HOLDERS, AREA OF HOLDING AND NUMBER OF PARCELS BY LAND USE AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Land Use By Size Of Holdings	Number Of Holders	Holding Area in Hectares	Number Of Parcels
Holdings Of All Sizes			
All	32767	17190	79935
Land Under Temporary Crops	29159	9827	47073
Land Under Permanent Crops	18695	3766	30245
Grazing Land	1115	174	1339
Fallow Land	13192	2905	15081
Woodland	1569	64	1736
All Other Land	30070	454	35929
Holdings Under 0.10 Hectares Sizes			
All	5338	246	8192
Land Under Temporary Crops	3677	133	4287
Land Under Permanent Crops	2712	42	3162
Grazing Land	*	*	*
Fallow Land	964	34	1007
Woodland	*	*	*
All Other Land	4125	37	4290
Holdings Of 0.10-0.50 Hectares Sizes			
All	16051	4279	38632
Land Under Temporary Crops	14406	2672	21429
Land Under Permanent Crops	7639	458	11163
Grazing Land	146	5	146
Fallow Land	6333	964	7116
Woodland	374	*	402
All Other Land	15010	171	18314
Holdings Of 0.51-1.00 Hectares Sizes			
All	6795	4794	18804
Land Under Temporary Crops	6626	2838	11996
Land Under Permanent Crops	4778	972	8126
Grazing Land	384	29	398
Fallow Land	3199	823	3769
Woodland	531	7	531
All Other Land	6591	124	7965
Holdings Of 1.01-2.00 Hectares Sizes			
All	3548	4771	10636
Land Under Temporary Crops	3475	2664	6987
Land Under Permanent Crops	2660	1118	5513
Grazing Land	334	*	396
Fallow Land	2095	832	2457
Woodland	440	13	502
All Other Land	3412	79	4131
Holdings Of 2.01-5.00 Hectares Sizes			
All	956	2572	3249
Land Under Temporary Crops	913	1381	2149
Land Under Permanent Crops	827	815	2028
Grazing Land	231	*	352
Fallow Land	554	235	659
Woodland	165	*	241
All Other Land	885	38	1160
Holdings Of 5.01-10.00 Hectares			
All	75	482	385
Land Under Temporary Crops	59	114	214
Land Under Permanent Crops	75	339	227
Grazing Land	*	*	*
Fallow Land	*	*	*
Woodland	*	*	*
All Other Land	*	*	*
Holdings Over 10.00 Hectares			
All	*	*	*
Land Under Temporary Crops	*	*	*
Land Under Permanent Crops	*	*	*
Grazing Land	-	-	-
Fallow Land	-	-	-
Woodland	-	-	-
All Other Land	-	-	-

TABLE 4.14.1 RURAL HOLDINGS

Land Use By Size Of Holdings	Number Of Holders	Holding Area in Hectares	Number Of Parcels
Holdings Of All Sizes			
All	31155	16281	76876
Land Under Temporary Crops	27766	9395	44901
Land Under Permanent Crops	18097	3289	29291
Grazing Land	1115	174	1339
Fallow Land	13192	2905	15081
Woodland	1569	64	1736
All Other Land	30070	454	35929
Holdings Under 0.10 Hectares Sizes			
All	4696	217	7353
Land Under Temporary Crops	3112	107	3610
Land Under Permanent Crops	2554	39	2971
Grazing Land	*	*	*
Fallow Land	964	34	1007
Woodland	*	*	*
All Other Land	4125	37	4290
Holdings Of 0.10-0.50 Hectares Sizes			
All	15455	4123	37495
Land Under Temporary Crops	13864	2541	20513
Land Under Permanent Crops	7478	433	10933
Grazing Land	146	5	146
Fallow Land	6333	964	7116
Woodland	374	*	402
All Other Land	15010	171	18314
Holdings Of 0.51-1.00 Hectares Sizes			
All	6642	4679	18357
Land Under Temporary Crops	6496	2779	11709
Land Under Permanent Crops	4676	916	7957
Grazing Land	384	29	398
Fallow Land	3199	823	3769
Woodland	531	7	531
All Other Land	6591	124	7965
Holdings Of 1.01-2.00 Hectares Sizes			
All	3426	4599	10322
Land Under Temporary Crops	3377	2587	6804
Land Under Permanent Crops	2583	1022	5367
Grazing Land	334	*	396
Fallow Land	2095	832	2457
Woodland	440	13	502
All Other Land	3412	79	4131
Holdings Of 2.01-5.00 Hectares Sizes			
All	889	2371	3046
Land Under Temporary Crops	871	1298	2072
Land Under Permanent Crops	761	697	1899
Grazing Land	231	*	352
Fallow Land	554	235	659
Woodland	165	*	241
All Other Land	885	38	1160
Holdings Of 5.01-10.00 Hectares			
All	*	292	*
Land Under Temporary Crops	*	*	*
Land Under Permanent Crops	*	*	*
Grazing Land	*	*	*
Fallow Land	*	*	*
Woodland	*	*	*
All Other Land	*	*	*
Holdings Over 10.00 Hectares			
All	-	-	-
Land Under Temporary Crops	-	-	-
Land Under Permanent Crops	-	-	-
Grazing Land	-	-	-
Fallow Land	-	-	-
Woodland	-	-	-
All Other Land	-	-	-

TABLE 4.14.2 URBAN HOLDINGS

Land Use By Size Of Holdings	Number Of Holders	Holding Area in Hectares	Number Of Parcels
Holdings Of All Sizes			
All	1611	909	3060
Land Under Temporary Crops	1393	431	2173
Land Under Permanent Crops	597	477	954
Holdings Under 0.10 Hectares Sizes			
All	642	29	838
Land Under Temporary Crops	565	25	677
Land Under Permanent Crops	158	3	191
Holdings Of 0.10-0.50 Hectares Sizes			
All	596	156	1137
Land Under Temporary Crops	542	131	916
Land Under Permanent Crops	161	25	230
Holdings Of 0.51-1.00 Hectares Sizes			
All	153	115	448
Land Under Temporary Crops	129	59	287
Land Under Permanent Crops	102	56	169
Holdings Of 1.01-2.00 Hectares Sizes			
All	122	172	314
Land Under Temporary Crops	98	77	183
Land Under Permanent Crops	77	95	146
Holdings Of 2.01-5.00 Hectares Sizes			
All	66	201	203
Land Under Temporary Crops	42	83	77
Land Under Permanent Crops	66	118	129
Holdings Of 5.01-10.00 Hectares			
All	29	191	83
Land Under Temporary Crops	*	*	*
Land Under Permanent Crops	29	159	62
Holdings Over 10.00 Hectares			
All	*	*	*
Land Under Temporary Crops	*	*	*
Land Under Permanent Crops	*	*	*

TABLE 4.15. NUMBER OF HOLDERS, AREA OF HOLDING AND NUMBER OF PARCELS UNDER ALL HOLDINGS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	All Holdings															
	Number of holders	Area In Hectares	Percent Area By Holding Size In Hectares							Number of parcels	Percent Parcels By Holding Size In Hectares					
			Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0		Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0
Gambella Region	32767	17190	1.4	24.9	27.9	27.8	15	2.8	0.3	79935	10.3	48.3	23.5	13.3	4.1	0.5	0.1
Zone 1	13460	3971	2.9	57.4	26.9	11.7	1.1	-	-	33553	12.8	69.3	14.5	3.3	0.1	-	-
Jikawo	6287	1845	1.6	66.8	24	7.7	-	-	-	15958	6.5	76.3	14.7	2.5	-	-	-
Itang	4170	1396	3.1	46.6	29.2	20	1.1	-	-	11187	14.4	65.5	14.8	5.3	0.1	-	-
Gambella	3003	729	6.1	54.3	29.8	6	3.8	-	-	6408	25.8	58.7	13.3	1.8	0.4	-	-
Zone 2	19307	13219	1	15.1	28.2	32.6	19.1	3.7	0.3	46382	8.4	33.1	30.1	20.6	6.9	0.8	0.1
Abobo	3785	2771	0.9	12.1	25.5	37.1	22.5	1.9	-	7779	9.4	26	28.8	25.4	9.9	0.6	-
Jor	1146	570	1.3	33.1	36.6	24.2	4.9	-	-	3032	8.4	48.6	29.4	12.5	1	-	-
Gog	2930	1552	1.7	23.4	27.5	27.4	20	-	-	5573	14.6	50.6	22	9.8	3.1	-	-
Godare	11441	8326	0.8	13.4	28.7	32.6	18.8	5.2	0.5	29985	7	30.2	32	22.1	7.5	1.1	0.1
Dima	5	-	50	50	-	-	-	-	-	14	78.6	21.4	-	-	-	-	-

TABLE 4.15.1 RURAL HOLDINGS

Geographic Area	All Holdings															
	Number of holders	Area In Hectares	Percent Area By Holding Size In Hectares							Number of parcels	Percent Parcels By Holding Size In Hectares					
			Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0		Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0
Gambella Region	31155	16281	1.3	25.3	28.7	28.3	14.6	1.8	-	76876	9.6	48.8	23.9	13.4	4	0.4	-
Zone 1	12520	3742	2.6	58.4	27.6	10.8	0.6	-	-	31999	11.7	70.5	14.7	3	0.1	-	-
Jikawo	6287	1845	1.6	66.8	24	7.7	-	-	-	15958	6.5	76.3	14.7	2.5	-	-	-
Itang	3760	1289	2.8	46.2	30.9	19	1.2	-	-	10659	13.4	66.2	15.3	5	0.1	-	-
Gambella	2472	607	5.1	58.9	31.8	2.8	1.4	-	-	5383	23.6	62	13.6	0.7	0.2	-	-
Zone 2	18635	12539	1	15.5	29.1	33.5	18.7	2.3	-	44876	8.1	33.3	30.4	20.9	6.7	0.7	-
Abobo	3785	2771	0.9	12.1	25.5	37.1	22.5	1.9	-	7779	9.4	26	28.8	25.4	9.9	0.6	-
Jor	1146	570	1.3	33.1	36.6	24.2	4.9	-	-	3032	8.4	48.6	29.4	12.5	1	-	-
Gog	2734	1515	1.5	22.1	27.9	28.1	20.5	-	-	5182	13.4	49.8	22.9	10.5	3.3	-	-
Godare	10970	7684	0.9	14	30.1	33.9	18	3.1	-	28883	6.7	30.6	32.3	22.4	7.1	0.9	-
Dima*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.15.2 URBAN HOLDINGS

Geographic Area	All Holdings																
	Number of holders	Area In hectare	Percent Area By Holding Size In Hectares							Number of parcels	Percent Parcels By Holding Size In Hectares						
			Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0		Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0
Gambella Region	1611	909	3.2	17.2	12.6	19	22.2	21	5	3060	27.4	37.2	14.6	10.3	6.6	2.7	1.2
Zone 1	940	229	8.9	41.1	15	26.7	8.4	-	-	1554	36.3	44.6	9.4	8.5	1.2	-	-
Itang	410	107	6.6	52.2	9.4	31.8	-	-	-	528	33.9	50.7	5.1	10.2	-	-	-
Gambella	530	122	10.8	31.5	19.9	22.2	15.7	-	-	1026	37.6	41.4	11.7	7.6	1.8	-	-
Zone 2	672	679	1.3	9.1	11.8	16.4	26.8	28.1	6.6	1506	18.2	29.5	20	12.1	12.2	5.5	2.5
Gog	196	37	12.1	74	14	-	-	-	-	390	29.8	60.2	10	-	-	-	-
Godare	471	642	0.6	5.4	11.7	17.3	28.4	29.7	7	1102	13.3	18.7	23.8	16.6	16.7	7.5	3.4
Dima	5	-	50	50	-	-	-	-	-	14	78.6	21.4	-	-	-	-	-

TABLE 4.16. NUMBER OF HOLDERS, AREA OF HOLDING AND NUMBER OF PARCELS UNDER TEMPORARY CROPS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Land Under Temporary Crops																
	Number of holders	Area In Hectares	Percent Area By Holding Size In Hectares							Number of parcels	Percent Parcels By Holding Size In Hectares						
			Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0		Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0
Gambella Region	29159	9827	1.4	27.2	28.9	27.1	14.1	1.2	0.2	47073	9.1	45.5	25.5	14.8	4.6	0.5	-
Zone 1	11565	2231	3.3	63.6	23.9	8	1.2	-	-	16635	12.3	68.8	15.3	3.4	0.2	-	-
Jikawo	5078	991	1.5	68.6	24.1	5.9	-	-	-	7019	4.9	76.5	16.1	2.5	-	-	-
Itang	3885	764	4.5	63.9	20.6	11	-	-	-	5741	14.5	66	14.5	4.9	0.1	-	-
Gambella	2602	476	5.4	52.6	28.9	7.8	5.4	-	-	3875	22.6	59.3	14.8	2.7	0.6	-	-
Zone 2	17594	7596	0.8	16.5	30.3	32.7	17.8	1.5	0.3	30439	7.4	32.8	31.1	21.1	7	0.7	-
Abobo	3604	2336	0.5	12	26.2	36.9	22.3	2.1	-	6443	7.9	25.5	29.1	25.9	11	0.7	-
Jor	990	491	0.9	29.9	38	27	4.2	-	-	1624	5.5	45.5	32.8	15	1.2	-	-
Gog	2418	1263	1.2	18.9	28	28.2	23.9	-	-	2933	12.7	45.5	25	12.1	4.6	-	-
Godare	10577	3506	0.8	16.8	32.9	32.4	14.6	1.9	0.7	19424	6.5	32.2	32.5	21.4	6.5	0.9	0.1
Dima	5	-	50	50	-	-	-	-	-	14	78.6	21.4	-	-	-	-	-

TABLE 4.16.1 RURAL HOLDINGS

Geographic Area	Land Under Temporary Crops																
	Number of holders	Area In Hectares	Percent Area By Holding Size In Hectares							Number of parcels	Percent Parcels By Holding Size In Hectares						
			Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0		Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0
Gambella Region	27766	9395	1.1	27.1	29.6	27.5	13.8	0.9	-	44901	8	45.7	26.1	15.2	4.6	0.4	-
Zone 1	10626	2007	2.7	66	24.9	6	0.4	-	-	15127	9.9	71.3	15.8	2.9	0.1	-	-
Jikawo	5078	991	1.5	68.6	24.1	5.9	-	-	-	7019	4.9	76.5	16.1	2.5	-	-	-
Itang	3475	657	4.1	65.8	22.4	7.6	0.1	-	-	5213	12.5	67.5	15.5	4.4	0.1	-	-
Gambella	2074	359	3.8	59.2	31.5	3.3	2.2	-	-	2895	17.5	65.3	15.7	1.2	0.3	-	-
Zone 2	17140	7388	0.7	16.5	30.9	33.4	17.5	1.1	-	29774	7.1	32.7	31.3	21.4	6.9	0.7	-
Abobo	3604	2336	0.5	12	26.2	36.9	22.3	2.1	-	6443	7.9	25.5	29.1	25.9	11	0.7	-
Jor	990	491	0.9	29.9	38	27	4.2	-	-	1624	5.5	45.5	32.8	15	1.2	-	-
Gog	2228	1228	0.9	17.3	28.4	29	24.5	-	-	2683	11.2	43.8	26.7	13.2	5.1	-	-
Godare	10319	3333	0.8	17.3	34	33.6	13.4	1	-	19023	6.4	32.5	32.6	21.6	6.3	0.8	-
Dima*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.16.2 URBAN HOLDINGS

Geographic Area	Land Under Temporary Crops																
	Number of holders	Area In hectare	Percent Area By Holding Size In Hectares							Number of parcels	Percent Parcels By Holding Size In Hectares						
			Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0		Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0
Gambella Region	1393	431	5.9	30.4	13.6	17.9	19.3	7.4	5.6	2173	31.2	42.2	13.2	8.4	3.6	1	0.5
Zone 1	939	224	8.7	41.7	15.4	26.4	7.9	-	-	1508	36.3	44.6	9.7	8.2	1.1	-	-
Itang	410	107	6.6	52.2	9.4	31.8	-	-	-	528	33.9	50.7	5.1	10.2	-	-	-
Gambella	529	117	10.6	32	20.8	21.4	15.2	-	-	980	37.6	41.4	12.2	7.1	1.7	-	-
Zone 2	454	208	2.9	18.3	11.7	8.7	31.5	15.4	11.6	665	19.5	36.5	21.1	9	9.1	3.1	1.7
Gog	190	35	12.3	73.3	14.5	-	-	-	-	250	29.2	63.4	7.5	-	-	-	-
Godare	259	172	0.9	7.2	11.2	10.5	37.9	18.5	14	401	11.4	20.3	30.3	14.9	15.1	5.2	2.8
Dima	5	-	50	50	-	-	-	-	-	14	78.6	21.4	-	-	-	-	-

TABLE 4.17. NUMBER OF HOLDERS, AREA OF HOLDING AND NUMBER OF PARCELS UNDER PERMANENT CROPS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Land Under Permanent Crops																
	Number of holders	Area In Hectares	Percent Area By Holding Size In Hectares							Number of parcels	Percent Parcels By Holding Size In Hectares						
			Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0		Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0
Gambella Region	18695	3766	1.1	12.2	25.8	29.7	21.7	9	0.6	30245	10.5	36.9	26.9	18.2	6.7	0.8	0.1
Zone 1	4485	129	8.2	60.1	24.3	6.3	1.1	-	-	6456	14.5	68.5	15	2	0.1	-	-
Jikawo	1086	11	8.3	62.2	29.2	0.3	-	-	-	1145	13.4	62.6	22.8	1.1	-	-	-
Itang	1955	45	7.5	64.5	16.5	11.6	-	-	-	3254	12.4	74.8	10.2	2.5	-	-	-
Gambella	1444	73	8.6	57.2	28.4	3.8	2	-	-	2057	18.3	61.6	18.2	1.6	0.3	-	-
Zone 2	14209	3637	0.9	10.5	25.9	30.5	22.4	9.3	0.6	23789	9.4	28.3	30.1	22.6	8.5	1	0.1
Abobo	2168	22	12.4	17.7	38.5	18.1	12.1	1.3	-	2335	23	24.5	24	20.5	7.5	0.5	-
Jor	327	7	3.2	24.7	32.3	15.7	24	-	-	347	9.2	42.2	30.9	14.8	2.9	-	-
Gog	1532	20	13.3	39.9	30.5	13.2	3.1	-	-	1680	19.6	44.5	22.2	10	3.7	-	-
Godare	10181	3589	0.7	10.2	25.8	30.7	22.5	9.4	0.6	19427	6.9	27.2	31.5	24.1	9.1	1.1	0.1
Dima	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.17.1 RURAL HOLDINGS

Geographic Area	Land Under Permanent Crops																
	Number of holders	Area In Hectares	Percent Area By Holding Size In Hectares							Number of parcels	Percent Parcels By Holding Size In Hectares						
			Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0		Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0
Gambella Region	18097	3289	1.2	13.2	27.9	31.1	21.2	5.5	-	29291	10.1	37.3	27.2	18.3	6.5	0.6	-
Zone 1	4417	123	7.8	62	25.4	4.8	-	-	-	6376	14	69	15.2	1.9	-	-	-
Jikawo	1086	11	8.3	62.2	29.2	0.3	-	-	-	1145	13.4	62.6	22.8	1.1	-	-	-
Itang	1955	45	7.5	64.5	16.5	11.6	-	-	-	3254	12.4	74.8	10.2	2.5	-	-	-
Gambella	1376	67	8	60.3	30.8	1	-	-	-	1977	16.9	62.9	19	1.3	-	-	-
Zone 2	13681	3165	0.9	11.3	28	32.1	22	5.7	-	22914	9.1	28.5	30.5	22.9	8.3	0.7	-
Abobo	2168	22	12.4	17.7	38.5	18.1	12.1	1.3	-	2335	23	24.5	24	20.5	7.5	0.5	-
Jor	327	7	3.2	24.7	32.3	15.7	24	-	-	347	9.2	42.2	30.9	14.8	2.9	-	-
Gog	1428	18	13.8	35.3	33.1	14.5	3.4	-	-	1526	18.7	43.7	22.5	11	4.1	-	-
Godare	9757	3119	0.8	11.1	27.8	32.4	22.2	5.8	-	18706	6.6	27.5	32	24.3	8.8	0.8	-
Dima*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.17.2 URBAN HOLDINGS

Geographic Area	Land Under Permanent Crops																
	Number of holders	Area In hectare	Percent Area By Holding Size In Hectares							Number of parcels	Percent Parcels By Holding Size In Hectares						
			Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0		Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0
Gambella Region	597	477	0.7	5.2	11.7	20	24.8	33.3	4.4	954	20.1	24.1	17.7	15.3	13.6	6.5	2.7
Zone 1	68	6	15.6	19.4	-	38.5	26.3	-	-	79	53.6	29.3	-	9.9	7.2	-	-
Itang	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gambella	68	6	15.6	19.4	-	38.5	26.3	-	-	79	53.6	29.3	-	9.9	7.2	-	-
Zone	529	471	0.5	5	11.9	19.7	24.7	33.7	4.4	875	17	23.6	19.4	15.8	14.1	7.1	3
Gog	105	2	8	88.1	4	-	-	-	-	154	28.2	53.1	18.8	-	-	-	-
Godare	424	470	0.5	4.7	11.9	19.8	24.8	33.8	4.5	721	14.6	17.3	19.5	19.2	17.2	8.6	3.6
Dima	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.18. NUMBER OF HOLDERS, AREA OF HOLDING AND NUMBER OF PARCELS UNDER GRAZING LAND BY GEOGRAPHIC AREA AND SIZE OF HOLDING

RURAL HOLDINGS

Geographic Area	Land Under Grazing																
	Number of holders	Area In Hectares	Percent Area By Holding Size In Hectares							Number of parcels	Percent Parcels By Holding Size In Hectares						
			Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0		Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0
Gambella Region	1115	174	0.1	2.9	16.9	37.1	40.2	2.9	-	1339	0.4	10.9	29.7	29.6	26.3	3.1	-
Zone 1	24	*	*	*	*	*	*	*	*	24	23.3	23.3	26.7	26.7	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	13	*	*	*	*	*	*	*	*	13	-	-	50	50	-	-	-
Gambella	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Zone 2	1090	174	-	2.8	16.9	37.2	40.2	2.9	-	1315	-	10.7	29.8	29.6	26.8	3.2	-
Abobo	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Jor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	1063	174	-	2.7	16.9	37.2	40.3	2.9	-	1287	-	10.1	30	29.4	27.4	3.2	-
Dima*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.19. NUMBER OF HOLDERS, AREA OF HOLDING AND NUMBER OF PARCELS UNDER FALLOW LAND BY GEOGRAPHIC AREA AND SIZE OF HOLDING

RURAL HOLDINGS

Geographic Area	Land Under Fallow																
	Number of holders	Area In Hectares	Percent Area By Holding Size In Hectares							Number of parcels	Percent Parcels By Holding Size In Hectares						
			Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0		Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0
Gambella Region	13192	2905	1.2	33.2	28.3	28.6	8.1	0.6	-	15081	6.7	47.2	25	16.3	4.4	0.5	-
Zone 1	6239	1467	1.2	47	32.2	18.6	1	-	-	7221	6.7	66.2	22	5	0.1	-	-
Jikawo	3565	756	1.1	63.8	24.2	10.9	-	-	-	4142	3.9	74.4	18.3	3.4	-	-	-
Itang	1465	558	0.6	21.3	42.2	33.3	2.6	-	-	1716	5.8	50.7	31.3	11.8	0.4	-	-
Gambella	1209	153	4	58.3	35.1	2.5	-	-	-	1363	16.6	60.7	21.6	1.1	-	-	-
Zone 2	6953	1438	1.1	19.1	24.4	38.9	15.3	1.2	-	7859	6.6	29.7	27.7	26.7	8.3	0.9	-
Abobo	1532	362	1.3	11.2	20.2	41.2	25.5	0.7	-	1740	13.3	19.2	22.1	32.9	12	0.5	-
Jor	344	61	3	52.7	28.7	6.7	9	-	-	348	7.9	54.8	25.9	8.6	2.9	-	-
Gog	1120	242	2	43.8	25.3	26.3	2.7	-	-	1434	10.2	59.5	18.4	8.8	3.1	-	-
Godare	3957	772	0.6	12.3	25.7	44.4	15.1	1.9	-	4337	2.7	22.1	33.2	31.6	8.9	1.5	-
Dima*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.20. NUMBER OF HOLDERS, AREA OF HOLDING AND NUMBER OF PARCELS UNDER WOODLAND BY GEOGRAPHIC AREA AND SIZE OF HOLDING

RURAL HOLDINGS

Geographic Area	Land Under Wood/Forest																
	Number of holders	Area In Hectares	Percent Area By Holding Size In Hectares							Number of parcels	Percent Parcels By Holding Size In Hectares						
			Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0		Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0
Gambella Region	1569	64	0.1	14	11.8	21.1	52.6	0.5	-	1736	2.5	23.2	30.6	28.9	13.9	0.9	-
Zone 1	102	1	-	57.7	36.9	5.4	-	-	-	102	-	61.6	31.6	6.9	-	-	-
Jikawo	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Itang	23	-	-	45	55	-	-	-	-	23	-	44.2	55.8	-	-	-	-
Gambella	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Zone 2	1467	63	0.1	13.2	11.3	21.4	53.5	0.5	-	1634	2.7	20.8	30.6	30.3	14.8	0.9	-
Abobo	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Jor	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Gog	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	1426	58	0.1	7.1	12.1	22.9	57.3	0.5	-	1594	2.8	19.9	30.6	30.7	15.1	0.9	-
Dima*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.21. NUMBER OF HOLDERS, AREA OF HOLDING AND NUMBER OF PARCELS UNDER OTHER LAND BY GEOGRAPHIC AREA AND SIZE OF HOLDING

RURAL HOLDINGS

Geographic Area	Holding with Other Land															
	Number of holders	Area In Hectares	Percent Area By Holding Size In Hectares							Number of parcels	Percent Parcels By Holding Size In Hectares						
			Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0		Under 0.10	0.10 to 0.50	0.51 to 1.00	1.01 to 2.00	2.01 to 5.00	5.01 to 10.0	Over 10.0
Gambella Region	30070	454	8.2	37.5	27.3	17.5	8.3	1.3	-	35929	11.9	51	22.2	11.5	3.2	0.2	-
Zone 1	11932	143	9.7	65.4	20.8	3.9	0.3	-	-	15845	11.9	71	14.1	3	0.1	-	-
Jikawo	6094	88	5.8	72.7	19.4	2.1	-	-	-	9358	7	78.9	12.3	1.8	-	-	-
Itang	3468	28	9.2	51.8	26.7	12	0.3	-	-	3999	12.9	60.5	19.2	7.1	0.2	-	-
Gambella	2370	27	22.6	55.8	19.1	1.4	1.1	-	-	2487	28.4	58.2	12.7	0.5	0.2	-	-
Zone 2	18138	312	7.5	24.8	30.2	23.7	11.9	1.9	-	20084	12	35.2	28.5	18.2	5.7	0.4	-
Abobo	3726	51	12.2	22.1	24.4	26.1	14.8	0.4	-	3893	15.9	30.2	26.8	20.4	6.6	0.2	-
Jor	1136	7	10.1	51.4	28.1	8.5	2	-	-	1385	10.8	50.3	28.3	9.2	1.4	-	-
Gog	2704	26	15.1	38.9	25	14.6	6.3	-	-	2745	17.9	44.3	22.2	11.6	4	-	-
Godare	10572	227	5.5	22.9	32.2	24.6	12.2	2.5	-	12061	9.5	33	30.6	20.1	6.3	0.5	-
Dima*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 4.22. NUMBER OF HOLDERS AND AREA OF HOLDING BY TYPE OF CROP AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Type of Crop	Number Of Holders Reporting	All Area In Hectare	Area By Size Of Holdings (In Hectare)						
			Under 0.10	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Total Cropland	30800	13592	308	3719	3915	3337	1954	315	*
Temporary Crops	29159	9827	247	3129	2865	2304	1169	*	*
Grain Crops	27568	8895	212	2873	2581	2046	1069	*	*
Cereals	26276	8254	191	2748	2409	1880	945	58	*
Barley	187	9	*	3	5	*	-	-	-
Maize	22544	5370	160	2032	1364	1124	646	*	*
Millet	666	48	*	16	19	10	*	-	-
Oats/'Aja'	40	*	*	*	*	-	-	-	-
Rice	329	39	*	*	5	15	13	*	-
Sorghum	10344	2782	30	695	1013	728	283	*	*
Teff	87	5	-	1	*	*	*	-	-
Wheat	*	*	-	*	-	-	-	-	-
Pulses	3801	117	13	38	31	26	*	-	-
Chick Peas	*	*	-	*	*	-	-	-	-
Fenugreek	*	*	-	*	-	-	-	-	-
Field Peas	*	*	-	*	*	-	*	-	-
Gibto	53	*	-	*	*	-	-	-	-
Haricot beans	3564	113	12	37	30	25	*	-	-
Horse beans	89	*	-	*	*	*	*	-	-
Soya beans	*	*	*	*	-	*	-	-	-
Lentils	*	*	-	-	*	-	*	-	-
Vetch	*	*	-	*	*	-	-	-	-
Other Pulses	-	-	-	-	-	-	-	-	-
Oilseeds	2457	367	6	53	95	101	90	*	-
Groundnuts	1153	43	3	17	13	7	2	-	-
Linseed	62	*	*	*	*	*	-	-	-
Neug	*	*	-	-	*	-	-	-	-
Rape seed	84	*	-	*	*	*	-	-	-
Sesame	1162	319	*	33	80	93	88	*	-
Sufflower	171	1	*	*	*	*	-	-	-
Other Grains	3261	156	3	33	47	39	24	*	*
Vegetables	8840	565	13	127	176	182	67	*	-
Head Cabbage	*	*	-	-	*	*	*	-	-
Green peppers	938	5	*	1	2	1	*	-	-
Ethiopian	2567	22	1	8	7	4	*	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Red peppers	947	20	*	3	12	3	*	*	-
Swiss chard	*	*	-	-	*	-	-	-	-
Tomatoes	702	10	*	4	2	*	*	-	-
Other vegetables	5079	507	11	111	152	173	60	*	-
Root Crops	9849	367	21	129	108	76	33	*	-
Beetroot	*	*	-	-	-	*	*	-	-
Carrot	*	*	-	*	-	-	-	-	-
Garlic	438	1	*	*	*	*	*	-	-
Taro/'Godere'	6568	221	11	70	66	49	25	*	-
Onion	273	*	*	*	*	*	*	-	-
Potatoes	227	2	*	1	*	*	-	-	-
Sweet Potatoes	3182	109	7	42	32	23	6	*	-
Other root	2301	34	4	17	8	3	2	-	-
Permanent Crops	18692	3765	61	590	1050	1033	785	225	*
Fruit crops	16103	370	37	150	99	53	25	*	*
Avocados	801	5	*	*	1	1	*	*	*
Bananas	8773	183	14	69	55	26	18	*	-
Guavas	516	4	*	2	*	*	*	-	-
Lemons	435	4	*	1	1	*	*	*	-
Mangoes	8811	108	15	54	22	11	3	*	*
Oranges	1550	10	*	3	2	4	1	*	*
Papayas	9296	53	7	18	15	10	2	*	*
Pinneapples	521	2	*	1	*	*	*	-	*
Other fruits	261	1	*	*	*	*	-	-	-
Stimulant crops	8358	2926	15	315	773	864	720	220	*
Chat	2242	38	*	8	16	10	4	-	-
Coffee	8201	2874	14	304	753	850	715	220	*
Hops/'Gesho'	1993	14	*	3	5	5	1	*	-
Other stimulants	-	-	-	-	-	-	-	-	-
Other permanent	7509	470	9	126	178	115	40	-	*
Enset	5171	393	7	106	145	99	36	-	-
Sugar Cane	4841	73	2	19	30	16	4	-	*
Other s	1317	4	*	1	3	*	*	-	-

TABLE 4.22.1 RURAL HOLDINGS

Type of Crop	Number Of Holders Reporting	All Area In Hectare	Area By Size Of Holdings (In Hectare)						
			Under 0.10	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Total Cropland	29188	12684	279	3563	3800	3165	1753	*	-
Temporary Crops	27766	9395	221	2998	2806	2227	1085	*	-
Grain Crops	26186	8470	187	2743	2523	1970	990	*	-
Cereals	24925	7877	167	2633	2360	1811	873	*	-
Barley	186	9	*	3	5	*	-	-	-
Maize	21336	5110	139	1936	1331	1072	610	*	-
Millet	664	48	*	16	19	10	*	-	-
Oats/'Aja'	40	*	*	*	*	-	-	-	-
Rice	329	39	*	*	5	15	13	*	-
Sorghum	9906	2664	27	674	997	711	246	*	-
Teff	87	5	-	1	*	*	*	-	-
Wheat	*	*	-	*	-	-	-	-	-
Pulses	3789	116	13	38	31	26	*	-	-
Chick Peas	*	*	-	*	*	-	-	-	-
Fenugreek	*	*	-	*	-	-	-	-	-
Field Peas	*	*	-	*	*	-	*	-	-
Gibto	53	*	-	*	*	-	-	-	-
Haricot beans	3551	112	12	37	30	25	*	-	-
Horse beans	89	*	-	*	*	*	*	-	-
Soya beans	*	*	*	*	-	*	-	-	-
Lentils	*	*	-	-	*	-	*	-	-
Vetch	*	*	-	*	*	-	-	-	-
Other Pulses	-	-	-	-	-	-	-	-	-
Oilseeds	2265	345	6	41	87	98	90	*	-
Groundnuts	998	26	3	9	7	5	2	-	-
Linseed	*	*	-	*	*	-	-	-	-
Neug	*	*	-	-	*	-	-	-	-
Rape seed	84	*	-	*	*	*	-	-	-
Sesame	1113	315	*	30	79	93	88	*	-
Sufflower	171	1	*	*	*	*	-	-	-
Other Grains	3166	132	2	31	45	35	*	*	-
Vegetables	8790	562	13	126	176	182	65	*	-
Head Cabbage	*	*	-	-	*	*	*	-	-
Green peppers	933	5	*	1	2	1	*	-	-
Ethiopian	2563	22	1	8	7	4	*	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Red peppers	941	20	*	3	12	3	*	*	-
Swiss chard	*	*	-	-	*	-	-	-	-
Tomatoes	675	8	*	4	2	*	*	-	-
Other vegetables	5068	506	11	111	152	172	60	*	-
Root Crops	9798	363	21	129	107	75	31	*	-
Beetroot	*	*	-	-	-	*	*	-	-
Carrot	*	*	-	*	-	-	-	-	-
Garlic	438	1	*	*	*	*	*	-	-
Taro/'Godere'	6555	221	11	70	66	49	25	*	-
Onion	260	*	*	*	*	-	*	-	-
Potatoes	218	*	*	*	*	-	-	-	-
Sweet Potatoes	3177	108	7	42	32	23	5	*	-
Other root	2285	32	4	17	8	3	*	-	-
Permanent Crops	18097	3289	58	565	994	937	668	*	-
Fruit crops	15838	361	36	147	99	51	24	*	-
Avocados	778	4	*	*	1	1	*	*	-
Bananas	8723	181	14	69	55	26	17	*	-
Guavas	515	4	*	2	*	*	*	-	-
Lemons	430	4	*	1	1	*	*	*	-
Mangoes	8610	105	14	52	22	10	3	*	-
Oranges	1515	10	*	3	2	4	*	-	-
Papayas	9208	51	7	18	15	9	2	*	-
Pinneapples	517	2	*	1	*	*	*	-	-
Other fruits	260	1	*	*	*	*	-	-	-
Stimulant crops	7951	2463	13	294	718	771	605	*	-
Chat	2234	37	*	8	16	10	*	-	-
Coffee	7794	2411	12	283	697	757	601	*	-
Hops/'Gesho'	1986	14	*	3	5	5	1	*	-
Other	-	-	-	-	-	-	-	-	-
Other permanent	7469	465	9	124	178	115	39	-	-
Enset	5158	393	7	106	145	99	36	-	-
Sugar Cane	4814	68	2	17	30	16	3	-	-
Other s	1317	4	*	1	3	*	*	-	-

TABLE 4.22.2 URBAN HOLDINGS

Type of crop	Number Of Holders Reporting	All Area In Hectare	Area By Size Of Holdings (In Hectare)						
			Less Than 0.10	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Total Cropland	1611	909	29	156	115	172	201	191	*
Temporary Crops	1393	432	25	131	59	77	84	*	*
Grain Crops	1383	425	25	130	58	76	79	*	*
Cereals	1351	377	24	116	49	69	72	*	*
Barley	1	*	-	*	-	-	-	-	-
Maize	1208	260	21	95	33	52	36	*	*
Millet	*	*	-	*	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Sorghum	439	117	3	20	16	17	37	*	*
Teff	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-
Pulses	13	1	-	*	*	*	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Haricot beans	13	1	-	*	*	*	-	-	-
Horse beans	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-
Other Pulses	-	-	-	-	-	-	-	-	-
Oilseeds	192	23	*	12	8	3	*	-	-
Groundnuts	155	17	*	8	7	*	*	-	-
Linseed	47	1	*	*	*	*	-	-	-
Neug	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-
Sesame	49	5	-	3	*	1	-	-	-
Sufflower	-	-	-	-	-	-	-	-	-
Other Grains	95	24	*	*	2	*	*	*	*
Vegetables	51	4	*	1	*	*	*	-	-
Head Cabbage	-	-	-	-	-	-	-	-	-
Green peppers	*	*	*	*	-	-	-	-	-
Ethiopian	4	*	*	*	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Red peppers	*	*	-	*	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Tomatoes	28	*	*	*	*	-	*	-	-
Other vegetables	12	*	*	*	*	*	-	-	-
Root Crops	52	4	*	*	*	*	*	-	-
Beetroot	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro/'Godere'	*	*	*	*	-	-	-	-	-
Onion	*	*	*	*	-	-	-	-	-
Potatoes	*	*	-	*	*	*	-	-	-
Sweet Potatoes	*	*	-	-	*	-	*	-	-
Other root	16	2	*	*	*	-	*	-	-
Permanent Crops	595	476	3	25	56	95	118	159	*
Fruit crops	266	9	1	3	*	2	1	*	*
Avocados	23	*	*	-	-	*	*	*	*
Bananas	50	2	*	*	*	*	1	*	-
Guavas	1	*	-	-	-	*	-	-	-
Lemons	*	*	-	*	-	-	-	-	-
Mangoes	201	4	1	2	*	*	*	*	*
Oranges	35	*	*	*	*	-	*	*	*
Papayas	88	2	*	*	*	2	*	-	*
Pinneapples	*	*	-	-	-	-	-	-	*
Other fruits	1	*	*	-	-	-	-	-	-
Stimulant crops	407	463	2	21	56	93	115	158	*
Chat	*	*	-	*	-	-	*	-	-
Coffee	407	462	2	21	56	93	114	158	*
Hops/'Gesho'	*	*	*	*	-	-	-	-	-
Other stimulants	-	-	-	-	-	-	-	-	-
Other permanent	40	5	*	*	-	*	*	-	*
Enset	*	*	*	*	-	*	-	-	-
Sugar Cane	27	5	*	*	-	-	*	-	*
Other s	-	-	-	-	-	-	-	-	-

TABLE 4.23. NUMBER OF HOLDERS AND AREA OF HOLDING WITH ALL CROPLAND BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Holdings With All Cropland								
	Number of Holders	Size Of Holding In Hectare							
		Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	30800	13592	308	3719	3915	3337	1954	315	*
Zone 1	12131	2360	171	1676	367	118	27	-	-
Jikawo	5275	1001	56	772	151	23	-	-	-
Itang	4085	809	66	571	111	61	-	-	-
Gambella	2771	549	49	333	105	34	27	-	-
Zone 2	18669	11233	137	2042	3548	3218	1927	315	*
Abobo	3736	2358	24	351	731	810	392	*	-
Jor	1013	497	5	169	178	*	*	-	-
Gog	2670	1283	28	287	350	333	285	-	-
Godare	11245	7094	79	1235	2289	1953	1228	265	*
Dima	5	*	*	*	-	-	-	-	-

TABLE 4.23.1 RURAL HOLDINGS

Geographic Area	Holdings With All Cropland								
	Number of Holders	Size Of Holding In Hectare							
		Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	29188	12684	279	3563	3800	3165	1753	*	-
Zone 1	11191	2130	151	1582	332	57	*	-	-
Jikawo	5275	1001	56	772	151	23	-	-	-
Itang	3675	703	59	515	101	27	-	-	-
Gambella	2240	427	36	295	81	*	*	-	-
Zone 2	17997	10554	129	1981	3468	3107	1745	*	-
Abobo	3736	2358	24	351	731	810	392	*	-
Jor	1013	497	5	169	178	*	*	-	-
Gog	2474	1246	24	260	345	333	285	-	-
Godare	10774	6452	75	1201	2214	1842	1046	*	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.23.2 URBAN HOLDINGS

Geographic Area	Holdings With All Cropland								
	Number of Holders	Size Of Holding In Hectare							
		Total Area	Under 0.1	0.1 - 0.50	0.51 – 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella	1611	909	29	156	115	172	201	191	*
Zone 1	940	229	20	94	34	61	19	-	-
Itang	410	107	7	56	*	*	-	-	-
Gambella	530	122	13	38	24	27	19	-	-
Zone 2	672	679	8	62	80	111	182	191	*
Gog	196	37	4	27	*	-	-	-	-
Godare	471	642	4	34	75	111	182	191	*
Dima	5	*	*	*	-	-	-	-	-

TABLE 4.24. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER ALL TEMPORARY CROPS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Holdings With All Temporary crops								
	Number of Holders	Size Of Holding In Hectare							
		Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	29159	9827	247	3129	2865	2304	1169	*	*
Zone 1	11565	2232	150	1592	348	115	26	-	-
Jikawo	5078	991	54	765	149	23	-	-	-
Itang	3885	764	59	544	101	60	-	-	-
Gambella	2602	477	37	284	98	32	26	-	-
Zone 2	17594	7596	97	1536	2517	2189	1143	*	*
Abobo	3604	2336	21	346	723	806	390	*	-
Jor	990	491	5	167	176	*	*	-	-
Gog	2418	1263	24	280	344	330	284	-	-
Godare	10577	3506	47	743	1273	930	447	40	*
Dima	5	*	*	*	-	-	-	-	-

TABLE 4.24.1 RURAL HOLDINGS

Geographic Area	Holdings With All Temporary crops								
	Number of Holders	Size Of Holding In Hectare							
		Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	27766	9395	221	2998	2806	2227	1085	*	-
Zone 1	10626	2007	130	1499	313	56	*	-	-
Jikawo	5078	991	54	765	149	23	-	-	-
Itang	3475	657	52	488	91	26	-	-	-
Gambella	2074	359	24	246	73	*	*	-	-
Zone 2	17140	7388	91	1498	2493	2171	1077	*	-
Abobo	3604	2336	21	346	723	806	390	*	-
Jor	990	491	5	167	176	*	*	-	-
Gog	2228	1228	20	255	339	330	284	-	-
Godare	10319	3333	46	731	1254	912	382	*	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.24.2 URBAN HOLDINGS

Geographic Area	Holdings With All Temporary crops								
	Number of Holders	Size Of Holding In Hectare							
		Total Area	Under 0.1	0.1 - 0.50	0.51 – 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella	1393	432	25	131	59	77	84	*	*
Zone 1	939	224	19	93	34	59	*	-	-
Itang	410	107	7	56	*	*	-	-	-
Gambella	529	117	12	37	24	25	*	-	-
Zone 2	454	208	6	38	24	18	65	*	*
Gog	190	35	4	26	*	-	-	-	-
Godare	259	172	1	12	19	18	65	*	*
Dima	5	*	*	*	-	-	-	-	-

TABLE 4.25. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER CEREALS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Holdings With Cereals								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	26276	8254	191	2748	2409	1880	945	58	*
Zone 1	10691	2040	128	1482	302	107	*	-	-
Jikawo	4775	923	48	728	126	21	-	-	-
Itang	3673	726	52	518	96	60	-	-	-
Gambella	2242	391	27	236	80	26	*	-	-
Zone 2	15585	6213	63	1267	2106	1773	924	58	*
Abobo	3203	1635	11	248	524	566	261	*	-
Jor	982	482	4	164	175	*	*	-	-
Gog	2210	1093	18	240	294	282	259	-	-
Godare	9186	3003	30	615	1113	805	385	32	*
Dima	4	*	*	*	-	-	-	-	-

TABLE 4.25.1 RURAL HOLDINGS

Geographic Area	Holdings With Cereal								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	24925	7877	167	2633	2360	1811	873	*	-
Zone 1	9753	1846	109	1401	276	52	*	-	-
Jikawo	4775	923	48	728	126	21	-	-	-
Itang	3264	619	45	462	86	26	-	-	-
Gambella	1713	303	15	211	64	*	*	-	-
Zone 2	15173	6031	58	1232	2084	1759	865	*	-
Abobo	3203	1635	11	248	524	566	261	*	-
Jor	982	482	4	164	175	*	*	-	-
Gog	2020	1059	14	215	289	282	259	-	-
Godare	8968	2854	29	605	1096	790	327	*	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.25.2 URABN HOLDINGS

Geographic Area	Holdings With Cereals								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 – 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella	1351	377	24	116	49	69	72	*	*
Zone 1	939	195	19	81	26	55	*	-	-
Itang	410	107	7	56	*	*	-	-	-
Gambella	529	88	12	25	16	21	*	-	-
Zone 2	412	182	5	35	23	15	59	*	*
Gog	190	34	4	25	*	-	-	-	-
Godare	218	148	1	10	17	15	59	*	*
Dima	4	*	*	*	-	-	-	-	-

TABLE 4.26. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER PULSES BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Holdings With Pulses								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	3801	117	13	38	31	26	*	-	-
Zone 1	1305	47	11	25	9	*	-	-	-
Jikawo	287	13	3	5	*	-	-	-	-
Itang	554	19	5	12	2	-	-	-	-
Gambella	464	15	3	7	*	*	-	-	-
Zone 2	2497	70	2	14	22	24	*	-	-
Abobo	444	6	*	*	*	1	*	-	-
Jor	*	*	-	-	-	-	*	-	-
Gog	116	2	*	*	-	-	*	-	-
Godare	1927	63	1	9	21	23	*	-	-
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.26.1 RURAL HOLDINGS

Geographic Area	Holdings With Pulses								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	3789	116	13	38	31	26	*	-	-
Zone 1	1292	46	11	24	9	*	-	-	-
Jikawo	287	13	3	5	*	-	-	-	-
Itang	554	19	5	12	2	-	-	-	-
Gambella	451	14	3	6	*	*	-	-	-
Zone 2	2497	70	2	14	22	24	*	-	-
Abobo	444	6	*	*	*	1	*	-	-
Jor	*	*	-	-	-	-	*	-	-
Gog	116	2	*	*	-	-	*	-	-
Godare	1927	63	1	9	21	23	*	-	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.26.2 URBAN HOLDINGS

Geographic Area	Holdings With Pulses								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella	13	1	-	*	*	*	-	-	-
Zone 1	13	1	-	*	*	*	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	13	1	-	*	*	*	-	-	-
Zone 2	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-	-	-
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.27. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER OILSEEDS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Holdings With Oilseeds								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 – 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	2457	367	6	53	95	101	90	*	-
Zone 1	437	34	2	21	8	3	*	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	64	2	1	*	-	-	-	-	-
Gambella	373	32	1	20	8	3	*	-	-
Zone 2	2020	334	4	32	87	98	90	*	-
Abobo	1295	319	2	27	83	95	89	*	-
Jor	*	*	-	*	-	-	-	-	-
Gog	295	6	1	2	*	1	*	-	-
Godare	426	9	*	2	3	*	-	-	-
Dima	1	*	-	*	-	-	-	-	-

TABLE 4.27.1 RURAL HOLDINGS

Geographic Area	Holdings With Oilseeds								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 – 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	2265	345	6	41	87	98	90	*	-
Zone 1	255	12	2	9	*	-	*	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	64	2	1	*	-	-	-	-	-
Gambella	191	10	1	9	*	-	*	-	-
Zone 2	2009	333	4	31	87	98	90	*	-
Abobo	1295	319	2	27	83	95	89	*	-
Jor	*	*	-	*	-	-	-	-	-
Gog	285	5	1	2	*	1	*	-	-
Godare	426	9	*	2	3	*	-	-	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.27.2 URBAN HOLDINGS

Geographic Area	Holdings With Oilseeds								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 – 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella	192	23	*	12	8	3	*	-	-
Zone 1	182	22	*	11	8	3	*	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	182	22	*	11	8	3	*	-	-
Zone 2	*	*	-	*	-	-	-	-	-
Gog	*	*	-	*	-	-	-	-	-
Godare	-	-	-	-	-	-	-	-	-
Dima	1	*	-	*	-	-	-	-	-

TABLE 4.28. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER OTHER GRAINS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Holdings With Other grains								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	3261	156	3	33	47	39	24	*	*
Zone 1	447	7	1	4	2	-	-	-	-
Jikawo	165	*	*	*	-	-	-	-	-
Itang	126	3	*	2	1	-	-	-	-
Gambella	157	3	*	*	*	-	-	-	-
Zone 2	2813	149	2	29	45	39	24	*	*
Abobo	170	2	*	*	*	*	*	*	-
Jor	44	1	*	*	*	-	*	-	-
Gog	*	*	-	-	*	-	-	-	-
Godare	2590	143	2	29	42	38	24	*	*
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.28.1 RURAL HOLDINGS

Geographic Area	Holdings With Other grains								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	3166	132	2	31	45	35	*	*	-
Zone 1	445	7	1	4	2	-	-	-	-
Jikawo	165	*	*	*	-	-	-	-	-
Itang	126	3	*	2	1	-	-	-	-
Gambella	155	3	*	*	*	-	-	-	-
Zone 2	2720	125	*	27	43	35	*	*	-
Abobo	170	2	*	*	*	*	*	*	-
Jor	44	1	*	*	*	-	*	-	-
Gog	*	*	-	-	*	-	-	-	-
Godare	2498	119	*	27	40	34	*	-	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.28.2 URBAN HOLDINGS

Geographic Area	Holdings With Other grains								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella	95	24	*	*	2	*	*	*	*
Zone 1	*	*	-	*	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	*	*	-	*	-	-	-	-	-
Zone 2	93	24	*	*	2	*	*	*	*
Gog	-	-	-	-	-	-	-	-	-
Godare	93	24	*	*	2	*	*	*	*
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.29. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER VEGETABLES BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Holdings With Vegetables								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 – 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	8840	565	13	127	176	182	67	*	-
Zone 1	861	31	2	23	3	*	*	-	-
Jikawo	278	14	*	*	*	-	-	-	-
Itang	131	2	*	2	*	-	-	-	-
Gambella	451	15	*	8	*	*	*	-	-
Zone 2	7980	534	11	103	173	182	65	*	-
Abobo	2772	331	*	54	106	125	39	*	-
Jor	*	*	-	*	-	*	-	-	-
Gog	1196	150	4	32	44	47	23	-	-
Godare	3989	53	2	16	23	9	*	*	-
Dima	3	*	*	-	-	-	-	-	-

TABLE 4.29.1 RURAL HOLDINGS

Geographic Area	Holdings With Vegetables								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	8790	562	13	126	176	182	65	*	-
Zone 1	819	28	2	23	*	*	-	-	-
Jikawo	278	14	*	*	*	-	-	-	-
Itang	131	2	*	2	*	-	-	-	-
Gambella	409	11	*	8	*	*	-	-	-
Zone 2	7971	534	11	103	173	182	65	*	-
Abobo	2772	331	*	54	106	125	39	*	-
Jor	*	*	-	*	-	*	-	-	-
Gog	1196	150	4	32	44	47	23	-	-
Godare	3983	53	2	16	23	9	*	*	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.29.2 URBAN HOLDINGS

Geographic Area	Holdings With Vegetables								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 – 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella	51	4	*	1	*	*	*	-	-
Zone 1	42	3	*	*	*	*	*	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	42	3	*	*	*	*	*	-	-
Zone 2	*	*	*	*	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	*	*	-	*	-	-	-	-	-
Dima	3	*	*	-	-	-	-	-	-

TABLE 4.30. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER ROOT CROPS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Holdings With Root crops								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 – 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	9849	367	21	129	108	76	33	*	-
Zone 1	1924	72	6	37	24	*	*	-	-
Jikawo	508	38	*	17	18	*	-	-	-
Itang	659	13	1	9	3	-	-	-	-
Gambella	757	21	4	11	3	*	*	-	-
Zone 2	7926	295	15	92	84	73	30	*	-
Abobo	1370	43	2	13	9	18	*	-	-
Jor	346	7	*	3	1	*	*	-	-
Gog	408	9	1	5	3	1	*	-	-
Godare	5798	236	12	72	71	53	27	*	-
Dima	2	*	*	*	-	-	-	-	-

TABLE 4.30.1 RURAL HOLDINGS

Geographic Area	Holdings With Root crops								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	9798	363	21	129	107	75	31	*	-
Zone 1	1887	69	6	37	23	*	*	-	-
Jikawo	508	38	*	17	18	*	-	-	-
Itang	659	13	1	9	3	-	-	-	-
Gambella	720	18	4	11	3	-	*	-	-
Zone 2	7910	295	15	92	84	73	30	*	-
Abobo	1370	43	2	13	9	18	*	-	-
Jor	346	7	*	3	1	*	*	-	-
Gog	404	9	1	5	3	1	*	-	-
Godare	5789	236	12	72	71	53	27	*	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.30.2 URBAN HOLDINGS

Geographic Area	Holdings With Root crops								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella	52	4	*	*	*	*	*	-	-
Zone 1	36	4	*	*	*	*	*	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	36	4	*	*	*	*	*	-	-
Zone 2	15	*	*	*	-	-	-	-	-
Gog	*	*	-	*	-	-	-	-	-
Godare	*	*	*	-	-	-	-	-	-
Dima	2	*	*	*	-	-	-	-	-

TABLE 4.31. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER ALL PERMANENT CROPS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Holdings With All Permanent crops								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 – 5.00	5.01 – 10	Over 10
Gambella Region	18692	3765	61	590	1050	1033	785	225	*
Zone 1	4483	128	21	84	19	3	1	-	-
Jikawo	1086	11	2	7	2	*	-	-	-
Itang	1955	45	7	28	9	*	-	-	-
Gambella	1442	72	12	49	8	2	1	-	-
Zone 2	14209	3637	40	506	1031	1029	785	225	*
Abobo	2168	22	*	5	7	4	*	*	-
Jor	327	7	*	2	1	*	*	-	-
Gog	1532	20	4	7	6	2	*	-	-
Godare	10181	3589	32	492	1016	1022	781	224	*
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.31.1 RURAL HOLDINGS

Geographic Area	Holdings With All Permanent crops								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 – 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	18097	3289	58	565	994	937	668	*	-
Zone 1	4417	123	20	83	19	*	-	-	-
Jikawo	1086	11	2	7	2	*	-	-	-
Itang	1955	45	7	28	9	*	-	-	-
Gambella	1376	67	11	48	8	*	-	-	-
Zone 2	13681	3165	38	482	975	936	668	*	-
Abobo	2168	22	*	5	7	4	*	*	-
Jor	327	7	*	2	1	*	*	-	-
Gog	1428	18	4	5	6	2	*	-	-
Godare	9757	3119	30	470	960	929	664	*	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.31.2 URBAN HOLDINGS

Geographic Area	Holdings With All Permanent crops								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella	595	476	3	25	56	95	118	159	*
Zone 1	66	5	1	1	-	2	1	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	66	5	1	1	-	2	1	-	-
Zone 2	529	471	3	24	56	93	117	159	*
Gog	105	2	*	2	*	-	-	-	-
Godare	424	470	2	22	56	93	117	159	*
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.32. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER FRUITS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Holdings With Fruit crops								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	16103	370	37	150	99	53	25	*	*
Zone 1	4459	126	21	83	18	3	1	-	-
Jikawo	1086	11	2	7	2	*	-	-	-
Itang	1952	44	7	27	9	*	-	-	-
Gambella	1421	72	12	49	8	2	1	-	-
Zone 2	11644	244	16	66	81	50	24	*	*
Abobo	2164	21	*	5	7	3	*	*	-
Jor	327	7	*	2	1	*	*	-	-
Gog	1532	19	4	7	6	2	*	-	-
Godare	7621	198	9	52	67	44	20	*	*
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.32.1 RURAL HOLDINGS

Geographic Area	Holdings With Fruit crops								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	15838	361	36	147	99	51	24	*	-
Zone 1	4393	121	20	82	18	*	-	-	-
Jikawo	1086	11	2	7	2	*	-	-	-
Itang	1952	44	7	27	9	*	-	-	-
Gambella	1355	67	11	48	8	*	-	-	-
Zone 2	11444	240	16	65	81	50	24	*	-
Abobo	2164	21	*	5	7	3	*	*	-
Jor	327	7	*	2	1	*	*	-	-
Gog	1428	17	4	5	5	2	*	-	-
Godare	7526	195	9	52	67	44	20	*	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.32.2 URBAN HOLDINGS

Geographic Area	Holdings With Fruit crops								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella	266	9	1	3	*	2	1	*	*
Zone 1	66	5	1	1	-	2	1	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	66	5	1	1	-	2	1	-	-
Zone 2	200	4	*	2	*	*	*	*	*
Gog	105	2	*	2	*	-	-	-	-
Godare	95	2	*	*	*	*	*	*	*
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.33. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER ALL STIMULANT CROPS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Holdings With All Stimulant crops								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 – 1.00	1.01 - 2.00	2.01 – 5.00	5.01 - 10	Over 10
Gambella Region	8358	2926	15	315	773	864	720	220	*
Zone 1	*	*	-	*	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	*	-	*	-	-	-	-	-
Gambella	-	-	-	-	-	-	-	-	-
Zone 2	8354	2926	15	315	773	864	720	220	*
Abobo	*	*	*	*	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	*	*	-	-	*	-	-	-	-
Godare	8288	2925	15	315	773	864	720	220	*
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.33.1 RURAL HOLDINGS

Geographic Area	Holdings With All Stimulant crops								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 – 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	7951	2463	13	294	718	771	605	*	-
Zone 1	*	*	-	*	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	*	-	*	-	-	-	-	-
Gambella	-	-	-	-	-	-	-	-	-
Zone 2	7946	2463	13	294	718	771	605	*	-
Abobo	*	*	*	*	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	*	*	-	-	*	-	-	-	-
Godare	7881	2462	13	294	718	771	605	*	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.33.2 URBAN HOLDINGS

Geographic Area	Holdings With All Stimulant crops								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 – 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella	407	463	2	21	56	93	115	158	*
Zone 1	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	-	-	-	-	-	-	-	-	-
Zone 2	407	463	2	21	56	93	115	158	*
Gog	-	-	-	-	-	-	-	-	-
Godare	407	463	2	21	56	93	115	158	*
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.34. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER CHAT BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Holdings With Chat								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	2242	38	*	8	16	10	4	-	-
Zone 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	-	-	-	-	-	-	-	-	-
Zone 2	2242	38	*	8	16	10	4	-	-
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	2242	38	*	8	16	10	4	-	-
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.34.1 RURAL HOLDINGS

Geographic Area	Holdings With Chat								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	2234	37	*	8	16	10	*	-	-
Zone 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	-	-	-	-	-	-	-	-	-
Zone 2	2234	37	*	8	16	10	*	-	-
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	2234	37	*	8	16	10	*	-	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.35. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER COFFEE BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Holdings With Coffee								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	8201	2874	14	304	753	850	715	220	*
Zone 1	*	*	-	*	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	*	-	*	-	-	-	-	-
Gambella	-	-	-	-	-	-	-	-	-
Zone 2	8197	2874	14	304	753	850	715	220	*
Abobo	*	*	*	*	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	8140	2873	14	304	753	850	715	220	*
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.35.1 RURAL HOLDINGS

Geographic Area	Holdings With Coffee								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	7794	2411	12	283	697	757	601	*	-
Zone 1	*	*	-	*	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	*	-	*	-	-	-	-	-
Gambella	-	-	-	-	-	-	-	-	-
Zone 2	7789	2411	12	283	697	757	601	*	-
Abobo	*	*	*	*	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	7732	2411	12	283	697	757	601	*	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.35.2 URBAN HOLDINGS

Geographic Area	Holdings With Coffee								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella	407	462	2	21	56	93	114	158	*
Zone 1	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	-	-	-	-	-	-	-	-	-
Zone 2	407	462	2	21	56	93	114	158	*
Gog	-	-	-	-	-	-	-	-	-
Godare	407	462	2	21	56	93	114	158	*
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.36. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER HOPS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Holdings With Hops/'Gesho'								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	1993	14	*	3	5	5	1	*	-
Zone 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	-	-	-	-	-	-	-	-	-
Zone 2	1993	14	*	3	5	5	1	*	-
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	*	*	-	-	*	-	-	-	-
Godare	1985	14	*	3	5	5	1	*	-
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.36.1 RURAL HOLDINGS

Geographic Area	Holdings With Hops/'Gesho'								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	1986	14	*	3	5	5	1	*	-
Zone 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	-	-	-	-	-	-	-	-	-
Zone 2	1986	14	*	3	5	5	1	*	-
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	*	*	-	-	*	-	-	-	-
Godare	1977	14	*	3	5	5	1	*	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.37. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER ALL OTHER PERMANENT CROPS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Holdings With All Other Permanent crops								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 – 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	7509	470	9	126	178	115	40	-	*
Zone 1	234	2	*	1	1	*	-	-	-
Jikawo	37	*	-	*	*	-	-	-	-
Itang	90	1	*	*	1	*	-	-	-
Gambella	106	1	*	*	*	-	-	-	-
Zone 2	7275	468	9	125	177	115	40	-	*
Abobo	72	*	*	*	*	*	*	-	-
Jor	*	*	-	-	*	-	-	-	-
Gog	178	1	*	*	*	*	-	-	-
Godare	7019	466	9	125	176	114	40	-	*
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.37.1 RURAL HOLDINGS

Geographic Area	Holdings With All Other Permanent crops								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	7469	465	9	124	178	115	39	-	-
Zone 1	232	2	*	1	1	*	-	-	-
Jikawo	37	*	-	*	*	-	-	-	-
Itang	90	1	*	*	1	*	-	-	-
Gambella	104	*	*	*	*	-	-	-	-
Zone 2	7237	463	9	124	177	115	39	-	-
Abobo	72	*	*	*	*	*	*	-	-
Jor	*	*	-	-	*	-	-	-	-
Gog	178	1	*	*	*	*	-	-	-
Godare	6982	461	9	123	176	114	39	-	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.37.2 URBAN HOLDINGS

Geographic Area	Holdings With All Other Permanent crops								
	Number of Holders	Size Of Holding In Hectare							
		Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella	40	5	*	*	-	*	*	-	*
Zone 1	*	*	-	*	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	*	*	-	*	-	-	-	-	-
Zone 2	38	5	*	*	-	*	*	-	*
Gog	-	-	-	-	-	-	-	-	-
Godare	38	5	*	*	-	*	*	-	*
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.38. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER ENSET BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Holdings With All Other Permanent crops								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 – 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	5171	393	7	106	145	99	36	-	-
Zone 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	-	-	-	-	-	-	-	-	-
Zone 2	5171	393	7	106	145	99	36	-	-
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	5171	393	7	106	145	99	36	-	-
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.38.1 RURAL HOLDINGS

Geographic Area	Holdings With Enset								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	5158	393	7	106	145	99	36	-	-
Zone 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	-	-	-	-	-	-	-	-	-
Zone 2	5158	393	7	106	145	99	36	-	-
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	5158	393	7	106	145	99	36	-	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.39. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER SUGARE CANE BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Holdings With Sugar cane								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 – 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	4841	73	2	19	30	16	4	-	*
Zone 1	212	1	*	1	*	*	-	-	-
Jikawo	27	*	-	*	*	-	-	-	-
Itang	87	1	*	*	*	*	-	-	-
Gambella	98	1	*	*	*	-	-	-	-
Zone 2	4629	72	2	18	30	16	4	-	*
Abobo	*	*	*	*	*	*	*	-	-
Jor	*	*	-	-	*	-	-	-	-
Gog	178	1	*	*	*	*	-	-	-
Godare	4398	70	2	18	30	15	4	-	*
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.39.1 RURAL HOLDINGS

Geographic Area	Holdings With Sugar cane								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	4814	68	2	17	30	16	3	-	-
Zone 1	209	1	*	1	*	*	-	-	-
Jikawo	27	*	-	*	*	-	-	-	-
Itang	87	1	*	*	*	*	-	-	-
Gambella	96	*	*	*	*	-	-	-	-
Zone 2	4605	67	2	17	30	16	3	-	-
Abobo	*	*	*	*	*	*	*	-	-
Jor	*	*	-	-	*	-	-	-	-
Gog	178	1	*	*	*	*	-	-	-
Godare	4373	65	2	17	30	15	3	-	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.39.2 URBAN HOLDINGS

Geographic Area	Holdings With Sugar cane								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella	27	5	*	*	-	-	*	-	*
Zone 1	*	*	-	*	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	*	*	-	*	-	-	-	-	-
Zone 2	25	4	*	*	-	-	*	-	*
Gog	-	-	-	-	-	-	-	-	-
Godare	25	4	*	*	-	-	*	-	*
Dima	-	-	-	-	-	-	-	-	-

TABLE 4.40. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER OTHER PERMANENT CROPS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

RURAL HOLDINGS

Geographic Area	Holdings With Other Permanents								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	1317	4	*	1	3	*	*	-	-
Zone 1	23	1	*	*	1	-	-	-	-
Jikawo	*	*	-	*	-	-	-	-	-
Itang	3	1	-	-	1	-	-	-	-
Gambella	*	*	*	-	-	-	-	-	-
Zone 2	1294	3	*	1	*	*	*	-	-
Abobo	*	*	-	*	*	-	*	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	1270	3	*	1	*	*	*	-	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.41 NUMBER OF HOLDERS UNDER ALL LAND TENURE SYSTEMS BY LAND USE AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Land Use By Size of Holding	All Holders	Number of Holders By Type of Land Tenures		
		Land Owned	Land Rented	Other Tenure
Holdings Of All Sizes				
All	32767	32239	2793	2282
Land Under Temporary Crops	29159	27678	2150	1657
Land under Permanent Crops	18695	18071	1108	540
Grazing Land	1115	1101	-	*
Fallow Land	13192	13072	84	84
Woodland	1569	1569	-	-
All Other Land	30070	29358	373	910
Holdings Under 0.10 Hectares Sizes				
All	5338	5127	358	345
Land Under Temporary Crops	3677	3364	219	199
Land under Permanent Crops	2712	2497	193	*
Grazing Land	*	*	-	-
Fallow Land	964	964	-	-
Woodland	*	*	-	-
All Other Land	4125	3895	147	237
Holdings Of 0.10-0.50 Hectares Sizes				
All	16051	15812	1225	1100
Land Under Temporary Crops	14406	13578	977	838
Land under Permanent Crops	7639	7388	391	237
Grazing Land	146	146	-	-
Fallow Land	6333	6281	*	*
Woodland	374	374	-	-
All Other Land	15010	14663	150	509
Holdings Of 0.51-1.00 Hectares Sizes				
All	6795	6737	846	488
Land Under Temporary Crops	6626	6366	664	344
Land under Permanent Crops	4778	4666	365	129
Grazing Land	384	370	-	*
Fallow Land	3199	3143	*	*
Woodland	531	531	-	-
All Other Land	6591	6480	77	112
Holdings Of 1.01-2.00 Hectares Sizes				
All	3548	3528	283	274
Land Under Temporary Crops	3475	3407	258	206
Land under Permanent Crops	2660	2618	109	*
Grazing Land	334	334	-	-
Fallow Land	2095	2083	-	*
Woodland	440	440	-	-
All Other Land	3412	3389	-	*
Holdings Of 2.01-5.00 Hectares Sizes				
All	956	956	63	*
Land Under Temporary Crops	913	900	*	*
Land under Permanent Crops	827	823	*	*
Grazing Land	231	231	-	-
Fallow Land	554	554	-	*
Woodland	165	165	-	-
All Other Land	885	885	-	-
Holdings Of 5.01-10.00 Hectares				
All	75	75	*	-
Land Under Temporary Crops	59	59	-	-
Land under Permanent Crops	75	75	*	-
Grazing Land	*	*	-	-
Fallow Land	*	*	-	-
Woodland	*	*	-	-
All Other Land	*	*	-	-
Holdings Over 10.00 Hectares				
All	*	*	-	-
Land Under Temporary Crops	*	*	-	-
Land under Permanent Crops	*	*	-	-
Grazing Land	-	-	-	-
Fallow Land	-	-	-	-
Woodland	-	-	-	-
All Other Land	-	-	-	-

TABLE 4.41.1 RURAL HOLDINGS

Land Use By Size of Holding	All Holders	Number of Holders By Type of Land Tenures		
		Land Owned	Land Rented	Other Tenure
Holdings Of All Sizes				
All	31155	30734	2678	2180
Land Under Temporary Crops	27766	26460	2055	1568
Land under Permanent Crops	18097	17502	1083	515
Grazing Land	1115	1101	-	*
Fallow Land	13192	13072	84	84
Woodland	1569	1569	-	-
All Other Land	30070	29358	373	910
Holdings Under 0.10 Hectares				
All	4696	4537	306	320
Land Under Temporary Crops	3112	2866	173	174
Land under Permanent Crops	2554	2345	187	*
Grazing Land	*	*	-	-
Fallow Land	964	964	-	-
Woodland	*	*	-	-
All Other Land	4125	3895	147	237
Holdings Of 0.10-0.50 Hectares				
All	15455	15252	1201	1070
Land Under Temporary Crops	13864	13080	958	808
Land under Permanent Crops	7478	7235	386	233
Grazing Land	146	146	-	-
Fallow Land	6333	6281	*	*
Woodland	374	374	-	-
All Other Land	15010	14663	150	509
Holdings Of 0.51-1.00 Hectares				
All	6642	6588	826	471
Land Under Temporary Crops	6496	6275	644	327
Land under Permanent Crops	4676	4564	365	129
Grazing Land	384	370	-	*
Fallow Land	3199	3143	*	*
Woodland	531	531	-	-
All Other Land	6591	6480	77	112
Holdings Of 1.01-2.00 Hectares				
All	3426	3422	268	258
Land Under Temporary Crops	3377	3327	249	197
Land under Permanent Crops	2583	2555	98	*
Grazing Land	334	334	-	-
Fallow Land	2095	2083	-	*
Woodland	440	440	-	-
All Other Land	3412	3389	-	*
Holdings Of 2.01-5.00 Hectares				
All	889	889	63	*
Land Under Temporary Crops	871	867	*	*
Land under Permanent Crops	761	757	*	-
Grazing Land	231	231	-	-
Fallow Land	554	554	-	*
Woodland	165	165	-	-
All Other Land	885	885	-	-
Holdings Of 5.01-10.00 Hectares				
All	*	*	*	-
Land Under Temporary Crops	*	*	-	-
Land under Permanent Crops	*	*	*	-
Grazing Land	*	*	-	-
Fallow Land	*	*	-	-
Woodland	*	*	-	-
All Other Land	*	*	-	-
Holdings Over 10.00 Hectares				
All	-	-	-	-
Land Under Temporary Crops	-	-	-	-
Land under Permanent Crops	-	-	-	-
Grazing Land	-	-	-	-
Fallow Land	-	-	-	-
Woodland	-	-	-	-
All Other Land	-	-	-	-

TABLE 4.41.2 URBAN HOLDINGS

Land Use By Size of Holding	All Holders	Number of Holders By Type of Land Tenures		
		Land Owned	Land Rented	Other Tenure
Holdings Of All Sizes				
All	1611	1505	115	102
Land Under Temporary Crops	1393	1218	95	89
Land under Permanent Crops	597	569	25	25
Holdings Under 0.10 Hectares Sizes				
All	642	590	52	25
Land Under Temporary Crops	565	499	46	25
Land under Permanent Crops	158	153	*	-
Holdings Of 0.10-0.50 Hectares Sizes				
All	596	560	*	30
Land Under Temporary Crops	542	498	*	30
Land under Permanent Crops	161	153	*	*
Holdings Of 0.51-1.00 Hectares Sizes				
All	153	149	20	17
Land Under Temporary Crops	129	92	20	17
Land under Permanent Crops	102	102	-	-
Holdings Of 1.01-2.00 Hectares Sizes				
All	122	107	*	17
Land Under Temporary Crops	98	80	*	*
Land under Permanent Crops	77	62	*	*
Holdings Of 2.01-5.00 Hectares Sizes				
All	66	66	-	*
Land Under Temporary Crops	42	34	-	*
Land under Permanent Crops	66	66	-	*
Holdings Of 5.01-10.00 Hectares				
All	29	29	*	-
Land Under Temporary Crops	*	*	-	-
Land under Permanent Crops	29	29	*	-
Holdings Over 10.00 Hectares				
All	*	*	-	-
Land Under Temporary Crops	*	*	-	-
Land under Permanent Crops	*	*	-	-

TABLE 4.42 NUMBER OF HOLDERS WITH LAND OWNED BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Land Owned							
	Number of Holders By Size Of holdings (Hectare)							
	All Holders	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 – 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	32239	5127	15812	6737	3528	956	75	*
Zone 1	13361	2459	8905	1602	378	16	-	-
Jikawo	6287	668	4808	691	121	-	-	-
Itang	4124	800	2512	582	223	*	-	-
Gambella	2950	992	1585	330	34	*	-	-
Zone 2	18878	2668	6907	5135	3150	940	75	*
Abobo	3740	*	1175	984	742	242	*	-
Jor	1146	136	592	301	*	*	-	-
Gog	2921	565	1309	619	319	108	-	-
Godare	11067	1373	3830	3230	1983	580	67	*
Dima	5	4	1	-	-	-	-	-

TABLE 4.42.1 RURAL HOLDINGS

Geographic Area	Land Owned							
	Number of Holders By Size Of holdings (Hectare)							
	All Holders	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	30734	4537	15252	6588	3422	889	*	-
Zone 1	12470	2033	8541	1555	330	*	-	-
Jikawo	6287	668	4808	691	121	-	-	-
Itang	3760	675	2314	569	196	*	-	-
Gambella	2423	690	1419	296	*	*	-	-
Zone 2	18264	2504	6711	5033	3091	879	*	-
Abobo	3740	*	1175	984	742	242	*	-
Jor	1146	136	592	301	*	*	-	-
Gog	2725	492	1196	610	319	108	-	-
Godare	10653	1286	3748	3137	1924	519	*	-
Dima*	-	-	-	-	-	-	-	-

TABLE 4.42.2 URBAN HOLDINGS

Geographic Area	Land Owned							
	Number of Holders By Size Of holdings (Hectare)							
	All Holders	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10.00	Over 10.00
Gambella Region	1505	590	560	149	107	66	29	*
Zone 1	891	426	364	47	48	6	-	-
Itang	364	125	199	*	*	-	-	-
Gambella	527	301	165	34	21	6	-	-
Zone 2	614	164	196	102	59	61	29	*
Gog	196	73	113	*	-	-	-	-
Godare	414	87	82	93	59	61	29	*
Dima	5	4	1	-	-	-	-	-

TABLE 4.43 NUMBER OF HOLDERS WITH LAND RENTED BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Land Rented							
	Number of Holders By Size Of holdings (Hectare)							
	All Holders	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	2793	358	1225	846	283	63	*	-
Zone 1	490	67	381	42	-	-	-	-
Jikawo	85	*	73	-	-	-	-	-
Itang	231	*	191	*	-	-	-	-
Gambella	174	*	117	*	-	-	-	-
Zone 2	2303	291	844	804	283	63	*	-
Abobo	152	*	*	*	*	*	-	-
Jor	*	*	-	*	-	-	-	-
Gog	70	*	*	*	*	-	-	-
Godare	2062	191	802	750	252	*	*	-
Dima	1	-	1	-	-	-	-	-

TABLE 4.43.1 RURAL HIOLDINGS

Geographic Area	Land Rented							
	Number of Holders By Size Of holdings (Hectare)							
	All Holders	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	2678	306	1201	826	268	63	*	-
Zone 1	443	38	363	42	-	-	-	-
Jikawo	85	*	73	-	-	-	-	-
Itang	186	-	172	*	-	-	-	-
Gambella	173	*	117	*	-	-	-	-
Zone 2	2235	268	838	784	268	63	*	-
Abobo	152	*	*	*	*	*	-	-
Jor	*	*	-	*	-	-	-	-
Gog	70	*	*	*	*	-	-	-
Godare	1996	168	797	729	237	*	*	-
Dima*	-	-	-	-	-	-	-	-

TABLE 4.43.2 URBAN HOLDINGS

Geographic Area	Land Rented							
	Number of Holders By Size Of holdings (Hectare)							
	All Holders	Under 0.1	0.1 - 0.50	0.51 – 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10.00
Gambella Region	115	52	*	20	*	-	*	-
Zone 1	47	*	*	-	-	-	-	-
Itang	46	*	*	-	-	-	-	-
Gambella	1	1	-	-	-	-	-	-
Zone 2	68	23	*	20	*	-	*	-
Gog	-	-	-	-	-	-	-	-
Godare	67	23	*	20	*	-	*	-
Dima	1	-	1	-	-	-	-	-

TABLE 4.44 NUMBER OF HOLDERS WITH OTHER TENURE SYSTEMS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Other Tenure							
	Number of Holders By Size Of holdings (Hectare)							
	All holders	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	2282	345	1100	488	274	*	-	-
Zone 1	163	37	92	*	*	-	-	-
Jikawo	*	-	*	*	-	-	-	-
Itang	34	9	18	*	*	-	-	-
Gambella	76	*	*	*	-	-	-	-
Zone 2	2119	307	1007	458	271	*	-	-
Abobo	363	*	85	86	112	*	-	-
Jor	-	-	-	-	-	-	-	-
Gog	107	43	57	*	-	-	-	-
Godare	1649	218	865	366	159	*	-	-
Dima	-	-	-	-	-	-	-	-

TABLE 4.44.1 RURAL HOLDINGS

Geographic Area	Other Tenure							
	Number of Holders By Size Of holdings (Hectare)							
	All holders	Under 0.1	0.1 – 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	2180	320	1070	471	258	*	-	-
Zone 1	161	36	92	*	*	-	-	-
Jikawo	*	-	*	*	-	-	-	-
Itang	34	9	18	*	*	-	-	-
Gambella	74	*	*	*	-	-	-	-
Zone 2	2019	284	978	441	254	*	-	-
Abobo	363	*	85	86	112	*	-	-
Jor	-	-	-	-	-	-	-	-
Gog	94	30	57	*	-	-	-	-
Godare	1562	208	835	349	142	*	-	-
Dima*	-	-	-	-	-	-	-	-

TABLE 4.44.2 URBAN HOLDINGS

Geographic Area	Other Tenure							
	Number of Holders By Size Of holdings (Hectare)							
	All holders	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 – 10	Over 10.00
Gambella Region	102	25	30	17	17	*	-	-
Zone 1	*	*	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-
Gambella	*	*	-	-	-	-	-	-
Zone 2	100	23	30	17	17	*	-	-
Gog	13	13	-	-	-	-	-	-
Godare	87	*	30	17	17	*	-	-
Dima	-	-	-	-	-	-	-	-

TABLE 4.45 AREA OF HOLDINGS UNDER ALL LAND TENURE SYSTEMS BY LAND USE AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Land Use By Size of Holding	Total Area	Area In Hectares By Type of Land Tenures		
		Land Owned	Land Rented	Other Tenure
Holdings Of All Sizes				
All	17190	16078	626	486
Land Under Temporary Crops	9827	8981	448	398
Land under Permanent Crops	3766	3541	168	57
Grazing Land	174	174	-	*
Fallow Land	2905	2883	*	*
Woodland	64	64	-	-
All Other Land	454	435	3	17
Holdings Under 0.10 Hectares Sizes				
All	246	220	12	14
Land Under Temporary Crops	133	118	7	8
Land under Permanent Crops	42	39	3	*
Grazing Land	*	*	-	-
Fallow Land	34	34	-	-
Woodland	*	*	-	-
All Other Land	37	30	*	6
Holdings Of 0.10-0.50 Hectares Sizes				
All	4279	3969	165	145
Land Under Temporary Crops	2672	2405	139	128
Land under Permanent Crops	458	431	22	*
Grazing Land	5	5	-	-
Fallow Land	964	960	*	*
Woodland	*	*	-	-
All Other Land	171	160	1	10
Holdings Of 0.51-1.00 Hectares Sizes				
All	4794	4414	251	128
Land Under Temporary Crops	2838	2547	182	109
Land under Permanent Crops	972	891	64	*
Grazing Land	29	29	-	*
Fallow Land	823	817	*	*
Woodland	7	7	-	-
All Other Land	124	123	*	1
Holdings Of 1.01-2.00 Hectares Sizes				
All	4771	4472	149	150
Land Under Temporary Crops	2664	2434	113	117
Land under Permanent Crops	1118	1059	36	23
Grazing Land	*	*	-	-
Fallow Land	832	823	-	*
Woodland	13	13	-	-
All Other Land	79	79	-	*
Holdings Of 2.01-5.00 Hectares Sizes				
All	2572	2503	*	49
Land Under Temporary Crops	1381	1339	*	*
Land under Permanent Crops	815	789	*	*
Grazing Land	*	*	-	-
Fallow Land	235	234	-	*
Woodland	*	*	-	-
All Other Land	38	38	-	-
Holdings Of 5.01-10.00 Hectares				
All	482	454	*	-
Land Under Temporary Crops	114	114	-	-
Land under Permanent Crops	339	311	*	-
Grazing Land	*	*	-	-
Fallow Land	*	*	-	-
Woodland	*	*	-	-
All Other Land	*	*	-	-
Holdings Over 10.00 Hectares				
All	*	*	-	-
Land Under Temporary Crops	*	*	-	-
Land under Permanent Crops	*	*	-	-
Grazing Land	-	-	-	-
Fallow Land	-	-	-	-
Woodland	-	-	-	-
All Other Land	-	-	-	-

TABLE 4.45.1 RURAL HOLDINGS

Land Use By Size of Holding	Total Area	Area In Hectares By Type of Land Tenures		
		Land Owned	Land Rented	Other Tenure
Holdings Of All Sizes				
All	16281	15277	564	440
Land Under Temporary Crops	9395	8588	433	375
Land under Permanent Crops	3289	3133	121	35
Grazing Land	174	174	-	*
Fallow Land	2905	2883	*	*
Woodland	64	64	-	-
All Other Land	454	435	3	17
Holdings Under 0.10 Hectares Sizes				
All	217	196	10	12
Land Under Temporary Crops	107	97	5	6
Land under Permanent Crops	39	36	*	*
Grazing Land	*	*	-	-
Fallow Land	34	34	-	-
Woodland	*	*	-	-
All Other Land	37	30	*	6
Holdings Of 0.10-0.50 Hectares Sizes				
All	4123	3833	154	137
Land Under Temporary Crops	2541	2290	131	120
Land under Permanent Crops	433	409	19	*
Grazing Land	5	5	-	-
Fallow Land	964	960	*	*
Woodland	*	*	-	-
All Other Land	171	160	1	10
Holdings Of 0.51-1.00 Hectares Sizes				
All	4679	4310	248	122
Land Under Temporary Crops	2779	2498	179	102
Land under Permanent Crops	916	835	64	*
Grazing Land	29	29	-	*
Fallow Land	823	817	*	*
Woodland	7	7	-	-
All Other Land	124	123	*	1
Holdings Of 1.01-2.00 Hectares Sizes				
All	4599	4329	132	138
Land Under Temporary Crops	2587	2359	113	116
Land under Permanent Crops	1022	991	*	*
Grazing Land	*	*	-	-
Fallow Land	832	823	-	*
Woodland	13	13	-	-
All Other Land	79	79	-	*
Holdings Of 2.01-5.00 Hectares Sizes				
All	2371	2318	*	*
Land Under Temporary Crops	1298	1261	*	*
Land under Permanent Crops	697	682	*	-
Grazing Land	*	*	-	-
Fallow Land	235	234	-	*
Woodland	*	*	-	-
All Other Land	38	38	-	-
Holdings Of 5.01-10.00 Hectares				
All	292	291	*	-
Land Under Temporary Crops	*	*	-	-
Land under Permanent Crops	*	*	*	-
Grazing Land	*	*	-	-
Fallow Land	*	*	-	-
Woodland	*	*	-	-
All Other Land	*	*	-	-
Holdings Over 10.00 Hectares				
All	-	-	-	-
Land Under Temporary Crops	-	-	-	-
Land under Permanent Crops	-	-	-	-
Grazing Land	-	-	-	-
Fallow Land	-	-	-	-
Woodland	-	-	-	-
All Other Land	-	-	-	-

TABLE 4.45.2 URBAN HOLDINGS

Land Use By Size of Holding	Total Area	Area In Hectares By Type of Land Tenures		
		Land Owned	Land Rented	Other Tenure
Holdings Of All Sizes				
All	909	801	62	46
Land Under Temporary Crops	431	393	15	24
Land under Permanent Crops	477	408	*	22
Holdings Under 0.10 Hectares Sizes				
All	29	25	2	2
Land Under Temporary Crops	25	21	2	2
Land under Permanent Crops	3	3	*	-
Holdings Of 0.10-0.50 Hectares Sizes				
All	156	137	*	8
Land Under Temporary Crops	131	115	*	8
Land under Permanent Crops	25	22	*	*
Holdings Of 0.51-1.00 Hectares Sizes				
All	115	105	4	*
Land Under Temporary Crops	59	49	4	*
Land under Permanent Crops	56	56	-	-
Holdings Of 1.01-2.00 Hectares Sizes				
All	172	143	*	12
Land Under Temporary Crops	77	74	*	*
Land under Permanent Crops	95	68	*	*
Holdings Of 2.01-5.00 Hectares Sizes				
All	201	185	-	*
Land Under Temporary Crops	83	78	-	*
Land under Permanent Crops	118	107	-	*
Holdings Of 5.01-10.00 Hectares				
All	191	163	*	-
Land Under Temporary Crops	*	*	-	-
Land under Permanent Crops	159	131	*	-
Holdings Over 10.00 Hectares				
All	*	*	-	-
Land Under Temporary Crops	*	*	-	-
Land under Permanent Crops	*	*	-	-

TABLE 4.46. AREA OF HOLDINGS UNDER LAND OWNED BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Land Owned							
	Area By Size Of holdings (Hectare)							
	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	16078	220	3969	4414	4472	2503	454	*
Zone 1	3897	112	2217	1060	465	43	-	-
Jikawo	1840	29	1227	442	142	-	-	-
Itang	1351	42	612	404	279	*	-	-
Gambella	706	42	379	214	44	28	-	-
Zone 2	12181	108	1752	3355	4007	2460	454	*
Abobo	2614	24	322	673	947	594	*	-
Jor	565	7	189	203	*	*	-	-
Gog	1524	24	350	422	418	310	-	-
Godare	7478	53	892	2056	2503	1528	402	*
Dima	*	*	*	-	-	-	-	-

TABLE 4.46.1 RURAL HOLDINGS

Geographic Area	Land Owned							
	Area By Size Of holdings (Hectare)							
	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	15277	196	3833	4310	4329	2318	291	-
Zone 1	3678	94	2131	1025	404	*	-	-
Jikawo	1840	29	1227	442	142	-	-	-
Itang	1254	36	564	394	245	*	-	-
Gambella	584	29	340	190	*	*	-	-
Zone 2	11599	102	1701	3284	3926	2295	291	-
Abobo	2614	24	322	673	947	594	*	-
Jor	565	7	189	203	*	*	-	-
Gog	1489	21	323	417	418	310	-	-
Godare	6932	51	868	1991	2422	1362	*	-
Dima*	-	-	-	-	-	-	-	-

TABLE 4.46.2 URBAN HOLDINGS

Geographic Area	Land Owned							
	Area By Size Of holdings (Hectare)							
	Total Area	Under 0.1	0.1 – 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	801	25	137	105	143	185	163	*
Zone 1	219	19	86	34	61	19	-	-
Itang	97	6	47	*	*	-	-	-
Gambella	122	13	38	24	27	19	-	-
Zone 2	581	6	51	70	81	165	163	*
Gog	35	3	27	*	-	-	-	-
Godare	546	2	24	65	81	165	163	*
Dima	*	*	*	-	-	-	-	-

TABLE 4.47. AREA OF HOLDINGS UNDER LAND RENTED BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Land Rented							
	Area By Size Of holdings (Hectare)							
	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	626	12	165	251	149	*	*	-
Zone 1	68	3	59	*	-	-	-	-
Jikawo	*	*	*	-	-	-	-	-
Itang	43	*	38	*	-	-	-	-
Gambella	19	*	15	*	-	-	-	-
Zone 2	559	9	106	246	149	*	*	-
Abobo	*	*	*	*	*	*	-	-
Jor	*	*	-	*	-	-	-	-
Gog	*	*	*	*	*	-	-	-
Godare	506	7	103	223	127	*	*	-
Dima	*	-	*	-	-	-	-	-

TABLE 4.47.1 RURAL HOLDINGS

Geographic Area	Land Rented							
	Area By Size Of holdings (Hectare)							
	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	564	10	154	248	132	*	*	-
Zone 1	58	*	51	*	-	-	-	-
Jikawo	*	*	*	-	-	-	-	-
Itang	33	-	30	*	-	-	-	-
Gambella	19	*	15	*	-	-	-	-
Zone 2	506	9	103	242	132	*	*	-
Abobo	*	*	*	*	*	*	-	-
Jor	*	*	-	*	-	-	-	-
Gog	*	*	*	*	*	-	-	-
Godare	454	7	101	220	110	*	*	-
Dima*	-	-	-	-	-	-	-	-

TABLE 4.47.2 URBAN HOLDINGS

Geographic Area	Land Rented							
	Area By Size Of holdings (Hectare)							
	Total Area	Under 0.1	0.1 – 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10.00	Over 10
Gambella Region	62	2	*	4	*	-	*	-
Zone 1	*	1	*	-	-	-	-	-
Itang	*	1	*	-	-	-	-	-
Gambella	*	*	-	-	-	-	-	-
Zone 2	*	1	*	4	*	-	*	-
Gog	-	-	-	-	-	-	-	-
Godare	*	1	*	4	*	-	*	-
Dima	*	-	*	-	-	-	-	-

TABLE 4.48. AREA OF HOLDINGS UNDER OTHER TENURE BY GEOGRAPHIC AREA AND SIZE OF HOLDING

BOTH RURAL AND URBAN HOLDINGS

Geographic Area	Other Tenure							
	Area By Size Of holdings (Hectare)							
	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	486	14	145	128	150	49	-	-
Zone 1	7	1	3	*	*	-	-	-
Jikawo	*	-	*	*	-	-	-	-
Itang	2	*	*	*	*	-	-	-
Gambella	4	*	*	*	-	-	-	-
Zone 2	479	12	141	126	150	49	-	-
Abobo	124	*	12	21	65	*	-	-
Jor	-	-	-	-	-	-	-	-
Gog	13	2	11	*	-	-	-	-
Godare	342	9	118	106	*	*	-	-
Dima	-	-	-	-	-	-	-	-

TABLE 4.48.1 RURAL HOLDINGS

Geographic Area	Other Tenure							
	Area By Size Of holdings (Hectare)							
	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	440	12	137	122	138	*	-	-
Zone 1	6	1	3	*	*	-	-	-
Jikawo	*	-	*	*	-	-	-	-
Itang	2	*	*	*	*	-	-	-
Gambella	*	*	*	*	-	-	-	-
Zone 2	434	10	133	120	138	*	-	-
Abobo	124	*	12	21	65	*	-	-
Jor	-	-	-	-	-	-	-	-
Gog	12	*	11	*	-	-	-	-
Godare	297	9	110	99	*	*	-	-
Dima*	-	-	-	-	-	-	-	-

TABLE 4.48.2 URBAN HOLDINGS

Geographic Area	Other Tenure							
	Area By Size Of holdings (Hectare)							
	Total Area	Under 0.1	0.1 – 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10.00	Over 10
Gambella Region	46	2	8	*	12	*	-	-
Zone 1	*	*	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-
Gambella	*	*	-	-	-	-	-	-
Zone 2	46	2	8	*	12	*	-	-
Gog	1	1	-	-	-	-	-	-
Godare	44	*	8	*	12	*	-	-
Dima	-	-	-	-	-	-	-	-

TABLE 4.49. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER ALL CROPLAND AND SIZE OF HOLDING

RURAL HOLDINGS-BELG SEASON

TYPE OF CROP	Number Of Holders Reporting	All Area In Hectare	Area By Size Of Holdings in Hectare						
			Under 0.10	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 -	5.01 - 10	Over 10
Temporary Crops	14474	2987	258	1798	683	235	*	-	-
Grain Crops	14423	2922	252	1759	663	235	*	-	-
Cereals	14378	2783	241	1654	640	234	*	-	-
Barley	-	-	-	-	-	-	-	-	-
Maize	14371	2772	240	1646	637	234	*	-	-
Millet	*	*	-	*	*	-	-	-	-
Oats/'Aja'	*	*	-	*	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Sorghum	*	*	*	*	-	-	-	-	-
Teff	*	*	-	*	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-
Pulses	2848	108	10	85	13	*	-	-	-
Chick Peas	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Haricot beans	2836	108	10	85	13	*	-	-	-
Horse beans	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Lentils	*	*	-	*	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-
Other Pulses	-	-	-	-	-	-	-	-	-
Oilseeds	97	21	*	*	*	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-	-
Linseed	*	*	-	*	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-
Rape seed	*	*	*	-	-	-	-	-	-
Sesame	62	21	-	*	*	-	-	-	-
Sufflower	*	*	*	-	-	-	-	-	-
Other Grains	326	10	*	9	-	-	-	-	-
Vegetables	1944	49	5	30	15	*	-	-	-
Head Cabbage	*	*	*	-	-	-	-	-	-
Green peppers	*	*	-	*	*	-	-	-	-
Ethiopian Cabbage	925	9	2	7	*	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Tomatoes	*	*	*	-	-	-	-	-	-
Other vegetables	954	39	3	22	14	*	-	-	-
Root Crops	702	16	2	9	6	-	-	-	-
Beetroot	*	*	-	-	*	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Garlic	*	*	-	*	*	-	-	-	-
Taro/'Godere'	511	11	1	*	*	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-
Potatoes	82	*	*	*	*	-	-	-	-
Sweet Potatoes	92	3	*	*	*	-	-	-	-
Other root	*	*	*	*	*	-	-	-	-

TABLE 4.50. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER ALL TEMPORARY CROPS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

RURAL HOLDINGS-BELG SEASON

Geographic Area	Holdings With All Temporary crops								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.10	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	14474	2987	258	1798	683	235	*	-	-
Zone 1	2864	570	52	402	83	*	*	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	1268	270	24	182	45	*	*	-	-
Gambella	1596	299	28	220	38	*	-	-	-
Zone 2	11610	2418	206	1396	600	216	-	-	-
Abobo	635	57	21	25	*	-	-	-	-
Jor	478	54	16	38	-	-	-	-	-
Gog	1622	281	35	172	67	*	-	-	-
Godare	8874	2025	133	1160	522	210	-	-	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.51. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER CEREALS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

RURAL HOLDINGS-BELG SEASON

Geographic Area	Holdings With Cereals								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 – 2.00	2.01 - 5.00	5.01 - 10.00	Over 10
Gambella Region	14378	2783	241	1654	640	234	*	-	-
Zone 1	2860	560	51	395	81	*	*	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	1265	269	24	181	45	*	*	-	-
Gambella	1596	291	27	214	36	*	-	-	-
Zone 2	11518	2222	189	1258	558	216	-	-	-
Abobo	594	37	21	14	*	-	-	-	-
Jor	478	54	16	38	-	-	-	-	-
Gog	1622	269	35	167	61	*	-	-	-
Godare	8824	1863	118	1040	495	209	-	-	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.52. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER PULSES BY GEOGRAPHIC AREA AND SIZE OF HOLDING

RURAL HOLDINGS-BELG SEASON

Geographic Area	Holdings With Pulses								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 – 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	2848	108	10	85	13	*	-	-	-
Zone 1	*	*	-	*	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	*	*	-	*	-	-	-	-	-
Zone 2	2810	107	10	84	13	*	-	-	-
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	*	*	-	*	-	-	-	-	-
Godare	2793	107	10	84	13	*	-	-	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.53. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER OILSEEDS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

RURAL HOLDINGS-BELG SEASON

Geographic Area	Holdings With Oilseeds								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 – 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	97	21	*	*	*	-	-	-	-
Zone 1	*	*	-	*	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	*	-	*	-	-	-	-	-
Gambella	-	-	-	-	-	-	-	-	-
Zone 2	93	21	*	*	*	-	-	-	-
Abobo	62	21	-	*	*	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	*	*	*	-	-	-	-	-	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.54. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER OTHER GRAINS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

RURAL HOLDINGS-BELG SEASON

Geographic Area	Holdings With Other grains								
		Size Of Holding In Hectare							
	Number of Holders	Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 – 2.00	2.01 - 5.00	5.01 – 10	Over 10
Gambella Region	326	10	*	9	-	-	-	-	-
Zone 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	-	-	-	-	-	-	-	-	-
Zone 2	326	10	*	9	-	-	-	-	-
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	326	10	*	9	-	-	-	-	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.55. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER VEGETABLES BY GEOGRAPHIC AREA AND SIZE OF HOLDING

RURAL HOLDINGS-BELG SEASON

Geographic Area	Holdings With Vegetables								
	Number of Holders	Size Of Holding In Hectare							
		Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 – 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	1944	49	5	30	15	*	-	-	-
Zone 1	*	*	*	*	*	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambella	*	*	*	*	*	-	-	-	-
Zone 2	1852	43	4	25	13	*	-	-	-
Abobo	*	*	*	*	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	155	9	1	5	*	-	-	-	-
Godare	1670	34	4	19	10	*	-	-	-
Dima*	-	-	-	-	-	-	-	-	-

TABLE 4.56. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER ROOT CROPS BY GEOGRAPHIC AREA AND SIZE OF HOLDING

RURAL HOLDINGS-BELG SEASON

Geographic Area	Holdings With Root crops								
	Number of Holders	Size Of Holding In Hectare							
		Total Area	Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 – 2.00	2.01 - 5.00	5.01 - 10	Over 10
Gambella Region	702	16	2	9	6	-	-	-	-
Zone 1	45	1	*	*	*	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	13	*	*	*	-	-	-	-	-
Gambella	33	*	*	*	*	-	-	-	-
Zone 2	656	15	2	9	5	-	-	-	-
Abobo	*	*	*	-	-	-	-	-	-
Jor	*	*	*	-	-	-	-	-	-
Gog	26	*	-	*	*	-	-	-	-
Godare	566	12	*	8	3	-	-	-	-
Dima*	-	-	-	-	-	-	-	-	-

ANNEX TABLES PRESENTING ESTIMATES, STANDARD ERRORS AND COEFFICIENTS OF VARIATION FOR SELECTED LAND USE VARIABLES

Annex Tables 4.1 - 4.4.2

Annex Table 4.1: Estimates of Agricultural holders by Type of holdings and their Standard errors and Coefficients of Variation

Both Rural and Urban holdings

Type of holding	All Numbers			Size of Holding In Hectare								
				Under 0.10			0.10-0.50			0.51-1.00		
	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %
All	32767	836	3	5338	466	9	16051	495	3	6795	390	6
Crop only	8111	442	5	1967	269	14	4031	217	5	1452	158	11
Livestock only	1968	305	15	782	115	15	1097	276	25	74	34	46
Crop and Livestock	22689	672	3	2588	266	10	10924	416	4	5269	340	6

Table 4.1 Continued

Type of holding	Size of Holding In Hectare											
	1.01-2.00			2.01-5.00			5.01-10.00			Over 10		
	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %
All	3548	275	8	956	138	14	75	25	33	4	3	85
Crop only	558	92	17	94	23	25	9	5	62	-	-	-
Livestock only	15	9	61	-	-	-	-	-	-	-	-	-
Crop and Livestock	2975	240	8	862	133	15	67	25	37	4	3	85

Annex Table 4.1.1 Rural holdings

Type of holding	All Numbers			Size of Holding In Hectare								
				Under 0.10			0.10-0.50			0.51-1.00		
	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %
All	31154	834	3	4696	464	10	15455	493	3	6642	389	6
Crop only	7731	440	6	1849	268	15	3868	215	6	1413	158	11
Livestock only	1968	305	15	782	115	15	1097	276	25	74	34	46
Crop and Livestock	21457	670	3	2065	262	13	10490	414	4	5155	340	7

Table 4.1.1 Continued

Type of holding	Size of Holding In Hectare											
	1.01-2.00			2.01-5.00			5.01-10.00			Over 10		
	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %
All	3426	274	8	889	138	16	46	23	50	-	-	-
Crop only	547	92	17	54	21	39	-	-	-	-	-	-
Livestock only	15	9	61	-	-	-	-	-	-	-	-	-
Crop and Livestock	2865	239	8	836	133	16	46	23	50	-	-	-

Annex Table 4.1.2 Urban holdings

Type of holding	All Numbers			Size of Holding In Hectare								
				Under 0.10			0.10-0.50			0.51-1.00		
	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %
All	1612	45	3	642	46	7	596	45	8	153	24	16
Crop only	381	34	9	118	22	18	163	24	15	39	11	29
Livestock only	-	-	-	-	-	-	-	-	-	-	-	-
Crop and Livestock	1231	49	4	524	43	8	433	42	10	114	22	19

Table 4.1.2 Continued

Type of holding	Size of Holding In Hectare											
	1.01-2.00			2.01-5.00			5.01-10.00			Over 10		
	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %
All	122	25	20	66	13	19	29	9	32	4	3	85
Crop only	11	6	49	41	11	26	9	5	62	-	-	-
Livestock only	-	-	-	-	-	-	-	-	-	-	-	-
Crop and Livestock	110	24	22	26	8	32	20	8	38	4	3	85

Annex Table 4.2 : Estimates of Agricultural holders, Area of holding and number of parcels by Type of Land use and their Standard errors and Coefficients of Variation

Both Rural and Urban holdings

Land Use By Size Of Holding	Number of Holders			Holding Area in Hectare			Number Of Parcels		
	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %
Holdings Of All Sizes									
All	32767	836	3	17190	793	5	79935	2551	3
Land Under Temporary Crops	29159	792	3	9827	466	5	47073	1612	3
Land Under Permanent Crops	18695	803	4	3766	410	11	30245	1732	6
Grazing Land	1115	260	23	174	74	42	1339	344	26
Fallow Land	13192	732	6	2905	196	7	15081	824	5
Woodland	1569	286	18	64	21	34	1736	320	18
All Other Land	30070	788	3	454	29	6	35929	1136	3
Holdings Under 0.10 Hectares									
All	5338	466	9	246	20	8	8192	680	8
Land Under Temporary Crops	3677	363	10	133	10	7	4287	433	10
Land Under Permanent Crops	2712	408	15	42	6	14	3162	501	16
Grazing Land	6	5	93	-	-	88	6	5	93
Fallow Land	964	197	20	34	6	17	1007	211	21
Woodland	44	35	80	-	-	86	44	35	80
All Other Land	4125	422	10	37	5	14	4290	428	10
Holdings Of 0.10-0.50 Hectares									
All	16051	495	3	4279	135	3	38632	1240	3
Land Under Temporary Crops	14406	464	3	2672	94	4	21429	743	3
Land Under Permanent Crops	7639	355	5	458	47	10	11163	588	5
Grazing Land	146	52	35	5	2	40	146	52	35
Fallow Land	6333	501	8	964	90	9	7116	532	7
Woodland	374	113	30	9	5	60	402	119	30
All Other Land	15010	493	3	171	12	7	18314	855	5
Holdings Of 0.51-1.00 Hectares									
All	6795	390	6	4794	276	6	18804	1313	7
Land Under Temporary Crops	6626	378	6	2838	178	6	11996	833	7
Land Under Permanent Crops	4778	344	7	972	117	12	8126	721	9
Grazing Land	384	111	29	29	12	41	398	114	29
Fallow Land	3199	254	8	823	80	10	3769	333	9
Woodland	531	119	22	7	2	26	531	119	22
All Other Land	6591	389	6	124	14	12	7965	508	6
Holdings Of 1.01-2.00 Hectares									
All	3548	275	8	4771	368	8	10636	957	9
Land Under Temporary Crops	3475	276	8	2664	238	9	6987	644	9
Land Under Permanent Crops	2660	247	9	1118	159	14	5513	654	12
Grazing Land	334	93	28	65	34	52	396	116	29
Fallow Land	2095	230	11	832	93	11	2457	256	10
Woodland	440	98	22	13	4	32	502	112	22
All Other Land	3412	272	8	79	11	14	4131	334	8
Holdings Of 2.01-5.00 Hectares									
All	956	138	14	2572	369	14	3249	537	17
Land Under Temporary Crops	913	137	15	1381	208	15	2149	351	16
Land Under Permanent Crops	827	131	16	815	176	22	2028	403	20
Grazing Land	231	80	35	70	36	51	352	147	42
Fallow Land	554	115	21	235	55	24	659	137	21
Woodland	165	70	43	33	19	58	241	105	44
All Other Land	885	138	16	38	10	25	1160	202	17
Holdings Of 5.01-10.00 Hectares									
All	75	25	33	482	157	33	385	165	43
Land Under Temporary Crops	59	24	41	114	53	46	214	103	48
Land Under Permanent Crops	75	25	33	339	117	34	227	92	41
Grazing Land	14	14	98	5	5	98	42	41	98
Fallow Land	46	23	50	17	10	57	74	45	60
Woodland	15	15	101	-	-	103	15	15	101
All Other Land	46	23	50	6	5	82	70	37	53
Holdings Over 10.00 Hectares									
All	4	3	85	45	38	85	37	32	85
Land Under Temporary Crops	4	3	85	24	21	85	11	9	85
Land Under Permanent Crops	4	3	85	21	18	85	26	22	85
Grazing Land	-	-	-	-	-	-	-	-	-
Fallow Land	-	-	-	-	-	-	-	-	-
Woodland	-	-	-	-	-	-	-	-	-
All Other Land	-	-	-	-	-	-	-	-	-

Annex Table 4.2.1 Rural Holdings

Land Use By Size Of Holding	Number of Holders			Holding Area in Hectare			Number Of Parcels		
	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %
Holdings Of All Sizes									
All	31155	834	3	16281	789	5	76876	2548	3
Land Under Temporary Crops	27766	791	3	9395	464	5	44901	1610	4
Land Under Permanent Crops	18097	803	4	3289	405	12	29291	1731	6
Grazing Land	1115	260	23	174	74	42	1339	344	26
Fallow Land	13192	732	6	2905	196	7	15081	824	5
Woodland	1569	286	18	64	21	34	1736	320	18
All Other Land	30070	788	3	454	29	6	35929	1136	3
Holdings Under 0.10 Hectares									
All	4696	464	10	217	20	9	7353	677	9
Land Under Temporary Crops	3112	360	12	107	9	9	3610	429	12
Land Under Permanent Crops	2554	407	16	39	6	16	2971	501	17
Grazing Land	6	5	93	-	-	93	6	5	93
Fallow Land	964	197	20	34	6	17	1007	211	21
Woodland	44	35	80	-	-	83	44	35	80
All Other Land	4125	422	10	37	5	14	4290	428	10
Holdings Of 0.10-0.50 Hectares									
All	15455	493	3	4123	135	3	37495	1237	3
Land Under Temporary Crops	13864	462	3	2541	93	4	20513	739	4
Land Under Permanent Crops	7478	355	5	433	47	11	10933	587	5
Grazing Land	146	52	35	5	2	40	146	52	35
Fallow Land	6333	501	8	964	90	9	7116	532	7
Woodland	374	113	30	9	5	60	402	119	30
All Other Land	15010	493	3	171	12	7	18314	855	5
Holdings Of 0.51-1.00 Hectares									
All	6642	389	6	4679	275	6	18357	1311	7
Land Under Temporary Crops	6496	377	6	2779	177	6	11709	832	7
Land Under Permanent Crops	4676	343	7	916	117	13	7957	720	9
Grazing Land	384	111	29	29	12	41	398	114	29
Fallow Land	3199	254	8	823	80	10	3769	333	9
Woodland	531	119	22	7	2	26	531	119	22
All Other Land	6591	389	6	124	14	12	7965	508	6
Holdings Of 1.01-2.00 Hectares									
All	3426	274	8	4599	367	8	10322	955	9
Land Under Temporary Crops	3377	275	8	2587	237	9	6804	642	9
Land Under Permanent Crops	2583	246	10	1022	158	15	5367	653	12
Grazing Land	334	93	28	65	34	52	396	116	29
Fallow Land	2095	230	11	832	93	11	2457	256	10
Woodland	440	98	22	13	4	32	502	112	22
All Other Land	3412	272	8	79	11	14	4131	334	8
Holdings Of 2.01-5.00 Hectares									
All	889	138	16	2371	367	15	3046	536	18
Land Under Temporary Crops	871	137	16	1298	207	16	2072	350	17
Land Under Permanent Crops	761	130	17	697	173	25	1899	402	21
Grazing Land	231	80	35	70	36	51	352	147	42
Fallow Land	554	115	21	235	55	24	659	137	21
Woodland	165	70	43	33	19	58	241	105	44
All Other Land	885	138	16	38	10	25	1160	202	17
Holdings Of 5.01-10.00 Hectares									
All	46	23	50	292	144	50	302	162	54
Land Under Temporary Crops	46	23	50	83	50	61	193	102	53
Land Under Permanent Crops	46	23	50	180	103	57	165	90	55
Grazing Land	14	14	98	5	5	98	42	41	98
Fallow Land	46	23	50	17	10	57	74	45	60
Woodland	15	15	101	-	-	101	15	15	101
All Other Land	46	23	50	6	5	82	70	37	53
Holdings Over 10.00 Hectares									
All	-	-	-	-	-	-	-	-	-
Land Under Temporary Crops	-	-	-	-	-	-	-	-	-
Land Under Permanent Crops	-	-	-	-	-	-	-	-	-
Grazing Land	-	-	-	-	-	-	-	-	-
Fallow Land	-	-	-	-	-	-	-	-	-
Woodland	-	-	-	-	-	-	-	-	-
All Other Land	-	-	-	-	-	-	-	-	-

Annex Table 4.2.2 Urban Holdings

Land Use By Size Of Holding	Number of Holders			Holding Area in Hectare			Number Of Parcels		
	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %
Holdings Of All Sizes									
All	1611	45	3	909	81	9	3060	109	4
Land Under Temporary Crops	1393	48	3	431	44	10	2173	89	4
Land Under Permanent Crops	597	27	5	477	63	13	954	57	6
Holdings Under 0.10 Hectares									
All	642	46	7	29	2	9	838	68	8
Land Under Temporary Crops	565	44	8	25	2	9	677	58	9
Land Under Permanent Crops	158	22	14	3	1	20	191	28	15
Holdings Of 0.10-0.50 Hectares									
All	596	45	8	156	14	9	1137	88	8
Land Under Temporary Crops	542	43	8	131	13	10	916	75	8
Land Under Permanent Crops	161	21	13	25	5	22	230	38	17
Holdings Of 0.51-1.00 Hectares									
All	153	24	16	115	19	16	448	74	16
Land Under Temporary Crops	129	23	18	59	14	23	287	55	19
Land Under Permanent Crops	102	18	17	56	11	20	169	35	21
Holdings Of 1.01-2.00 Hectares									
All	122	25	20	172	34	20	314	64	20
Land Under Temporary Crops	98	23	24	77	25	33	183	49	27
Land Under Permanent Crops	77	15	20	95	21	22	146	34	23
Holdings Of 2.01-5.00 Hectares									
All	66	13	19	201	41	20	203	42	21
Land Under Temporary Crops	42	11	25	83	24	29	77	19	25
Land Under Permanent Crops	66	13	19	118	28	24	129	28	21
Holdings Of 5.01-10.00 Hectares									
All	29	9	32	191	61	32	83	30	37
Land Under Temporary Crops	12	6	50	32	17	52	21	11	53
Land Under Permanent Crops	29	9	32	159	56	35	62	22	35
Holdings Over 10.00 Hectares									
All	4	3	85	45	38	85	37	32	85
Land Under Temporary Crops	4	3	85	24	21	85	11	9	85
Land Under Permanent Crops	4	3	85	21	18	85	26	22	85

Annex Table 4.3: Estimates of Agricultural holders by Type of Land tenure systems and Land use and their Standard errors and Coefficients of Variation

Both Rural and Urban holdings

Land Use By Size Of Holding	All Number			Number of Holders By Tenure Systems								
				Land Owned			Land Rented			Other Tenure		
	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %
Holdings Of All Sizes												
All	32767	836	3	32239	814	3	2793	314	11	2282	349	15
Land Under Temporary Crops	29159	792	3	27678	801	3	2150	275	13	1657	315	19
Land Under Permanent Crops	18695	803	4	18071	785	4	1108	177	16	540	148	27
Grazing Land	1115	260	23	1101	256	23	-	-	-	14	14	98
Fallow Land	13192	732	6	13072	730	6	84	37	44	84	39	47
Woodland	1569	286	18	1569	286	18	-	-	-	-	-	-
All Other Land	30070	788	3	29358	750	3	373	94	25	910	223	25
Holdings Under 0.10 Hectares												
All	5338	466	9	5127	437	9	358	89	25	345	93	27
Land Under Temporary Crops	3677	363	10	3364	347	10	219	64	29	199	67	34
Land Under Permanent Crops	2712	408	15	2497	364	15	193	74	38	84	45	54
Grazing Land	6	5	93	6	5	93	-	-	-	-	-	-
Fallow Land	964	197	20	964	197	20	-	-	-	-	-	-
Woodland	44	35	80	44	35	80	-	-	-	-	-	-
All Other Land	4125	422	10	3895	368	9	147	58	39	237	82	35
Holdings Of 0.10-0.50 Hectares												
All	16051	495	3	15812	491	3	1225	173	14	1100	190	17
Land Under Temporary Crops	14406	464	3	13578	452	3	977	157	16	838	175	21
Land Under Permanent Crops	7639	355	5	7388	354	5	391	86	22	237	73	31
Grazing Land	146	52	35	146	52	35	-	-	-	-	-	-
Fallow Land	6333	501	8	6281	501	8	32	23	74	20	12	61
Woodland	374	113	30	374	113	30	-	-	-	-	-	-
All Other Land	15010	493	3	14663	484	3	150	49	33	509	152	30
Holdings Of 0.51-1.00 Hectares												
All	6795	390	6	6737	386	6	846	150	18	488	133	27
Land Under Temporary Crops	6626	378	6	6366	364	6	664	129	19	344	116	34
Land Under Permanent Crops	4778	344	7	4666	335	7	365	85	23	129	62	48
Grazing Land	384	111	29	370	108	29	-	-	-	14	14	98
Fallow Land	3199	254	8	3143	249	8	52	29	56	12	8	66
Woodland	531	119	22	531	119	22	-	-	-	-	-	-
All Other Land	6591	389	6	6480	377	6	77	38	49	112	43	38
Holdings Of 1.01-2.00 Hectares												
All	3548	275	8	3528	276	8	283	68	24	274	84	31
Land Under Temporary Crops	3475	276	8	3407	272	8	258	66	26	206	77	37
Land Under Permanent Crops	2660	247	9	2618	243	9	109	44	41	81	54	66
Grazing Land	334	93	28	334	93	28	-	-	-	-	-	-
Fallow Land	2095	230	11	2083	229	11	-	-	-	40	25	63
Woodland	440	98	22	440	98	22	-	-	-	-	-	-
All Other Land	3412	272	8	3389	271	8	-	-	-	52	35	67
Holdings Of 2.01-5.00 Hectares												
All	956	138	14	956	138	14	63	32	50	75	39	53
Land Under Temporary Crops	913	137	15	900	137	15	32	24	77	70	39	56
Land Under Permanent Crops	827	131	16	823	130	16	32	20	64	9	6	61
Grazing Land	231	80	35	231	80	35	-	-	-	-	-	-
Fallow Land	554	115	21	554	115	21	-	-	-	12	12	100
Woodland	165	70	43	165	70	43	-	-	-	-	-	-
All Other Land	885	138	16	885	138	16	-	-	-	-	-	-
Holdings Of 5.01-10.00Hectares												
All	75	25	33	75	25	33	18	14	79	-	-	-
Land Under Temporary Crops	59	24	41	59	24	41	-	-	-	-	-	-
Land Under Permanent Crops	75	25	33	75	25	33	18	14	79	-	-	-
Grazing Land	14	14	98	14	14	98	-	-	-	-	-	-
Fallow Land	46	23	50	46	23	50	-	-	-	-	-	-
Woodland	15	15	101	15	15	101	-	-	-	-	-	-
All Other Land	46	23	50	46	23	50	-	-	-	-	-	-
Holdings Over 10.00 Hectares												
All	4	3	85	4	3	85	-	-	-	-	-	-
Land Under Temporary Crops	4	3	85	4	3	85	-	-	-	-	-	-
Land Under Permanent Crops	4	3	85	4	3	85	-	-	-	-	-	-
Grazing Land	-	-	-	-	-	-	-	-	-	-	-	-
Fallow Land	-	-	-	-	-	-	-	-	-	-	-	-
Woodland	-	-	-	-	-	-	-	-	-	-	-	-
All Other Land	-	-	-	-	-	-	-	-	-	-	-	-

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Annex Table 4.3.1 Rural holdings

Land Use By Size Of Holding	All Number			Number of Holders By Tenure Systems								
				Land Owned			Land Rented			Other Tenure		
	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %
Holdings Of All Sizes												
All	31155	834	3	30734	812	3	2678	313	12	2180	349	16
Land Under Temporary Crops	27766	791	3	26460	800	3	2055	274	13	1568	314	20
Land Under Permanent Crops	18097	803	4	17502	785	4	1083	176	16	515	148	29
Grazing Land	1115	260	23	1101	256	23	-	-	-	14	14	98
Fallow Land	13192	732	6	13072	730	6	84	37	44	84	39	47
Woodland	1569	286	18	1569	286	18	-	-	-	-	-	-
All Other Land	30070	788	3	29358	750	3	373	94	25	910	223	25
Holdings Under 0.10 Hectares												
All	4696	464	10	4537	434	10	306	87	28	320	93	29
Land Under Temporary Crops	3112	360	12	2866	345	12	173	62	36	174	66	38
Land Under Permanent Crops	2554	407	16	2345	363	15	187	74	40	84	45	54
Grazing Land	6	5	93	6	5	93	-	-	-	-	-	-
Fallow Land	964	197	20	964	197	20	-	-	-	-	-	-
Woodland	44	35	80	44	35	80	-	-	-	-	-	-
All Other Land	4125	422	10	3895	368	9	147	58	39	237	82	35
Holdings Of 0.10-0.50 Hectares												
All	15455	493	3	15252	489	3	1201	173	14	1070	190	18
Land Under Temporary Crops	13864	462	3	13080	450	3	958	157	16	808	174	22
Land Under Permanent Crops	7478	355	5	7235	353	5	386	86	22	233	73	31
Grazing Land	146	52	35	146	52	35	-	-	-	-	-	-
Fallow Land	6333	501	8	6281	501	8	32	23	74	20	12	61
Woodland	374	113	30	374	113	30	-	-	-	-	-	-
All Other Land	15010	493	3	14663	484	3	150	49	33	509	152	30
Holdings Of 0.51-1.00 Hectares												
All	6642	389	6	6588	386	6	826	150	18	471	133	28
Land Under Temporary Crops	6496	377	6	6275	363	6	644	129	20	327	115	35
Land Under Permanent Crops	4676	343	7	4564	335	7	365	85	23	129	62	48
Grazing Land	384	111	29	370	108	29	-	-	-	14	14	98
Fallow Land	3199	254	8	3143	249	8	52	29	56	12	8	66
Woodland	531	119	22	531	119	22	-	-	-	-	-	-
All Other Land	6591	389	6	6480	377	6	77	38	49	112	43	38
Holdings Of 1.01-2.00 Hectares												
All	3426	274	8	3422	275	8	268	67	25	258	84	32
Land Under Temporary Crops	3377	275	8	3327	271	8	249	66	26	197	76	39
Land Under Permanent Crops	2583	246	10	2555	242	9	98	44	45	69	53	78
Grazing Land	334	93	28	334	93	28	-	-	-	-	-	-
Fallow Land	2095	230	11	2083	229	11	-	-	-	40	25	63
Woodland	440	98	22	440	98	22	-	-	-	-	-	-
All Other Land	3412	272	8	3389	271	8	-	-	-	52	35	67
Holdings Of 2.01-5.00 Hectares												
All	889	138	16	889	138	16	63	32	50	62	39	63
Land Under Temporary Crops	871	137	16	867	136	16	32	24	77	62	39	63
Land Under Permanent Crops	761	130	17	757	130	17	32	20	64	-	-	-
Grazing Land	231	80	35	231	80	35	-	-	-	-	-	-
Fallow Land	554	115	21	554	115	21	-	-	-	12	12	100
Woodland	165	70	43	165	70	43	-	-	-	-	-	-
All Other Land	885	138	16	885	138	16	-	-	-	-	-	-
Holdings Of 5.01-10.00 Hectares												
All	46	23	50	46	23	50	14	14	98	-	-	-
Land Under Temporary Crops	46	23	50	46	23	50	-	-	-	-	-	-
Land Under Permanent Crops	46	23	50	46	23	50	14	14	98	-	-	-
Grazing Land	14	14	98	14	14	98	-	-	-	-	-	-
Fallow Land	46	23	50	46	23	50	-	-	-	-	-	-
Woodland	15	15	101	15	15	101	-	-	-	-	-	-
All Other Land	46	23	50	46	23	50	-	-	-	-	-	-
Holdings Over 10.00 Hectares												
All	-	-	-	-	-	-	-	-	-	-	-	-
Land Under Temporary Crops	-	-	-	-	-	-	-	-	-	-	-	-
Land Under Permanent Crops	-	-	-	-	-	-	-	-	-	-	-	-
Grazing Land	-	-	-	-	-	-	-	-	-	-	-	-
Fallow Land	-	-	-	-	-	-	-	-	-	-	-	-
Woodland	-	-	-	-	-	-	-	-	-	-	-	-
All Other Land	-	-	-	-	-	-	-	-	-	-	-	-

Annex Table 4.3.2 Urban holdings

Land Use By Size Of Holding	All Number			Number of Holders By Tenure Systems								
				Land Owned			Land Rented			Other Tenure		
	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %
Holdings Of All Sizes												
All	1611	45	3	1505	48	3	115	24	21	102	17	17
Land Under Temporary Crops	1393	48	3	1218	48	4	95	23	24	89	16	18
Land Under Permanent Crops	597	27	5	569	28	5	25	10	39	25	9	34
Holdings Under 0.10 Hectares												
All	642	46	7	590	45	8	52	17	33	25	9	36
Land Under Temporary Crops	565	44	8	499	42	8	46	16	36	25	9	36
Land Under Permanent Crops	158	22	14	153	22	14	6	5	91	-	-	-
Holdings Of 0.10-0.50 Hectares												
All	596	45	8	560	44	8	24	14	60	30	10	33
Land Under Temporary Crops	542	43	8	498	42	8	20	14	70	30	10	33
Land Under Permanent Crops	161	21	13	153	21	14	5	4	88	4	3	85
Holdings Of 0.51-1.00 Hectares												
All	153	24	16	149	24	16	20	8	38	17	8	44
Land Under Temporary Crops	129	23	18	92	20	22	20	8	38	17	8	44
Land Under Permanent Crops	102	18	17	102	18	17	-	-	-	-	-	-
Holdings Of 1.01-2.00 Hectares												
All	122	25	20	107	24	22	15	8	52	17	7	43
Land Under Temporary Crops	98	23	24	80	22	28	9	6	64	9	5	62
Land Under Permanent Crops	77	15	20	62	14	22	11	7	63	13	6	50
Holdings Of 2.01-5.00 Hectares												
All	66	13	19	66	13	19	-	-	-	13	7	50
Land Under Temporary Crops	42	11	25	34	9	28	-	-	-	9	5	62
Land Under Permanent Crops	66	13	19	66	13	19	-	-	-	9	6	61
Holdings Of 5.01-10.0 Hectares												
All	29	9	32	29	9	32	4	3	87	-	-	-
Land Under Temporary Crops	12	6	50	12	6	50	-	-	-	-	-	-
Land Under Permanent Crops	29	9	32	29	9	32	4	3	87	-	-	-
Holdings Over 10.00 Hectares												
All	4	3	85	4	3	85	-	-	-	-	-	-
Land Under Temporary Crops	4	3	85	4	3	85	-	-	-	-	-	-
Land Under Permanent Crops	4	3	85	4	3	85	-	-	-	-	-	-

Annex Table 4.4: Estimates of Area of holdings by Type of Land tenure systems and Land use and their Standard errors and Coefficients of Variation

Both Rural and Urban holdings

Land Use By Size Of Holding	Area in Hectare			Area of Holding In hectare By Tenure Systems								
				Land Owned			Land Rented			Other Tenure		
	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %
Holdings Of All Sizes												
All	17190	793	5	16078	751	5	626	107	17	486	104	21
Land Under Temporary Crops	9827	466	5	8981	444	5	448	77	17	398	93	23
Land Under Permanent Crops	3766	410	11	3541	389	11	168	46	28	57	16	29
Grazing Land	174	74	42	174	74	42	-	-	-	-	-	100
Fallow Land	2905	196	7	2883	195	7	8	4	51	14	8	56
Woodland	64	21	34	64	21	34	-	-	-	-	-	-
All Other Land	454	29	6	435	30	7	3	1	39	17	6	37
Holdings Under 0.10 Hectares												
All	246	20	8	220	18	8	12	3	28	14	4	28
Land Under Temporary Crops	133	10	7	118	9	8	7	2	30	8	2	29
Land Under Permanent Crops	42	6	14	39	6	14	3	2	50	1	-	63
Grazing Land	-	-	88	-	-	88	-	-	-	-	-	-
Fallow Land	34	6	17	34	6	17	-	-	-	-	-	-
Woodland	-	-	86	-	-	86	-	-	-	-	-	-
All Other Land	37	5	14	30	4	12	2	1	64	6	2	41
Holdings Of 0.10-0.50 Hectares												
All	4279	135	3	3969	130	3	165	27	17	145	29	20
Land Under Temporary Crops	2672	94	4	2405	89	4	139	23	17	128	26	20
Land Under Permanent Crops	458	47	10	431	45	10	22	7	31	5	4	64
Grazing Land	5	2	40	5	2	40	-	-	-	-	-	-
Fallow Land	964	90	9	960	90	9	3	3	98	1	1	73
Woodland	9	5	60	9	5	60	-	-	-	-	-	-
All Other Land	171	12	7	160	11	7	1	-	38	10	4	43
Holdings Of 0.51-1.00 Hectares												
All	4794	276	6	4414	245	6	251	52	21	128	48	38
Land Under Temporary Crops	2838	178	6	2547	158	6	182	40	22	109	43	39
Land Under Permanent Crops	972	117	12	891	107	12	64	21	33	17	9	51
Grazing Land	29	12	41	29	12	41	-	-	-	-	-	100
Fallow Land	823	80	10	817	79	10	5	2	54	2	1	78
Woodland	7	2	26	7	2	26	-	-	-	-	-	-
All Other Land	124	14	12	123	14	12	-	-	56	1	-	46
Holdings Of 1.01-2.00 Hectares												
All	4771	368	8	4472	352	8	149	48	32	150	56	37
Land Under Temporary Crops	2664	238	9	2434	226	9	113	38	33	117	49	42
Land Under Permanent Crops	1118	159	14	1059	153	14	36	17	46	23	10	46
Grazing Land	65	34	52	65	34	52	-	-	-	-	-	-
Fallow Land	832	93	11	823	92	11	-	-	-	9	6	69
Woodland	13	4	32	13	4	32	-	-	-	-	-	-
All Other Land	79	11	14	79	11	14	-	-	-	1	-	72
Holdings Of 2.01-5.00 Hectares												
All	2572	369	14	2503	363	15	20	15	75	49	22	46
Land Under Temporary Crops	1381	208	15	1339	203	15	5	5	84	36	19	54
Land Under Permanent Crops	815	176	22	789	174	22	15	14	97	11	8	72
Grazing Land	70	36	51	70	36	51	-	-	-	-	-	-
Fallow Land	235	55	24	234	55	24	-	-	-	1	1	100
Woodland	33	19	58	33	19	58	-	-	-	-	-	-
All Other Land	38	10	25	38	10	25	-	-	-	-	-	-
Holdings Of 5.01-10.00 Hectares												
All	482	157	33	454	155	34	28	24	86	-	-	-
Land Under Temporary Crops	114	53	46	114	53	46	-	-	-	-	-	-
Land Under Permanent Crops	339	117	34	311	115	37	28	24	86	-	-	-
Grazing Land	5	5	98	5	5	98	-	-	-	-	-	-
Fallow Land	17	10	57	17	10	57	-	-	-	-	-	-
Woodland	-	-	103	-	-	103	-	-	-	-	-	-
All Other Land	6	5	82	6	5	82	-	-	-	-	-	-
Holdings Over 10.00 Hectares												
All	45	38	85	45	38	85	-	-	-	-	-	-
Land Under Temporary Crops	24	21	85	24	21	85	-	-	-	-	-	-
Land Under Permanent Crops	21	18	85	21	18	85	-	-	-	-	-	-
Grazing Land	-	-	-	-	-	-	-	-	-	-	-	-
Fallow Land	-	-	-	-	-	-	-	-	-	-	-	-
Woodland	-	-	-	-	-	-	-	-	-	-	-	-
All Other Land	-	-	-	-	-	-	-	-	-	-	-	-

Annex Table 4.4.1 Rural Holdings

Land Use By Size Of Holding	Area in Hectare			Area of Holding In hectare By Tenure Systems								
				Land Owned			Land Rented			Other Tenure		
	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %
Holdings Of All Sizes												
All	16281	789	5	15277	747	5	564	104	18	440	103	24
Land Under Temporary crops	9395	464	5	8588	442	5	433	76	18	375	93	25
Land Under Permanent crops	3289	405	12	3133	385	12	121	38	31	35	13	38
Grazing Land	174	74	42	174	74	42	-	-	-	-	-	98
Fallow Land	2905	196	7	2883	195	7	8	4	51	14	8	56
Woodland	64	21	34	64	21	34	-	-	-	-	-	-
All Other Land	454	29	6	435	30	7	3	1	39	17	6	37
Holdings Under 0.10 Hectares												
All	217	20	9	196	18	9	10	3	34	12	4	32
Land Under Temporary crops	107	9	9	97	9	9	5	2	38	6	2	37
Land Under Permanent crops	39	6	16	36	6	16	3	2	52	1	-	62
Grazing Land	-	-	93	-	-	93	-	-	-	-	-	-
Fallow Land	34	6	17	34	6	17	-	-	-	-	-	-
Woodland	-	-	83	-	-	83	-	-	-	-	-	-
All Other Land	37	5	14	30	4	12	2	1	64	6	2	41
Holdings Of 0.10-0.50 Hectares												
All	4123	135	3	3833	130	3	154	27	17	137	29	21
Land Under Temporary crops	2541	93	4	2290	89	4	131	22	17	120	26	21
Land Under Permanent crops	433	47	11	409	44	11	19	6	33	5	3	68
Grazing Land	5	2	40	5	2	40	-	-	-	-	-	-
Fallow Land	964	90	9	960	90	9	3	3	98	1	1	73
Woodland	9	5	60	9	5	60	-	-	-	-	-	-
All Other Land	171	12	7	160	11	7	1	-	37	10	4	43
Holdings Of 0.51-1.00 Hectares												
All	4679	275	6	4310	245	6	248	52	21	122	48	40
Land Under Temporary crops	2779	177	6	2498	158	6	179	40	22	102	43	42
Land Under Permanent crops	916	117	13	835	107	13	64	21	33	17	9	51
Grazing Land	29	12	41	29	12	41	-	-	-	-	-	98
Fallow Land	823	80	10	817	79	10	5	2	54	2	1	78
Woodland	7	2	26	7	2	26	-	-	-	-	-	-
All Other Land	124	14	12	123	14	12	-	-	56	1	-	46
Holdings Of 1.01-2.00 Hectares												
All	4599	367	8	4329	350	8	132	47	36	138	55	40
Land Under Temporary crops	2587	237	9	2359	225	10	113	38	33	116	49	43
Land Under Permanent crops	1022	158	15	991	152	15	19	12	65	12	9	72
Grazing Land	65	34	52	65	34	52	-	-	-	-	-	-
Fallow Land	832	93	11	823	92	11	-	-	-	9	6	69
Woodland	13	4	32	13	4	32	-	-	-	-	-	-
All Other Land	79	11	14	79	11	14	-	-	-	1	-	72
Holdings Of 2.01-5.00 Hectares												
All	2371	367	15	2318	361	16	20	15	75	32	20	62
Land Under Temporary crops	1298	207	16	1261	202	16	5	5	84	31	19	62
Land Under Permanent crops	697	173	25	682	172	25	15	14	97	-	-	-
Grazing Land	70	36	51	70	36	51	-	-	-	-	-	-
Fallow Land	235	55	24	234	55	24	-	-	-	1	1	100
Woodland	33	19	58	33	19	58	-	-	-	-	-	-
All Other Land	38	10	25	38	10	25	-	-	-	-	-	-
Holdings Of 5.01-10.0 Hectares												
All	292	144	50	291	144	50	-	-	98	-	-	-
Land Under Temporary crops	83	50	61	83	50	61	-	-	-	-	-	-
Land Under Permanent crops	180	103	57	180	103	57	-	-	98	-	-	-
Grazing Land	5	5	98	5	5	98	-	-	-	-	-	-
Fallow Land	17	10	57	17	10	57	-	-	-	-	-	-
Woodland	-	-	101	-	-	101	-	-	-	-	-	-
All Other Land	6	5	82	6	5	82	-	-	-	-	-	-
Holdings Over 10.00 Hectares												
All	-	-	-	-	-	-	-	-	-	-	-	-
Land Under Temporary crops	-	-	-	-	-	-	-	-	-	-	-	-
Land Under Permanent crops	-	-	-	-	-	-	-	-	-	-	-	-
Grazing Land	-	-	-	-	-	-	-	-	-	-	-	-
Fallow Land	-	-	-	-	-	-	-	-	-	-	-	-
Woodland	-	-	-	-	-	-	-	-	-	-	-	-
All Other Land	-	-	-	-	-	-	-	-	-	-	-	-

Annex Table 4.4.2 Urban Holdings

Land Use By Size Of Holding	Area in Hectare			Area of Holding In hectare By Tenure Systems								
				Land Owned			Land Rented			Other Tenure		
	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %	Estimate	S.E	C.V In %
Holdings Of All Sizes												
All	909	81	9	801	79	10	62	28	45	46	12	26
Land Under Temporary Crops	431	44	10	393	44	11	15	7	46	24	6	26
Land Under Permanent Crops	477	63	13	408	58	14	47	27	57	22	10	43
Holdings Under 0.10 Hectares												
All	29	2	9	25	2	9	2	1	34	2	1	37
Land Under Temporary Crops	25	2	9	21	2	10	2	1	36	2	1	37
Land Under Permanent Crops	3	1	20	3	1	20	-	-	91	-	-	-
Holdings Of 0.10-0.50 Hectares												
All	156	14	9	137	12	9	11	7	64	8	3	37
Land Under Temporary Crops	131	13	10	115	11	10	9	7	77	8	3	38
Land Under Permanent Crops	25	5	22	22	5	23	2	2	88	-	-	85
Holdings Of 0.51-1.00 Hectares												
All	115	19	16	105	18	17	4	2	47	6	4	57
Land Under Temporary Crops	59	14	23	49	13	27	4	2	47	6	4	57
Land Under Permanent Crops	56	11	20	56	11	20	-	-	-	-	-	-
Holdings Of 1.01-2.00 Hectares												
All	172	34	20	143	32	23	17	11	65	12	6	47
Land Under Temporary Crops	77	25	33	74	25	34	1	1	79	2	1	64
Land Under Permanent Crops	95	21	22	68	18	26	17	11	67	10	5	52
Holdings Of 2.01-5.00 Hectares												
All	201	41	20	185	39	21	-	-	-	17	10	58
Land Under Temporary Crops	83	24	29	78	24	31	-	-	-	6	4	74
Land Under Permanent Crops	118	28	24	107	26	24	-	-	-	11	8	72
Holdings Of 5.01-10.00 Hectares												
All	191	61	32	163	57	35	28	24	87	-	-	-
Land Under Temporary Crops	32	17	52	32	17	52	-	-	-	-	-	-
Land Under Permanent Crops	159	56	35	131	50	39	28	24	87	-	-	-
Holdings Over 10.00 Hectares												
All	45	38	85	45	38	85	-	-	-	-	-	-
Land Under Temporary Crops	24	21	85	24	21	85	-	-	-	-	-	-
Land Under Permanent Crops	21	18	85	21	18	85	-	-	-	-	-	-

CHAPTER V

AREA AND PRODUCTION OF CROPS AND CROP UTILIZATION

1 INTRODUCTION

Ethiopian farming largely produces only enough food for the peasant holder and his family for consumption, leaving little to sell. This inadequate volume of production is ascribed to the tardy progress in the farming methods and scattered pieces of land holdings. Under this traditional sector, agriculture is practiced on public land and most of the produce is mainly for own consumption. The diverse climate of the country and the multiple utilizations of crops have prompted the vast majority of agricultural holders to grow various temporary and permanent crops. Despite the variation in the volume of production, the relative importance and pattern of growth of these crops are largely similar across many of the regions. This similarity is well observed and demonstrated in the statistical tables presented in this report. In some regions there seems to be a shift in choice of crops grown. Teff, barley and wheat do not figure prominently. Instead, maize, sorghum, Godere & Sweet Potatoes are grown in greater volume than these crops. Gambela, is a case in this regard.

There is a general agreement that the performance of an agricultural system should achieve a steady supply of food to the people of a country. But, unless special attention is focused on agriculture its performance can be impeded by vagaries of nature, population growth and scarcity and fragmentation of land, thus, affecting food supply and posing a challenge to the federal and regional governments. This situation calls for an overhaul of the agricultural system in the country or the regions.

In order to have a flourishing agriculture, which sustains reliable food supply, the federal and regional governments have to formulate and implement farm programs that ensure food security. The preparation, execution, monitoring and assessment of these programs entail statistics on agriculture particularly crop production since it is the prime target that national or regional agricultural policies aim at.

The collection of data on crop production should encompass all crop seasons in the agricultural calendar and farming activities in both rural and urban areas. It should also include the wide range of crops that are grown and embodied in the food security system, which are indispensable for a sustained provision of staple diet and other cash crops like coffee and Chat.

In view of this, crop production data for private peasant holdings for both Meher and Belg seasons in both rural and urban areas were collected in the census to provide the basis for decision making in the process of implementing timely food security measures and to make policy makers aware of the food situation in the country.

Thus, in this chapter the census data on production of temporary crops/annual crops such as cereals, pulses, oilseeds, vegetables and root crops are presented in Section 2. Also production of permanent crops that included fruit crops, stimulant crops and other permanent crops are dealt with in Section 3. Moreover, the utilization of temporary crops as well as permanent crops for various purposes such as household consumption, seed, sale, paying wages in kind ...etc are indicated in Section 4.Furthermore S.E & C.V are provided as an annex to this chapter.

2. PRODUCTION OF TEMPORARY CROPS / ANNUAL CROPS

The types of temporary crops on which data were collected during the census are those that food security embraces: that is, the crops that are the staple diets in the country. In the statistical tables, these crops have been categorized into five groups for simplicity of description and comparison purposes. The groups are cereals, pulses, oilseeds, vegetables and root crops. The crops within each group have some similarity, which made the categorization necessary.

2.1 Cereals

These are crops that are produced in greater volume compared to the other crops because these are the principal staple crops every year and export commodities at times of bumper harvest in the country. Between the months of September 2001 and August 2002 it was learned that 242,794 quintals of cereals worth 106,028,521 Birr was exported from Ethiopia to various countries.(CSA,External Trade Statistics). Cereals are grown in almost all regions of Ethiopia with notable variation in the extent of areas planted and the volume of production obtained. This variation is seemingly caused by a shift in choice of crops by the holders and difference in weather conditions. Summary Tables V.1 and V.2 reinforce this thought further by giving a highlight on the size of area planted to maize, sorghum and godere and volume of production of these crops harvested in Gambela region when compared to Teff, barley & wheat produced in the same region.

Summary Tables V-1 and V-2 show that 94.73% of the regional grain crop area was devoted to cereals and 98.55% of the grain production was that of cereals. Out of all area under grain, Maize and sorghum took up69.89%, 23.9% maize and sorghum yield was 76.96% and 20.95% of the regional grain production. The area planted to grains and the production acquired in Belg season were24.99% and 8.98% of the total grain crop area and grain

production of the region, respectively.Of the regional area under cereals, 25.21% was cropped in Belg season and 8.88% of the cereal production is achieved in the same season.

As the census result depicts, agricultural households in urban areas of the region contributed 3.43% and 3.06% of the regional grain crop area and grain production, respectively. Out of the total area under cereals and production, 3.42 % and 2.89 % were added by urban agricultural households, in the same order. The pattern of the principal crops is the same for both rural and urban holders.

A look at the zonal tables helps to note that zona 1 and zone 2 shared 22.82% and 77.18 of the total regional crop area, respectively. The zonal contributions to the regional production were 20.28, and 79.72% for zone 1 and zone 2 in the same order. The zones made up 23.03 and 76.97% of the regional area under grain crops and 20.62% and 79.38% of the regional grain production, in the that order. Summary Tables V-3 and V-4 indicate that 96.95% of the zonal grain crop ara was under cereals and 98.13% of the production was made up of the same crops in zone 1. Maize & Sorghum which accounted for 91.31% and 5.52% of the area under grains, were the major crops in the zone respectively. The zonal grain production was composed of 91.82% Maize and 6.05% Sorghum. The area planted in Belg season was 20.94% of the Zonal area under grain crops.

Agricultural holders in urban areas added 8.05% and 8.14% to the zonal crop area and production, in that order. Urban holders took up 8.1% of the area under grain crops and 9.39% of the grain production in the zone. Maize, Groundnuts and Sorghum were the principal crops in terms of both area planted and production obtained.

Summary Tables V-5 and V-6 show that 94.07% of the grain crop area was under cereals and 98.66% of the grain production was drawn from these crops

in zone 2. Maize and Sorghum were the major cereal crops in the zone accounting for 63.48% and 29.4% of the zonal area under grain crops and 73.11% and 24.82 of the zonal grain production, respectively, of the zonal crop area and production, Belg season tookup 25.49% and 10.04% in the order. Out of the area under grain crops, 26.24% was cropped and 11.04% of the cereal production was drawn in Belg season.

The agricultural holders in urban areas added 1.97% of the crop area and 1.17% of the production to the zonal total. Urban holders also contributed 2.04% of the area under grain crops and 1.41% of the grain production to the zonal amount. Sorghum and maize were the major crops produced by urban hodlers in the zone in terms of volume of production.

2.2 Pulses

These crops are essential part of the dietary requirements for most Ethiopians. These crops also form a significant commodity group of export, earning a considerable amount of foreign exchange for the country and cash for peasant farmers. In 2001/02 (1994) E.C, between the months of September and August, 1,229,366 quintals of pulses valued at 351,997,759 Birr was exported from Ethiopia to various countries. (CSA,External Trade Statistics). These are some of the grounds for growing various pulses in all regions of the country with varying quantities. There is no doubt that economic benefits can accrue to the country from the production and export of more pulses if the agriculture in Ethiopia is given due attention in this regard.

A view of Summary Tables V-1 and V-2 enables to detect that only 1.93% of the regional grain crop area was under pulses and 0.67% of the grain production consisted of the same crops. Of the regional area under grain crops, 1.9% was planted to haricot beans. The production obtained from haricot beans was only 0.67% fo the regional grain total.

Summary Tables V-3 to V-6 consecutively explain that the zonal contributions to the regional area and production of grain crops were 0.41% and 0.15% by zone 1 and 1.52% and 0.52% by zone 2 in that order. In zone 1,1.77% of the grain crop area and 0.71% of the grain production were that of pulses. In this zone haricot beans was the major pulse, which took up 1.77% of the area under grain crop. Thus, the principal crops in terms of volume of production was haricot beans, that formed 0.71% of the zonal production of grains. The census results, as presented in these tables, indicate urban hodlers in Zone 1 planted only 0.37% of the zonal area under grain crops to pulses. Among the pulses, haricot beans, was the major pulse produced by urban holders in the same zone which made up 0.37% of the zonal area under grain crops.

In zone 2, 1.98% of the grain crop area was under pulses and 0.66% of the zonal grain production was drawn from these crops. The major pulses in terms of area in the zone was haricot beans, which shared 1.94% of the area under grain crops in the zone. Haricot beans contributed 0.65% to the zonal grain production. Of the total area under grains and volume of grain production in this zone, only 1.2% of the zonal area under grains was planted to pulses in Belg season. It should be noted that the total contribution of area of the zone comes mainly from haricot beans.

2.3 Oilseeds

These crops are also of paramount importance as a source of cooking oil used to provide the fat required in the food consumed by the residents in the region. Moreover, oil crops have become a major commodity of export earning a great deal of foreign exchange. * Between September 2001 and August 2002, Ethiopia exported 953,088 quintals of oilseeds valued at 351,952,634 Birr signaling that an increase in the production and export of these crops will definitely generate more money.

Summary Tables V-1 and V-2 indicate that only 3.34% of the regional grain crop aea was under oilseeds and 0.78% of the regional grain production was that of the oil seeds. Of the total area under grain crops and grain production in Gambela Region, 2.92% went for sesame. Urban holders planted 0.19% of the grain crop area to oil crops and obtained 0.19% of the grain production from oil crops. Sesame grown by urban holders accounted for 0.04% of the regional area under grain crops.

Summary Tables V-3 and V-6 indicate that zone 1 and zone 2 contributed 0.29% and 3.39% to the area under grain crops and 3.04% and 0.55% to the grain production with oilseeds in the region, respectively. As shown in Tables V-3 and V-4 in zone 1, 1.28% of the zonal grain crop area and 1.16% of the volume of grain production were that of oilseeds. Out of the zonal area under grain crops, Groundnuts and sesame took up 0.75% and 0.41%, respectively. The same crops made up 0.95% and 0.19% of the zonal grain production, in that order. Urban holders augmented the zonal area and production of grain crops by 0.81% and 1.16% with oilseeds, respectively. The tables also show that 0.62% and 0.17% of the zonal grain area were under groundnuts and sesame planted by urban holders, in that order. The same holders produced groundnuts and sesame formed 0.84% and 0.3%of the zonal grain production ,respectively.

In zone 2, 3.95% of the zonal grain crop area was under oilseeds and 0.69% of the total volume of grain production in the zone was drawn from the same crops. Of all the zonal area under grain crops, 3.67% was that of sesame. The volume of production of this crop was 0.57% of the zonal total grain production.

2.4 Vegetables

These crops like fruits are also a good source of nourishment necessary for the healthy growth of humans. Dieticians often advise people to eat more of

vegetables for their nutritional values. Vegetables are relatively cheaper and better available than other farm products in urban centers because these crops are usually grown as garden produces sometimes using irrigation. It may be worth to know that a certain amount of foreign exchange is drawn from vegetable exports. For instance between September 2001 - August 2002 Ethiopia exported 61,070 quintals of vegetables worth 11,543,144 Birr to various countries. (CSA,External Trade Statistics). Thus, on the grounds that vegetables are nutritionally and economically important, it is worth expanding vegetable farming. When one looks at Summary Tables V-1 – V-2 to have a picture of the vegetable production in Gambela region one realizes that a lot has to be done in this regard.

Summary Tables V-1 and V-2 show that only 0.57 % of the regional crop area is under vegetables which formed 2.89 % of the total volume of production in the region. Ethiopian cabbage took up 0.26 % of the regional crop area and the same crop made up 1.82 % of the vegetable production of the region. The contribution of vegetables to the regional production by urban holders was only 0.04%. Summary Tables V-3 to V-6 show that zone 1 and zone 2 formed 10.32% and 89.68% of the regional area under vegetables and 11.54% and 88.46% of the regional vegetable production, in that order. In zone 1 0.26% of the zonal crop area and 1.95% of the production in the zone were that of vegetables. Tomatoes covered 85.83% of the zonal area under vegetables.

In zone 2, 0.66% of the zonal crop area and 3.2% of the production were that of vegetables. Ethiopian cabbage and red peppers were planted in 50.18% and 33.03% of the zonal area under vegetables, respectively. Thus Ethiopian cabbage and red peppers yielded 70.52%, and 5.96% of the zonal volume of vegetable production, in that order.

2.5 Root Crops

Some root crops like onion and garlic are indispensable part of the daily meal of the Ethiopian population. These crops are essential to improve the taste and

scent of the food. Potato, which is one of nature's precious gifts, is also very common in the dishes of most Ethiopians. This importance necessitated the growth and production of many of the root crops throughout the year often via the use of irrigation. Root crops are also a good source of cash and foreign exchange for the growers and the country, respectively. In 2001/02 (1994 E.C), the country has acquired a sum of 22,423,972 million Birr by exporting 120,497 quintals of root crops. (CSA,External Trade Statistics).The economic and nutritional importance of root crops has been a factor for practicing the agriculture in all the regions and growing the crops more than one time in a year.

Summary Tables V-1 and V-2 indicate the root crop situation in Gambela Region. As the tables show, root crops covered only 2.89 % of the regional crop area and 14.41 % of the production volume. Godere and sweet potatoes shared 1.92 % and 0.93 % of the regional root crop area and these crops added 8.83 % and 5.4% to the regional volume of root crop production respectively.

SUMMARY TABLE V-1 AREA UNDER TEMPORARY CROPS BY CROP TYPE FOR PRIVATE PEASANT HOLDINGS

GAMBELA REGION

Crop	All		Rural		Urban
			Area (HA)		Area (HA)
	Area (HA)	%	Meher	Belg	Meher
All	12067.86		8724.84	2937.56	405.46
Grain Crops	11650.27	100	8337.75	2911.92	400.61
Cereals	11036.28	94.73	7876.6	2782.57	377.21
Teff	4.99	0.04	4.67	*	-
Barley	9.47	0.08	9.41	-	0.06
Wheat	*	*	*	-	-
Maize	8141.95	69.89	5110.06	2772.25	259.63
Sorghum	2784.91	23.9	2664.26	*	117.44
Finger Millet	55.24	0.47	48.38	*	*
Oats/"Aja"	*	*	*	-	-
Rice	38.57	0.33	38.57	-	-
Pulses	225.33	1.93	116.47	108.02	0.84
Horse beans	*	*	*	-	-
Field peas	*	*	*	-	-
Haricot beans	221.15	1.9	112.31	108	0.84
Chick-peas	*	*	*	-	-
Lentils	*	*	*	*	-
Vetch	*	*	*	-	-
Soya beans	0.09	-	*	-	-
Fenugreek	*	*	*	-	-
Gibto	*	*	*	-	-
Oilseeds	388.56	3.34	344.68	21.33	22.56
Neug	*	*	*	-	-
Linseed	*	*	*	*	0.59
Groundnuts	43.43	0.37	26.06	-	17.37
Sunflower	0.77	-	0.73	*	-
Sesame	339.83	2.92	314.63	20.6	4.6
Rapeseed	*	*	*	-	-
Vegetables	68.39	100	55.7	9.83	*
Lettuce	-	-	-	-	-
Head cabbage	*	*	*	*	-
Ethiopian cabbage	31.18	45.59	21.95	9.18	0.04
Tomatoes	10.5	15.35	7.97	*	*
Green peppers	5.54	8.1	4.85	*	0.09
Red peppers	20.28	29.65	20.06	-	*
Swiss chard	*	*	*	-	-
Root crops	349.19	100	331.4	15.81	1.98
Beetroot	*	*	*	*	-
Carrot	*	*	*	-	-
Onion	0.49	0.14	*	-	*
Potatoes	3.74	1.07	*	*	*
Garlic	0.79	0.23	0.67	*	-
Taro/'Godere'	231.84	66.39	220.7	511	*
Sweet potatoes	112.01	32.08	108.2	3.01	*

SUMMARY TABLE V-2 PRODUCTION UNDER TEMPORARY CROPS BY CROP TYPE FOR PRIVATE PEASANT HOLDINGS

GAMBELA REGION

Crop	All		Rural		Urban
	Production(QT)	%	Production(QT)		Production (QT)
			Meher	Belg	Meher
All	200349.9		178765.6	16404.93	5179.36
Grain Crops	165689.2	100	145743.4	14882.87	5062.92
Cereals	163283.8	98.55	144048.8	14505.72	4729.3
Teff	*	*	*	-	-
Barley	21.37	0.01	21.21	-	0.16
Wheat	-	-	-	-	-
Maize	127522.2	76.96	109867.5	14499.5	3155.17
Sorghum	34704.64	20.95	33217.91	*	1482.56
Finger Millet	629	0.38	535.55	*	*
Oats/"Aja"	-	-	-	-	-
Rice	384.6	0.23	384.6	-	-
Pulses	1106.42	0.67	706.26	*	*
Horse beans	*	*	*	-	-
Field peas	-	-	-	-	-
Haricot beans	1104.42	0.67	704.26	*	*
Chick-peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	1299.04	0.78	988.42	*	310.61
Neug	-	-	-	-	-
Linseed	*	*	-	-	*
Groundnuts	471.74	0.28	177.43	-	294.31
Sunflower	-	-	-	-	-
Sesame	817.28	0.49	806.57	*	10.7
Rapeseed	*	*	*	-	-
Vegetables	5784.92	100	4254.51	*	80.88
Lettuce	-	-	-	-	-
Head cabbage	*	*	*	-	-
Ethiopian cabbage	3650.88	63.11	2193.9	*	*
Tomatoes	1243.99	21.5	1179.85	*	*
Green peppers	486.81	8.42	481.53	*	3.74
Red peppers	305.06	5.27	301.05	-	*
Swiss chard	-	-	-	-	-
Root crops	28875.79	100	28767.7	*	35.56
Beetroot	*	*	*	-	-
Carrot	-	-	-	-	-
Onion	*	*	*	-	1.84
Potatoes	202.73	0.7	*	*	*
Garlic	98.19	0.34	98.19	-	-
Taro/'Godere'	17696.71	61.29	17655.85	69.58	*
Sweet potatoes	10827.54	37.5	10819.93	*	*

SUMMARY TABLE V-3 AREA UNDER TEMPORARY CROPS BY CROP TYPE FOR PRIVATE PEASANT HOLDINGS

ZONE 1

Crop	All		Rural		Urban
	Area (HA)		Area (HA)		Area (HA)
	Area (HA)	%	Meher	Belg	Meher
All	2753.29		1968.95	562.61	221.73
Grain Crops	2682.76	100	1903.55	561.82	217.39
Cereals	2600.91	96.95	1845.61	560.48	194.82
Teff	0.69	0.03	0.69	-	-
Barley	*	*	*	-	-
Wheat	-	-	-	-	-
Maize	2449.76	91.31	1715.58	559.64	174.54
Sorghum	148.12	5.52	127.08	*	20.2
Finger Millet	*	*	-	-	*
Oats/"Aja"	*	*	*	-	-
Rice	*	*	*	-	-
Pulses	47.59	1.77	46.1	*	0.84
Horse beans	-	-	-	-	-
Field peas	-	-	-	-	-
Haricot beans	47.37	1.77	45.88	*	0.84
Chick-peas	*	*	*	-	-
Lentils	-	-	-	-	-
Vetch	0.01	-	0.01	-	-
Soya beans	*	*	*	-	-
Fenugreek	-	-	-	-	-
Gibto	*	*	*	-	-
Oilseeds	34.25	1.28	11.84	*	21.72
Neug	-	-	-	-	-
Linseed	*	*	*	*	0.59
Groundnuts	20.23	0.75	3.61	-	16.62
Sunflower	*	*	*	-	-
Sesame	11.05	0.41	*	-	4.52
Rapeseed	-	-	-	-	-
Vegetables	7.06	100	*	*	*
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	0.39	5.52	0.34	*	*
Tomatoes	6.06	85.84	*	-	*
Green peppers	*	*	*	*	*
Red peppers	*	*	*	-	-
Swiss chard	-	-	-	-	-
Root crops	63.48	100	61.21	*	1.79
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	*	*	-	-	*
Potatoes	*	*	0.08	-	*
Garlic	-	-	-	-	-
Taro/'Godere'	17.43	27.46	17.27	0.16	-
Sweet potatoes	44.98	70.86	43.85	*	*

SUMMARY TABLE V-4 PRODUCTION UNDER TEMPORARY CROPS BY CROP TYPE FOR PRIVATE PEASANT HOLDINGS

ZONE 1

Crop	All		Rural		Urban
			Production(QT)		Production (QT)
	Production(QT)	%	Meher	Belg	Meher
All	40625.29		36958.03	*	3305.18
Grain Crops	34164.36	100	30595.62	*	3207.31
Cereals	33525.44	98.13	30282.28	*	2881.74
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	31368.63	91.82	28424.92	*	2582.3
Sorghum	2065.4	6.05	1857.37	-	208.03
Finger Millet	*	*	-	-	*
Oats/"Aja"	-	-	-	-	-
Rice	-	-	-	-	-
Pulses	243.48	0.71	220.45	*	*
Horse beans	-	-	-	-	-
Field peas	-	-	-	-	-
Haricot beans	243.48	0.71	220.45	*	*
Chick-peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	395.45	1.16	92.89	-	302.56
Neug	-	-	-	-	-
Linseed	*	*	-	-	*
Groundnuts	325.01	0.95	37.15	-	287.86
Sunflower	-	-	-	-	-
Sesame	64.83	0.19	*	-	9.1
Rapeseed	-	-	-	-	-
Vegetables	667.73	100	*	*	*
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	42.48	6.36	34.11	-	*
Tomatoes	*	*	*	-	*
Green peppers	29.75	4.46	*	*	*
Red peppers	-	-	-	-	-
Swiss chard	-	-	-	-	-
Root crops	5793.2	100	5767.47	-	*
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	*	*	-	-	*
Potatoes	*	*	-	-	*
Garlic	-	-	-	-	-
Taro/'Godere'	1381.99	23.86	1381.99	-	-
Sweet potatoes	4392.59	75.82	4385.48	-	*

SUMMARY TABLE V-5 AREA UNDER TEMPORARY CROPS BY CROP TYPE FOR PRIVATE PEASANT HOLDINGS

ZONE 2

Crop	All		Rural		Urban
			Area (HA)		Area (HA)
	Area (HA)	%	Meher	Belg	Meher
All	9314.56		6755.89	2374.95	183.72
Grain Crops	8967.51	100	6434.2	2350.1	183.22
Cereals	8435.47	94.07	6030.99	2222.09	182.39
Teff	*	*	*	*	-
Barley	8.08	0.09	8.02	-	0.06
Wheat	*	*	*	-	-
Maize	5692.18	63.48	3394.48	2212.61	85.09
Sorghum	2636.18	29.4	2537.18	*	97.24
Finger Millet	55.16	0.62	48.38	*	-
Oats/"Aja"	*	*	*	-	-
Rice	38.4	0.43	38.4	-	-
Pulses	177.74	1.98	70.37	107.37	-
Horse beans	*	*	*	-	-
Field peas	*	*	*	-	-
Haricot beans	173.78	1.94	66.43	107.35	-
Chick-peas	*	*	*	-	-
Lentils	*	*	*	*	-
Vetch	*	*	*	-	-
Soya beans	*	*	*	-	-
Fenugreek	*	*	*	-	-
Gibto	*	*	*	-	-
Oilseeds	354.3	3.95	332.84	20.64	*
Neug	*	*	*	-	-
Linseed	*	*	*	-	-
Groundnuts	23.2	0.26	22.45	-	*
Sunflower	0.72	-	0.68	*	-
Sesame	328.78	3.67	308.1	20.6	0.08
Rapeseed	*	*	*	-	-
Vegetables	61.34	100	51.5	9.52	*
Lettuce	-	-	-	-	-
Head cabbage	*	*	*	*	-
Ethiopian cabbage	30.78	50.18	21.61	9.14	0.03
Tomatoes	4.44	7.24	4.42	*	-
Green peppers	4.95	8.07	4.56	*	0.05
Red peppers	20.26	33.03	20.04	-	*
Swiss chard	*	*	*	-	-
Root crops	285.7	100	270.18	15.33	0.19
Beetroot	*	*	*	*	-
Carrot	*	*	*	-	-
Onion	*	*	*	-	0.01
Potatoes	2.85	1	*	*	0.04
Garlic	0.79	0.28	0.67	*	-
Taro/'Godere'	214.41	75.05	75.29	10.85	*
Sweet potatoes	67.03	23.46	23.81	2.69	-

SUMMARY TABLE V-6 PRODUCTION UNDER TEMPORARY CROPS BY CROP TYPE FOR PRIVATE PEASANT HOLDINGS

ZONE 2

Crop	All		Rural		Urban
			Production(QT)		Production (QT)
	Production(QT)	%	Meher	Belg	Meher
All	159724.6		141807.6	16042.85	1874.17
Grain Crops	131524.9	100	115147.8	14521.44	1855.61
Cereals	129758.3	98.66	113766.5	14144.3	1847.56
Teff	*	*	*	-	-
Barley	21.37	0.02	21.21	-	0.16
Wheat	-	-	-	-	-
Maize	96153.52	73.11	81442.56	14138.09	572.87
Sorghum	32639.25	24.82	31360.54	*	1274.53
Finger Millet	537.59	0.41	535.55	*	-
Oats/"Aja"	-	-	-	-	-
Rice	384.6	0.29	384.6	-	-
Pulses	862.94	0.66	*	*	-
Horse beans	*	*	*	-	-
Field peas	-	-	-	-	-
Haricot beans	860.94	0.65	*	*	-
Chick-peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
Soya beans	*	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	*	-
Oilseeds	903.59	0.69	895.53	-	*
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	146.73	0.11	140.28	-	*
Sunflower	-	-	-	*	-
Sesame	752.44	0.57	750.83	-	1.6
Rapeseed	*	*	*	*	-
Vegetables	5117.18	100	3659.57	-	8.74
Lettuce	-	-	-	-	-
Head cabbage	*	*	*	*	-
Ethiopian cabbage	3608.4	70.52	2159.8	*	1.03
Tomatoes	*	*	*	*	0.75
Green peppers	457.06	8.93	453.22	-	2.95
Red peppers	305.06	5.96	301.05	-	*
Swiss chard	-	-	-	*	-
Root crops	23082.59	100	23000.23	-	9.83
Beetroot	*	*	*	-	-
Carrot	-	-	-	-	-
Onion	*	*	*	*	0.9
Potatoes	185.05	0.8	*	-	1
Garlic	98.19	0.43	98..19	*	-
Taro/'Godere'	16314.72	70.68	16273.85	*	*
Sweet potatoes	6434.95	27.88	6434.45		-

Figure V-1 Area under Temporary Crops

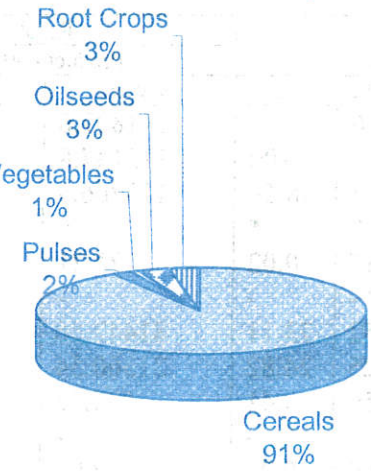


Figure V-2 Production Of Temporary crops

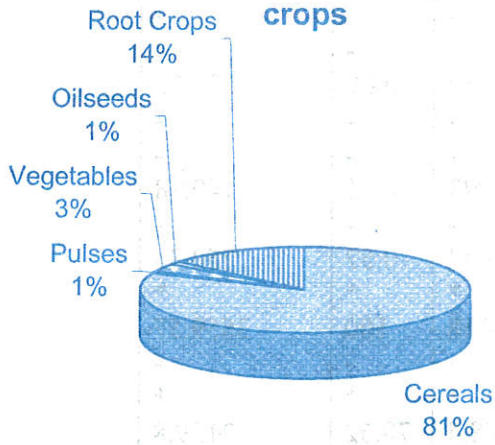
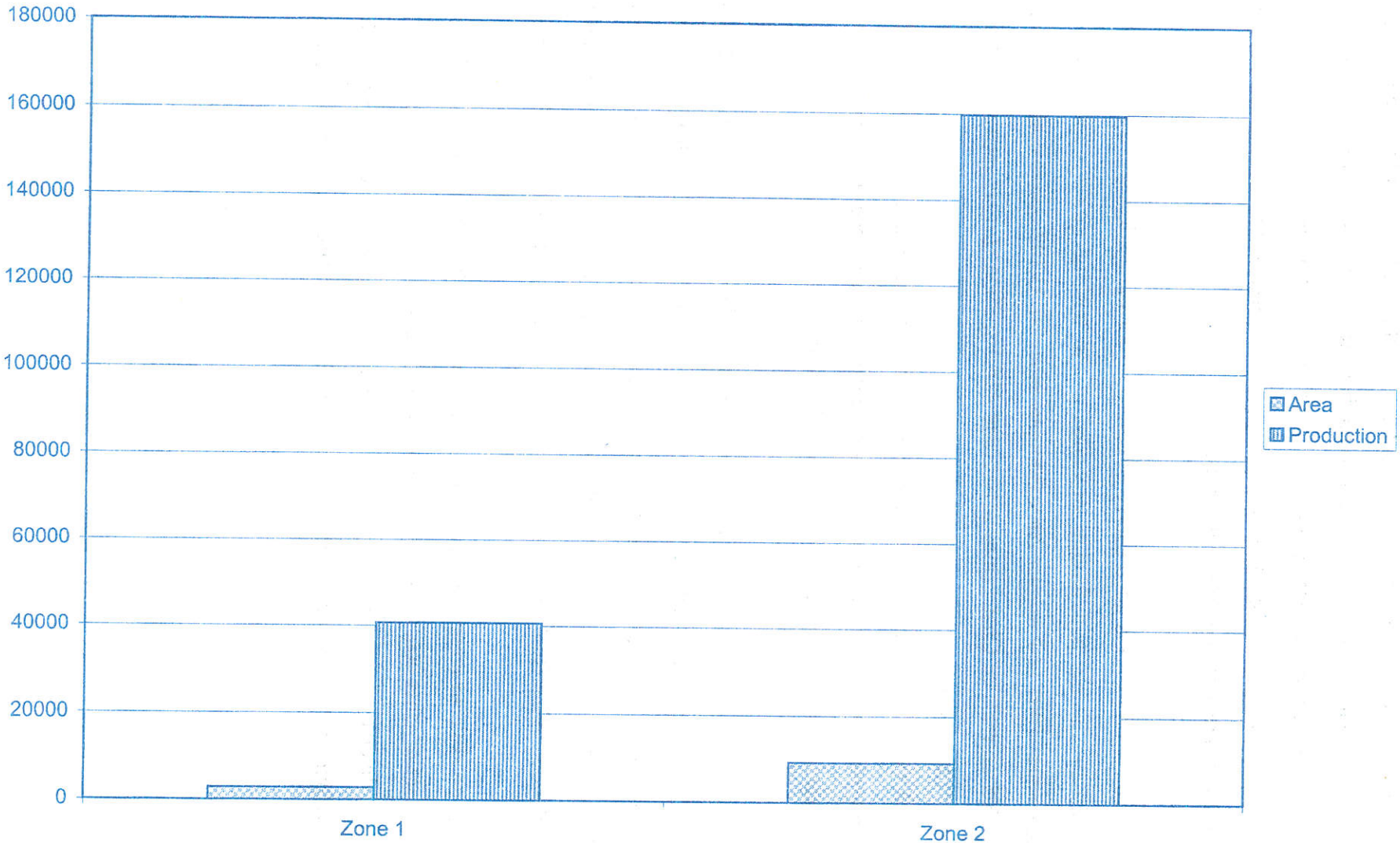


Figure V-3 Area and Production Of Temporary Crops For Private Peasant Holdings



3. PRODUCTION OF PERMANENT CROPS

Permanent crops are long term crops that occupy the field planted for a long period of time and largely harvested every year and do not have to be replanted for several years after each harvest. These include tree crops such as coffee, Enset, Chat, oranges, mangoes, bananas, papayas, avocados... etc. The trees that yield fruits like oranges; mangoes, papayas, apples and others are also known as fruit trees.

Permanent crops are a good source of cash both for the holders and the country generating handsome income and foreign exchange at the best of times. For instance, between September 2001 and August 2002 Ethiopia exported 53,142 quintals of fruits and nuts and 91,705 quintals of Chat valued at16.5 and 426.7 million Birr, respectively. (CSA,External Trade Statistics)

With these bits of information and the dietary and economic importance of the crops in mind, it is not difficult to project the profits that can be reaped from the permanent crops if the farming in this regard is well developed and managed.

Fruits are not only a source of cash but are also a reliable source of nutrition that is essential for the health and growth of humans. There has even been an oft-repeated advice from health authorities that we should include fruits in our daily dish to make it nutritious. The two points made on the importance of permanent crops underscore the fact that fruit farming should be encouraged and expanded to have a steady supply of the desired products.

It is possible to conjecture that permanent crops in Ethiopia are not as well developed as they are in other countries. But the potential to develop them is great as Ethiopia is blessed with diverse climate conducive to the crops. In order to direct efforts towards the developmentof permanent crops, one requires statistical data regarding this sector

of the agriculture. Adequate data on type and volume of production, area under permanent crops and their distribution have not been available. Hence, to bridge up this gap and alleviate the chagrin to data users the CSA has collected data on permanent crops.

Prior to the census, the CSA surveyed the situation about permanent crops in the country and then decided on the types of permanent crops, range of data items and method of enumeration to be included in the census. Hence, only major permanent crops were covered during the census. Data on the types of crops were collected by holder interview while area and yield data were recorded by objective measurements. The numbers of Enset, Hops (Gesho) and fruit trees with the exception of pineapple were determined by counting the plants excluding seedlings.

In estimating the production of permanent crops, area, yield per unit area, yield per tree and number of fruit bearing trees are essential ingredients. These inputs were determined by physically measuring the area under crops in question, picking fruits, coffee berries and Chat produce from randomly demarcated plots or selected trees. The method involved crop cutting from small plots of rectangular shape of different sizes randomly placed in the selected crop field and a tree of fruit bearing age selected from all fruit bearing trees for each crop type and subsequent husking, drying weighing and recording the weight of the harvest of permanent crops. The crop cutting was performed for a sub sample of 20 households of the 30 households selected in each enumeration area. A 4m X 4m plot was demarcated for coffee and Chat and a 2m X 2m for pineapple and 1m X 1m plot for sugar cane were designated for the crop cutting exercise. The yields harvested from these plots and trees were immediately weighed (green weight) and/or weighed again after two weeks of drying to conform to the normal holder harvesting and drying practices. The coffee weight registered was that of clean coffee beans and the hops (Gesho) weight taken was that of the dry one. The green and dry weights were recorded on the appropriate forms.
For simplicity of description of the statistical tables and comparison purposes permanent crops have been grouped into three categories. Each category has a

For simplicity of description of the statistical tables and comparison purposes permanent crops have been grouped into three categories. Each category has a semblance of similarity, which necessitated the categorization. The categories are fruit crops, stimulant crops and other permanent crops. These categories include only permanent crops on which yield data have been collected.

3.1. Fruit Crops

Various kinds of fruit crops grow in different regions of the country yielding varying quantities of fruits within the private peasant holdings in the traditional way. There are also a few fruit farms that are run by enterprises in the modern way. The volume of fruit production obtained from the peasant farms is small signalling the absence of development in fruit farming. A look at the tables helps to crystallize this point.

As summary table V-7 shows in Gambela Region about 3.7 thousand hectares of land is under permanent crops in the region. Fruit crops constituted 9.8% of the permanent crop area yielding about 34.3 thousand quintals of fruits. Bananas, Mangoes and Papayas shared 49.56%, 29.38 % and 14.39 % of the fruit crop area and 26.17%, 25.52% and 45.66% of the fruit production, in that order. Urban agricultural holders added 12.67 % to the regional permanent crop area.Mangoes & Papayas constituted 41.3% and 25.63% of the urban fruit area. The same holders, in that order contributed about 10.36 % and 68.95 of the urban fruit crop production. Mangoes and Papayas grown by urban holders accounted for 0.98 % and 0.61% of the area under fruit crops and 0.63% and 4.17% of the of the fruit production in the region,respectively. For details, refer to Summary Table V-7.

A glimpse of Tables V-8-V-9 gives a picture about the zonal contributions to the regional total of permanent crop area and production. Zone 1 and Zone 2 made up 3.38% and 96.62% of the regional permanent crop aea, respectively. This resulted in 34.97% and 65.03% of the fruit crop production in the region, in that order. In Zone 1 127 hectares of land is under permanent crops of which 99.12% is under fruit crops with a recorded production of about 11,985 quintals of fruits. Thus, mangoes and Bananas took up 48.26% and 40.55% of the zonal fruit crop area resulting in 47.59%

and 29.55% of the fruit crop production, in that order. Urban holders in the zone added 3.89% to the zonal permanent crop area and 3.90% and 3.36% of the Zonal fruit production. Papayas grown by urban holders took up 1.61% of the zonal fruit crop area and Mangoes covered 1.2% of the zonal fruit production. Details are given in summary Table V-8.

In Zone 2,3,633 hectares of land is under permanent crops of which 6.68% is under fruit crops. More than 22,000 quintals of fruits was produced in the zone in 2001/02 (1994 E.E.) Bananas, Mangoes and Papayas constituted 54.22%, 19.61% and 16.74% of the zonal fruit crop area and 24.35%, 13.65 and 58.07% of the fruit production, in that order. Urban holders in the zone added 12.98% of the zonal permanent crop area and 1.58% of the fruit crop area. The fruit production contributed by urban holders was 7.48% of the zonal total fruit production. Mangoes grown by urban holders made up 57.18% of the urban fruit crop area and 4.24% of the urban fruit production in the zone, respectively. See the details in summary Table V-9.

3.2. Stimulant Crops:

This category embraces cash crops like coffee and Chat, which are extensively grown in many parts of the country. It is needless work to verify by quoting statistical evidences that coffee is a major foreign exchange earner. It may not be even surprising to hear that Chat farming is becoming a rapidly expanding phenomenon in Ethiopia because of its economic importance. As the census covered a wide range of crops, the statistics on Chat would perhaps be more tantalizing than the others. Summary Table V-7 shows the situation in which coffee & Hops are found in Gambela Region.

The data in the table demonstrates, more than three fourth ie, 77.81 % of the regional permanent crop area is under stimulant crops. Of the total area under stimulant crops in the region, 98.22 % is that of coffee resulting in 90.4 % of the volume of stimulant crop production. Coffee grown by urban holders accounted for 15.8 % of the stimulant crop area and 7.27 % of the production in the region.

Tables V-8 and V-9 portray that almost all of made up the stimulant crop area and production is found in zone 2. In Zone 2, 80.53% of the zonal permanent crop area was under stimulant crops. Of the zonal stimulant crop area 98.22% was under Coffee. Coffee constituted 90.4% of the production of stimulant crops. Coffee grown by urban holders in the zone shared 15.80% of the zonal stimulant crop area.

3.3 Other Permanent Crops

This group includes Enset and Sugar cane on which yield data have been collected. Enset is a principal staple crop extensively grown in S.N.N.P. and Oromiya Regions. The growers draw a substantial amount of money from the sale of Enset products. Though, sugar cane is an industrial crop it looks that it is not widely practiced by the private peasant holders, as the statistics seem to indicate. It is produced on a small scale by private peasant holders in some pockets of the country and usually does not end up in sugar cane processing plants. The sugar factories in Ethiopia run extensive Sugar cane plantations. As the statistics indicate 660,146 quintals of sugar worth 111,773,918 birr was exported between September 2001 and August 2002.(CSA,External Trade Statistics)

Summary Table V-7 sheds some light on the production of Sugar cane in Gambela Region. Both crops covered 12.39% of the regional permanent crop area. Of the regional area under other permanent crops Enset took up 84.36% of it. The result also indicates that more than 5000 quintals of sugar cane were produced in the region. About 21.14% of other permanent crop area in the region is under sugar cane grown by urban holders.

Summary Tables V-8 and V-9 show the zonal contribution of other permanent crops to the regional total of the same crops. As shown in these tables, Zone 1 and zone 2 zones constituted 0.28% and 99.72% of other permanent crop area in the region, respectively. Zone 2, contributed 99.32% of the regional sugar cane production. More than 5000 quintals of sugar cane was produced in Zone 2.

SUMMARY TABLE V-7 AREA AND PRODUCTION OF PERMANENT CROPS BY CROP TYPE FOR PRIVATE PEASANT HOLDINGS

Gambela Region

Crop Type	All				Rural		Urban		Urban	
	Area in Crop (ha)	%	Production in Quintal	%	Area in Crop (ha)	Production in Quintal	Area in Crop(ha)	%	Production in Quintal	%
Total Permanent	3760.08				3283.65		476.43			
Fruit Crops	368.64	100	34270.43	100	359.9	32200.11	8.74	100	2070.32	100
Avocados	4.59	1.25	-	-	4.19	-	*	*	-	-
Bananas	182.68	49.56	8969.18	26.17	180.68	8634.52	2	22.88	*	*
Guavas	4.15	1.13	74.97	0.22	3.94	74.72	0.21	2.4	0.25	0.01
Lemons	3.98	1.08	102.68	0.3	3.97	102.68	*	*	-	-
Mangoes	108.32	29.38	8745.24	25.52	104.71	8530.84	3.61	41.3	214.4	10.36
Oranges	10	2.71	605.26	1.77	9.83	593.1	0.17	1.95	12.16	0.59
Papayas	53.04	14.39	15646.53	45.66	50.8	14219.07	2.24	25.63	1427.46	68.95
Pineapples	1.88	0.51	*	*	1.79	45.19	*	*	*	*
Stimulant Crops	2925.64	100	16862.88	100	2462.55	15638.73	463.09	100	1224.15	100
Chat	38.37	1.31	1265.53	4.11	37.47	1265.53	*	*	-	-
Coffee	2873.65	98.22	15243.67	94.74	2411.47	14020.26	462.18	99.8	1223.41	99.94
Hops	13.63	0.47	353.68	1.15	13.61	352.94	*	*	*	*
Other Permanent	465.79	100	17631.01	100	461.19	17375.01	4.6	100	*	*
Enset	392.95	84.36	12358.28	70.09	392.88	12356.08	*	*	-	-
Sugar Cane	72.84	15.64	5272.73	29.91	68.31	5018.93	4.53	98.48	*	*

SUMMARY TABLE V-8 AREA AND PRODUCTION OF PERMANENT CROPS BY CROP TYPE FOR PRIVATE PEASANT HOLDINGS

ZONE 1

Crop Type	All				Rural		Urban		Urban	
	Area in Crop (ha)	%	Production in Quintal	%	Area in Crop (ha)	Production in Quintal	Area in Crop(ha)	%	Production in Quintal	%
Total Permanent	126.95				122.01		4.94			
Fruit Crops	125.83	100	11984.73	100	120.92	11582.4	4.91	100	402.33	100
Avocados	0.03	0.02	-	-	0.03	-	-	-	-	-
Bananas	51.03	40.55	3541.8	29.55	49.81	3401.33	1.22	24.85	*	*
Guavas	1.3	1.03	32.88	0.27	*	32.63	0.21	4.28	0.25	0.06
Lemons	*	*	*	*	*	*	*	*	-	-
Mangoes	60.72	48.26	5703.82	47.59	59.29	5560.07	1.43	29.12	143.75	35.73
Oranges	0.21	0.17	*	*	0.21	*	-	-	-	-
Papayas	12.4	9.85	2704.8	22.57	10.36	2586.93	2.04	41.55	*	*
Pineapples	*	*	-	-	*	-	-	-	-	-
Stimulant Crops	*	*	-	-	*	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-	-
Coffee	*	*	-	-	*	-	-	-	-	-
Hops	-	-	-	-	-	-	*	*	-	-
Other Permanent	1.09	100	35.82	100	1.06	35.82	-	-	-	-
Enset	-	-	-	-	-	-	*	*	-	-
Sugar Cane	1.09	100	35.82	100	1.06	35.82	4.94	*	-	-

SUMMARY TABLE V-9 AREA AND PRODUCTION OF PERMANENT CROPS BY CROP TYPE FOR PRIVATE PEASANT HOLDINGS

ZONE 2

Crop Type	All				Rural		Urban		Urban	
	Area in Crop (ha)	%	Production in Quintal	%	Area in Crop (ha)	Production in Quintal	Area in Crop(ha)	%	Production in Quintal	%
Total Permanent	3633.12				3161.63		471.49			
Fruit Crops	242.81	100	22285.71	100	238.98	20617.51	3.83	100	1668	100
Avocados	4.56	1.88	-	-	4.16	-	*	*	-	-
Bananas	131.66	54.22	5427.37	24.35	130.88	5233.18	*	*	*	*
Guavas	2.84	1.17	42.09	0.19	2.84	42.09	-	-	-	-
Lemons	3.89	1.6	102.38	0.46	3.89	102.38	*	*	-	-
Mangoes	47.61	19.61	3041.43	13.65	45.42	2970.77	2.19	57.18	70.66	4.24
Oranges	9.78	4.03	604.13	2.71	9.61	591.97	0.17	4.44	12.16	0.73
Papayas	40.65	16.74	12941.74	58.07	40.45	11632.14	*	*	*	*
Pineapples	1.82	0.75	*	*	1.73	45.19	*	*	*	*
Stimulant Crops	2925.61	100	16862.88	100	2462.52	15638.73	463.09	100	1224.15	100
Chat	38.37	1.31	1265.53	7.5	37.47	1265.33	*	*	-	-
Coffee	2873.61	98.22	15243.67	90.4	2411.43	14020.26	462.18	99.8	1223.41	99.94
Hops	13.63	0.47	353.68	2.1	13.61	352.94	*	*	*	*
Other Permanent	464.69	100	17595.18	100	460.13	17339.18	4.56	100	*	*
Enset	392.95	84.56	12358.28	70.24	392.88	12356.08	*	*	-	-
Sugar Cane	71.74	15.44	5236.9	29.76	67.25	4983.1	4.49	98.46	*	*

Figure V-4 Area Under Permanent Crops

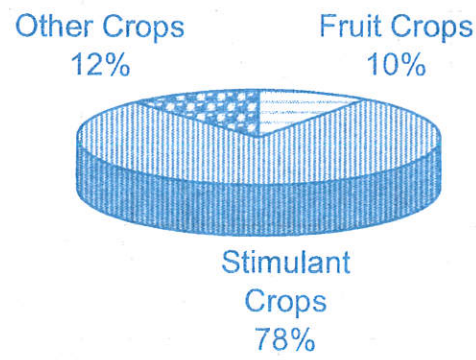


Figure V-5 Production Of Permanent Crops

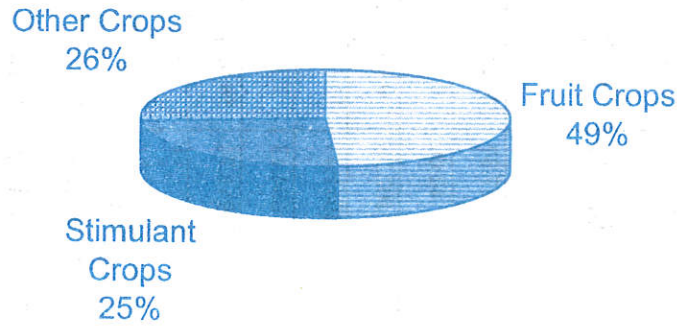
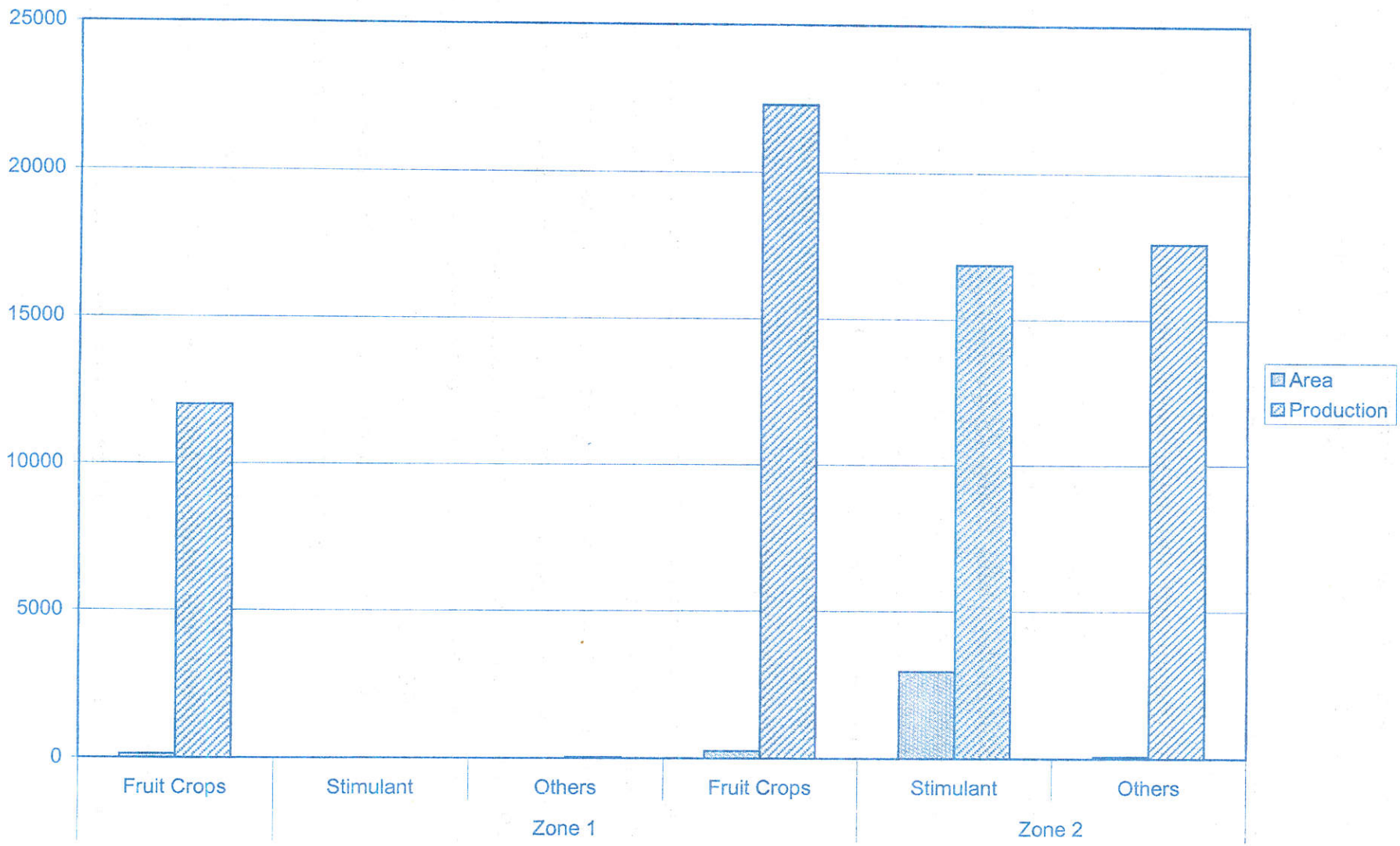


Figure V-6 Area and Production Of Permanent Crops



4. Crop Utilization

Agriculture is the livelihood of the overwhelming majority of the Ethiopians. It is the source of food and cash for those who are engaged in it and others. Most agricultural holders acquire the food they eat and the cash they need to cover other expenses only from farming activities. Since farming in Ethiopia is often precarious and usually at the mercy of nature, it is invariably an arduous struggle for the holders to make ends meet. This, it often transpires, is true to the frequent shortfalls in the volume of production that occur in the country.

It is often said that what most Ethiopian agricultural holders produce is only enough to live, hand to mouth. This would be better said if it was statistically substantiated. There is plenty of information on the volume of crops produced within the private peasant holdings. But there is hardly any information on how the peasants utilize the crops they produce which will be indicative of the fact whether the holders have enough or little to sell in order to meet other expenses for living. For use in the census taking, crop utilization was defined as the amount of agricultural produce used for own consumption, sale, seed, and wages in kind, animal feed and other purposes.

In light of this information gap, the CSA has collected some data on how holders use their agricultural produce in the agricultural year to provide some information on the subject. The data were collected by interviewing the holders. They were asked to quantify their yearly crop utilization experience in percent based on common practice. Summary Tables V-10 to V-12 convey this information to shed some light on how holders utilize their crop produce. Information was sought for each crop type produced during the census year. The resulting data may help users to have some idea about crop usages by agricultural holders. In order to detect the differences in utilization of the various crops, it is better to look into the data by group of crops as categorized in the summary tables for simplicity and analogy.

Needless to say, as Summary Table V-10 points out, most of the cereal crops produced were used for household consumption. In Gambela Region 75 % of the cereals produced were used for household consumption. About 13 % and 8 % were used for sale and seed, respectively. The remaining 4 % of the cereals produced was used for other purposes like

purposes like wages, animal feed, etc. When the utilization is considered by crop type, it is easy to realize that between 68 % and 91 % of the crops in the cereals group were used for own consumption and between 8 % and 16 % of these crops were used for sale. Moreover, between 5 % and 16 % of the same crops in the same group were used for seed.

As shown in Summary Table V-10 about 83 % of pulses were used for household consumption, 10% were used for sale and 5% for seed. The remaining 2 % of pulses were used for wages, animal feed and others. Considering utilization by crop type within the pulses group, 83% of the crops were utilized for household consumption and 5% of the same crops in the same group were sold in 2001/02 (1994 E.C.). Moreover, 5 % of these crops in the pulses group were also used for seed in the same year.

Eventhough, the patternof utilization of Oilseeds seem the same more percentage of oilseeds were sold as portrayed in Summary Table V-10. About 52 %, 38 % and 7 % were used for household consumption sale and seed, respectively. Taking utilization by crop type into account, between 29% and 100% of each crop type in the oilseeds category were used for household consumption, between 14-62% for sale and 7% for seed. It may reasonably be summed up that more of the oilseeds produced are used for household consumption.

About 82% and 14% of the vegetables produced were used for household consumption and sale, respectively. The remaining percent were used for seed, wages, animal feed and others. The percent used by crop type with in the vegetables group were between 62%-91% for household consumption, between 7%-28% for sale, between and 1%-2% were used for seed. For details, refer to Summary Table V-10.

The utilization of root crop production is the same as that of vegetables as indicated in the regional Summary Table V-10. About 87 % of the root crops were used for household consumption 6% used for sale and 5% for seed. The ranges of percent utilized by crop type within the root crops category fall between 67%-100% for consumption, 4%-13% for sale.

The pattern of the permanent crop utilization is different from that of cereals, pulses, vegetables and root crops. Thus, about 54 % of the crop was used for consumption at home and about 39% for sale. The utilization by crop type within the permanent crop group ranges between 16% and 79% for household consumption and between 14% and 78% for sale. Permanent crops are also used as cash crops like oilseeds. It is rational to conclude by looking at Summary Table V.10 that the peasant farmers consume mort of what they produce leaving little to sale.

Summary Table V-11 and V-12 indicates that the pattern of crop utilization in the zones is similar to that of the region. In Zone 1, the percent of cereals used were 74% for household consumption, 3 % for sale and 8 % for seed. Crop utilization in the zone for each crop in the cereal category ranged between 75% and 76% for household consumption, 12% for sale and 8% - 9% for seed.

The utilization of pulses in the zone is about the same as cereals. About 72% of the pulses produced were used for household consumption, 17% for sale and 7% for seed. The remaining 4% were used for other purposes. The percent of pulses used by crop type in the pulses was 72% for household consumption, 17% for sale and 7% for seed.

In Zone 1 about 52% of the oilseeds grown in the zone were used for consumption at home, 36% for sale and 9% for seed. The usage of oilseeds by crop type within the category ranged from 50%-56% for household consumption, 28% - 41% for sale and 7% - 11% for seed.

In zone 1 about 58% of the vegetables produced were sold, and about 35% were used for household consumption, and seed, respectively. The utilization of each crop in the vegetable group varied from 57% to 63% for sale, 25%-37% for household consumption.

The data in Summary Table V-11 shows that most of the root crops produced in the zone were used for household consumption. More than 75 % of the root crops were consumed at home, about 16 % used for sale and 2 % for seed. The utilization by crop type within this

group fluctuated from 69% to 75% for household consumption, 16%-27% for sale and 2% for seed.

Permanent crops formed the second group used as a source of cash after oil seeds. As indicated in Summary Table V-11, about 47% of the permanent crops were used for sale and 46% for own consumption. The percent of usage of each permanent crop within the group varied between 28% and 58% for sale and 37%-100% for consumption at home.

In Zone 2, the product utilization pattern is the same as the region and the other zones. The census result reveals that about 75 % of cereals were used for household consumption, 12% for sale and about 7% for seed. The percent of utilization of each crop in the cereal category ranged between 75% and 91% for household consumption, 8 - 16% for sale and 5 - 16% for seed.

Concerning pulses about 92% of the pulses were used for household consumption, 4% for sale and 3% for seed. The percent of utilization by crop type within the pulses category were 92% for household consumption, 4% for sale and 3% for seed.

The data on oil seeds utilization in Zone 2, have the same trend as that of the region and Zone 1. As shown in Summary Table V-12, about 52% of the oil seeds were consumed 39% for sale and 7% for seed. The percent utilized by crop type within the oil seed category fall between 27 -100% for 10 - 66% for sale and 7%-8% for seed.

As mentioned earlier data on the pattern of crop utilization of vegetables and root crops was collected. The result shows that about 85% of the vegetables grown were used for household consumption and 12% for sale. The percent utilized by crop type in the vegetable category varied from 62% - 94% for household consumption and 5 - 20% for sale in Zone 2.

In zone 2 the data show that about 89% of the root crops were used for household consumption and 5% for seed and 4% for sale. The percent utilized by crop type within the

group fluctuated from 67 - 100% for household consumption and 1 - 21% for seed and 4%-12% for sale.

For Zone 2, permanent crops are also second to oilseeds as a source of cash as portrayed in Summary Table V-12. Thus, about 56% of permanent crops grown in the zone were used for household consumption and 37% for sale. The percent utilized by crop type within the permanent crops group fall between 16 - 85% for household consumption and 9% - 78% for sale.

SUMMARY TABLE V-10 CROP PRODUCTION AND PERCENT OF UTILIZATION ALL HOLDINGS
Gambela Region

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	165689.2	74.95	7.62	12.74	-	1.42	3.27
Cereals	163283.8	75.72	7.79	10.79	0.73	1.56	3.42
Teff	*	83.84	16.16	-	-	-	-
Barley	21.37	90.92	9.08	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	127522.2	74.77	7.79	11.92	0.59	1.58	3.35
Sorghum	34704.64	77.48	7.74	8.28	1.12	1.64	3.75
Finger millet	629	83.6	5.16	9.72	-	0.29	1.23
Oats "Aja"	-	-	-	-	-	-	-
Rice	384.6	67.75	12.16	15.65	-	0.61	3.83
Pulses	1106.42	82.5	5.05	10.27	0.05	0.05	2.09
Horse beans	*	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	1104.42	82.5	5.05	10.27	0.05	0.05	2.09
Chick – peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oilseeds	1299.04	52.08	7.28	38.49	0.06	0.26	1.82
Neug	-	-	-	-	-	-	-
Linseed	*	-	-	-	-	-	-
Groundnuts	471.74	75.17	7.49	14.45	-	0.11	2.78
Safflower	-	-	-	-	-	-	-
Sesame	817.28	28.99	7.14	62.45	0.13	0.41	0.89
Rapeseed	*	100	-	-	-	-	-
Vegetables	5784.92	82.07	0.7	14.3	0.19	-	2.74
Lettuce	-	-	-	-	-	-	-
Head cabbage	*	62.48	-	18.04	-	-	19.47
Ethiopian cabbage	3650.88	86.94	0.52	10.76	0.33	-	1.44
Tomatoes	1243.99	64.48	1.85	28.14	-	-	5.53
Green peppers	486.81	91.15	0.17	7.47	-	-	1.2
Red peppers	305.06	76	0.91	19.59	-	-	3.5
Swiss chard	-	-	-	-	-	-	-
Root Crops	28875.79	87.34	4.64	5.73	*	-	2.29
Beetroot	*	100	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	*	84.01	12.11	3.87	-	-	-
Potatoes	202.73	92.87	7.13	-	-	-	-
Garlic	98.19	66.66	21.32	12.02	-	-	-
Taro / Godere	17696.71	88.03	3.82	5.66	*	-	2.47
Sweet potatoes	10827.54	82.43	1.18	13.06	0.07	0.35	2.91
Permanent crops	70327.04	54.4	0.45	38.96	1.01	0.47	4.72
Avocados	-	-	-	-	-	-	-
Bananas	8969.18	53.77	0.19	41.55	-	0.02	4.48
Guavas	74.97	74.02	-	17.06	-	-	8.91
Lemons	102.68	43.53	-	43.31	-	-	13.15
Mangoes	8745.24	60.37	0.34	32.55	0.21	-	6.53
Oranges	605.26	61.15	0.99	32	-	-	5.87
Papaya s	15646.53	79.44	0.01	13.66	0.05	-	6.85
Pineapples	*	72.92	-	24.86	-	-	2.22
Chat	1265.53	18.96	-	78.25	-	-	2.79
Coffee	29164.66	16.32	1.15	76.19	5.3	0.01	1.04
Hops	353.68	57.57	1.03	39.2	-	-	2.19
Enset	-	-	-	-	-	-	-
Sugarcane	5272.73	72.12	0.63	17.32	0.03	4.51	5.4

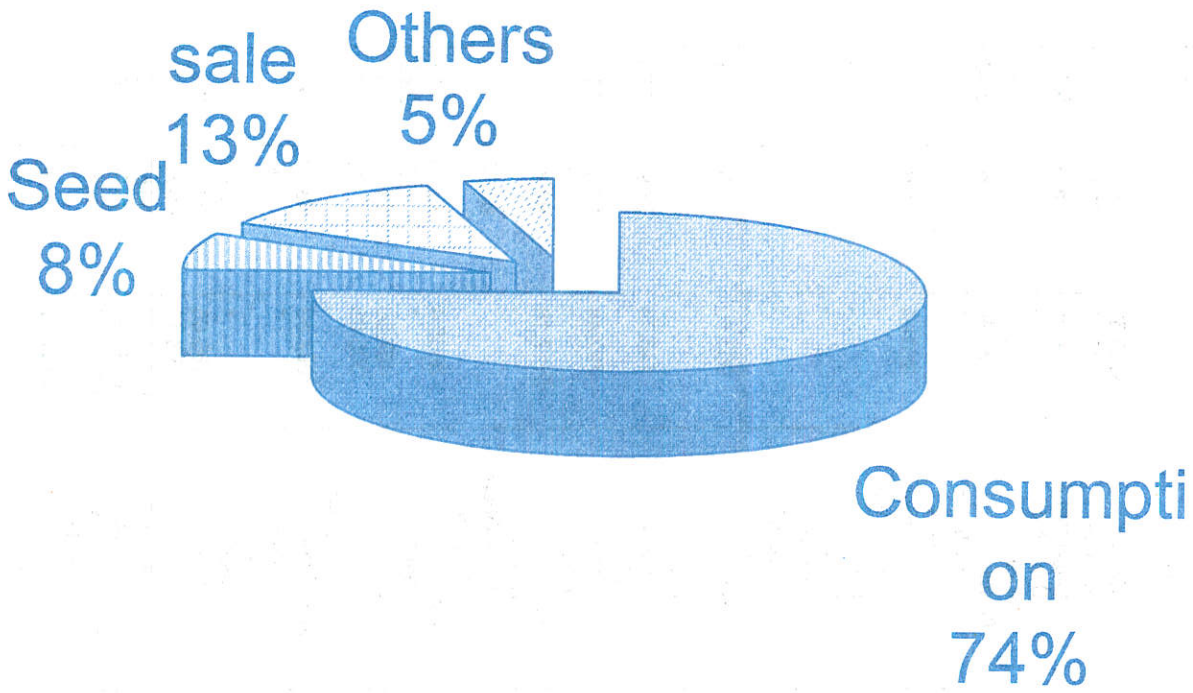
SUMMARY TABLE V-11 CROP PRODUCTION AND PERCENT OF UTILIZATION ALL HOLDINGS ZONE 1

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	34164.36	74.44	8.24	13.44	-	1.01	2.87
Cereals	33525.44	75.19	8.38	12.4	0.1	1.13	2.81
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	31368.63	75.09	8.32	12.49	0.11	1.12	2.87
Sorghum	2065.4	76.14	9.02	11.56	-	1.17	2.12
Finger millet	*	-	-	-	-	-	-
Oats "Aja"	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulses	243.48	72.2	6.87	17.48	-	0.1	3.35
Horse beans	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	243.48	72.2	6.87	17.48	-	0.1	3.35
Chick – peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oilseeds	395.45	52.2	8.57	35.79	-	-	3.44
Neug	-	-	-	-	-	-	-
Linseed	*	-	-	-	-	-	-
Groundnuts	325.01	50.01	7.02	40.67	-	-	2.31
Safflower	-	-	-	-	-	-	-
Sesame	64.83	55.51	10.92	28.41	-	-	5.16
Rapeseed	-	-	-	-	-	-	-
Vegetables	667.73	35.53	0.18	58.18	-	-	6.11
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Ethiopian cabbage	42.48	35.26	0.97	61.74	-	-	2.04
Tomatoes	*	36.82	-	56.73	-	-	6.45
Green peppers	29.75	25.26	-	62.75	-	-	11.99
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	5793.2	75.7	2.43	16.24	-	-	5.63
Beetroot	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	*	-	-	-	-	-	-
Potatoes	*	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-
Taro / Godere	1381.99	75.7	2.43	16.24	-	-	5.63
Sweet potatoes	4392.59	69.13	2.05	26.65	0.05	-	2.12
Permanent crops	12020.55	45.92	0.3	47.01	*	0.01	6.76
Avocados	-	-	-	-	-	-	-
Bananas	3541.8	36.97	0.11	57.53	-	0.02	5.38
Guavas	32.88	51.74	-	30.16	-	-	18.1
Lemons	*	50	-	50	-	-	-
Mangoes	5703.82	39.62	0.69	52.52	0.01	-	7.16
Oranges	*	100	-	-	-	-	-
Papaya s	2704.8	63.81	0.03	28.36	-	-	7.8
Pineapples	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-
Hops	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-
Sugarcane	35.82	79.38	-	17.57	-	-	3.05

SUMMARY TABLE V-12 CROP PRODUCTION AND PERCENT OF UTILIZATION ALL HOLDINGS
ZONE 2

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	131524.9	75.12	7.41	12.5	-	1.56	3.41
Cereals	129758.3	75.9	7.59	10.26	0.93	1.7	3.62
Teff	*	83.84	16.16	-	-	-	-
Barley	21.37	90.92	9.08	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	96153.52	74.61	7.52	11.63	0.84	1.81	3.59
Sorghum	32639.25	77.59	7.64	8.02	1.21	1.68	3.88
Finger millet	537.59	83.6	5.16	9.72	-	0.29	1.23
Oats "Aja"	-	-	-	-	-	-	-
Rice	384.6	67.75	12.16	15.65	-	0.61	3.83
Pulses	862.94	91.68	3.43	3.84	0.1	-	0.96
Horse beans	*	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	860.94	91.68	3.43	3.84	0.1	-	0.96
Chick – peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oilseeds	903.59	52.06	7.13	38.82	0.07	0.29	1.62
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Groundnuts	146.73	78.97	7.56	10.5	-	0.12	2.85
Safflower	-	-	-	-	-	-	-
Sesame	752.44	26.51	6.78	65.63	0.14	0.45	0.49
Rapeseed	*	100	-	-	-	-	-
Vegetables	5117.18	84.85	0.73	11.69	0.2	-	2.54
Lettuce	-	-	-	-	-	-	-
Head cabbage	*	62.48	-	18.04	-	-	19.47
Ethiopian cabbage	3608.4	87.93	0.51	9.79	0.34	-	1.43
Tomatoes	*	79.6	2.86	12.52	-	-	5.03
Green peppers	457.06	94.25	0.18	4.87	-	-	0.7
Red peppers	305.06	76	0.91	19.59	-	-	3.5
Swiss chard	-	-	-	-	-	-	-
Root Crops	23082.59	88.74	4.9	4.47	*	-	1.89
Beetroot	*	100	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	*	84.01	12.11	3.87	-	-	-
Potatoes	185.05	92.87	7.13	-	-	-	-
Garlic	98.19	66.66	21.32	12.02	-	-	-
Taro / Godere	16314.72	89.65	4.01	4.28	*	-	2.06
Sweet potatoes	6434.95	85.04	1.01	10.39	0.07	0.42	3.06
Permanent crops	58306.49	56.39	0.48	37.06	1.24	0.58	4.24
Avocados	-	-	-	-	-	-	-
Bananas	5427.37	61.79	0.22	33.91	-	0.02	4.05
Guavas	42.09	81.41	-	12.72	-	-	5.87
Lemons	102.38	43.25	-	43.02	-	-	13.72
Mangoes	3041.43	74.85	0.09	18.62	0.34	-	6.1
Oranges	604.13	60.81	0.99	32.28	-	-	5.92
Papaya s	12941.74	84.65	-	8.75	0.07	-	6.53
Pineapples	*	72.92	-	24.86	-	-	2.22
Chat	1265.53	18.96	-	78.25	-	-	2.79
Coffee	29164.66	16.32	1.15	76.19	5.3	0.01	1.04
Hops	353.68	57.57	1.03	39.2	-	-	2.19
Enset	-	-	-	-	-	-	-
Sugarcane	5236.9	71.95	0.65				

Figure V-7 percent of grain crops Utilized



STATISTICAL TABLES PRESENTING RESULTS AT ZONE AND WEREDA LEVELS

Tables 5.1 – 5.29

TABLE 5.1- ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

Gambela Region

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	27067	8724.84		178765.6		
Grain Crops	25779	8337.75	100	145743.4	100	
Cereals	24925	7876.6	94.47	144048.8	98.84	
Teff	87	4.67	0.06	*	*	*
Barley	186	9.41	0.11	21.21	0.01	2.25
Wheat	*	*	*	-	-	-
Maize	21336	5110.06	61.29	109867.5	75.38	21.5
Sorghum	9906	2664.26	31.95	33217.91	22.79	12.47
Finger Millet	664	48.38	0.58	535.55	0.37	11.07
Oats / "Aja"	40	*	*	-	-	-
Rice	329	38.57	0.46	384.6	0.26	9.97
Pulses	3789	116.47	1.4	706.26	0.48	
Horse beans	89	*	*	*	*	*
Field peas	*	*	*	-	-	-
Haricot beans	3551	112.31	1.35	704.26	0.48	6.27
Chick – peas	*	*	*	-	-	-
Lentils	*	*	*	-	-	-
Vetch	*	*	*	-	-	-
Soya beans	*	0.09	-	-	-	-
Fenugreek	*	*	*	-	-	-
Gibto.	53	*	*	-	-	-
Oilseeds	2265	344.68	4.13	988.42	0.68	
Neug.	*	*	*	-	-	-
Linseed	*	*	*	-	-	-
Groundnuts	998	26.06	0.31	177.43	0.12	6.81
Sunflower	171	0.73	-	-	-	-
Sesame	1113	314.63	3.77	806.57	0.55	2.56
Rapeseed	84	*	*	*	*	*
Vegetables	4452	55.7	100	4254.51	100	
Lettuce	-	-	-	-	-	-
Head cabbage	*	*	*	*	*	*
Ethiopian cabbage	2563	21.95	39.41	2193.9	51.57	99.95
Tomatoes	675	7.97	14.31	1179.85	27.73	148.04
Green peppers	933	4.85	8.71	481.53	11.32	99.28
Red peppers	941	20.06	36.01	301.05	7.08	15.01
Swiss chard	*	*	*	-	-	-
Root Crops	8849	331.4	100	28767.7	100	
Beetroot	*	*	*	*	*	*
Carrot	*	*	*	-	-	-
Onion	260	*	*	*	*	*
Potatoes	218	*	*	*	*	*
Garlic	438	0.67	0.2	98.19	0.34	146.55
Taro / "Godere"	6555	220.7	66.6	17655.85	61.37	80
Sweet po	3177	108.2	32.65	10819.93	37.61	100

TABLE 5.1.1. - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

Gambela Zone 1

Crop	Number of Holders	Area Hectares	%	Production Quintals	%	Yield QT / HA
TOTAL	10349	1968.95		36958.03		
Grain Crops	10123	1903.55	100	30595.62	100	
Cereals	9753	1845.61	96.96	30282.28	98.98	
Teff	7	0.69	0.04	-	-	-
Barley	*	*	*	-	-	-
Wheat	-	-	-	-	-	-
Maize	9303	1715.58	90.13	28424.92	92.91	16.57
Sorghum	779	127.08	6.68	1857.37	6.07	14.62
Finger Millet	-	-	-	-	-	-
Oats / "Aja"	12	*	*	-	-	-
Rice	*	*	*	-	-	-
Pulses	1292	46.1	2.42	220.45	0.72	
Horse beans	-	-	-	-	-	-
Field peas	-	-	-	-	-	-
Haricot beans	1285	45.88	2.41	220.45	0.72	4.8
Chick – peas	*	*	*	-	-	-
Lentils	-	-	-	-	-	-
Vetch	3	0.01	-	-	-	-
Soya beans	*	*	*	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	*	*	*	-	-	-
Oilseeds	255	11.84	0.62	92.89	0.3	
Neug	-	-	-	-	-	-
Linseed	*	*	*	-	-	-
Groundnuts	130	3.61	0.19	37.15	0.12	10.29
Safflower	*	*	*	-	-	-
Sesame	109	*	*	*	*	*
Rapeseed	-	-	-	-	-	-
Vegetables	213	*	*	*	*	
Lettuce	-	-	*	-	*	-
Head cabbage	-	-	*	-	*	-
Ethiopian cabbage	41	0.34	*	34.11	*	100.32
Tomatoes	132	*	*	*	*	*
Green peppers	63	*	*	*	*	*
Red peppers	*	*	*	-	*	-
Swiss chard	-	-	*	-	*	-
Root Crops	1638	61.21	100	5767.47	100	
Beetroot	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onion	-	-	-	-	-	-
Potatoes	48	0.08	0.13	-	-	-
Garlic	-	-	-	-	-	-
Taro / "Godere"	931	17.27	28.21	1381.99	23.96	80.02
Sweet potatoes	772	43.85	71.64	4385.48	76.04	100.01

TABLE 5.1.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

Gambela Zone 2

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	16718	6755.89		141807.6		
Grain Crops	15656	6434.2	100	115147.8	100	
Cereals	15173	6030.99	93.73	113766.5	98.8	
Teff	80	*	*	*	*	*
Barley	175	8.02	0.12	21.21	0.02	2.64
Wheat	*	*	*	-	-	-
Maize	12033	3394.48	52.76	81442.56	70.73	23.99
Sorghum	9127	2537.18	39.43	31360.54	27.24	12.36
Finger Millet	664	48.38	0.75	535.55	0.47	11.07
Oats / "Aja"	*	*	*	-	-	-
Rice	321	38.4	0.6	384.6	0.33	10.02
Pulses	2497	70.37	1.09	*	*	
Horse beans	89	*	*	*	*	*
Field peas	*	*	*	-	-	-
Haricot beans	2266	66.43	1.03	*	*	*
Chick – peas	*	*	*	-	-	-
Lentils	*	*	*	-	-	-
Vetch	*	*	*	-	-	-
Soya beans	*	*	*	-	-	-
Fenugreek	*	*	*	-	-	-
Gibto	*	*	*	-	-	-
Oilseeds	2009	332.84	5.17	895.53	0.78	
Neug	*	*	*	-	-	-
Linseed	*	*	*	-	-	-
Groundnuts	868	22.45	0.35	140.28	0.12	6.25
Safflower	156	0.68	0.01	-	-	-
Sesame	1004	308.1	4.79	750.83	0.65	2.44
Rapeseed	84	*	*	*	*	*
Vegetables	4239	51.5	100	3659.57	100	
Lettuce	-	-	-	-	-	-
Head cabbage	*	*	*	*	*	*
Ethiopian cabbage	2522	21.61	41.96	2159.8	59.02	99.94
Tomatoes	543	4.42	8.58	*	*	*
Green peppers	869	4.56	8.85	453.22	12.38	99.39
Red peppers	938	20.04	38.91	301.05	8.23	15.02
Swiss chard	*	*	*	-	-	-
Root Crops	7210	270.18	100	23000.23	100	
Beetroot	*	*	*	*	*	*
Carrot	*	*	*	-	-	-
Onion	260	*	*	*	*	*
Potatoes	171	*	*	*	*	*
Garlic	438	0.67	0.25	98.19	0.43	146.55
Taro / "Godere"	5624	203.42	75.29	16273.85	70.76	80
Sweet potatoes	2405	64.34	23.81	6434.45	27.98	100.01

TABLE 5.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARYCROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

TEMPORARY CROPS

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Gambela Killil. .	27067	8724.84	178765.6
Zone 1.	10349	1968.95	36958.03
Jikawo.	4896	974.7	18181.15
Itang	3453	652.35	12700.12
Gambella. . . .	2000	341.9	6076.77
Zone 2.	16718	6755.89	141807.6
Abobo	3510	2011.37	46407.81
Jor	985	489.11	7892.13
Jog	2130	1073.81	29648.13
Godare.	10092	3181.61	57859.55

TABLE 5.2.1- ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

GRAINS

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Gambela Killil. .	25779	8337.75	145743.4
Zone 1.	10123	1903.55	30595.62
Jikawo.	4859	936.56	14369.87
Itang	3415	639.66	11664.23
Gambella. . . .	1849	327.33	4561.52
Zone 2.	15656	6434.2	115147.8
Abobo	3406	1959.7	41387.71
Jor	982	482.42	7355.82
Jog	2115	1066.37	28977.93
Godare.	9153	2925.7	37426.35

TABLE 5.2.1.1- ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARYCROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

CEREALS

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Gambela Killil. .	24925	7876.6	144048.8
Zone 1.	9753	1845.61	30282.28
Jikawo.	4775	923.17	14352.61
Itang	3264	619.18	11489.16
Gambella. . . .	1713	303.26	4440.51
Zone 2.	15173	6030.99	113766.5
Abobo	3203	1635.08	40555.14
Jor	982	482	7355.76
Jog	2020	1059.44	28935.25
Godare.	8968	2854.47	36920.33

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

TEFF

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	87	4.67	*	*
Zone 1.	7	0.69	-	-
Jikawo.	-	-	-	-
Itang	4	0.69	-	-
Gambella. . . .	*	*	-	-
Zone 2.	80	*	*	*
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	80	*	*	*

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

BARLEY

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	186	9.41	21.21	2.25
Zone 1.	*	*	-	-
Jikawo.	*	*	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	175	8.02	21.21	2.64
Abobo	*	*	*	*
Jor	*	*	*	*
Jog	*	*	*	*
Godare.	97	3.61	*	*

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

WHEAT

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	-	-

TABLE D - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

MAIZE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	21336	5110.06	109867.5	21.5
Zone 1.	9303	1715.58	28424.92	16.57
Jikawo.	4770	919.4	14337.63	15.59
Itang	3223	603.17	11189.42	18.55
Gambella. . . .	1309	193.02	2897.86	15.01
Zone 2.	12033	3394.48	81442.56	23.99
Abobo	3071	1485.89	39005.54	26.25
Jor	635	107.63	2382.97	22.14
Jog	1777	842.03	26783.9	31.81
Godare.	6550	958.93	13270.16	13.84

TABLE E - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

SORGHUM

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	9906	2664.26	33217.91	12.47
Zone 1.	779	127.08	1857.37	14.62
Jikawo.	*	*	*	*
Itang	105	15.25	299.74	19.66
Gambella. . . .	652	109.45	1542.65	14.09
Zone 2.	9127	2537.18	31360.54	12.36
Abobo	623	100.34	1105.64	11.02
Jor	796	374.24	4972.52	13.29
Jog	623	202.11	2007.24	9.93
Godare.	7085	1860.49	23275.14	12.51

TABLE F- ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

FINGER MILLET

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	664	48.38	535.55	11.07
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	664	48.38	535.55	11.07
Abobo	354	21.31	194.49	9.13
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	310	27.07	341.06	12.6

TABLE G - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

OATS / 'AJA'

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	40	*	-	-
Zone 1.	12	*	-	-
Jikawo.	-	-	-	-
Itang	3	0.08	-	-
Gambella. . . .	*	*	-	-
Zone 2.	*	*	-	-
Abobo	*	*	-	-
Jor	-	-	-	-
Jog	*	*	-	-
Godare.	*	*	-	-

TABLE H - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

RICE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	329	38.57	384.6	9.97
Zone 1.	*	*	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	*	*	-	-
Zone 2.	321	38.4	384.6	10.02
Abobo	140	24.97	244.35	9.79
Jor	-	-	-	-
Jog	181	13.43	140.25	10.44
Godare.	-	-	-	-

TABLE 5.2.1.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

PULSES

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Gambela Killil. .	3789	116.47	706.26
Zone 1.	1292	46.1	220.45
Jikawo.	287	13.39	17.26
Itang	554	18.88	148.21
Gambella. . . .	451	13.83	54.98
Zone 2.	2497	70.37	*
Abobo	444	5.67	8.46
Jor	*	*	-
Jog	116	1.56	7.52
Godare.	1927	62.73	*

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

HORSE BEANS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	89	*	*	*
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	89	*	*	*
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	89	*	*	*

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

FIELD PEAS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. ,	*	*	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	*	*	-	-
Jor	*	*	-	-
Jog	-	-	-	-
Godare.	*	*	-	-

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

HARICOT BEANS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	3551	112.31	704.26	6.27
Zone 1.	1285	45.88	220.45	4.8
Jikawo.	287	13.38	17.26	1.29
Itang	547	18.68	148.21	7.93
Gambella. . . .	451	13.82	54.98	3.98
Zone 2.	2266	66.43	*	*
Abobo	412	5.56	8.46	1.52
Jor	-	-	-	-
Jog	116	1.55	7.52	4.85
Godare.	1737	59.31	*	*

TABLE D - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

CHICK-PEAS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	-	-
Zone 1.	*	*	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	*	*	-	-
Zone 2.	*	*	-	-
Abobo	*	*	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	-	-	-	-

TABLE E - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

LENTILS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	-	-

TABLE F - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

VETCH

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	-	-
Zone 1.	3	0.01	-	-
Jikawo.	-	-	-	-
Itang	3	0.01	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	-	-

TABLE G - ESTIMATE OF HOLDERS, AREA, PRODUCTION ANDYIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

SOYA BEANS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	0.09	-	-
Zone 1.	*	*	-	-
Jikawo.	*	*	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	*	*	-	-
Jor	-	-	-	-
Jog	*	*	-	-
Godare.	*	*	-	-

TABLE H- ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

FENUGREEK

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	-	-

TABLE I- ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

GIBTO

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	53	*	-	-
Zone 1.	*	*	-	-
Jikawo.	-	-	-	-
Itang	*	*	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	*	*	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	-	-

TABLE 5.2.1.3 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

OILSEEDS

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Gambela Killil. .	2265	344.68	988.42
Zone 1.	255	11.84	92.89
Jikawo.	-	-	-
Itang	64	1.6	26.86
Gambella. . . .	191	10.24	66.03
Zone 2.	2009	332.84	895.53
Abobo	1295	318.95	824.12
Jor	*	*	*
Jog	285	5.37	35.15
Godare.	426	8.51	36.2

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

NEUG

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	-	-

TABLE B- ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

LINSEED

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	-	-
Zone 1.	*	*	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	*	*	-	-
Zone 2.	*	*	-	-
Abobo	*	*	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	-	-	-	-

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

GROUNDNUTS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	998	26.06	177.43	6.81
Zone 1.	130	3.61	37.15	10.29
Jikawo.	-	-	-	-
Itang	39	1.3	24.65	18.96
Gambella. . . .	92	*	*	*
Zone 2.	868	22.45	140.28	6.25
Abobo	550	*	112.8	*
Jor	*	*	*	*
Jog	279	4.61	26.4	5.73
Godare.	*	*	*	*

TABLE D - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

SAFFLOWER

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	171	0.73	-	-
Zone 1.	*	*	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	*	*	-	-
Zone 2.	156	0.68	-	-
Abobo	*	*	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	127	0.47	-	-

TABLE E - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

SESAME

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	1113	314.63	806.57	2.56
Zone 1.	109	*	*	*
Jikawo.	-	-	-	-
Itang	26	0.3	2.21	7.37
Gambella. . . .	83	*	*	*
Zone 2.	1004	308.1	750.83	2.44
Abobo	774	300.45	711.3	2.37
Jor	-	-	-	-
Jog	*	*	*	*
Godare.	220	7.01	31.67	4.52

TABLE F - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

RAPESEED

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	84	*	*	*
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	84	*	*	*
Abobo	*	*	*	*
Jor	-	-	-	-
Jog	*	*	*	*
Godare.	72	*	*	*

TABLE 5.2.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

VEGETABLES

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Gambela Killil. .	4452	55.7	4254.51
Zone 1.	213	*	*
Jikawo.	-	-	-
Itang	26	0.18	20.34
Gambella. . . .	188	*	*
Zone 2.	4239	51.5	3659.57
Abobo	702	11.14	1044.5
Jor	-	-	-
Jog	74	*	*
Godare.	3462	39.83	2542.51

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

HEAD CABBAGE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	*	*
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	*	*
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	*	*

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

ETHIOPIAN CABBAGE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	2563	21.95	2193.9	99.95
Zone 1.	41	0.34	34.11	100.32
Jikawo.	-	-	-	-
Itang	22	0.14	14	100
Gambella. . . .	*	*	*	*
Zone 2.	2522	21.61	2159.8	99.94
Abobo	69	*	*	*
Jor	-	-	-	-
Jog	*	*	*	*
Godare.	2439	19.29	1927.47	99.92

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

TOMATOES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	675	7.97	1179.85	148.04
Zone 1.	132	*	*	*
Jikawo.	-	-	-	-
Itang	*	*	*	*
Gambella. . . .	125	*	*	*
Zone 2.	543	4.42	*	*
Abobo	398	*	*	*
Jor	-	-	-	-
Jog	68	*	*	*
Godare.	*	*	*	*

TABLE D- ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

GREEN PEPPERS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	933	4.85	481.53	99.28
Zone 1.	63	*	*	*
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	63	*	*	*
Zone 2.	869	4.56	453.22	99.39
Abobo	285	2.29	229.24	100.1
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	584	2.27	223.98	98.67

TABLE E - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

RED PEPPERS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	941	20.06	301.05	15.01
Zone 1.	*	*	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	*	*	-	-
Zone 2.	938	20.04	301.05	15.02
Abobo	179	*	37.59	*
Jor	-	-	-	-
Jog	*	*	*	*
Godare.	752	17.21	263.3	15.3

TABLE 5.2.3 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

ROOT CROPS

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Gambela Killil. .	8849	331.4	28767.7
Zone 1.	1638	61.21	5767.47
Jikawo.	508	38.14	3811.27
Itang	593	12.51	1015.55
Gambella. . . .	538	10.56	940.65
Zone 2.	7210	270.18	23000.23
Abobo	987	40.52	3975.59
Jor	346	6.69	536.31
Jog	281	6.9	597.65
Godare.	5596	216.07	17890.68

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

BEETROOT

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	*	*
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	*	*
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	*	*

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

CARROT

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	-	-

TABLE C- ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

ONION

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	260	*	*	*
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	260	*	*	*
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	260	*	*	*

TABLE D - ESTIMATE OF HOLDERS, AREA, PRODUCTION ANDYIELDOFTEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

POTATOES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	218	*	*	*
Zone 1.	48	0.08	-	-
Jikawo.	*	*	-	-
Itang	27	0.06	-	-
Gambella. . . .	-	-	-	-
Zone 2.	171	*	*	*
Abobo	*	*	*	*
Jor	-	-	-	-
Jog	*	*	*	*
Godare.	114	*	*	*

TABLE E - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

GARLIC

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	438	0.67	98.19	146.55
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	438	0.67	98.19	146.55
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	438	0.67	98.19	146.55

TABLE F - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

TARO / 'GODERE'

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	6555	220.7	17655.85	80
Zone 1.	931	17.27	1381.99	80.02
Jikawo.	*	*	*	*
Itang	530	11.48	918.16	79.98
Gambella. . . .	392	5.76	461.08	80.05
Zone 2.	5624	203.42	16273.85	80
Abobo	227	*	*	*
Jor	339	6.61	528.98	80.03
Jog	106	4.64	370.95	79.95
Godare.	4952	188.24	15059.33	80

TABLE G - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

SWEET POTATOES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	3177	108.2	10819.93	100
Zone 1.	772	43.85	4385.48	100.01
Jikawo.	490	38.09	3808.52	99.99
Itang	73	0.97	97.39	100.4
Gambella. . . .	210	*	*	*
Zone 2.	2405	64.34	6434.45	100.01
Abobo	815	36.23	3622.9	100
Jor	*	*	*	*
Jog	181	2.21	221.47	100.21
Godare.	1397	25.83	2582.76	99.99

TABLE 5.3 ESTIMATES OF HOLDERS, AREA PRODUCTION AND YIEDL OF TEMPORARY CROP FOR PRIVATE PEASANT HOLDERS FOR

BELG SEASON 2001/02 (1994 E.C.)

Gambela Region

Crop	Holders	Area Hectares	%	Quintals	%	Production Yield QT/HA
TOTAL	14474	2937.56		16404.93		
Grain Crop	14423	2911.92	100	14882.87	100	
Cereals	14378	2782.57	95.56	14505.72	97.47	
Teff	*	*	*	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	14371	2772.25	95.2	14499.5	97.42	5.23
Sorghum	*	*	*	*	*	*
Finger Millet	*	*	*	*	*	*
Oats/'Aja'	*	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	2848	108.02	3.71	*	*	
Horse beans	-	-	-	-	-	-
Field peas	-	-	-	-	-	-
Haricot beans	2836	108	3.71	*	*	*
Chick-peas	-	-	-	-	-	-
Lentils	*	*	*	-	-	-
Vetch	-	-	-	-	-	-
Soya bean	.....	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	97	21.33	0.73	*	*	
Neug	-	-	-	-	-	-
Linseed	*	*	*	-	-	-
Groundnut	.....	-	-	-	-	-
Sunflower	*	*	*	-	-	-
Sesame	62	20.6	0.71	*	*	*
Rapeseed	*	-	-	-	-	-
Vegetables	1006	9.83	100	*	*	
Lettuce	-	-	-	-	*	-
Head Cabbage	*	*	*	-	*	-
Ethiopian	925	9.18	93.39	*	*	*
Tomatoes	*	*	*	*	*	*
Green pepper	*	*	*	*	*	*
Red pepper	-	-	-	-	*	-
Swiss chan	-	-	-	-	*	-
Root crops	679	15.81	100	*	*	
Beetroot	*	*	*	-	*	-
Carrot	-	-	-	-	*	-
Onion	-	-	-	-	*	-
Potatoes	82	*	*	*	*	*
Garlic	*	*	*	-	*	-
Taro/Godere	.....	511	11	69.58	*	*
Sweet potatoes	92	3.01	19.04	*	*	*

TABLE 5.3.1 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BELG SEASON

RURAL HOLDINGS

Gambela Zone 1

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	2864	562.61		*		
Grain Crops	2864	561.82	100	*	*	
Cereals	2860	560.48	99.76	*	*	
Teff	-	-	-	-	*	-
Barley	-	-	-	-	*	-
Wheat	-	-	-	-	*	-
Maize	2860	559.64	99.61	*	*	*
Sorghum	*	*	*	-	*	-
Finger Millet	-	-	-	-	*	-
Oats / 'Aja'	-	-	-	-	*	-
Rice	-	-	-	-	*	-
Pulses	*	*	*	*	*	
Horse beans	-	-	-	-	*	-
Field peas	-	-	-	-	*	-
Haricot beans	*	*	*	*	*	*
Chick – peas	-	-	-	-	*	-
Lentils	-	-	-	-	*	-
Vetch	-	-	-	-	*	-
Soya beans	-	-	-	-	*	-
Fenugreek	-	-	-	-	*	-
Gibto	-	-	-	-	*	-
Oilseeds	*	*	*	-	*	
Neug	-	-	-	-	*	-
Linseed	*	*	*	-	*	-
Groundnuts	-	-	-	-	*	-
Safflower	-	-	-	-	*	-
Sesame	-	-	-	-	*	-
Rapeseed	-	-	-	-	*	-
Vegetables	*	*	*	*	*	
Lettuce	-	-	*	-	*	-
Head cabbage	-	-	*	-	*	-
Ethiopian cabbage	*	*	*	-	*	-
Tomatoes	-	-	*	-	*	-
Green peppers	*	*	*	*	*	*
Red peppers	-	-	*	-	*	-
Swiss chard	-	-	*	-	*	-
Root Crops	23	*	*	-	-	
Beetroot	-	-	*	-	-	-
Carrot	-	-	*	-	-	-
Onion	-	-	*	-	-	-
Potatoes	-	-	*	-	-	-
Garlic	-	-	*	-	-	-
Taro / 'Godere'	13	0.16	*	-	-	-
Sweet potatoes	*	*	*	-	-	-

TABLE 5.3.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BELG SEASON

RURAL HOLDINGS

Gambela Zone 2

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	11610	2374.95		16042.85		
Grain Crops	11560	2350.1	100	14521.44	100	
Cereals	11518	2222.09	94.55	14144.3	97.4	
Teff	*	*	*	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	11511	2212.61	94.15	14138.09	97.3 6	6.39
Sorghum	*	*	*	*	*	*
Finger Millet	*	*	*	*	*	*
Oats / 'Aja'	*	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	2810	107.37	4.57	*	*	
Horse beans	-	-	-	-	-	-
Field peas	-	-	-	-	-	-
Haricot beans	2799	107.35	4.57	*	*	*
Chick – peas	-	-	-	-	-	-
Lentils	*	*	*	-	-	-
Vetch	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	93	20.64	0.88	*	*	
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-
Safflower	*	*	*	-	-	-
Sesame	62	20.6	0.88	*	*	*
Rapeseed	*	-	-	-	-	-
Vegetables	989	9.52	100	*	*	
Lettuce	-	-	-	-	*	-
Head cabbage	*	*	*	-	*	-
Ethiopian cabbage	921	9.14	96.01	*	*	*
Tomatoes	*	*	*	*	*	*
Green peppers	*	*	*	*	*	*
Red peppers	-	-	-	-	*	-
Swiss chard	-	-	-	-	*	-
Root Crops	656	15.33	100	*	*	
Beetroot	*	*	*	-	*	-
Carrot	-	-	-	-	*	-
Onion	-	-	-	-	*	-
Potatoes	82	*	*	*	*	*
Garlic	*	*	*	-	*	-
Taro / 'Godere'	498	10.85	70.78	*	*	*
Sweet potatoes	82	2.69	17.55	*	*	*

TABLE 5.4 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BELG SEASON

RURAL HOLDINGS

TEMPORARY CROPS

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Gambela Killil. .	14474	2937.56	16404.93
Zone 1.	2864	562.61	-
Jikawo.	-	-	-
Itang	1268	270.11	-
Gambella. . . .	1596	292.5	-
Zone 2.	11610	2374.95	16042.85
Abobo	635	57.24	99.61
Jor	478	54.06	-
Jog	1622	272.19	20.43
Godare.	8874	1991.46	15922.8

TABLE 5.4.1 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BELG SEASON

RURAL HOLDINGS

GRAINS

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Gambela Killil. .	14423	2911.92	14882.87
Zone 1.	2864	561.82	-
Jikawo.	-	-	-
Itang	1268	269.95	-
Gambella. . . .	1596	291.87	-
Zone 2.	11560	2350.1	14521.44
Abobo	635	57.1	94.34
Jor	478	53.64	-
Jog	1622	269.63	20.43
Godare.	8824	1969.73	14406.66

TABLE 5.4.1.1 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BELG SEASON

RURAL HOLDINGS

CEREALS

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Gambela Killil. .	14378	2782.57	14505.72
Zone 1.	2860	560.48	-
Jikawo.	-	-	-
Itang	1265	269.26	-
Gambella. . . .	1596	291.21	-
Zone 2.	11518	2222.09	14144.3
Abobo	594	36.5	94.33
Jor	478	53.64	-
Jog	1622	269.36	20.43
Godare.	8824	1862.59	14029.53

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BELG SEASON

RURAL HOLDINGS

MAIZE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	14371	2772.25	14499.5	5.23
Zone 1.	2860	559.64	-	-
Jikawo.	-	-	-	-
Itang	1265	269.26	-	-
Gambella. . . .	1596	290.38	-	-
Zone 2.	11511	2212.61	14138.09	6.39
Abobo	587	34.79	91.43	2.63
Jor	478	53.64	-	-
Jog	1622	268.68	19.16	0.07
Godare.	8824	1855.49	14027.49	7.56

TABLE 5.4.1.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BELG SEASON

RURAL HOLDINGS

PULSES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	2848	108.02	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	2810	107.37	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	2793	107.09	-	-

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BELG SEASON

RURAL HOLDINGS

HARICOT BEANS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	2836	108	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	2799	107.35	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	2782	107.07	-	-

TABLE 5.4.1.3 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BELG SEASON

RURAL HOLDINGS

OILSEEDS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	97	21.33	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	93	20.64	-	-
Abobo	62	20.6	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	-	-	-	-

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BELG SEASON

RURAL HOLDINGS

SESAME

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	62	20.6	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	62	20.6	-	-
Abobo	62	20.6	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	-	-	-	-

TABLE 5.4.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BELG SEASON

RURAL HOLDINGS

VEGETABLES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	1006	9.83	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	989	9.52	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	968	9.5	-	-

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BELG SEASON

RURAL HOLDINGS

ETHIOPIAN CABBAGE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	2563	0.22	21.94	99.73
Zone 1.	41	*	0.34	*
Jikawo.	-	-	-	-
Itang	22	*	0.14	*
Gambella. . . .	*	*	*	*
Zone 2.	2522	0.22	21.6	98.18
Abobo	69	*	*	*
Jor	-	-	-	-
Jog	*	*	*	*
Godare.	2439	0.19	19.27	101.42

TABLE 5.4.3 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BELG SEASON

RURAL HOLDINGS

ROOT CROPS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	679	15.81	-	-
Zone 1.	23	-	-	-
Jikawo.	-	-	-	-
Itang	13	0.16	-	-
Gambella. . . .	-	-	-	-
Zone 2.	656	15.33	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	26	-	-	-
Godare.	566	12.23	-	-

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BELG SEASON

RURAL HOLDINGS

POTATOES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	82	-	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	82	-	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	82	-	-	-

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BELG SEASON

RURAL HOLDINGS

TARO/GODERE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	511	11	-	-
Zone 1.	13	0.16	-	-
Jikawo.	-	-	-	-
Itang	13	0.16	-	-
Gambella. . . .	-	-	-	-
Zone 2.	498	10.85	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	438	8.86	-	-

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BELG SEASON

RURAL HOLDINGS

SWEET POTATOES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	92	3.01	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	82	2.69	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	53	-	-	-

TABLE 5.5 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

GAMBELA Region

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	1361	405.46		5179.36		
Grain Crops	1351	400.61	100	5062.92	100	
Cereals	1351	377.21	94.16	4729.3	93.41	
Teff	-	-	-	-	-	-
Barley	1	0.06	0.02	0.16	-	2.67
Wheat	-	-	-	-	-	-
Maize	1208	259.63	64.81	3155.17	62.32	12.15
Sorghum	439	117.44	29.32	1482.56	29.28	12.62
Finger Millet	*	*	*	*	*	*
Oats / 'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	13	0.84	0.21	*	*	
Horse beans	-	-	-	-	-	-
Field peas	-	-	-	-	-	-
Haricot beans	13	0.84	0.21	*	*	*
Chick – peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	192	22.56	5.63	310.61	6.14	
Neug	-	-	-	-	-	-
Linseed	47	0.59	0.15	*	*	*
Groundnuts	155	17.37	4.34	294.31	5.81	16.94
Safflower	-	-	-	-	-	-
Sesame	49	4.6	1.15	10.7	0.21	2.33
Rapeseed	-	-	-	-	-	-
Vegetables	41	*	*	80.88	100	
Lettuce	-	-	*	-	-	-
Head cabbage	-	-	*	-	-	-
Ethiopian cabbage	4	0.04	*	*	*	*
Tomatoes	28	*	*	*	*	*
Green peppers	*	0.09	*	3.74	4.62	41.56
Red peppers	*	*	*	*	*	*
Swiss chard	-	-	*	-	-	-
Root Crops	40	1.98	100	35.56	100	
Beetroot	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onion	*	*	*	1.84	5.17	*
Potatoes	*	*	*	*	*	*
Garlic	-	-	-	-	-	-
Taro / 'Godere'	*	*	*	*	*	*
Sweet potatoes	*	*	*	*	*	*

TABLE 5.5.1 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

GAMBELA ZONE 1

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	939	221.73		3305.18		
Grain Crops	939	217.39	100	3207.31	100	
Cereals	939	194.82	89.62	2881.74	89.85	
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	913	174.54	80.29	2582.3	80.51	14.79
Sorghum	187	20.2	9.29	208.03	6.49	10.3
Finger Millet	*	*	*	*	*	*
Oats / 'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	13	0.84	0.39	*	*	
Horse beans	-	-	-	-	-	-
Field peas	-	-	-	-	-	-
Haricot beans	13	0.84	0.39	*	*	*
Chick – peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	182	21.72	9.99	302.56	9.43	
Neug	-	-	-	-	-	-
Linseed	47	0.59	0.27	*	*	*
Groundnuts	145	16.62	7.65	287.86	8.98	17.32
Safflower	-	-	-	-	-	-
Sesame	48	4.52	2.08	9.1	0.28	2.01
Rapeseed	-	-	-	-	-	-
Vegetables	33	*	*	*	*	
Lettuce	-	-	*	-	*	-
Head cabbage	-	-	*	-	*	-
Ethiopian cabbage	*	*	*	*	*	*
Tomatoes	27	*	*	*	*	*
Green peppers	*	*	*	*	*	*
Red peppers	-	-	*	-	*	-
Swiss chard	-	-	*	-	*	-
Root Crops	25	1.79	100	*	*	
Beetroot	-	-	-	-	*	-
Carrot	-	-	-	-	*	-
Onion	*	*	*	*	*	*
Potatoes	*	*	*	*	*	*
Garlic	-	-	-	-	*	-
Taro / 'Godere'	-	-	-	-	*	-
Sweet potatoes	*	*	*	*	*	*

TABLE 5.5.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

GAMBELA ZONE 2

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	422	183.72		1874.17		
Grain Crops	412	183.22	100	1855.61	100	
Cereals	412	182.39	99.55	1847.56	99.57	
Teff	-	-	-	-	-	-
Barley	1	0.06	0.03	0.16	-	2.67
Wheat	-	-	-	-	-	-
Maize	295	85.09	46.44	572.87	30.87	6.73
Sorghum	251	97.24	53.07	1274.53	68.69	13.11
Finger Millet	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	-	-	-	-	-	
Horse beans	-	-	-	-	-	-
Field peas	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-
Chick – peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	*	*	*	*	*	
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Groundnuts	*	*	*	*	*	*
Safflower	-	-	-	-	-	-
Sesame	1	0.08	0.04	1.6	0.09	20
Rapeseed	-	-	-	-	-	-
Vegetables	*	*	*	8.74	100	
Lettuce	-	-	*	-	-	-
Head cabbage	-	-	*	-	-	-
Ethiopian cabbage	2	0.03	*	1.03	11.78	34.33
Tomatoes	1	-	*	0.75	8.58	-
Green peppers	2	0.05	*	2.95	33.75	59
Red peppers	*	*	*	*	*	*
Swiss chard	-	-	*	-	-	-
Root Crops	15	0.19	100	9.83	100	
Beetroot	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onion	1	0.01	5.26	0.9	9.16	90
Potatoes	1	0.04	21.05	1	10.17	25
Garlic	-	-	-	-	-	-
Taro / 'Godere'	*	*	*	*	*	*
Sweet potatoes	-	-	-	-	-	-

TABLE 5.6 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

TEMPORARY CROPS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	1361	405.46	5179.36	12.77
Zone 1.	939	221.73	3305.18	14.91
Itang	410	106.97	186.11	1.74
Gambella. . . .	529	114.76	3119.08	27.18
Zone 2.	422	183.72	1874.17	10.2
Jog	190	34.85	411.04	11.79
Godare.	227	148.51	1446.32	9.74
Dima.	5	0.36	16.81	46.69

TABLE 5.6.1- ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

GRAINS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	1351	400.61	5062.92	12.64
Zone 1.	939	217.39	3207.31	14.75
Itang	410	106.97	186.11	1.74
Gambella. . . .	529	110.41	3021.21	27.36
Zone 2.	412	183.22	1855.61	10.13
Jog	190	34.75	408.29	11.75
Godare.	218	148.25	1437.14	9.69
Dima.	4	0.22	10.18	46.27

TABLE 5.6.1.1 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

CEREALS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	1351	377.21	4729.3	12.54
Zone 1.	939	194.82	2881.74	14.79
Itang	410	106.97	186.11	1.74
Gambella. . . .	529	87.85	2695.63	30.68
Zone 2.	412	182.39	1847.56	10.13
Jog	190	34	401.84	11.82
Godare.	218	148.25	1437.14	9.69
Dima.	4	0.14	8.58	61.29

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

BARLEY

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	1	0.06	0.16	2.67
Zone 1.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	1	0.06	0.16	2.67
Jog	-	-	-	-
Godare.	-	-	-	-
Dima.	1	0.06	0.16	2.67

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

MAIZE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	1208	259.63	3155.17	12.15
Zone 1.	913	174.54	2582.3	14.79
Itang	408	103	162.08	1.57
Gambella. . . .	505	71.54	2420.23	33.83
Zone 2.	295	85.09	572.87	6.73
Jog	162	23.29	83.28	3.58
Godare.	130	61.75	484.56	7.85
Dima.	3	0.05	5.02	100.4

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

SORGHUM

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	439	117.44	1482.56	12.62
Zone 1.	187	20.2	208.03	10.3
Itang	61	3.97	*	*
Gambella. . . .	126	16.22	184	11.34
Zone 2.	251	97.24	1274.53	13.11
Jog	79	10.7	318.56	29.77
Godare.	170	86.5	952.57	11.01
Dima.	2	0.04	3.4	85

TABLE D - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

FINGFR MILLET

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	*	*
Zone 1.	*	*	*	*
Itang	-	-	-	-
Gambella. . . .	*	*	*	*
Zone 2.	-	-	-	-
Jog	-	-	-	-
Godare.	-	-	-	-
Dima.	-	-	-	-

TABLE 5.6.1.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

PULSES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	13	0.84	*	*
Zone 1.	13	0.84	*	*
Itang	-	-	-	-
Gambella. . . .	13	0.84	*	*
Zone 2.	-	-	-	-
Jog	-	-	-	-
Godare.	-	-	-	-
Dima.	-	-	-	-

TABLE 5.6.1.3 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

OILSEEDS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	192	22.56	310.61	13.77
Zone 1.	182	21.72	302.56	13.93
Itang	-	-	-	-
Gambella. . . .	182	21.72	302.56	13.93
Zone 2.	*	*	*	*
Jog	*	*	*	*
Godare.	-	-	-	-
Dima.	1	0.08	1.6	20

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

LINSEED

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	47	0.59	*	*
Zone 1.	47	0.59	*	*
Itang	-	-	-	-
Gambella. . . .	47	0.59	*	*
Zone 2.	-	-	-	-
Jog	-	-	-	-
Godare.	-	-	-	-
Dima.	-	-	-	-

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

GROUNDNUTS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	155	17.37	294.31	16.94
Zone 1.	145	16.62	287.86	17.32
Itang	-	-	-	-
Gambella. . . .	145	16.62	287.86	17.32
Zone 2.	*	*	*	*
Jog	*	*	*	*
Godare.	-	-	-	-
Dima.	-	-	-	-

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

SESAME

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	49	4.6	10.7	2.33
Zone 1.	48	4.52	9.1	2.01
Itang	-	-	-	-
Gambella. . . .	48	4.52	9.1	2.01
Zone 2.	1	0.08	1.6	20
Jog	-	-	-	-
Godare.	-	-	-	-
Dima.	1	0.08	1.6	20

TABLE 5.6.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

VEGETABLES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	41	*	80.88	*
Zone 1.	33	*	*	*
Itang	-	-	-	-
Gambella. . . .	33	*	*	*
Zone 2.	*	*	8.74	*
Jog	-	-	-	-
Godare.	*	*	*	*
Dima.	3	0.08	4.73	59.13

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

KALE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	4	0.04	*	*
Zone 1.	*	*	*	*
Itang	-	-	-	-
Gambella. . . .	*	*	*	*
Zone 2.	2	0.03	1.03	34.33
Jog	-	-	-	-
Godare.	-	-	-	-
Dima.	2	0.03	1.03	34.33

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

TOMATOES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	28	*	*	*
Zone 1.	27	*	*	*
Itang	-	-	-	-
Gambella. . . .	27	*	*	*
Zone 2.	1	-	0.75	-
Jog	-	-	-	-
Godare.	-	-	-	-
Dima.	1	-	0.75	-

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

RED PEPPERS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	*	*
Zone 1.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	*	*
Jog	-	-	-	-
Godare.	*	*	*	*
Dima.	-	-	-	-

TABLE D - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

GREEN PEPPERS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	3.74	*
Zone 1.	*	*	*	*
Itang	-	-	-	-
Gambella. . . .	*	*	*	*
Zone 2.	200	*	2.95	*
Jog	-	-	-	-
Godare.	-	-	-	-
Dima.	200	*	2.95	*

TABLE E - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

RED PEPPERS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	*	*
Zone 1.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	*	*
Jog	-	-	-	-
Godare.	*	*	*	*
Dima.	-	-	-	-

TABLE 5.6.3 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

ROOT CROPS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	40	1.98	35.56	17.96
Zone 1.	25	1.79	*	*
Itang	-	-	-	-
Gambella. . . .	25	1.79	*	*
Zone 2.	15	0.19	9.83	51.74
Jog	*	*	*	*
Godare.	*	*	*	*
Dima.	2	0.05	1.9	38

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

ONION

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	1.84	*
Zone 1.	*	*	*	*
Itang	-	-	-	-
Gambella. . . .	*	*	*	*
Zone 2.	1	0.01	0.9	90
Jog	-	-	-	-
Godare.	-	-	-	-
Dima.	1	0.01	0.9	90

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

POTATOES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	*	*
Zone 1.	*	*	*	*
Itang	-	-	-	-
Gambella. . . .	*	*	*	*
Zone 2.	1	0.04	1	25
Jog	-	-	-	-
Godare.	-	-	-	-
Dima.	1	0.04	1	25

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

GODERE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	*	*
Zone 1.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	*	*
Jog	*	*	*	*
Godare.	*	*	*	*
Dima.	-	-	-	-

TABLE D - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

URBAN HOLDINGS

SWEET POTATES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	*	*
Zone 1.	*	*	*	*
Itang	-	-	-	-
Gambella. . . .	*	*	*	*
Zone 2.	-	-	-	-
Jog	-	-	-	-
Godare.	-	-	-	-
Dima.	-	-	-	-

TABLE 5.7 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

Gambela Region

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	29550	12067.86		200349.9		
Grain Crops	28985	11650.27	100	165689.2	100	
Cereals	28468	11036.38	94.73	163283.8	98.55	
Teff	115	4.99	0.04	*	*	*
Barley	187	9.47	0.08	21.37	0.01	2.26
Wheat	*	*	*	-	-	-
Maize	27037	8141.95	69.89	127522.2	76.96	15.66
Sorghum	10367	2784.91	23.9	34704.64	20.95	12.46
Finger Millet	732	55.24	0.47	629	0.38	11.39
Oats / "Aja"	57	*	*	-	-	-
Rice	329	38.57	0.33	384.6	0.23	9.97
Pulses	5730	225.33	1.93	1106.42	0.67	
Horse beans	89	*	*	*	*	*
Field peas	*	*	*	-	-	-
Haricot beans	5494	221.15	1.9	1104.42	0.67	4.99
Chick – peas	*	*	*	-	-	-
Lentils	*	*	*	-	-	-
Vetch	*	*	*	-	-	-
Soya beans	*	0.09	-	-	-	-
Fenugreek	*	*	*	-	-	-
Gibto.	53	*	*	-	-	-
Oilseeds	2505	388.56	3.34	1299.04	0.78	
Neug.	*	*	*	-	-	-
Linseed	65	*	*	*	*	*
Groundnuts	1153	43.43	0.37	471.74	0.28	10.86
Safflower	183	0.77	-	-	-	-
Sesame	1174	339.83	2.92	817.28	0.49	2.4
Rapeseed	103	*	*	*	*	*
Vegetables	4843	68.39	100	5784.92	100	
Lettuce	-	-	-	-	-	-
Head cabbage	*	*	*	*	*	*
Ethiopian cabbage	3010	31.18	45.59	3650.88	63.11	117.09
Tomatoes	702	10.5	15.35	1243.99	21.5	118.48
Green peppers	983	5.54	8.1	486.81	8.42	87.87
Red peppers	947	20.28	29.65	305.06	5.27	15.04
Swiss chard	*	*	*	-	-	-
Root Crops	9040	349.19	100	28875.79	100	
Beetroot	*	*	*	*	*	*
Carrot	*	*	*	-	-	-
Onion	273	0.49	0.14	*	*	*
Potatoes	310	3.74	1.07	202.73	0.7	54.21
Garlic	493	0.79	0.23	98.19	0.34	124.29
Taro / "Godere"	6684	231.84	66.39	17696.71	61.29	76.33
Sweet potatoes	3240	112.01	32.08	10827.54	37.5	96.67

TABLE 5.7.1 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

Gambela Zone 1

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	11549	2753.29		40625.29		
Grain Crops	11406	2682.76	100	34164.36	100	
Cereals	11119	2600.91	96.95	33525.44	98.13	
Teff	7	0.69	0.03	-	-	-
Barley	*	*	*	-	-	-
Wheat	-	-	-	-	-	-
Maize	10926	2449.76	91.31	31368.63	91.82	12.8
Sorghum	966	148.12	5.52	2065.4	6.05	13.94
Finger Millet	*	*	*	*	*	*
Oats / "Aja"	12	*	*	-	-	-
Rice	*	*	*	-	-	-
Pulses	1315	47.59	1.77	243.48	0.71	
Horse beans	-	-	-	-	-	-
Field peas	-	-	-	-	-	-
Haricot beans	1308	47.37	1.77	243.48	0.71	5.14
Chick – peas	*	*	*	-	-	-
Lentils	-	-	-	-	-	-
Vetch	3	0.01	-	-	-	-
Soya beans	*	*	*	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	*	*	*	-	-	-
Oilseeds	441	34.25	1.28	395.45	1.16	
Neug	-	-	-	-	-	-
Linseed	56	*	*	*	*	*
Groundnuts	276	20.23	0.75	325.01	0.95	16.07
Safflower	*	*	*	-	-	-
Sesame	157	11.05	0.41	64.83	0.19	5.87
Rapeseed	-	-	-	-	-	-
Vegetables	246	7.06	100	667.73	100	
Lettuce	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-
Ethiopian cabbage	46	0.39	5.52	42.48	6.36	108.92
Tomatoes	159	6.06	85.84	*	*	*
Green peppers	77	*	*	29.75	4.46	*
Red peppers	*	*	*	-	-	-
Swiss chard	-	-	-	-	-	-
Root Crops	1669	63.48	100	5793.2	100	
Beetroot	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onion	*	*	*	*	*	*
Potatoes	56	*	*	*	*	*
Garlic	-	-	-	-	-	-
Taro / "Godere"	931	17.43	27.46	1381.99	23.86	79.29
Sweet potatoes	783	44.98	70.86	4392.59	75.82	97.66

TABLE 5.7.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

Gambela Zone 2

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	18001	9314.56		159724.6		
Grain Crops	17580	8967.51	100	131524.9	100	
Cereals	17348	8435.47	94.07	129758.3	98.66	
Teff	108	*	*	*	*	*
Barley	176	8.08	0.09	21.37	0.02	2.64
Wheat	*	*	*	-	-	-
Maize	16111	5692.18	63.48	96153.52	73.11	16.89
Sorghum	9401	2636.8	29.4	32639.25	24.82	12.38
Finger Millet	730	55.16	0.62	537.59	0.41	9.75
Oats / "Aja"	*	*	*	-	-	-
Rice	321	38.4	0.43	384.6	0.29	10.02
Pulses	4415	177.74	1.98	862.94	0.66	
Horse beans	89	*	*	*	*	*
Field peas	*	*	*	-	-	-
Haricot beans	4186	173.78	1.94	860.94	0.65	4.95
Chick – peas	*	*	*	-	-	-
Lentils	*	*	*	-	-	-
Vetch	*	*	*	-	-	-
Soya beans	*	*	*	-	-	-
Fenugreek	*	*	*	-	-	-
Gibto	*	*	*	-	-	-
Oilseeds	2064	354.3	3.95	903.59	0.69	
Neug	*	*	*	-	-	-
Linseed	*	*	*	-	-	-
Groundnuts	877	23.2	0.26	146.73	0.11	6.32
Safflower	169	0.72	-	-	-	-
Sesame	1017	328.78	3.67	752.44	0.57	2.29
Rapeseed	103	*	*	*	*	*
Vegetables	4597	61.34	100	5117.18	100	
Lettuce	-	-	-	-	-	-
Head cabbage	*	*	*	*	*	*
Ethiopian cabbage	2964	30.78	50.18	3608.4	70.52	117.23
Tomatoes	544	4.44	7.24	*	*	*
Green peppers	905	4.95	8.07	457.06	8.93	92.34
Red peppers	944	20.26	33.03	305.06	5.96	15.06
Swiss chard	*	*	*	-	-	-
Root Crops	7371	285.7	100	23082.59	100	
Beetroot	*	*	*	*	*	*
Carrot	*	*	*	-	-	-
Onion	261	*	*	*	*	*
Potatoes	254	2.85	1	185.05	0.8	64.93
Garlic	493	0.79	0.28	98.19	0.43	124.29
Taro / "Godere"	5753	214.41	75.05	16314.72	70.68	76.09
Sweet potatoes	2457	67.03	23.46	6434.95	27.88	96

TABLE 5.8 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

TEMPORARY CROPS

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Gambela Killil. .	29550	12067.86	200349.9
Zone 1.	11549	2753.29	40625.29
Jikawo.	4896	974.7	18181.15
Itang	3948	1029.43	12886.23
Gambella. . . .	2706	749.16	9557.93
Zone 2.	18001	9314.56	159724.6
Abobo	3510	2068.61	46507.42
Jor	1018	543.16	7892.14
Jog	2564	1380.85	30079.6
Godare.	10903	5321.58	75228.66
Dima.	5	0.36	16.81

TABLE 5.8.1- ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

GRAINS

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Gambela Killil. .	28985	11650.27	165689.2
Zone 1.	11406	2682.76	34164.36
Jikawo.	4859	936.56	14369.87
Itang	3935	1016.58	11850.34
Gambella. . . .	2611	729.61	7944.16
Zone 2.	17580	8967.51	131524.9
Abobo	3424	2016.8	41482.05
Jor	1015	536.06	7355.83
Jog	2549	1370.75	29406.65
Godare.	10589	5043.68	53270.16
Dima.	4	0.22	10.18

TABLE 5.8.1.1- ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

CEREALS

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Gambela Killil. .	28468	11036.38	163283.8
Zone 1.	11119	2600.91	33525.44
Jikawo.	4775	923.17	14352.61
Itang	3816	995.41	11675.27
Gambella. . . .	2528	682.33	7497.56
Zone 2.	17348	8435.47	129758.3
Abobo	3260	1671.58	40649.47
Jor	1015	535.64	7355.77
Jog	2520	1362.79	29357.52
Godare.	10549	4865.31	52386.99
Dima.	4	0.14	8.58

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS

ALL HOLDINGS

TEFF

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	115	4.99	*	*
Zone 1.	7	0.69	-	-
Jikawo.	-	-	-	-
Itang	4	0.69	-	-
Gambella. . . .	*	*	-	-
Zone 2.	108	*	*	*
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	108	*	*	*
Dima.	-	-	-	-

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

BARLEY

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	187	9.47	21.37	2.26
Zone 1.	*	*	-	-
Jikawo.	*	*	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	176	8.08	21.37	2.64
Abobo	*	*	*	*
Jor	*	*	*	*
Jog	*	*	*	*
Godare.	97	3.61	*	*
Dima.	1	0.06	0.16	2.67

TABLE C- ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

WHEAT

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	-	-
Dima.	-	-	-	-

TABLE D- ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

MAIZE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	27037	8141.95	127522.2	15.66
Zone 1.	10926	2449.76	31368.63	12.8
Jikawo.	4770	919.4	14337.63	15.59
Itang	3795	975.43	11351.5	11.64
Gambella. . . .	2362	554.94	5679.5	10.23
Zone 2.	16111	5692.18	96153.52	16.89
Abobo	3181	1520.69	39096.98	25.71
Jor	702	161.27	2382.98	14.78
Jog	2379	1134	26886.33	23.71
Godare.	9845	2876.17	27782.21	9.66
Dima.	3	0.05	5.02	100.4

TABLE E - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

SORGHUM

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	10367	2784.91	34704.64	12.46
Zone 1.	966	148.12	2065.4	13.94
Jikawo.	*	*	*	*
Itang	166	19.22	323.77	16.85
Gambella. . . .	778	126.51	1726.65	13.65
Zone 2.	9401	2636.8	32639.25	12.38
Abobo	637	102.04	1108.54	10.86
Jor	796	374.24	4972.52	13.29
Jog	710	213.48	2327.07	10.9
Godare.	7256	1946.99	24227.71	12.44
Dima.	2	0.04	3.4	85

TABLE F - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

FINGER MILLET

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	732	55.24	629	11.39
Zone 1.	*	*	*	*
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	*	*	*	*
Zone 2.	730	55.16	537.59	9.75
Abobo	354	21.31	194.49	9.13
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	376	33.85	343.1	10.14
Dima.	-	-	-	-

TABLE G - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

OATS / 'AJA'

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	57	*	-	-
Zone 1.	12	*	-	-
Jikawo.	-	-	-	-
Itang	3	0.08	-	-
Gambella. . . .	*	*	-	-
Zone 2.	*	*	-	-
Abobo	*	*	-	-
Jor	-	-	-	-
Jog	*	*	-	-
Godare.	*	*	-	-
Dima.	-	-	-	-

TABLE H - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

RICE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	329	38.57	384.6	9.97
Zone 1.	*	*	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	*	*	-	-
Zone 2.	321	38.4	384.6	10.02
Abobo	140	24.97	244.35	9.79
Jor	-	-	-	-
Jog	181	13.43	140.25	10.44
Godare.	-	-	-	-
Dima.	-	-	-	-

TABLE 5.8.1.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

PULSES

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Gambela Killil. .	5730	225.33	1106.42
Zone 1.	1315	47.59	243.48
Jikawo.	287	13.39	17.26
Itang	554	18.88	148.21
Gambella. . . .	474	15.33	78
Zone 2.	4415	177.74	862.94
Abobo	444	5.67	8.46
Jor	*	*	-
Jog	133	1.84	7.52
Godare.	3827	169.82	846.96
Dima.	-	-	-

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

HORSE BEANS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	89	*	*	*
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	89	*	*	*
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	89	*	*	*
Dima.	-	-	-	-

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

FIELD PEAS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	*	*	-	-
Jor	*	*	-	-
Jog	-	-	-	-
Godare.	*	*	-	-
Dima.	-	-	-	-

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

HARICOT BEANS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	5494	221.15	1104.42	4.99
Zone 1.	1308	47.37	243.48	5.14
Jikawo.	287	13.38	17.26	1.29
Itang	547	18.68	148.21	7.93
Gambella. . . .	474	15.31	78	5.09
Zone 2.	4186	173.78	860.94	4.95
Abobo	412	5.56	8.46	1.52
Jor	-	-	-	-
Jog	133	1.83	7.52	4.11
Godare.	3640	166.38	844.96	5.08
Dima.	-	-	-	-

TABLE D - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

CHICK-PEAS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	-	-
Zone 1.	*	*	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	*	*	-	-
Zone 2.	*	*	-	-
Abobo	*	*	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	-	-	-	-
Dima.	-	-	-	-

TABLE E - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

LENTILS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	-	-
Dima.	-	-	-	-

TABLE F - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

VETCH

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	-	-
Zone 1.	3	0.01	-	-
Jikawo.	-	-	-	-
Itang	3	0.01	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	-	-
Dima.	-	-	-	-

TABLE G - ESTIMATE OF HOLDERS, AREA, PRODUCTION ANDYIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

SOYA BEANS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	0.09	-	-
Zone 1.	*	*	-	-
Jikawo.	*	*	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	*	*	-	-
Jor	-	-	-	-
Jog	*	*	-	-
Godare.	*	*	-	-
Dima.	-	-	-	-

TABLE H - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

FENUGREEK

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	-	-
Dima.	-	-	-	-

TABLE I - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

GIBTO

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	53	*	-	-
Zone 1.	*	*	-	-
Jikawo.	-	-	-	-
Itang	*	*	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	*	*	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	-	-
Dima.	-	-	-	-

TABLE 5.8.1.3 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

OILSEEDS

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Gambela Killil. .	2505	388.56	1299.04
Zone 1.	441	34.25	395.45
Jikawo.	-	-	-
Itang	68	2.29	26.86
Gambella. . . .	373	31.96	368.59
Zone 2.	2064	354.3	903.59
Abobo	1307	339.54	824.12
Jor	*	*	*
Jog	295	6.12	41.6
Godare.	457	8.55	36.2
Dima.	1	0.08	1.6

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

NEUG

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	-	-
Dima.	-	-	-	-

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

LINSEED

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	65	*	*	*
Zone 1.	56	*	*	*
Jikawo.	-	-	-	-
Itang	*	*	-	-
Gambella. . . .	52	*	*	*
Zone 2.	*	*	-	-
Abobo	*	*	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	-	-	-	-
Dima.	-	-	-	-

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARYCROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

GROUNDNUTS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	1153	43.43	471.74	10.86
Zone 1.	276	20.23	325.01	16.07
Jikawo.	-	-	-	-
Itang	39	1.3	24.65	18.96
Gambella. . . .	237	18.93	300.37	15.87
Zone 2.	877	23.2	146.73	6.32
Abobo	550	*	112.8	*
Jor	*	*	*	*
Jog	288	5.36	32.85	6.13
Godare.	*	*	*	*
Dima.	-	-	-	-

TABLE D - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

SUNFLOWER

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	183	0.77	-	-
Zone 1.	*	*	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	*	*	-	-
Zone 2.	169	0.72	-	-
Abobo	*	*	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	140	0.51	-	-
Dima.	-	-	-	-

TABLE E - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

SESAME

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	1174	339.83	817.28	2.4
Zone 1.	157	11.05	64.83	5.87
Jikawo.	-	-	-	-
Itang	26	0.3	2.21	7.37
Gambella. . . .	131	10.75	62.62	5.83
Zone 2.	1017	328.78	752.44	2.29
Abobo	787	321.05	711.31	2.22
Jor	-	-	-	-
Jog	*	*	*	*
Godare.	220	7.01	31.67	4.52
Dima.	1	0.08	1.6	20

TABLE F - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

RAPESEED

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	103	*	*	*
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	103	*	*	*
Abobo	*	*	*	*
Jor	-	-	-	-
Jog	*	*	*	*
Godare.	91	*	*	*
Dima.	-	-	-	-

TABLE 5.8.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

VEGETABLES

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Gambela Killil. .	4843	68.39	5784.92
Zone 1.	246	7.06	667.73
Jikawo.	-	-	-
Itang	26	0.18	20.34
Gambella. . . .	220	6.88	*
Zone 2.	4597	61.34	5117.18
Abobo	706	11.16	1049.77
Jor	-	-	-
Jog	74	*	*
Godare.	3814	49.55	3990.13
Dima.	3	0.08	4.73

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

HEAD CABBAGE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	*	*
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	*	*
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	*	*
Dima.	*	*	*	*

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

ETHIOPIAN CABBAGE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	3010	31.18	3650.88	117.09
Zone 1.	46	0.39	42.48	108.92
Jikawo.	-	-	-	-
Itang	22	0.14	14	100
Gambella. . . .	*	*	*	*
Zone 2.	2964	30.78	3608.4	117.23
Abobo	73	*	*	*
Jor	-	-	-	-
Jog	*	*	*	*
Godare.	2875	28.42	3370.18	118.58
Dima.	2	0.03	1.03	34.33

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGSFOR BOTH SEASONS

ALL HOLDINGS

TOMATOES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	702	10.5	1243.99	118.48
Zone 1.	159	6.06	*	*
Jikawo.	-	-	-	-
Itang	*	*	*	*
Gambella. . . .	152	6.02	*	*
Zone 2.	544	4.44	*	*
Abobo	398	*	*	*
Jor	-	-	-	-
Jog	68	*	*	*
Godare.	*	*	*	*
Dima.	1	-	0.75	-

TABLE D - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

GREEN PEPPERS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	983	5.54	486.81	87.87
Zone 1.	77	*	29.75	*
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	77	*	29.75	*
Zone 2.	905	4.95	457.06	92.34
Abobo	285	2.29	229.24	100.1
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	618	2.61	224.87	86.16
Dima.	2	0.05	2.95	59

TABLE E - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

RED PEPPERS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	947	20.28	305.06	15.04
Zone 1.	*	*	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	*	*	-	-
Zone 2.	944	20.26	305.06	15.06
Abobo	179	*	37.59	*
Jor	-	-	-	-
Jog	*	*	*	*
Godare.	758	17.43	267.31	15.34
Dima.	-	-	-	-

TABLE F - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

SWISS CHARD

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	-	-
Dima.	-	-	-	-

TABLE 5.8.3 - ESTIMATES OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

ROOT CROPS

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Gambela Killil. .	9040	349.19	28875.79
Zone 1.	1669	63.48	5793.2
Jikawo.	508	38.14	3811.27
Itang	593	12.66	1015.55
Gambella. . . .	568	12.67	966.38
Zone 2.	7371	285.7	23082.59
Abobo	987	40.65	3975.59
Jor	346	7.1	536.31
Jog	285	9.56	600.4
Godare.	5751	228.35	17968.39
Dima.	2	0.05	1.9

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

BEETROOT

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	*	*
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	*	*
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	*	*
Dima.	-	-	-	-

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

CARROT

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	*	*	-	-
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	*	*	-	-
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	*	*	-	-
Dima.	-	-	-	-

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

ONION

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	273	0.49	*	*
Zone 1.	*	*	*	*
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	*	*	*	*
Zone 2.	261	*	*	*
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	260	*	*	*
Dima.	1	0.01	0.9	90

TABLE D - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF EMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

POTATOES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	310	3.74	202.73	54.21
Zone 1.	56	*	*	*
Jikawo.	*	*	-	-
Itang	27	0.06	-	-
Gambella. . . .	*	*	*	*
Zone 2.	254	2.85	185.05	64.93
Abobo	*	*	*	*
Jor	-	-	-	-
Jog	*	*	*	*
Godare.	196	2.4	*	*
Dima.	1	0.04	1	25

TABLE E - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

GARLIC

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	493	0.79	98.19	124.29
Zone 1.	-	-	-	-
Jikawo.	-	-	-	-
Itang	-	-	-	-
Gambella. . . .	-	-	-	-
Zone 2.	493	0.79	98.19	124.29
Abobo	-	-	-	-
Jor	-	-	-	-
Jog	-	-	-	-
Godare.	493	0.79	98.19	124.29
Dima.	-	-	-	-

TABLE F - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

TARO / 'GODERE'

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	6684	231.84	17696.71	76.33
Zone 1.	931	17.43	1381.99	79.29
Jikawo.	*	*	*	*
Itang	530	11.63	918.16	78.95
Gambella. . . .	392	5.76	461.08	80.05
Zone 2.	5753	214.41	16314.72	76.09
Abobo	227	*	*	*
Jor	339	7.03	528.98	75.25
Jog	111	6.3	373.7	59.32
Godare.	5077	197.15	15097.45	76.58
Dima.	-	-	-	-

TABLE G - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

SWEET POTATOES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Gambela Killil. .	3240	112.01	10827.54	96.67
Zone 1.	783	44.98	4392.59	97.66
Jikawo.	490	38.09	3808.52	99.99
Itang	73	0.97	97.39	100.4
Gambella. . . .	221	5.92	*	*
Zone 2.	2457	67.03	6434.95	96
Abobo	815	36.35	3622.9	99.67
Jor	*	*	*	*
Jog	181	3.21	221.47	68.99
Godare.	1449	27.4	2583.26	94.28
Dima.	-	-	-	-

TABLE 5.9 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS
RURAL HOLDINGS

GAMBELA REGION

PERMANENT CROPS	NUMBER OF HOLDERS REPORTING	AREA IN CROP (HA)	%	TOTAL NUMBER OF TREES	NUMBER OF TREES PER HECTARE	NUMBER OF TREES BEARING	PRODUCTION (QT)	%	YIELD (QT / HA)
ALL	18007	3283.65							
Fruit Crops	15812	359.9	100	302709	841	192640	32200.11	100	
Avocados	778	4.19	1.16	1668	398	-	-	-	-
Bananas	8723	180.68	50.2	198354	1098	110978	8634.52	26.82	47.79
Guavas	515	3.94	1.09	1531	389	1257	74.72	0.23	18.96
Lemons	430	3.97	1.1	602	152	549	102.68	0.32	25.86
Mangoes	8610	104.71	29.09	36788	351	31467	8530.84	26.49	81.47
Oranges	1515	9.83	2.73	4566	464	4028	593.1	1.84	60.34
Papayas	9208	50.8	14.12	58551	1153	43806	14219.07	44.16	279.9
Pineapples	517	1.79	0.5	649	363	556	45.19	0.14	25.25
Stimulant Crops	7951	2462.55	100	35089	14	32442	15638.73	100	
Chat	2234	37.47	1.52				1265.53	8.09	33.77
Coffee	7794	2411.47	97.93				14020.26	89.65	5.81
Hops (Gesho)	1986	13.61	0.55	11076	814	9146	352.94	2.26	25.93
Other Permanent	7268	461.19	100	1183581	2566	6672	5018.93	100	
Enset	5158	392.88	85.19	1176864	2995	-	12356.08	-	-
Sugar Cane	4814	68.31	14.81		98	6672	5018.93	100	73.47

TABLE 5.9.1- ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS
RURAL HOLDINGS

GAMBELA ZONE 1

PERMANENT CROPS	NUMBER OF HOLDERS REPORTING	AREA IN CROP (HA)	%	TOTAL NUMBER OF TREES	NUMBER OF TREES PER HECTARE	NUMBER OF TREES BEARING	PRODUCTION (QT)	%	YIELD (QT / HA)
ALL	4405	122.01							
Fruit Crops	4393	120.92	100	100514	831	66793	11582.4	100	
Avocados	3	0.03	0.02	6	200	-	-	-	-
Bananas	2685	49.81	41.19	67118	1347	40243	3401.33	29.37	68.29
Guavas	98	*	*	*	*	405	32.63	0.28	*
Lemons	*	*	*	*	*	*	*	*	*
Mangoes	2722	59.29	49.03	17569	296	14738	5560.07	48	93.78
Oranges	55	0.21	0.17	138	657	*	*	*	*
Papayas	2514	10.36	8.57	14977	1446	11318	2586.93	22.34	249.7
Pineapples	*	*	*	*	*	-	-	-	-
Stimulant Crops	*	*	*	*	*	-	-	-	-
Chat	-	-	-				-	-	-
Coffee	*	*	*				-	-	-
Hops (Gesho)	-	-	-	-	-	-	-	-	-
Other Permanent	209	1.06	100	221	208	186	35.82	100	
Enset	-	-	-	-	-	-	-	-	-
Sugar Cane	209	1.06	100		208	186	35.82	100	33.79

TABLE 5.9.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FORPRIVATE PEASANT HOLDINGS
RURAL HOLDINGS

GAMBELA ZONE 2

PERMANENT CROPS	NUMBER OF HOLDERS REPORTING	AREA IN CROP (HA)	%	TOTAL NUMBER OF TREES	NUMBER OF TREES PER HECTARE	NUMBER OF TREES BEARING	PRODUCTION (QT)	%	YIELD (QT / HA)
ALL	13602	3161.63							
Fruit Crops	11419	238.98	-	202195	846	125847	20617.71	-	
Avocados	775	4.16	-	1661	399	-	-	-	-
Bananas	6038	130.88	-	131237	1003	70735	5233.18	-	39.98
Guavas	417	2.84	-	918	323	852	42.09	-	14.82
Lemons	403	3.89	-	519	133	501	102.38	-	26.32
Mangoes	5887	45.42	-	19219	423	16729	2970.77	-	65.41
Oranges	1460	9.61	-	4428	461	3987	591.97	-	61.6
Papayas	6694	40.45	-	43574	1077	32488	11632.14	-	287.57
Pineapples	507	1.73	-	638	369	556	45.19	-	26.12
Stimulant Crops	7946	2462.52	-	35085	14	32442	15638.73	-	
Chat	2234	37.47	-				1265.53	-	33.77
Coffee	7789	2411.43	-				14020.26	-	5.81
Hops (Gesho)	1986	13.61	-	11076	814	9146	352.94	-	25.93
Other Permanent	7058	460.13	-	1183361	2572	6486	4983.1	-	
Enset	5158	392.88	-	1176864	2995	-	12356.08	-	-
Sugar Cane	4605	67.25	-		97	6486	4983.1	-	74.1

TABLE 5.10 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS
RURAL HOLDINGS

PERMANENT CROPS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number of Trees Bearing	Production (Qt)
Gambela Killil	18007	3283.65	1521380	463	231754	66778.77
Zone 1	4405	122.01	100739	826	66979	11618.22
Jikawo	1086	10.67	11784	1104	7010	1174.97
Itang	1952	44.29	27170	613	21213	3777.3
Gambella	1367	67.05	61785	921	38756	6665.96
Zone 2	13602	3161.63	1420640	449	164775	55160.54
Abobo	2158	21.67	24430	1127	16936	6627.08
Jor	327	6.63	1412	213	1055	160.49
Jog	1413	17.66	16339	925	12598	2866
Godare	9704	3115.68	1378459	442	134185	45506.97
Dima	18007	3283.65	1521380	463	231754	66778.77

TABLE 5.10.1 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

RURAL HOLDINGS

FRUIT CROPS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)
Gambela Killil	15812	359.9	302709	841	192640	32200.11
Zone 1	4393	120.92	100514	831	66793	11582.4
Jikawo	1086	10.64	11757	1105	7010	1174.97
Itang	1952	43.7	27075	620	21122	3750.44
Gambella	1355	66.58	61682	926	38661	6656.99
Zone 2	11419	238.98	202195	846	125847	20617.71
Abobo	2154	20.62	24313	1179	16876	6499.71
Jor	327	6.5	1402	216	1055	160.49
Jog	1413	16.73	16107	963	12374	2788.64
Godare	7526	195.14	160373	822	95541	11168.86

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

RURAL HOLDINGS

AVOCADOS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	778	4.19	1668	398	-	-	-
Zone 1	3	0.03	6	200	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	3	0.03	6	200	-	-	-
Gambella	-	-	-	-	-	-	-
Zone 2	775	4.16	1661	399	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Jog	-	-	-	-	-	-	-
Godare	775	4.16	1661	399	-	-	-

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

RURAL HOLDINGS

BANANAS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	8723	180.68	198354	1098	110978	8634.52	47.79
Zone 1	2685	49.81	67118	1347	40243	3401.33	68.29
Jikawo	435	4.89	6403	1309	2710	82.93	16.96
Itang	1146	13.96	13333	955	10234	944.46	67.65
Gambella	1103	30.95	47382	1531	27299	2373.95	76.7
Zone 2	6038	130.88	131237	1003	70735	5233.18	39.98
Abobo	*	*	*	*	-	-	-
Jor	226	5.19	921	177	676	12.82	2.47
Jog	309	3.05	3674	1205	2617	95.89	31.44
Godare	5433	122.55	126283	1030	67442	5124.47	41.82

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

RURAL HOLDINGS

GUAVAS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	515	3.94	1531	389	1257	74.72	18.96
Zone 1	98	*	*	*	405	32.63	*
Jikawo	-	-	-	-	-	-	-
Itang	15	*	*	*	-	-	-
Gambella	83	*	*	*	405	32.63	*
Zone 2	417	2.84	918	323	852	42.09	14.82
Abobo	*	*	*	*	*	*	*
Jor	-	-	-	-	-	-	-
Jog	-	-	-	-	-	-	-
Godare	329	0.92	522	567	480	33.5	36.41

TABLE D - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FORPRIVATE PEASANT HOLDINGS

RURAL HOLDINGS

LEMONS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	430	3.97	602	152	549	102.68	25.86
Zone 1	*	*	*	*	*	*	*
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambella	*	*	*	*	*	*	*
Zone 2	403	3.89	519	133	501	102.38	26.32
Abobo	148	*	229	*	211	85.57	*
Jor	-	-	-	-	-	-	-
Jog	*	*	*	*	*	*	*
Godare	240	1.97	274	139	274	15.43	7.83

TABLE E - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FORPRIVATE PEASANT HOLDINGS

RURAL HOLDINGS

MANGOES

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	8610	104.71	36788	351	31467	8530.84	81.47
Zone 1	2722	59.29	17569	296	14738	5560.07	93.78
Jikawo	351	3.39	943	278	826	300.32	88.59
Itang	1297	25.27	6559	260	5643	1368.67	54.16
Gambella	1075	30.62	10067	329	8269	3891.08	127.08
Zone 2	5887	45.42	19219	423	16729	2970.77	65.41
Abobo	681	3.25	2522	776	2421	709.74	218.38
Jor	129	1.04	283	272	199	98.84	95.04
Jog	704	6.55	3266	499	2797	608.71	92.93
Godare	4373	34.58	13148	380	11312	1553.48	44.92

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TABLE F - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPSFOR PRIVATE PEASANT HOLDINGS

RURAL HOLDINGS

ORANGES

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	1515	9.83	4566	464	4028	593.1	60.34
Zone 1	55	0.21	138	657	*	*	*
Jikawo	*	*	*	*	-	-	-
Itang	14	0.07	*	*	*	*	*
Gambella	*	*	*	*	-	-	-
Zone 2	1460	9.61	4428	461	3987	591.97	61.6
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Jog	-	-	-	-	-	-	-
Godare	1460	9.61	4428	461	3987	591.97	61.6

TABLE G - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

RURAL HOLDINGS

PAPAYAS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	9208	50.8	58551	1153	43806	14219.07	279.9
Zone 1	2514	10.36	14977	1446	11318	2586.93	249.7
Jikawo	742	2.32	4376	1886	3474	791.72	341.26
Itang	1265	4.3	7062	1642	5204	1436.2	334
Gambella	507	3.73	3539	949	2641	359.02	96.25
Zone 2	6694	40.45	43574	1077	32488	11632.14	287.57
Abobo	1876	13.43	20753	1545	13871	5695.82	424.11
Jor	*	*	*	*	*	*	*
Jog	1010	7.09	9152	1291	6945	2082.65	293.74
Godare	3741	19.65	13472	686	11491	3804.83	193.63

TABLE H - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

RURAL HOLDINGS

PINE APPLES

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	517	1.79	649	363	556	45.19	25.25
Zone 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella	*	*	*	*	-	-	-
Zone 2	507	1.73	638	369	556	45.19	26.12
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Jog	-	-	-	-	-	-	-
Godare	471	1.7	585	344	556	45.19	26.58

TABLE 5.10.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

RURAL HOLDINGS

STIMULANT CROPS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)
Gambela Killil	7951	2462.55	35089	14	32442	15638.73
Zone 1	*	*	*	*	-	-
Jikawo	-	-	-	-	-	-
Itang	*	*	*	*	-	-
Gambella	-	-	-	-	-	-
Zone 2	7946	2462.52	35085	14	32442	15638.73
Abobo	*	*	*	*	-	-
Jor	-	-	-	-	-	-
Jog	*	*	*	*	-	-
Godare	7881	2462.36	35020	14	32442	15638.73

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

RURAL HOLDINGS

CHAT

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	2234	37.47				1265.53	33.77
Zone 1	-	-				-	-
Jikawo	-	-				-	-
Itang	-	-				-	-
Gambella	-	-				-	-
Zone 2	2234	37.47				1265.53	33.77
Abobo	-	-				-	-
Jor	-	-				-	-
Jog	-	-				-	-
Godare	2234	37.47				1265.53	33.77
Dima	-	-				-	-

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

RURAL HOLDINGS

COFFEE

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	7794	2411.47				14020.26	5.81
Zone 1	*	*				-	-
Jikawo	-	-				-	-
Itang	*	*				-	-
Gambella	-	-				-	-
Zone 2	7789	2411.43				14020.26	5.81
Abobo	*	*				-	-
Jor	-	-				-	-
Jog	-	-				-	-
Godare	7732	2411.3				14020.26	5.81

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

RURAL HOLDINGS

HOPS (GESHO)

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	1986	13.61	11076	814	9146	352.94	25.93
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella	-	-	-	-	-	-	-
Zone 2	1986	13.61	11076	814	9146	352.94	25.93
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Jog	*	*	*	*	-	-	-
Godare	1977	13.59	11067	814	9146	352.94	25.97

TABLE 5.10.3 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

RURAL HOLDINGS

OTHER PERMANENT CROPS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	7268	461.19	1183581	2566	6672	5018.93	10.88
Zone 1	209	1.06	221	208	186	35.82	33.79
Jikawo	27	*	27	*	-	-	-
Itang	87	0.55	91	165	91	26.85	48.82
Gambella	96	0.47	104	221	95	8.97	19.09
Zone 2	7058	460.13	1183361	2572	6486	4983.1	10.83
Abobo	*	*	*	*	*	*	*
Jor	*	*	*	*	-	-	-
Jog	178	0.91	224	246	224	77.36	85.01
Godare	6827	458.17	1183066	2582	6202	4778.37	10.43

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS
RURAL HOLDINGS

SUGAR CANE

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	4814	68.31				5018.93	73.47
Zone 1	209	1.06				35.82	33.79
Jikawo	27	*				-	-
Itang	87	0.55				26.85	48.82
Gambella	96	0.47				8.97	19.09
Zone 2	4605	67.25				4983.1	74.1
Abobo	*	*				*	*
Jor	*	*				-	-
Jog	178	0.91				77.36	85.01
Godare	4373	65.29				4778.37	73.19
Dima	4814	68.31				5018.93	73.47

TABLE 5.11 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS
URBAN HOLDINGS

GAMBELA REGION

PERMANENT CROPS	NUMBER OF HOLDERS REPORTING	AREA IN CROP (HA)	%	TOTAL NUMBER OF TREES	NUMBER OF TREES PER HECTARE	NUMBER OF TREES BEARING	PRODUCTION (QT)	%	YIELD (QT / HA)
ALL	595	476.43						-	
Fruit Crops	266	8.74	100	3180	364	2406	2070.32	100	
Avocados	23	*	*	164	*	*	-	-	-
Bananas	50	2	22.88	1190	595	*	*	*	*
Guavas	1	0.21	2.4	10	48	5	0.25	0.01	1.19
Lemons	*	*	*	*	*	*	-	-	-
Mangoes	201	3.61	41.3	1142	316	966	214.4	10.36	59.39
Oranges	35	0.17	1.95	88	518	88	12.16	0.59	71.53
Papayas	88	2.24	25.63	385	172	312	1427.46	68.95	637.26
Pineapples	*	*	*	*	*	*	*	*	*
Stimulant Crops	407	463.09	100	-	-	-	1224.15	100	
Chat	*	*	*	-	-	-	-	-	-
Coffee	407	462.18	99.8	-	-	-	1223.41	99.94	2.65
Hops (Gesho)	*	*	*	-	-	-	*	*	*
Other Permanent	40	4.6	100	154	33	-	*	*	
Sugar Cane	27	4.53	98.48	*	*	-	*	*	*

TABLE 5.11.1 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS
URBAN HOLDINGS

GAMBELA ZONE 1

PERMANENT CROPS	NUMBER OF HOLDERS REPORTING	AREA IN CROP (HA)	%	TOTAL NUMBER OF TREES	NUMBER OF TREES PER HECTARE	NUMBER OF TREES BEARING	PRODUCTION (QT)	%	YIELD (QT / HA)
ALL	66	4.94						-	
Fruit Crops	66	4.91	100	992	202	597	402.33	100	
Avocados	-	-	-	-	-	-	-	-	-
Bananas	14	1.22	24.85	489	401	201	*	*	*
Guavas	1	0.21	4.28	10	48	5	0.25	0.06	1.19
Lemons	*	*	*	*	*	-	-	-	-
Mangoes	37	1.43	29.12	326	228	285	143.75	35.73	100.52
Oranges	-	-	-	-	-	-	-	-	-
Papayas	27	2.04	41.55	155	76	106	*	*	*
Pineapples	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	
Stimulant Crops	-	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-
Hops (Gesho)	*	*	*	-	-	-	-	-	
Other Permanent	-	-	-	-	-	-	-	-	-
Enset	*	*	*	-	-	-	-	-	-
Sugar Cane	66	4.94						-	

TABLE 5.11.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGSURBAN HOLDINGS
GAMBELA ZONE 2

PERMANENT CROPS	NUMBER OF HOLDERS REPORTING	AREA IN CROP (HA)	%	TOTAL NUMBER OF TREES	NUMBER OF TREES PER HECTARE	NUMBER OF TREES BEARING	PRODUCTION (QT)	%	YIELD (QT / HA)
ALL	529	471.49						-	
Fruit Crops	200	3.83	100	2188	571	1809	1668	100	
Avocados	23	*	*	164	*	*	-	-	-
Bananas	36	*	*	*	*	*	*	*	*
Guavas	-	-	-	-	-	-	-	-	-
Lemons	*	*	*	*	*	*	-	-	-
Mangoes	164	2.19	57.18	816	373	681	70.66	4.24	32.26
Oranges	35	0.17	4.44	88	518	88	12.16	0.73	71.53
Papayas	61	*	*	230	*	206	*	*	*
Pineapples	*	*	*	*	*	*	*	*	*
Stimulant Crops	407	463.09	100	-	-	-	1224.15	100	
Chat	*	*	*	-	-	-	-	-	-
Coffee	407	462.18	99.8	-	-	-	1223.41	99.94	2.65
Hops (Gesho)	*	*	*	-	-	-	*	*	*
Other Permanent	38	4.56	100	154	34	-	*	*	
Sugar Cane	25	4.49	98.46	*	*	-	*	*	*

TABLE 5.12 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS URBAN HOLDINGS

PERMANENT CROPS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)
Gambela Killil. .	595	476.43	3334	7	2406	3548.27
Zone 1.	66	4.94	992	201	597	402.33
Itang	-	-	-	-	-	-
Gambella. . . .	66	4.94	992	201	597	402.33
Zone 2.	529	471.49	2342	5	1809	3145.95
Jog	105	1.76	705	401	557	*
Godare.	424	469.73	1637	3	1251	2188.96
Dima.	-	-	-	-	-	-

TABLE 5.12.1 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

FRUIT CROPS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)
Gambela Killil. .	266	8.74	3180	364	2406	2070.32
Zone 1.	66	4.91	992	202	597	402.33
Itang	-	-	-	-	-	-
Gambella. . . .	66	4.91	992	202	597	402.33
Zone 2.	200	3.83	2188	571	1809	1668
Jog	105	1.76	705	401	557	*
Godare.	95	2.08	1483	713	1251	711.01
Dima.	-	-	-	-	-	-

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

AVOCADOS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil. .	23	*	164	*	*	-	-
Zone 1.	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	-	-	-	-	-	-	-
Zone 2.	23	*	164	*	*	-	-
Jog	-	-	-	-	-	-	-
Godare.	23	*	164	*	*	-	-
Dima.	-	-	-	-	-	-	-

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

BANANAS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil. .	50	2	1190	595	*	*	*
Zone 1.	14	1.22	489	401	201	*	*
Itang	-	-	-	-	-	-	-
Gambella. . . .	14	1.22	489	401	201	*	*
Zone 2.	36	*	*	*	*	*	*
Jog	*	*	*	*	*	-	-
Godare.	26	*	*	*	*	*	*
Dima.	-	-	-	-	-	-	-

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

GUAVAS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil. .	1	0.21	10	48	5	0.25	1.19
Zone 1.	1	0.21	10	48	5	0.25	1.19
Itang	-	-	-	-	-	-	-
Gambella. . . .	1	0.21	10	48	5	0.25	1.19
Zone 2.	-	-	-	-	-	-	-
Jog	-	-	-	-	-	-	-
Godare.	-	-	-	-	-	-	-
Dima.	-	-	-	-	-	-	-

TABLE D - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

LEMONS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil. .	*	*	*	*	*	-	-
Zone 1.	*	*	*	*	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	*	*	*	*	-	-	-
Zone 2.	*	*	*	*	*	-	-
Jog	-	-	-	-	-	-	-
Godare.	*	*	*	*	*	-	-
Dima.	-	-	-	-	-	-	-

TABLE E - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

MANGOES

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil. .	201	3.61	1142	316	966	214.4	59.39
Zone 1.	37	1.43	326	228	285	143.75	100.52
Itang	-	-	-	-	-	-	-
Gambella. . . .	37	1.43	326	228	285	143.75	100.52
Zone 2.	164	2.19	816	373	681	70.66	32.26
Jog	91	1.52	526	346	407	*	*
Godare.	73	0.66	290	439	274	55.11	83.5
Dima.	-	-	-	-	-	-	-

TABLE F - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

ORANGES

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil. .	35	0.17	88	518	88	12.16	71.53
Zone 1.	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	-	-	-	-	-	-	-
Zone 2.	35	0.17	88	518	88	12.16	71.53
Jog	-	-	-	-	-	-	-
Godare.	35	0.17	88	518	88	12.16	71.53
Dima.	-	-	-	-	-	-	-

TABLE G - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

PAPAYAS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil. .	88	2.24	385	172	312	1427.46	637.26
Zone 1.	27	2.04	155	76	106	*	*
Itang	-	-	-	-	-	-	-
Gambella. . . .	27	2.04	155	76	106	*	*
Zone 2.	61	*	230	*	206	*	*
Jog	38	*	159	*	135	*	*
Godare.	23	0.03	71	2367	71	*	*
Dima.	-	-	-	-	-	-	-

TABLE H - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

PINEAPPLES

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil. .	*	*	*	*	*	*	*
Zone 1.	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	-	-	-	-	-	-	-
Zone 2.	*	*	*	*	*	*	*
Jog	-	-	-	-	-	-	-
Godare.	*	*	*	*	*	*	*
Dima.	-	-	-	-	-	-	-

TABLE 5.12.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

STIMULANT CROPS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)
Gambela Killil. .	407	463.09	-	-	-	1224.15
Zone 1.	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambella. . . .	-	-	-	-	-	-
Zone 2.	407	463.09	-	-	-	1224.15
Jog	-	-	-	-	-	-
Godare.	407	463.09	-	-	-	1224.15
Dima.	-	-	-	-	-	-

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

CHAT

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil. .	*	*	-	-	-	-	-
Zone 1.	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	-	-	-	-	-	-	-
Zone 2.	*	*	-	-	-	-	-
Jog	-	-	-	-	-	-	-
Godare.	*	*	-	-	-	-	-
Dima.	-	-	-	-	-	-	-

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

COFFEE

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil. .	407	462.18	-	-	-	1223.41	2.65
Zone 1.	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	-	-	-	-	-	-	-
Zone 2.	407	462.18	-	-	-	1223.41	2.65
Jog	-	-	-	-	-	-	-
Godare.	407	462.18	-	-	-	1223.41	2.65
Dima.	-	-	-	-	-	-	-

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

HOPS (GESHO)

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil. .	*	*	-	-	-	*	*
Zone 1.	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	-	-	-	-	-	-	-
Zone 2.	*	*	-	-	-	*	*
Jog	-	-	-	-	-	-	-
Godare.	*	*	-	-	-	*	*
Dima.	-	-	-	-	-	-	-

TABLE 5.12.3 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

OTHER PERMANENT

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)
Gambela Killil. .	40	4.6	154	33	-	*
Zone 1.	*	*	-	-	-	-
Itang	-	-	-	-	-	-
Gambella. . . .	*	*	-	-	-	-
Zone 2.	38	4.56	154	34	-	*
Jog	-	-	-	-	-	-
Godare.	38	4.56	154	34	-	*
Dima.	-	-	-	-	-	-

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

SUGARCANE

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil. .	27	4.53	*	*	-	*	*
Zone 1.	*	*	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	*	*	-	-	-	-	-
Zone 2.	25	4.49	*	*	-	*	*
Jog	-	-	-	-	-	-	-
Godare.	25	4.49	*	*	-	*	*
Dima.	-	-	-	-	-	-	-

TABLE 5.13 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS
ALL HOLDINGS

GAMBELA REGION

PERMANENT CROPS	NUMBER OF HOLDERS REPORTING	AREA IN CROP (HA)	%	TOTAL NUMBER OF TREES	NUMBER OF TREES PER HECTARE	NUMBER OF TREES BEARING	PRODUCTION (QT)	%	YIELD (QT / HA)
ALL	18602	3760.08							
Fruit Crops	16078	368.64	100	305889	830	195046	34270.43	100	
Avocados	801	4.59	1.25	1832	399	*	-	-	-
Bananas	8773	182.68	49.56	199544	1092	111771	8969.18	26.17	49.1
Guavas	516	4.15	1.13	1541	371	1262	74.97	0.22	18.07
Lemons	435	3.98	1.08	618	155	552	102.68	0.3	25.8
Mangoes	8811	108.32	29.38	37930	350	32433	8745.24	25.52	80.74
Oranges	1550	10	2.71	4655	466	4116	605.26	1.77	60.53
Papayas	9296	53.04	14.39	58935	1111	44118	15646.53	45.66	294.99
Pineapples	521	1.88	0.51	834	444	741	*	*	*
Stimulant Crops	8358	2925.64	100	35089	12	32442	16862.88	100	
Chat	2242	38.37	1.31				1265.53	7.5	32.98
Coffee	8201	2873.65	98.22				15243.67	90.4	5.3
Hops (Gesho)	1993	13.63	0.47	11076	813	9146	353.68	2.1	25.95
Other Permanent	7307	465.79	100	1183735	2541	6672	5272.73	100	
Sugar Cane	4841	72.84	15.64		93	6672	5272.73	100	72.39

TABLE 5.13.1 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS
ALL HOLDINGS

GAMBELA ZONE 1

PERMANENT CROPS	NUMBER OF HOLDERS REPORTING	AREA IN CROP (HA)	%	TOTAL NUMBER OF TREES	NUMBER OF TREES PER HECTARE	NUMBER OF TREES BEARING	PRODUCTION (QT)	%	YIELD (QT / HA)
ALL	4471	126.95							
Fruit Crops	4459	125.83	100	101506	807	67390	11984.73	100	
Avocados	3	0.03	0.02	6	200	-	-	-	-
Bananas	2699	51.03	40.55	67607	1325	40444	3541.8	29.55	69.41
Guavas	99	1.3	1.03	623	479	410	32.88	0.27	25.29
Lemons	*	*	*	95	*	*	*	*	*
Mangoes	2760	60.72	48.26	17896	295	15023	5703.82	47.59	93.94
Oranges	55	0.21	0.17	138	657	*	*	*	*
Papayas	2541	12.4	9.85	15131	1220	11424	2704.8	22.57	218.13
Pineapples	*	*	*	*	*	-	-	-	-
Stimulant Crops	*	*	*	*	*	-	-	-	
Chat	-	-	-				-	-	-
Coffee	*	*	*				-	-	-
Hops (Gesho)	-	-	-	-	-	-	-	-	-
Other Permanent	212	1.09	100	221	203	186	35.82	100	
Sugar Cane	212	1.09	100		203	186	35.82	100	32.86

TABLE 5.13.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS
ALL HOLDINGS

GAMBELA ZONE 2

PERMANENT CROPS	NUMBER OF HOLDERS REPORTING	AREA IN CROP (HA)	%	TOTAL NUMBER OF TREES	NUMBER OF TREES PER HECTARE	NUMBER OF TREES BEARING	PRODUCTION (QT)	%	YIELD (QT / HA)
ALL	14131	3633.12							
Fruit Crops	11619	242.81	100	204382	842	127656	22285.71	100	
Avocados	798	4.56	1.88	1825	400	*	-	-	-
Bananas	6074	131.66	54.22	131937	1002	71327	5427.37	24.35	41.22
Guavas	417	2.84	1.17	918	323	852	42.09	0.19	14.82
Lemons	407	3.89	1.6	523	134	505	102.38	0.46	26.32
Mangoes	6051	47.61	19.61	20035	421	17410	3041.43	13.65	63.88
Oranges	1495	9.78	4.03	4517	462	4075	604.13	2.71	61.77
Papayas	6755	40.65	16.74	43804	1078	32694	12941.74	58.07	318.37
Pineapples	511	1.82	0.75	823	452	741	*	-	*
Stimulant Crops	8354	2925.61	100	35085	12	32442	16862.88	100	
Chat	2242	38.37	1.31				1265.53	7.5	32.98
Coffee	8197	2873.61	98.22				15243.67	90.4	5.3
Hops (Gesho)	1993	13.63	0.47	11076	813	9146	353.68	2.1	25.95
Other Permanent	7096	464.69	100	1183514	2547	6486	5236.9	100	
Sugar Cane	4629	71.74	15.44		92	6486	5236.9	100	73

TABLE 5.14 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS
ALL HOLDINGS

PERMANENT CROPS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number of Trees Bearing	Production (Qt)
Gambela Killil	18602	3760.08	1524713	406	234160	56406.04
Zone 1	4471	126.95	101731	801	67576	12020.55
Jikawo	1086	10.67	11784	1104	7010	1174.97
Itang	1952	44.29	27170	613	21213	3777.3
Gambella	1433	71.99	62777	872	39353	7068.29
Zone 2	14131	3633.12	1422982	392	166584	44385.5
Abobo	2158	21.67	24430	1127	16936	6627.08
Jor	327	6.63	1412	213	1055	160.49
Jog	1517	19.42	17044	878	13156	3822.99
Godare	10128	3585.41	1380096	385	135437	33774.93
Dima	-	-	-	-	-	-

TABLE 5.14.1 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

ALLHOLDINGS

FRUIT CROPS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)
Gambela Killil	16078	368.64	305889	830	195046	34270.43
Zone 1	4459	125.83	101506	807	67390	11984.73
Jikawo	1086	10.64	11757	1105	7010	1174.97
Itang	1952	43.7	27075	620	21122	3750.44
Gambella	1421	71.49	62674	877	39258	7059.32
Zone 2	11619	242.81	204382	842	127656	22285.71
Abobo	2154	20.62	24313	1179	16876	6499.71
Jor	327	6.5	1402	216	1055	160.49
Jog	1517	18.49	16811	909	12932	3745.63
Godare	7621	197.22	161856	821	96793	11879.87
Dima	-	-	-	-	-	-

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

ALL HOLDINGS

AVOCADOS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	801	4.59	1832	399	*	-	-
Zone 1	3	0.03	6	200	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	3	0.03	6	200	-	-	-
Gambella	-	-	-	-	-	-	-
Zone 2	798	4.56	1825	400	*	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Jog	-	-	-	-	-	-	-
Godare	798	4.56	1825	400	*	-	-
Dima	-	-	-	-	-	-	-

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

ALL HOLDINGS

BANANAS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	8773	182.68	199544	1092	111771	8969.18	49.1
Zone 1	2699	51.03	67607	1325	40444	3541.8	69.41
Jikawo	435	4.89	6403	1309	2710	82.93	16.96
Itang	1146	13.96	13333	955	10234	944.46	67.65
Gambella	1117	32.17	47871	1488	27500	2514.42	78.16
Zone 2	6074	131.66	131937	1002	71327	5427.37	41.22
Abobo	*	*	*	*	-	-	-
Jor	226	5.19	921	177	676	12.82	2.47
Jog	319	3.1	3694	1192	2633	95.89	30.93
Godare	5459	123.28	126963	1030	68019	5318.66	43.14
Dima	-	-	-	-	-	-	-

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS
ALL HOLDINGS

GUAVAS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	516	4.15	1541	371	1262	74.97	18.07
Zone 1	99	1.3	623	479	410	32.88	25.29
Jikawo	-	-	-	-	-	-	-
Itang	15	*	*	*	-	-	-
Gambella	85	*	*	*	410	32.88	*
Zone 2	417	2.84	918	323	852	42.09	14.82
Abobo	*	*	*	*	*	*	*
Jor	-	-	-	-	-	-	-
Jog	-	-	-	-	-	-	-
Godare	329	0.92	522	567	480	33.5	36.41
Dima	-	-	-	-	-	-	-

TABLE D - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FORPRIVATE PEASANT HOLDINGS

ALL HOLDINGS

LEMONS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	435	3.98	618	155	552	102.68	25.8
Zone 1	*	*	95	*	*	*	*
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambella	*	*	*	*	*	*	*
Zone 2	407	3.89	523	134	505	102.38	26.32
Abobo	148	*	229	*	211	85.57	*
Jor	-	-	-	-	-	-	-
Jog	*	*	*	*	*	*	*
Godare	243	1.97	278	141	278	15.43	7.83
Dima	-	-	-	-	-	-	-

TABLE E - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FORPRIVATE PEASANT HOLDINGS

ALL HOLDINGS

MANGOES

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	8811	108.32	37930	350	32433	8745.24	80.74
Zone 1	2760	60.72	17896	295	15023	5703.82	93.94
Jikawo	351	3.39	943	278	826	300.32	88.59
Itang	1297	25.27	6559	260	5643	1368.67	54.16
Gambella	1112	32.05	10393	324	8554	4034.83	125.89
Zone 2	6051	47.61	20035	421	17410	3041.43	63.88
Abobo	681	3.25	2522	776	2421	709.74	218.38
Jor	129	1.04	283	272	199	98.84	95.04
Jog	795	8.07	3792	470	3204	624.26	77.36
Godare	4446	35.24	13438	381	11586	1608.59	45.65
Dima	-	-	-	-	-	-	-

TABLE F - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPSFOR PRIVATE PEASANT HOLDINGS

ALL HOLDINGS

ORANGES

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	1550	10	4655	466	4116	605.26	60.53
Zone 1	55	0.21	138	657	*	*	*
Jikawo	*	*	*	*	-	-	-
Itang	14	0.07	*	*	*	*	*
Gambella	*	*	*	*	-	-	-
Zone 2	1495	9.78	4517	462	4075	604.13	61.77
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Jog	-	-	-	-	-	-	-
Godare	1495	9.78	4517	462	4075	604.13	61.77
Dima	-	-	-	-	-	-	-

TABLE G - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

ALL HOLDINGS

PAPAYAS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	9296	53.04	58935	1111	44118	15646.53	294.99
Zone 1	2541	12.4	15131	1220	11424	2704.8	218.13
Jikawo	742	2.32	4376	1886	3474	791.72	341.26
Itang	1265	4.3	7062	1642	5204	1436.2	334
Gambella	533	5.77	3694	640	2747	476.89	82.65
Zone 2	6755	40.65	43804	1078	32694	12941.74	318.37
Abobo	1876	13.43	20753	1545	13871	5695.82	424.11
Jor	*	*	*	*	*	*	*
Jog	1049	7.27	9310	1281	7080	3024.09	415.97
Godare	3764	19.68	13543	688	11562	4172.99	212.04
Dima	-	-	-	-	-	-	-

TABLE H - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

ALL HOLDINGS

PINE APPLES

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	521	1.88	834	444	741	*	*
Zone 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella	*	*	*	*	-	-	-
Zone 2	511	1.82	823	452	741	*	*
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Jog	-	-	-	-	-	-	-
Godare	475	1.79	770	430	741	*	*
Dima	-	-	-	-	-	-	-

TABLE 5.14.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

ALL HOLDINGS

STIMULANT CROPS

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)
Gambela Killil	8358	2925.64	35089	12	32442	16862.88
Zone 1	*	*	*	*	-	-
Jikawo	-	-	-	-	-	-
Itang	*	*	*	*	-	-
Gambella	-	-	-	-	-	-
Zone 2	8354	2925.61	35085	12	32442	16862.88
Abobo	*	*	*	*	-	-
Jor	-	-	-	-	-	-
Jog	*	*	*	*	-	-
Godare	8288	2925.45	35020	12	32442	16862.88
Dima	-	-	-	-	-	-

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

ALL HOLDINGS

CHAT

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	2242	38.37				1265.53	32.98
Zone 1	-	-				-	-
Jikawo	-	-				-	-
Itang	-	-				-	-
Gambella	-	-				-	-
Zone 2	2242	38.37				1265.53	32.98
Abobo	-	-				-	-
Jor	-	-				-	-
Jog	-	-				-	-
Godare	2242	38.37				1265.53	32.98
Dima	-	-				-	-

TABLE B - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

ALL HOLDINGS

COFFEE

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	8201	2873.65				15243.67	5.3
Zone 1	*	*				-	-
Jikawo	-	-				-	-
Itang	*	*				-	-
Gambella	-	-				-	-
Zone 2	8197	2873.61				15243.67	5.3
Abobo	*	*				-	-
Jor	-	-				-	-
Jog	-	-				-	-
Godare	8140	2873.48				15243.67	5.3
Dima	-	-				-	-

TABLE C - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

ALL HOLDINGS

HOPS (GESHO)

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	1993	13.63	11076	813	9146	353.68	25.95
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella	-	-	-	-	-	-	-
Zone 2	1993	13.63	11076	813	9146	353.68	25.95
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Jog	*	*	*	*	-	-	-
Godare	1985	13.61	11067	813	9146	353.68	25.99
Dima	-	-	-	-	-	-	-

TABLE 5.14.3 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

ALL HOLDINGS

OTHER PERMANENT

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)
Gambela Killil	7307	465.79	1183735	2541	6672	5272.73
Zone 1	212	1.09	221	203	186	35.82
Jikawo	27	*	27	*	-	-
Itang	87	0.55	91	165	91	26.85
Gambella	98	0.5	104	208	95	8.97
Zone 2	7096	464.69	1183514	2547	6486	5236.9
Abobo	*	*	*	*	*	*
Jor	*	*	*	*	-	-
Jog	178	0.91	224	246	224	77.36
Godare	6864	462.73	1183220	2557	6202	5032.17
Dima	-	-	-	-	-	-

TABLE A - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

ALL HOLDINGS

SUGAR CANE

Geographic Area	Number Of Holders Reporting	Area In Crop (Ha)	Total Number Of Trees	Number Of Trees Per Hectare	Number Of Trees Bearing	Production (Qt)	Yield (Qt / Ha)
Gambela Killil	4841	72.84				5272.73	72.39
Zone 1	212	1.09				35.82	32.86
Jikawo	27	*				-	-
Itang	87	0.55				26.85	48.82
Gambella	98	0.5				8.97	17.94
Zone 2	4629	71.74				5236.9	73
Abobo	*	*				*	*
Jor	*	*				-	-
Jog	178	0.91				77.36	85.01
Godare	4398	69.78				5032.17	72.11
Dima	-	-				-	-

TABLE 5.15 - CROP PRODUCTION AND PERCENT OF UTILIZATION

RURAL HOLDINGS

GAMBELA REGION

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	160626.3	74.95	7.62	12.74	-	1.42	3.27
Cereals	158554.5	75.72	7.79	10.79	0.73	1.56	3.42
Teff	*	83.84	16.16	-	-	-	-
Barley	21.21	90.92	9.08	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	124367	74.77	7.79	11.92	0.59	1.58	3.35
Sorghum	33222.08	77.48	7.74	8.28	1.12	1.64	3.75
Finger millet	537.59	83.6	5.16	9.72	-	0.29	1.23
Oats "Aja"	-	-	-	-	-	-	-
Rice	384.6	67.75	12.16	15.65	-	0.61	3.83
Pulses	1083.41	82.5	5.05	10.27	0.05	0.05	2.09
Horse beans	*	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	1081.41	82.5	5.05	10.27	0.05	0.05	2.09
Chick – peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oilseeds	988.43	52.08	7.28	38.49	0.06	0.26	1.82
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Groundnuts	177.43	75.17	7.49	14.45	-	0.11	2.78
Safflower	-	-	-	-	-	-	-
Sesame	806.58	28.99	7.14	62.45	0.13	0.41	0.89
Rapeseed	*	100	-	-	-	-	-
Vegetables	5704.04	82.07	0.7	14.3	0.19	-	2.74
Lettuce	-	-	-	-	-	-	-
Head cabbage	*	62.48	-	18.04	-	-	19.47
Ethiopian cabbage	3641.48	86.94	0.52	10.76	0.33	-	1.44
Tomatoes	1180.26	64.48	1.85	28.14	-	-	5.53
Green peppers	483.07	91.15	0.17	7.47	-	-	1.2
Red peppers	301.05	76	0.91	19.59	-	-	3.5
Swiss chard	-	-	-	-	-	-	-
Root Crops	28840.23	87.34	4.64	5.73	*	-	2.29
Beetroot	*	100	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	*	84.01	12.11	3.87	-	-	-
Potatoes	184.05	92.87	7.13	-	-	-	-
Garlic	98.19	66.66	21.32	12.02	-	-	-
Taro / Godere	17688.78	88.03	3.82	5.66	*	-	2.47
Sweet potatoes	10820.43	82.43	1.18	13.06	0.07	0.35	2.91
Permanent crops	66778.77	54.4	0.45	38.96	1.01	0.47	4.72
Avocados	-	-	-	-	-	-	-
Bananas	8634.52	53.77	0.19	41.55	-	0.02	4.48
Guavas	74.72	74.02	-	17.06	-	-	8.91
Lemons	102.68	43.53	-	43.31	-	-	13.15
Mangoes	8530.84	60.37	0.34	32.55	0.21	-	6.53
Oranges	593.1	61.15	0.99	32	-	-	5.87
Papayas	14219.07	79.44	0.01	13.66	0.05	-	6.85
Pineapple	45.19	72.92	-	24.86	-	-	2.22
Chat	1265.53	18.96	-	78.25	-	-	2.79
Coffee	14020.26	16.32	1.15	76.19	5.3	0.01	1.04
Hops	352.94	57.57	1.03	39.2	-	-	2.19
Sugar cane	5018.93	72.12	0.63	17.32	0.03	4.51	5.4

TABLE 5.15.1 - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

ZONE 1

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	30957.05	74.44	8.24	13.44	-	1.01	2.87
Cereals	30643.7	75.19	8.38	12.4	0.1	1.13	2.81
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	28786.33	75.09	8.32	12.49	0.11	1.12	2.87
Sorghum	1857.37	76.14	9.02	11.56	-	1.17	2.12
Finger millet	-	-	-	-	-	-	-
Oats "Aja"	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulses	220.47	72.2	6.87	17.48	-	0.1	3.35
Horse beans	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	220.47	72.2	6.87	17.48	-	0.1	3.35
Chick – peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oilseeds	92.89	52.2	8.57	35.79	-	-	3.44
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Groundnuts	37.15	50.01	7.02	40.67	-	-	2.31
Safflower	-	-	-	-	-	-	-
Sesame	*	55.51	10.92	28.41	-	-	5.16
Rapeseed	-	-	-	-	-	-	-
Vegetables	*	35.53	0.18	58.18	-	-	6.11
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Ethiopian cabbage	34.11	35.26	0.97	61.74	-	-	2.04
Tomatoes	*	36.82	-	56.73	-	-	6.45
Green peppers	*	25.26	-	62.75	-	-	11.99
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	5767.47	75.7	2.43	16.24	-	-	5.63
Beetroot	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-
Taro / Godere	1381.99	75.7	2.43	16.24	-	-	5.63
Sweet potatoes	4385.48	69.13	2.05	26.65	0.05	-	2.12
Permanent crops	11618.22	45.92	0.3	47.01	*	0.01	6.76
Avocados	-	-	-	-	-	-	-
Bananas	3401.33	36.97	0.11	57.53	-	0.02	5.38
Guavas	32.63	51.74	-	30.16	-	-	18.1
Lemons	*	50	-	50	-	-	-
Mangoes	5560.07	39.62	0.69	52.52	0.01	-	7.16
Oranges	*	100	-	-	-	-	-
Papayas	2586.93	63.81	0.03	28.36	-	-	7.8
Pineapple	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-
Hops	-	-	-	-	-	-	-
Sugar cane	35.82	79.38	-	17.57	-	-	3.05

TABLE 5.15.2 - CROP PRODUCTION AND PERCENT OF UTILIZATION

RURAL HOLDINGS

ZONE 2

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	129669.3	75.12	7.41	12.5	-	1.56	3.41
Cereals							
Teff	127910.8	75.9	7.59	10.26	0.93	1.7	3.62
Barley	*	83.84	16.16	-	-	-	-
Wheat	21.21	90.92	9.08	-	-	-	-
Maize	-	-	-	-	-	-	-
Sorghum	95580.65	74.61	7.52	11.63	0.84	1.81	3.59
Finger millet	31364.72	77.59	7.64	8.02	1.21	1.68	3.88
Oats "Aja"	537.59	83.6	5.16	9.72	-	0.29	1.23
Rice	-	-	-	-	-	-	-
Pulses	384.6	67.75	12.16	15.65	-	0.61	3.83
Horse beans	862.94	91.68	3.43	3.84	0.1	-	0.96
Field peas	*	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-
Chick – peas	860.94	91.68	3.43	3.84	0.1	-	0.96
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-
Neug	895.54	52.06	7.13	38.82	0.07	0.29	1.62
Linseed	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-
Safflower	140.28	78.97	7.56	10.5	-	0.12	2.85
Sesame	-	-	-	-	-	-	-
Rapeseed	750.84	26.51	6.78	65.63	0.14	0.45	0.49
Vegetables	*	100	-	-	-	-	-
Lettuce	5108.44	84.85	0.73	11.69	0.2	-	2.54
Head cabbage	-	-	-	-	-	-	-
Ethiopian cabbage	*	62.48	-	18.04	-	-	19.47
Tomatoes	3607.37	87.93	0.51	9.79	0.34	-	1.43
Green peppers	*	79.6	2.86	12.52	-	-	5.03
Red peppers	454.11	94.25	0.18	4.87	-	-	0.7
Swiss chard	301.05	76	0.91	19.59	-	-	3.5
Root Crops	-	-	-	-	-	-	-
Beetroot	23072.76	88.74	4.9	4.47	*	-	1.89
Carrot	*	100	-	-	-	-	-
Onion	-	-	-	-	-	-	-
Potatoes	*	84.01	12.11	3.87	-	-	-
Garlic	184.05	92.87	7.13	-	-	-	-
Taro / Godere	98.19	66.66	21.32	12.02	-	-	-
Sweet potatoes	16306.79	89.65	4.01	4.28	*	-	2.06
Permanent crops	6434.95	85.04	1.01	10.39	0.07	0.42	3.06
Avocados	55160.54	56.39	0.48	37.06	1.24	0.58	4.24
Bananas	-	-	-	-	-	-	-
Guavas	5233.18	61.79	0.22	33.91	-	0.02	4.05
Lemons	42.09	81.41	-	12.72	-	-	5.87
Mangoes	102.38	43.25	-	43.02	-	-	13.72
Oranges	2970.77	74.85	0.09	18.62	0.34	-	6.1
Papayas	591.97	60.81	0.99	32.28	-	-	5.92
Pineapple	11632.14	84.65	-	8.75	0.07	-	6.53
Chat	45.19	72.92	-	24.86	-	-	2.22
Coffee	1265.53	18.96	-	78.25	-	-	2.79
Hops	27941.25	16.32	1.15	76.19	5.3	0.01	1.04
Sugar cane	4983.1	71.95	0.65	17.31	0.03	4.61	5.45

TABLE 5.16 - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

GRAIN CROPS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	160626.3	74.95	7.62	12.74	-	1.42	3.27
Zone 1	30957.05	74.44	8.24	13.44	-	1.01	2.87
Jikawo	14369.87	76.13	8.91	11.59	-	1.73	1.63
Itang	11664.23	71.61	8.18	15.22	-	0.88	4.11
Gambela	4922.95	76.73	7.71	12.75	-	0.49	2.33
Zone 2	129669.3	75.12	7.41	12.5	-	1.56	3.41
Abobo	41482.05	68.65	6.93	20.57	-	1.43	2.42
Jor	7355.83	74.82	13.16	0.56	-	0.85	10.62
Gog	28998.36	66.45	11.48	13.27	-	1.28	7.53
Godare	51833.02	78.76	6.34	10.83	-	1.71	2.36

5.16.1 - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

CEREALS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	158554.5	75.72	7.79	10.79	0.73	1.56	3.42
Zone 1	30643.7	75.19	8.38	12.4	0.1	1.13	2.81
Jikawo	14352.61	75.73	9.01	11.66	0.14	1.77	1.69
Itang	11489.16	72.05	8.21	14.53	0.1	0.99	4.12
Gambela	4801.93	79.28	7.94	10.04	0.04	0.61	2.09
Zone 2	127910.8	75.9	7.59	10.26	0.93	1.7	3.62
Abobo	40649.47	73.9	7.3	13.86	0.39	1.78	2.77
Jor	7355.77	74.82	13.16	0.56	-	0.85	10.62
Gog	28955.68	65.83	11.59	13.23	0.05	1.43	7.87
Godare	50949.85	78.21	6.47	9.72	1.31	1.81	2.48

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

TEFF

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	*	83.84	16.16	-	-	-	-
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	*	83.84	16.16	-	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	83.84	16.16	-	-	-	-

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION

RURAL HOLDINGS

BARLEY

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	21.21	90.92	9.08	-	-	-	-
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	21.21	90.92	9.08	-	-	-	-
Abobo	*	-	-	-	-	-	-
Jor	*	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-
Godare	*	90.92	9.08	-	-	-	-

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION

RURAL HOLDINGS

MAIZE

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	124367	74.77	7.79	11.92	0.59	1.58	3.35
Zone 1	28786.33	75.09	8.32	12.49	0.11	1.12	2.87
Jikawo	14337.63	75.72	9.06	11.61	0.14	1.79	1.68
Itang	11189.42	71.88	8.2	14.7	0.11	0.99	4.12
Gambela	3259.27	80.48	7.45	9.42	0.05	0.38	2.21
Zone 2	95580.65	74.61	7.52	11.63	0.84	1.81	3.59
Abobo	39096.98	71.72	7.6	14.95	0.46	2.07	3.2
Jor	2382.98	76.11	13.42	0.35	-	1.15	8.98
Gog	26803.05	64.69	11.7	13.41	0.06	1.69	8.44
Godare	27297.65	77.77	6.11	10.87	1.21	1.79	2.25

TABLE D - CROP PRODUCTION AND PERCENT OF UTILIZATION

RURAL HOLDINGS

SORGHUM

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	33222.08	77.48	7.74	8.28	1.12	1.64	3.75
Zone 1	1857.37	76.14	9.02	11.56	-	1.17	2.12
Jikawo	*	76.25	3.88	17	-	-	2.88
Itang	299.74	77.52	8.55	9	-	0.9	4.03
Gambela	1542.65	75.89	9.31	11.79	-	1.27	1.75
Zone 2	31364.72	77.59	7.64	8.02	1.21	1.68	3.88
Abobo	1108.54	84.6	5.54	7.5	0.21	0.89	1.27
Jor	4972.52	73.77	12.96	0.72	-	0.6	11.94
Gog	2008.51	68.69	11	13.05	-	0.77	6.49
Godare	23275.14	78.25	6.88	8.5	1.53	1.95	2.9

TABLE E - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

FINGER MILLET

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	537.59	83.6	5.16	9.72	-	0.29	1.23
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	537.59	83.6	5.16	9.72	-	0.29	1.23
Abobo	194.49	81.48	5.57	10.67	-	0.65	1.64
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	343.1	85.31	4.84	8.95	-	-	0.9

TABLE F - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

RICE

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	384.6	67.75	12.16	15.65	-	0.61	3.83
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	384.6	67.75	12.16	15.65	-	0.61	3.83
Abobo	244.35	65.45	11.8	21.87	-	0.63	0.25
Jor	-	-	-	-	-	-	-
Gog	140.25	69.18	12.38	11.77	-	0.59	6.07
Godare	-	-	-	-	-	-	-

TABLE 5.16.2 - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

PULSES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	1083.41	82.5	5.05	10.27	0.05	0.05	2.09
Zone 1	220.47	72.2	6.87	17.48	-	0.1	3.35
Jikawo	17.26	87.3	6.19	5.79	-	0.72	-
Itang	148.21	71.67	8.05	16.52	-	0.05	3.71
Gambela	54.99	69.28	5.85	21.12	-	-	3.75
Zone 2	862.94	91.68	3.43	3.84	0.1	-	0.96
Abobo	8.46	89.63	3.27	4.43	-	-	2.66
Jor	-	-	-	-	-	-	-
Gog	7.52	88.91	5	3.48	-	-	2.61
Godare	846.96	92.51	3.36	3.68	0.13	-	0.32

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

HORSE BEANS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	*	-	-	-	-	-	-
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	*	-	-	-	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	-	-	-	-	-	-

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

HARICOT BEANS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	1081.41	82.5	5.05	10.27	0.05	0.05	2.09
Zone 1	220.47	72.2	6.87	17.48	-	0.1	3.35
Jikawo	17.26	87.3	6.19	5.79	-	0.72	-
Itang	148.21	71.67	8.05	16.52	-	0.05	3.71
Gambela	54.99	69.28	5.85	21.12	-	-	3.75
Zone 2	860.94	91.68	3.43	3.84	0.1	-	0.96
Abobo	8.46	89.63	3.27	4.43	-	-	2.66
Jor	-	-	-	-	-	-	-
Gog	7.52	88.91	5	3.48	-	-	2.61
Godare	844.96	92.51	3.36	3.68	0.13	-	0.32

TABLE 5.16.3 - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

OILSEEDS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	988.43	52.08	7.28	38.49	0.06	0.26	1.82
Zone 1	92.89	52.2	8.57	35.79	-	-	3.44
Jikawo	-	-	-	-	-	-	-
Itang	26.86	35.97	6.48	49.9	-	-	7.65
Gambela	66.03	57.05	9.2	31.56	-	-	2.18
Zone 2	895.54	52.06	7.13	38.82	0.07	0.29	1.62
Abobo	824.12	44.93	6.24	47.28	0.1	0.41	1.04
Jor	*	-	-	-	-	-	-
Gog	35.15	68.39	11.55	15.1	-	-	4.97
Godare	36.2	73.16	6.1	20.46	-	-	0.27

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

GROUNDNUTS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	177.43	75.17	7.49	14.45	-	0.11	2.78
Zone 1	37.15	50.01	7.02	40.67	-	-	2.31
Jikawo	-	-	-	-	-	-	-
Itang	24.65	31.31	5.8	55.7	-	-	7.19
Gambela	*	58.83	7.59	33.58	-	-	-
Zone 2	140.28	78.97	7.56	10.5	-	0.12	2.85
Abobo	112.8	83.88	5.42	8.78	-	0.2	1.73
Jor	*	-	-	-	-	-	-
Gog	26.4	69.13	11.61	14.09	-	-	5.17
Godare	*	87.93	6.73	5.33	-	-	-

TABLE D - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

SESAME

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	806.58	28.99	7.14	62.45	0.13	0.41	0.89
Zone 1	*	55.51	10.92	28.41	-	-	5.16
Jikawo	-	-	-	-	-	-	-
Itang	2.21	60	10	20	-	-	10
Gambela	*	55.04	11.02	29.28	-	-	4.66
Zone 2	750.84	26.51	6.78	65.63	0.14	0.45	0.49
Abobo	711.31	15.4	6.91	76.41	0.18	0.57	0.54
Jor	-	-	-	-	-	-	-
Gog	*	50	10	40	-	-	-
Godare	31.67	71.23	6.02	22.44	-	-	0.31

TABLE E - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

RAPESEED

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	*	100	-	-	-	-	-
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	*	100	-	-	-	-	-
Abobo	*	100	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-
Godare	*	-	-	-	-	-	-

TABLE 5.17 - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

VEGETABLES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	5704.04	82.07	0.7	14.3	0.19	-	2.74
Zone 1	*	35.53	0.18	58.18	-	-	6.11
Jikawo	-	-	-	-	-	-	-
Itang	20.34	31.17	-	68.83	-	-	-
Gambela	*	36.19	0.21	56.56	-	-	7.04
Zone 2	5108.44	84.85	0.73	11.69	0.2	-	2.54
Abobo	1049.77	84.58	2.08	11.1	-	-	2.24
Jor	-	-	-	-	-	-	-
Gog	*	61.43	0.97	23.82	-	-	13.78
Godare	3986.12	85.23	0.5	11.61	0.23	-	2.43

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

HEAD CABBAGE

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	*	62.48	-	18.04	-	-	19.47
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	*	62.48	-	18.04	-	-	19.47
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	62.48	-	18.04	-	-	19.47

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

ETHIOPIAN CABBAGE

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	3641.48	86.94	0.52	10.76	0.33	-	1.44
Zone 1	34.11	35.26	0.97	61.74	-	-	2.04
Jikawo	-	-	-	-	-	-	-
Itang	14	40.51	-	59.49	-	-	-
Gambela	*	30.1	1.92	63.94	-	-	4.04
Zone 2	3607.37	87.93	0.51	9.79	0.34	-	1.43
Abobo	*	87.16	-	12.84	-	-	-
Jor	-	-	-	-	-	-	-
Gog	*	50	-	40	-	-	10
Godare	3370.18	88.13	0.52	9.59	0.35	-	1.41

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

TOMATOES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	1180.26	64.48	1.85	28.14	-	-	5.53
Zone 1	*	36.82	-	56.73	-	-	6.45
Jikawo	-	-	-	-	-	-	-
Itang	*	10	-	90	-	-	-
Gambela	*	38.4	-	54.77	-	-	6.83
Zone 2	*	79.6	2.86	12.52	-	-	5.03
Abobo	*	81.54	3.07	11.69	-	-	3.7
Jor	-	-	-	-	-	-	-
Gog	*	65.03	1.27	18.73	-	-	14.97
Godare	*	-	-	-	-	-	-

TABLE D - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

GREEN PEPPERS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	483.07	91.15	0.17	7.47	-	-	1.2
Zone 1	*	25.26	-	62.75	-	-	11.99
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	*	25.26	-	62.75	-	-	11.99
Zone 2	454.11	94.25	0.18	4.87	-	-	0.7
Abobo	229.24	88.76	0.56	9.02	-	-	1.66
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	224.87	96.92	-	2.85	-	-	0.23

TABLE E - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

RED PEPPERS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	301.05	76	0.91	19.59	-	-	3.5
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	301.05	76	0.91	19.59	-	-	3.5
Abobo	37.59	86.07	2.15	11.78	-	-	-
Jor	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-
Godare	263.3	74.4	0.72	20.83	-	-	4.06

TABLE 5.18 - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

ROOT CROPS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	28840.23	87.34	4.64	5.73	*	-	2.29
Zone 1	5767.47	75.7	2.43	16.24	-	-	5.63
Jikawo	3811.27	-	-	-	-	-	-
Itang	1015.55	71.63	0.47	19.9	-	-	7.99
Gambela	940.65	81.52	5.24	10.99	-	-	2.25
Zone 2	23072.76	88.74	4.9	4.47	*	-	1.89
Abobo	3975.59	70.83	6.96	17.59	0.25	-	4.38
Jor	536.31	-	-	-	-	-	-
Gog	597.65	72.58	-	18.99	-	-	8.43
Godare	17963.21	89.22	4.92	4.09	-	-	1.77

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

BEET ROOTS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	*	100	-	-	-	-	-
Zone 1							
Jikawo	*	100	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	-	-	-	-	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	*	100	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

ONION

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	*	84.01	12.11	3.87	-	-	-
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	*	84.01	12.11	3.87	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	84.01	12.11	3.87	-	-	-

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

POTATOES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	184.05	92.87	7.13	-	-	-	-
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	184.05	92.87	7.13	-	-	-	-
Abobo	*	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-
Godare	*	92.87	7.13	-	-	-	-

TABLE D - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

GARLIC

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	98.19	66.66	21.32	12.02	-	-	-
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	98.19	66.66	21.32	12.02	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	98.19	66.66	21.32	12.02	-	-	-

TABLE E - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

TARO / 'GODERE'

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	17688.78	88.03	3.82	5.66	*	-	2.47
Zone 1	1381.99	75.7	2.43	16.24	-	-	5.63
Jikawo	*	-	-	-	-	-	-
Itang	918.16	71.63	0.47	19.9	-	-	7.99
Gambela	461.08	81.52	5.24	10.99	-	-	2.25
Zone 2	16306.79	89.65	4.01	4.28	*	-	2.06
Abobo	*	70.83	6.96	17.59	0.25	-	4.38
Jor	528.98	-	-	-	-	-	-
Gog	370.95	72.58	-	18.99	-	-	8.43
Godare	15092.27	90.21	4	3.86	-	-	1.94

TABLE F - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

SWEET POTATOES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	10820.43	82.43	1.18	13.06	0.07	0.35	2.91
Zone 1	4385.48	69.13	2.05	26.65	0.05	-	2.12
Jikawo	3808.52	61.15	2.09	33.42	-	-	3.34
Itang	97.39	59.9	-	40.1	-	-	-
Gambela	*	77.17	2.43	18.72	0.09	-	1.58
Zone 2	6434.95	85.04	1.01	10.39	0.07	0.42	3.06
Abobo	3622.9	74.37	0.6	22.35	0.23	1.33	1.13
Jor	*	-	-	-	-	-	-
Gog	221.47	81.84	0.74	5.86	-	-	11.56
Godare	2583.26	91.27	1.27	4.63	-	-	2.83

TABLE 5.19 - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

PERMANENT CROPS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	66778.77	54.4	0.45	38.96	1.01	0.47	4.72
Zone 1	11618.22	45.92	0.3	47.01	*	0.01	6.76
Jikawo	1174.97	52.85	1.25	44.27	-	-	1.64
Itang	3777.3	56.76	0.16	33.37	0.01	-	9.71
Gambela	6665.96	30.54	0.21	64.69	-	0.01	4.55
Zone 2	55160.54	56.39	0.48	37.06	1.24	0.58	4.24
Abobo	6627.08	70.29	-	25.36	0.1	-	4.25
Jor	160.49	64.13	0.54	20.11	-	-	15.22
Gog	2866	67.48	0.05	18.54	0.91	-	13.03
Godare	45506.97	54.83	0.54	38.96	1.34	0.66	3.68

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

BANANAS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	8634.52	53.77	0.19	41.55	-	0.02	4.48
Zone 1	3401.33	36.97	0.11	57.53	-	0.02	5.38
Jikawo	82.93	49.85	-	49.28	-	-	0.87
Itang	944.46	48.56	0.24	43.58	-	-	7.61
Gambela	2373.95	24.95	-	71.05	-	0.03	3.97
Zone 2	5233.18	61.79	0.22	33.91	-	0.02	4.05
Abobo	-	-	-	-	-	-	-
Jor	12.82	63.75	-	26.25	-	-	10
Gog	95.89	44.9	-	41.46	-	-	13.64
Godare	5124.47	62.33	0.23	33.7	-	0.02	3.72

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

GUAVAS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	74.72	74.02	-	17.06	-	-	8.91
Zone 1	32.63	51.74	-	30.16	-	-	18.1
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	32.63	51.74	-	30.16	-	-	18.1
Zone 2	42.09	81.41	-	12.72	-	-	5.87
Abobo	*	40	-	47.67	-	-	12.33
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	33.5	92.61	-	3.26	-	-	4.12

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

LEMONS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	102.68	43.53	-	43.31	-	-	13.15
Zone 1	*	50	-	50	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	*	50	-	50	-	-	-
Zone 2	102.38	43.25	-	43.02	-	-	13.72
Abobo	85.57	27.35	-	66.8	-	-	5.85
Jor	-	-	-	-	-	-	-
Gog	*	64.33	-	8.67	-	-	27
Godare	15.43	52.36	-	29.75	-	-	17.89

TABLE D - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

MANGOES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	8530.84	60.37	0.34	32.55	0.21	-	6.53
Zone 1	5560.07	39.62	0.69	52.52	0.01	-	7.16
Jikawo	300.32	56.61	3.49	38.96	-	-	0.93
Itang	1368.67	49.79	0.19	38.19	0.03	-	11.8
Gambela	3891.08	23.57	0.53	72.43	-	-	3.47
Zone 2	2970.77	74.85	0.09	18.62	0.34	-	6.1
Abobo	709.74	54.71	-	42.41	-	-	2.88
Jor	98.84	64.42	0.96	15.38	-	-	19.23
Gog	608.71	59.91	0.19	21.94	3.14	-	14.81
Godare	1553.48	77.99	0.07	16.91	-	-	5.03

TABLE E - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

ORANGES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	593.1	61.15	0.99	32	-	-	5.87
Zone 1	*	100	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	100	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	591.97	60.81	0.99	32.28	-	-	5.92
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	591.97	60.81	0.99	32.28	-	-	5.92

TABLE F - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

PAPPAYAS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	14219.07	79.44	0.01	13.66	0.05	-	6.85
Zone 1	2586.93	63.81	0.03	28.36	-	-	7.8
Jikawo	791.72	51.12	-	46.35	-	-	2.53
Itang	1436.2	71.01	0.04	19.49	-	-	9.46
Gambela	359.02	54.64	0.02	37.54	-	-	7.8
Zone 2	11632.14	84.65	-	8.75	0.07	-	6.53
Abobo	5695.82	77.4	-	18.39	0.13	-	4.08
Jor	*	-	-	-	-	-	-
Gog	2082.65	73.15	-	13.76	0.22	-	12.86
Godare	3804.83	90.77	-	3.57	-	-	5.67

TABLE G - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

PINE APPLES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	45.19	72.92	-	24.86	-	-	2.22
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	45.19	72.92	-	24.86	-	-	2.22
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	45.19	72.92	-	24.86	-	-	2.22

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

CHAT

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	1265.53	18.96	-	78.25	-	-	2.79
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	1265.53	18.96	-	78.25	-	-	2.79
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	1265.53	18.96	-	78.25	-	-	2.79

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

COFFEE

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	14020.26	16.32	1.15	76.19	5.3	0.01	1.04
Zone 1	-	-	-	-	-	-	-
Jikawo	-						
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	14020.26	16.32	1.15	76.19	5.3	0.01	1.04
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	14020.26	16.32	1.15	76.19	5.3	0.01	1.04

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

HOPS / 'GESHO'

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	352.94	57.57	1.03	39.2	-	-	2.19
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	352.94	57.57	1.03	39.2	-	-	2.19
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	352.94	57.57	1.03	39.2	-	-	2.19

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

SUGAR CANE

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil	5018.93	72.12	0.63	17.32	0.03	4.51	5.4
Zone 1	35.82	72.12	0.63	17.32	0.03	4.51	5.4
Jikawo	-	-	-	-	-	-	-
Itang	26.85	79.38	-	17.57	-	-	3.05
Gambela	8.97	-	-	-	-	-	-
Zone 2	4983.1	80.44	-	11.19	-	-	8.37
Abobo	*	78.89	-	20.5	-	-	0.61
Jor	-	71.95	0.65	17.31	0.03	4.61	5.45
Gog	77.36	28.55	-	71.45	-	-	-
Godare	4778.37	-	-	-	-	-	-

TABLE 5.20 - CROP PRODUCTION AND PERCENT OF UTILIZATION
URBAN HOLDINGS

GAMBELA REGION

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	5062.92	73.23	9.07	12.28	0.73	1.79	2.92
Cereals	4729.3	78.55	9.23	6.27	0.85	2.08	3.01
Teff	-	-	-	-	-	-	-
Barley	0.16	80	5	15	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	3155.17	77.97	9.88	6.15	0.6	2.22	3.18
Sorghum	1482.56	79.96	7.59	6.6	1.49	1.75	2.62
Finger millet	*	90	10	-	-	-	-
Oats "Aja"	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulses	*	77.21	8.71	9.68	-	-	4.4
Horse beans	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	*	77.21	8.71	9.68	-	-	4.4
Chick – peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oilseeds	310.61	39.29	8.03	50.45	-	-	2.24
Neug	-	-	-	-	-	-	-
Linseed	*	86.67	3.33	8.33	-	-	1.67
Groundnuts	294.31	27.46	9.04	63.1	-	-	0.4
Safflower	-	-	-	-	-	-	-
Sesame	10.7	40.74	8.4	42.21	-	-	8.65
Rapeseed	-	-	-	-	-	-	-
Vegetables	80.88	78.52	9.97	9.2	0.61	-	1.7
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Ethiopian cabbage	*	52.5	-	40	5	-	2.5
Tomatoes	*	87.21	3.99	6.63	-	-	2.17
Green peppers	3.74	26.69	50.55	19.39	2.53	-	0.84
Red peppers	*	100	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	35.56	95.37	2.25	1.88	0.25	-	0.25
Beetroot	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	1.84	93.36	-	5.08	0.78	-	0.78
Potatoes	*	98.9	-	1.1	-	-	-
Garlic	-	-	-	-	-	-	-
Taro / Godere	*	93.23	6.77	-	-	-	-
Sweet potatoes	*	100	-	-	-	-	-
Permanent crops	3548.27	35.22	0.26	53.68	4.26	0.29	6.29
Avocados	-	-	-	-	-	-	-
Bananas	*	44.05	-	46.86	-	-	9.09
Guavas	0.25	50	-	50	-	-	-
Lemons	-	-	-	-	-	-	-
Mangoes	214.4	51.99	-	33.53	-	-	14.49
Oranges	12.16	60.89	-	21.24	-	2.74	15.13
Papayas	1427.46	82.65	-	2.75	-	-	14.6
Pineapple	*	25	-	75	-	-	-
Chat	-	-	-	-	-	-	-
Coffee	1223.41	18.82	-	71.99	7.47	0.06	1.67
Hops	*	100	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-

TABLE 5.20.1 - CROP PRODUCTION AND PERCENT OF UTILIZATION
URBAN HOLDINGS

ZONE 1

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	3207.31	70.73	9.44	14.78	0.02	1.88	3.14
Cereals	2881.74	78.28	9.89	6.1	0.03	2.36	3.33
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	2582.3	77.63	10.26	6.33	0.03	2.47	3.28
Sorghum	208.03	81.3	8.1	5.08	-	1.86	3.66
Finger millet	*	90	10	-	-	-	-
Oats "Aja"	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulses	*	77.21	8.71	9.68	-	-	4.4
Horse beans	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	*	77.21	8.71	9.68	-	-	4.4
Chick – peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oilseeds	302.56	39.12	7.6	50.99	-	-	2.29
Neug	-	-	-	-	-	-	-
Linseed	*	86.67	3.33	8.33	-	-	1.67
Groundnuts	287.86	26.79	8.42	64.39	-	-	0.41
Safflower	-	-	-	-	-	-	-
Sesame	9.1	40.98	8.37	41.81	-	-	8.85
Rapeseed	-	-	-	-	-	-	-
Vegetables	*	78.95	13.26	6	-	-	1.8
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Ethiopian cabbage	*	-	-	-	-	-	-
Tomatoes	*	86.92	4.14	6.88	-	-	2.07
Green peppers	*	25	75	-	-	-	-
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	*	100	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	*	100	-	-	-	-	-
Potatoes	*	100	-	-	-	-	-
Garlic	-	-	-	-	-	-	-
Taro / Godere	-	-	-	-	-	-	-
Sweet potatoes	*	100	-	-	-	-	-
Permanent crops	402.33	46.8	-	37.38	-	-	15.82
Avocados	-	-	-	-	-	-	-
Bananas	*	25	-	54.36	-	-	20.64
Guavas	0.25	50	-	50	-	-	-
Lemons	-	-	-	-	-	-	-
Mangoes	143.75	31.87	-	45.6	-	-	22.53
Oranges	-	-	-	-	-	-	-
Papayas	*	91.23	-	8.77	-	-	-
Pineapple	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-
Hops	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-

TABLE 5.20.2 - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

ZONE 2

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	1855.61	78.69	8.25	6.78	2.28	1.57	2.42
Cereals	1847.56	79.02	8.07	6.57	2.3	1.59	2.44
Teff	-	-	-	-	-	-	-
Barley	0.16	80	5	15	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	572.87	78.92	8.83	5.65	2.21	1.5	2.89
Sorghum	1274.53	79.13	7.27	7.54	2.41	1.69	1.97
Finger millet	-	-	-	-	-	-	-
Oats "Aja"	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulses	-	-	-	-	-	-	-
Horse beans	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-
Chick – peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oilseeds	*	46.23	26.23	27.55	-	-	-
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Groundnuts	*	50	30	20	-	-	-
Safflower	-	-	-	-	-	-	-
Sesame	1.6	30	10	60	-	-	-
Rapeseed	-	-	-	-	-	-	-
Vegetables	8.74	77.29	0.47	18.45	2.37	-	1.42
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Ethiopian cabbage	1.03	52.5	-	40	5	-	2.5
Tomatoes	0.75	95	-	-	-	-	5
Green peppers	2.95	30	2.5	57.5	7.5	-	2.5
Red peppers	*	100	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	9.83	87.91	5.88	4.9	0.65	-	0.65
Beetroot	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	0.9	15	-	65	10	-	10
Potatoes	1	90	-	10	-	-	-
Garlic	-	-	-	-	-	-	-
Taro / Godere	*	93.23	6.77	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-
Permanent crops	3145.95	34.14	0.28	55.2	4.66	0.32	5.4
Avocados	-	-	-	-	-	-	-
Bananas	*	52.26	-	43.63	-	-	4.12
Guavas	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-
Mangoes	70.66	58.21	-	29.79	-	-	12
Oranges	12.16	60.89	-	21.24	-	2.74	15.13
Papayas	*	78.73	-	-	-	-	21.27
Pineapple	*	25	-	75	-	-	-
Chat	-	-	-	-	-	-	-
Coffee	1223.41	18.82	-	71.99	7.47	0.06	1.67
Hops	*	100	-	-	-	-	-
Enset	-	-	-	-	-	-	-
Sugar cane							

TABLE 5.21 - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

GRAIN CROPS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	5062.92	73.23	9.07	12.28	0.73	1.79	2.92
Zone 1.	3207.31	70.73	9.44	14.78	0.02	1.88	3.14
Itang	186.11	77.44	10.3	7.17	-	3.08	2
Gambella. . . .	3021.21	68.34	9.13	17.49	0.03	1.46	3.55
Zone 2.	1855.61	78.69	8.25	6.78	2.28	1.57	2.42
Jog	408.29	80.22	11.73	4.9	-	0.55	2.6
Godare.	1437.14	78.28	5.08	7.8	4.12	2.39	2.33
Dima.	10.18	45.71	25.71	26.43	0.71	1.43	-

TABLE 5.21.1 - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

CEREALS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	4729.3	78.55	9.23	6.27	0.85	2.08	3.01
Zone 1.	2881.74	78.28	9.89	6.1	0.03	2.36	3.33
Itang	186.11	77.44	10.3	7.17	-	3.08	2
Gambella. . . .	2695.63	78.69	9.69	5.58	0.04	2.01	3.99
Zone 2.	1847.56	79.02	8.07	6.57	2.3	1.59	2.44
Jog	401.84	80.79	11.38	4.61	-	0.56	2.65
Godare.	1437.14	78.28	5.08	7.8	4.12	2.39	2.33
Dima.	8.58	48.33	28.33	20.83	0.83	1.67	-

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

BARLEY

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	0.16	80	5	15	-	-	-
Zone 1.	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	-	-	-	-	-	-	-
Zone 2.	0.16	80	5	15	-	-	-
Jog	-	-	-	-	-	-	-
Godare.	-	-	-	-	-	-	-
Dima.	0.16	80	5	15	-	-	-

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

MAIZE

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	3155.17	77.97	9.88	6.15	0.6	2.22	3.18
Zone 1.	2582.3	77.63	10.26	6.33	0.03	2.47	3.28
Itang	162.08	77.82	11.38	6.22	-	3.04	1.54
Gambella. . . .	2420.23	77.54	9.67	6.38	0.05	2.18	4.19
Zone 2.	572.87	78.92	8.83	5.65	2.21	1.5	2.89
Jog	83.28	80.05	11.71	4.15	-	0.52	3.57
Godare.	484.56	78.6	4.43	7.19	4.95	2.69	2.15
Dima.	5.02	36.67	45	16.67	-	1.67	-

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

SORGHUM

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	1482.56	79.96	7.59	6.6	1.49	1.75	2.62
Zone 1.	208.03	81.3	8.1	5.08	-	1.86	3.66
Itang	*	75	3.33	13.33	-	3.33	5
Gambella. . . .	184	83.51	9.77	2.19	-	1.34	3.19
Zone 2.	1274.53	79.13	7.27	7.54	2.41	1.69	1.97
Jog	318.56	82.17	10.77	5.47	-	0.64	0.96
Godare.	952.57	78.05	5.55	8.24	3.53	2.17	2.47
Dima.	3.4	50	15	30	2.5	2.5	-

TABLE D - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

FINGER MILLET

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	*	90	10	-	-	-	-
Zone 1.	*	90	10	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	*	90	10	-	-	-	-
Zone 2.	-	-	-	-	-	-	-
Jog	-	-	-	-	-	-	-
Godare.	-	-	-	-	-	-	-
Dima.	-	-	-	-	-	-	-

TABLE 5.21.2 - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

PULSES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	*	77.21	8.71	9.68	-	-	4.4
Zone 1.	*	77.21	8.71	9.68	-	-	4.4
Itang	-	-	-	-	-	-	-
Gambella. . . .	*	77.21	8.71	9.68	-	-	4.4
Zone 2.	-	-	-	-	-	-	-
Jog	-	-	-	-	-	-	-
Godare.	-	-	-	-	-	-	-
Dima.	-	-	-	-	-	-	-

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

HARICOT BEANS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	*	77.21	8.71	9.68	-	-	4.4
Zone 1.	*	77.21	8.71	9.68	-	-	4.4
Itang	-	-	-	-	-	-	-
Gambella. . . .	*	77.21	8.71	9.68	-	-	4.4
Zone 2.	-	-	-	-	-	-	-
Jog	-	-	-	-	-	-	-
Godare.	-	-	-	-	-	-	-
Dima.	-	-	-	-	-	-	-

TABLE 5.21.3 - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

OILSEEDS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	310.61	39.29	8.03	50.45	-	-	2.24
Zone 1.	302.56	39.12	7.6	50.99	-	-	2.29
Itang	-	-	-	-	-	-	-
Gambella. . . .	302.56	39.12	7.6	50.99	-	-	2.29
Zone 2.	*	46.23	26.23	27.55	-	-	-
Jog	*	50	30	20	-	-	-
Godare.	-	-	-	-	-	-	-
Dima.	1.6	30	10	60	-	-	-

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

LINSEED

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	*	86.67	3.33	8.33	-	-	1.67
Zone 1.	*	86.67	3.33	8.33	-	-	1.67
Itang	-	-	-	-	-	-	-
Gambella. . . .	*	86.67	3.33	8.33	-	-	1.67
Zone 2.	-	-	-	-	-	-	-
Jog	-	-	-	-	-	-	-
Godare.	-	-	-	-	-	-	-
Dima.	-	-	-	-	-	-	-

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

GROUNDNUTS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	294.31	27.46	9.04	63.1	-	-	0.4
Zone 1.	287.86	26.79	8.42	64.39	-	-	0.41
Itang	-	-	-	-	-	-	-
Gambella. . . .	287.86	26.79	8.42	64.39	-	-	0.41
Zone 2.	*	50	30	20	-	-	-
Jog	*	50	30	20	-	-	-
Godare.	-	-	-	-	-	-	-
Dima.	-	-	-	-	-	-	-

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

SESAME

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	10.7	40.74	8.4	42.21	-	-	8.65
Zone 1.	9.1	40.98	8.37	41.81	-	-	8.85
Itang	-	-	-	-	-	-	-
Gambella. . . .	9.1	40.98	8.37	41.81	-	-	8.85
Zone 2.	1.6	30	10	60	-	-	-
Jog	-	-	-	-	-	-	-
Godare.	-	-	-	-	-	-	-
Dima.	1.6	30	10	60	-	-	-

TABLE 5.22 - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

VEGETABLES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	80.88	78.52	9.97	9.2	0.61	-	1.7
Zone 1.	*	78.95	13.26	6	-	-	1.8
Itang	-	-	-	-	-	-	-
Gambella. . . .	*	78.95	13.26	6	-	-	1.8
Zone 2.	8.74	77.29	0.47	18.45	2.37	-	1.42
Jog	-	-	-	-	-	-	-
Godare.	*	100	-	-	-	-	-
Dima.	4.73	52	1	39	5	-	3

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

ETHIOPIAN CABBAGE

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	*	52.5	-	40	5	-	2.5
Zone 1.	*	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	*	-	-	-	-	-	-
Zone 2.	1.03	52.5	-	40	5	-	2.5
Jog	-	-	-	-	-	-	-
Godare.	-	-	-	-	-	-	-
Dima.	1.03	52.5	-	40	5	-	2.5

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

TOMATOES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	*	87.21	3.99	6.63	-	-	2.17
Zone 1.	*	86.92	4.14	6.88	-	-	2.07
Itang	-	-	-	-	-	-	-
Gambella. . . .	*	86.92	4.14	6.88	-	-	2.07
Zone 2.	0.75	95	-	-	-	-	5
Jog	-	-	-	-	-	-	-
Godare.	-	-	-	-	-	-	-
Dima.	0.75	95	-	-	-	-	5

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

GREEN PEPPERS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	3.74	26.69	50.55	19.39	2.53	-	0.84
Zone 1.	*	25	75	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	*	25	75	-	-	-	-
Zone 2.	2.95	30	2.5	57.5	7.5	-	2.5
Jog	-	-	-	-	-	-	-
Godare.	-	-	-	-	-	-	-
Dima.	2.95	30	2.5	57.5	7.5	-	2.5

TABLE D - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

RED PEPPERS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	*	100	-	-	-	-	-
Zone 1.	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	-	-	-	-	-	-	-
Zone 2.	*	100	-	-	-	-	-
Jog	-	-	-	-	-	-	-
Godare.	*	100	-	-	-	-	-
Dima.	-	-	-	-	-	-	-

TABLE 5.23 - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

ROOT CROPS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	35.56	95.37	2.25	1.88	0.25	-	0.25
Zone 1.	*	100	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	*	100	-	-	-	-	-
Zone 2.	9.83	87.91	5.88	4.9	0.65	-	0.65
Jog	*	100	-	-	-	-	-
Godare.	*	90	10	-	-	-	-
Dima.	1.9	52.5	-	37.5	5	-	5

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

ONION

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	1.84	93.36	-	5.08	0.78	-	0.78
Zone 1.	*	100	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	*	100	-	-	-	-	-
Zone 2.	0.9	15	-	65	10	-	10
Jog	-	-	-	-	-	-	-
Godare.	-	-	-	-	-	-	-
Dima.	0.9	15	-	65	10	-	10

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

POTATOES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	*	98.9	-	1.1	-	-	-
Zone 1.	*	100	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	*	100	-	-	-	-	-
Zone 2.	1	90	-	10	-	-	-
Jog	-	-	-	-	-	-	-
Godare.	-	-	-	-	-	-	-
Dima.	1	90	-	10	-	-	-

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

TARO/GODERE

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	*	93.23	6.77	-	-	-	-
Zone 1.	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	-	-	-	-	-	-	-
Zone 2.	*	93.23	6.77	-	-	-	-
Jog	*	100	-	-	-	-	-
Godare.	*	90	10	-	-	-	-
Dima.	-	-	-	-	-	-	-

TABLE D - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

SWEET POTATOES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	*	100	-	-	-	-	-
Zone 1.	*	100	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	*	100	-	-	-	-	-
Zone 2.	-	-	-	-	-	-	-
Jog	-	-	-	-	-	-	-
Godare.	-	-	-	-	-	-	-
Dima.	-	-	-	-	-	-	-

TABLE 5.24 - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

PERMANENT CROPS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	3548.27	35.22	0.26	53.68	4.26	0.29	6.29
Zone 1.	402.33	46.8	-	37.38	-	-	15.82
Itang	-	-	-	-	-	-	-
Gambella. . . .	402.33	46.8	-	37.38	-	-	15.82
Zone 2.	3145.95	34.14	0.28	55.2	4.66	0.32	5.4
Jog	*	62.87	-	34.71	-	-	2.43
Godare.	2188.96	31.65	0.31	56.97	5.06	0.35	5.66
Dima.	-	-	-	-	-	-	-

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

BANANAS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	*	44.05	-	46.86	-	-	9.09
Zone 1.	*	25	-	54.36	-	-	20.64
Itang	-	-	-	-	-	-	-
Gambella. . . .	*	25	-	54.36	-	-	20.64
Zone 2.	*	52.26	-	43.63	-	-	4.12
Jog	-	-	-	-	-	-	-
Godare.	*	52.26	-	43.63	-	-	4.12
Dima.	-	-	-	-	-	-	-

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

GUAVAS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	0.25	50	-	50	-	-	-
Zone 1.	0.25	50	-	50	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	0.25	50	-	50	-	-	-
Zone 2.	-	-	-	-	-	-	-
Jog	-	-	-	-	-	-	-
Godare.	-	-	-	-	-	-	-
Dima.	-	-	-	-	-	-	-

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

MANGOES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	214.4	51.99	-	33.53	-	-	14.49
Zone 1.	143.75	31.87	-	45.6	-	-	22.53
Itang	-	-	-	-	-	-	-
Gambella. . . .	143.75	31.87	-	45.6	-	-	22.53
Zone 2.	70.66	58.21	-	29.79	-	-	12
Jog	*	53.24	-	43.7	-	-	3.06
Godare.	55.11	61.09	-	21.71	-	-	17.2
Dima.	-	-	-	-	-	-	-

TABLE D - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

ORANGES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	12.16	60.89	-	21.24	-	2.74	15.13
Zone 1.	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	-	-	-	-	-	-	-
Zone 2.	12.16	60.89	-	21.24	-	2.74	15.13
Jog	-	-	-	-	-	-	-
Godare.	12.16	60.89	-	21.24	-	2.74	15.13
Dima.	-	-	-	-	-	-	-

TABLE E - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

PAPAYAS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	1427.46	82.65	-	2.75	-	-	14.6
Zone 1.	*	91.23	-	8.77	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	*	91.23	-	8.77	-	-	-
Zone 2.	*	78.73	-	-	-	-	21.27
Jog	*	100	-	-	-	-	-
Godare.	*	69.25	-	-	-	-	30.75
Dima.	-	-	-	-	-	-	-

TABLE F - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

PINE APPLES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	*	25	-	75	-	-	-
Zone 1.	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	-	-	-	-	-	-	-
Zone 2.	*	25	-	75	-	-	-
Jog	-	-	-	-	-	-	-
Godare.	*	25	-	75	-	-	-
Dima.	-	-	-	-	-	-	-

TABLE G- CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

COFFEE

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	1223.41	18.82	-	71.99	7.47	0.06	1.67
Zone 1.	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	-	-	-	-	-	-	-
Zone 2.	1223.41	18.82	-	71.99	7.47	0.06	1.67
Jog	-	-	-	-	-	-	-
Godare.	1223.41	18.82	-	71.99	7.47	0.06	1.67
Dima.	-	-	-	-	-	-	-

TABLE H - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

HOPS / 'GESHO'

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela Killil. .	*	100	-	-	-	-	-
Zone 1.	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambella. . . .	-	-	-	-	-	-	-
Zone 2.	*	100	-	-	-	-	-
Jog	-	-	-	-	-	-	-
Godare.	*	100	-	-	-	-	-
Dima.	-	-	-	-	-	-	-

TABLE 5.25 - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	165689.2	74.95	7.62	12.74	-	1.42	3.27
Cereals	163283.8	75.72	7.79	10.79	0.73	1.56	3.42
Teff	*	83.84	16.16	-	-	-	-
Barley	21.37	90.92	9.08	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	127522.2	74.77	7.79	11.92	0.59	1.58	3.35
Sorghum	34704.64	77.48	7.74	8.28	1.12	1.64	3.75
Finger millet	629	83.6	5.16	9.72	-	0.29	1.23
Oats "Aja"	-	-	-	-	-	-	-
Rice	384.6	67.75	12.16	15.65	-	0.61	3.83
Pulses	1106.42	82.5	5.05	10.27	0.05	0.05	2.09
Horse beans	*	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	1104.42	82.5	5.05	10.27	0.05	0.05	2.09
Chick – peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oilseeds	1299.04	52.08	7.28	38.49	0.06	0.26	1.82
Neug	-	-	-	-	-	-	-
Linseed	*	-	-	-	-	-	-
Groundnuts	471.74	75.17	7.49	14.45	-	0.11	2.78
Safflower	-	-	-	-	-	-	-
Sesame	817.28	28.99	7.14	62.45	0.13	0.41	0.89
Rapeseed	*	100	-	-	-	-	-
Vegetables	5784.92	82.07	0.7	14.3	0.19	-	2.74
Lettuce	-	-	-	-	-	-	-
Head cabbage	*	62.48	-	18.04	-	-	19.47
Ethiopian cabbage	3650.88	86.94	0.52	10.76	0.33	-	1.44
Tomatoes	1243.99	64.48	1.85	28.14	-	-	5.53
Green peppers	486.81	91.15	0.17	7.47	-	-	1.2
Red peppers	305.06	76	0.91	19.59	-	-	3.5
Swiss chard	-	-	-	-	-	-	-
Root Crops	28875.79	87.34	4.64	5.73	*	-	2.29
Beetroot	*	100	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	*	84.01	12.11	3.87	-	-	-
Potatoes	202.73	92.87	7.13	-	-	-	-
Garlic	98.19	66.66	21.32	12.02	-	-	-
Taro / Godere	17696.71	88.03	3.82	5.66	*	-	2.47
Sweet potatoes	10827.54	82.43	1.18	13.06	0.07	0.35	2.91
Permanent crops	70327.04	54.4	0.45	38.96	1.01	0.47	4.72
Avocados	-	-	-	-	-	-	-
Bananas	8969.18	53.77	0.19	41.55	-	0.02	4.48
Guavas	74.97	74.02	-	17.06	-	-	8.91
Lemons	102.68	43.53	-	43.31	-	-	13.15
Mangoes	8745.24	60.37	0.34	32.55	0.21	-	6.53
Oranges	605.26	61.15	0.99	32	-	-	5.87
Papayas	15646.53	79.44	0.01	13.66	0.05	-	6.85
Pineapple	*	72.92	-	24.86	-	-	2.22
Chat	1265.53	18.96	-	78.25	-	-	2.79
Coffee	15243.67	16.32	1.15	76.19	5.3	0.01	1.04
Hops	353.68	57.57	1.03	39.2	-	-	2.19
Sugar cane	5272.73	72.12	0.63	17.32	0.03	4.51	5.4

TABLE 5.25.1 - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

ZONE 1

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	34164.36	74.44	8.24	13.44	-	1.01	2.87
Cereals	33525.44	75.19	8.38	12.4	0.1	1.13	2.81
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	31368.63	75.09	8.32	12.49	0.11	1.12	2.87
Sorghum	2065.4	76.14	9.02	11.56	-	1.17	2.12
Finger millet	*	-	-	-	-	-	-
Oats "Aja"	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulses	243.48	72.2	6.87	17.48	-	0.1	3.35
Horse beans	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	243.48	72.2	6.87	17.48	-	0.1	3.35
Chick – peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oilseeds	395.45	52.2	8.57	35.79	-	-	3.44
Neug	-	-	-	-	-	-	-
Linseed	*	-	-	-	-	-	-
Groundnuts	325.01	50.01	7.02	40.67	-	-	2.31
Safflower	-	-	-	-	-	-	-
Sesame	64.83	55.51	10.92	28.41	-	-	5.16
Rapeseed	-	-	-	-	-	-	-
Vegetables	667.73	35.53	0.18	58.18	-	-	6.11
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Ethiopian cabbage	42.48	35.26	0.97	61.74	-	-	2.04
Tomatoes	*	36.82	-	56.73	-	-	6.45
Green peppers	29.75	25.26	-	62.75	-	-	11.99
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	5793.2	75.7	2.43	16.24	-	-	5.63
Beetroot	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	*	-	-	-	-	-	-
Potatoes	*	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-
Taro / Godere	1381.99	75.7	2.43	16.24	-	-	5.63
Sweet potatoes	4392.59	69.13	2.05	26.65	0.05	-	2.12
Permanent crops	12020.55	45.92	0.3	47.01	*	0.01	6.76
Avocados	-	-	-	-	-	-	-
Bananas	3541.8	36.97	0.11	57.53	-	0.02	5.38
Guavas	32.88	51.74	-	30.16	-	-	18.1
Lemons	*	50	-	50	-	-	-
Mangoes	5703.82	39.62	0.69	52.52	0.01	-	7.16
Oranges	*	100	-	-	-	-	-
Papayas	2704.8	63.81	0.03	28.36	-	-	7.8
Pineapple	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-
Hops	-	-	-	-	-	-	-
Sugar cane	35.82	79.38	-	17.57	-	-	3.05

TABLE 5.25.2 - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

ZONE 2

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	131524.9	75.12	7.41	12.5	-	1.56	3.41
Cereals	129758.3	75.9	7.59	10.26	0.93	1.7	3.62
Teff	*	83.84	16.16	-	-	-	-
Barley	21.37	90.92	9.08	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	96153.52	74.61	7.52	11.63	0.84	1.81	3.59
Sorghum	32639.25	77.59	7.64	8.02	1.21	1.68	3.88
Finger millet	537.59	83.6	5.16	9.72	-	0.29	1.23
Oats "Aja"	-	-	-	-	-	-	-
Rice	384.6	67.75	12.16	15.65	-	0.61	3.83
Pulses	862.94	91.68	3.43	3.84	0.1	-	0.96
Horse beans	*	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	860.94	91.68	3.43	3.84	0.1	-	0.96
Chick – peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oilseeds	903.59	52.06	7.13	38.82	0.07	0.29	1.62
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Groundnuts	146.73	78.97	7.56	10.5	-	0.12	2.85
Safflower	-	-	-	-	-	-	-
Sesame	752.44	26.51	6.78	65.63	0.14	0.45	0.49
Rapeseed	*	100	-	-	-	-	-
Vegetables	5117.18	84.85	0.73	11.69	0.2	-	2.54
Lettuce	-	-	-	-	-	-	-
Head cabbage	*	62.48	-	18.04	-	-	19.47
Ethiopian cabbage	3608.4	87.93	0.51	9.79	0.34	-	1.43
Tomatoes	*	79.6	2.86	12.52	-	-	5.03
Green peppers	457.06	94.25	0.18	4.87	-	-	0.7
Red peppers	305.06	76	0.91	19.59	-	-	3.5
Swiss chard	-	-	-	-	-	-	-
Root Crops	23082.59	88.74	4.9	4.47	*	-	1.89
Beetroot	*	100	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	*	84.01	12.11	3.87	-	-	-
Potatoes	185.05	92.87	7.13	-	-	-	-
Garlic	98.19	66.66	21.32	12.02	-	-	-
Taro / Godere	16314.72	89.65	4.01	4.28	*	-	2.06
Sweet potatoes	6434.95	85.04	1.01	10.39	0.07	0.42	3.06
Permanent crops	58306.49	56.39	0.48	37.06	1.24	0.58	4.24
Avocados	-	-	-	-	-	-	-
Bananas	5427.37	61.79	0.22	33.91	-	0.02	4.05
Guavas	42.09	81.41	-	12.72	-	-	5.87
Lemons	102.38	43.25	-	43.02	-	-	13.72
Mangoes	3041.43	74.85	0.09	18.62	0.34	-	6.1
Oranges	604.13	60.81	0.99	32.28	-	-	5.92
Papayas	12941.74	84.65	-	8.75	0.07	-	6.53
Pineapple	*	72.92	-	24.86	-	-	2.22
Chat	1265.53	18.96	-	78.25	-	-	2.79
Coffee	29164.66	16.32	1.15	76.19	5.3	0.01	1.04
Hops	353.68	57.57	1.03	39.2	-	-	2.19
Sugar cane	5236.9	71.95	0.65	17.31	0.03	4.61	5.45

TABLE 5.26 - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

GRAIN CROPS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	165689.2	74.95	7.62	12.74	-	1.42	3.27
Zone 1	34164.36	74.44	8.24	13.44	-	1.01	2.87
Jikawo	-	76.13	8.91	11.59	-	1.73	1.63
Itang	11850.34	71.61	8.18	15.22	-	0.88	4.11
Gambela	7944.16	76.73	7.71	12.75	-	0.49	2.33
Zone 2	131524.9	75.12	7.41	12.5	-	1.56	3.41
Abobo	-	68.65	6.93	20.57	-	1.43	2.42
Jor	-	74.82	13.16	0.56	-	0.85	10.62
Gog	29406.65	66.45	11.48	13.27	-	1.28	7.53
Godare	53270.16	78.76	6.34	10.83	-	1.71	2.36
Dima	10.18	-	-	-	-	-	-

TABLE 5.26.1 - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

CEREALS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	163283.8	75.72	7.79	10.79	0.73	1.56	3.42
Zone 1	33525.44	75.19	8.38	12.4	0.1	1.13	2.81
Jikawo	-	75.73	9.01	11.66	0.14	1.77	1.69
Itang	11675.27	72.05	8.21	14.53	0.1	0.99	4.12
Gambela	7497.56	79.28	7.94	10.04	0.04	0.61	2.09
Zone 2	129758.3	75.9	7.59	10.26	0.93	1.7	3.62
Abobo	-	73.9	7.3	13.86	0.39	1.78	2.77
Jor	-	74.82	13.16	0.56	-	0.85	10.62
Gog	29357.52	65.83	11.59	13.23	0.05	1.43	7.87
Godare	52386.99	78.21	6.47	9.72	1.31	1.81	2.48
Dima	8.58	-	-	-	-	-	-

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

TEFF

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	*	83.84	16.16	-	-	-	-
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	*	83.84	16.16	-	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	83.84	16.16	-	-	-	-
Dima	-	-	-	-	-	-	-

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

BARLEY

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	21.37	90.92	9.08	-	-	-	-
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	21.37	90.92	9.08	-	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-
Godare	*	90.92	9.08	-	-	-	-
Dima	0.16	-	-	-	-	-	-

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

MAIZE

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	127522.2	74.77	7.79	11.92	0.59	1.58	3.35
Zone 1	31368.63	75.09	8.32	12.49	0.11	1.12	2.87
Jikawo	-	75.72	9.06	11.61	0.14	1.79	1.68
Itang	11351.5	71.88	8.2	14.7	0.11	0.99	4.12
Gambela	5679.5	80.48	7.45	9.42	0.05	0.38	2.21
Zone 2	96153.52	74.61	7.52	11.63	0.84	1.81	3.59
Abobo	-	71.72	7.6	14.95	0.46	2.07	3.2
Jor	-	76.11	13.42	0.35	-	1.15	8.98
Gog	26886.33	64.69	11.7	13.41	0.06	1.69	8.44
Godare	27782.21	77.77	6.11	10.87	1.21	1.79	2.25
Dima	5.02	-	-	-	-	-	-

TABLE D - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

SORGHUM

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	34704.64	77.48	7.74	8.28	1.12	1.64	3.75
Zone 1	2065.4	76.14	9.02	11.56	-	1.17	2.12
Jikawo	-	76.25	3.88	17	-	-	2.88
Itang	323.77	77.52	8.55	9	-	0.9	4.03
Gambela	1726.65	75.89	9.31	11.79	-	1.27	1.75
Zone 2	32639.25	77.59	7.64	8.02	1.21	1.68	3.88
Abobo	-	84.6	5.54	7.5	0.21	0.89	1.27
Jor	-	73.77	12.96	0.72	-	0.6	11.94
Gog	2327.07	68.69	11	13.05	-	0.77	6.49
Godare	24227.71	78.25	6.88	8.5	1.53	1.95	2.9
Dima	3.4	-	-	-	-	-	-

TABLE E - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

FINGER MILLET

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	629	83.6	5.16	9.72	-	0.29	1.23
Zone 1	*	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-
Zone 2	537.59	83.6	5.16	9.72	-	0.29	1.23
Abobo	-	81.48	5.57	10.67	-	0.65	1.64
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	343.1	85.31	4.84	8.95	-	-	0.9
Dima	-	-	-	-	-	-	-

TABLE F - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

RICE

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	384.6	67.75	12.16	15.65	-	0.61	3.83
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	384.6	67.75	12.16	15.65	-	0.61	3.83
Abobo	-	65.45	11.8	21.87	-	0.63	0.25
Jor	-	-	-	-	-	-	-
Gog	140.25	69.18	12.38	11.77	-	0.59	6.07
Godare	-	-	-	-	-	-	-
Dima	-	-	-	-	-	-	-

TABLE 5.26.2 - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

PULSES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	1106.42	82.5	5.05	10.27	0.05	0.05	2.09
Zone 1	243.48	72.2	6.87	17.48	-	0.1	3.35
Jikawo	-	87.3	6.19	5.79	-	0.72	-
Itang	148.21	71.67	8.05	16.52	-	0.05	3.71
Gambela	78	69.28	5.85	21.12	-	-	3.75
Zone 2	862.94	91.68	3.43	3.84	0.1	-	0.96
Abobo	-	89.63	3.27	4.43	-	-	2.66
Jor	-	-	-	-	-	-	-
Gog	7.52	88.91	5	3.48	-	-	2.61
Godare	846.96	92.51	3.36	3.68	0.13	-	0.32
Dima	-	-	-	-	-	-	-

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

HORSE BEANS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	*	-	-	-	-	-	-
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	*	-	-	-	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	-	-	-	-	-	-
Dima	-	-	-	-	-	-	-

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

HARICOT BEANS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	1104.42	82.5	5.05	10.27	0.05	0.05	2.09
Zone 1	243.48	72.2	6.87	17.48	-	0.1	3.35
Jikawo	-	87.3	6.19	5.79	-	0.72	-
Itang	148.21	71.67	8.05	16.52	-	0.05	3.71
Gambela	78	69.28	5.85	21.12	-	-	3.75
Zone 2	860.94	91.68	3.43	3.84	0.1	-	0.96
Abobo	-	89.63	3.27	4.43	-	-	2.66
Jor	-	-	-	-	-	-	-
Gog	7.52	88.91	5	3.48	-	-	2.61
Godare	844.96	92.51	3.36	3.68	0.13	-	0.32
Dima	-	-	-	-	-	-	-

TABLE 5.26.3 - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

OILSEEDS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	1299.04	52.08	7.28	38.49	0.06	0.26	1.82
Zone 1	395.45	52.2	8.57	35.79	-	-	3.44
Jikawo	-	-	-	-	-	-	-
Itang	26.86	35.97	6.48	49.9	-	-	7.65
Gambela	368.59	57.05	9.2	31.56	-	-	2.18
Zone 2	903.59	52.06	7.13	38.82	0.07	0.29	1.62
Abobo	-	44.93	6.24	47.28	0.1	0.41	1.04
Jor	-	-	-	-	-	-	-
Gog	41.6	68.39	11.55	15.1	-	-	4.97
Godare	36.2	73.16	6.1	20.46	-	-	0.27
Dima	-	-	-	-	-	-	-

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

LINSEED

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	*	-	-	-	-	-	-
Zone 1	*	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-
Zone 2	-	-	-	-	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-
Dima	-	-	-	-	-	-	-

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

GROUNDNUTS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	471.74	75.17	7.49	14.45	-	0.11	2.78
Zone 1	325.01	50.01	7.02	40.67	-	-	2.31
Jikawo	-	-	-	-	-	-	-
Itang	24.65	31.31	5.8	55.7	-	-	7.19
Gambela	300.37	58.83	7.59	33.58	-	-	-
Zone 2	146.73	78.97	7.56	10.5	-	0.12	2.85
Abobo	-	83.88	5.42	8.78	-	0.2	1.73
Jor	-	-	-	-	-	-	-
Gog	32.85	69.13	11.61	14.09	-	-	5.17
Godare	*	87.93	6.73	5.33	-	-	-
Dima	-	-	-	-	-	-	-

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

SESAME

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	817.28	28.99	7.14	62.45	0.13	0.41	0.89
Zone 1	64.83	55.51	10.92	28.41	-	-	5.16
Jikawo	-	-	-	-	-	-	-
Itang	2.21	60	10	20	-	-	10
Gambela	62.62	55.04	11.02	29.28	-	-	4.66
Zone 2	752.44	26.51	6.78	65.63	0.14	0.45	0.49
Abobo	-	15.4	6.91	76.41	0.18	0.57	0.54
Jor	-	-	-	-	-	-	-
Gog	*	50	10	40	-	-	-
Godare	31.67	71.23	6.02	22.44	-	-	0.31
Dima	1.6	-	-	-	-	-	-

TABLE D - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

RAPESEED

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	*	100	-	-	-	-	-
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	*	100	-	-	-	-	-
Abobo	-	100	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-
Godare	*	-	-	-	-	-	-
Dima	-	-	-	-	-	-	-

TABLE 5.27 - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

VEGETABLES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	5784.92	82.07	0.7	14.3	0.19	-	2.74
Zone 1	667.73	35.53	0.18	58.18	-	-	6.11
Jikawo	-	-	-	-	-	-	-
Itang	20.34	31.17	-	68.83	-	-	-
Gambela	*	36.19	0.21	56.56	-	-	7.04
Zone 2	5117.18	84.85	0.73	11.69	0.2	-	2.54
Abobo	-	84.58	2.08	11.1	-	-	2.24
Jor	-	-	-	-	-	-	-
Gog	*	61.43	0.97	23.82	-	-	13.78
Godare	3990.13	85.23	0.5	11.61	0.23	-	2.43
Dima	4.73	-	-	-	-	-	-

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

HEAD CABBAGE

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	*	62.48	-	18.04	-	-	19.47
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	*	62.48	-	18.04	-	-	19.47
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	62.48	-	18.04	-	-	19.47
Dima	-	-	-	-	-	-	-

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

ETHIOPIAN CABBAGE

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	3650.88	86.94	0.52	10.76	0.33	-	1.44
Zone 1	42.48	35.26	0.97	61.74	-	-	2.04
Jikawo	-	-	-	-	-	-	-
Itang	14	40.51	-	59.49	-	-	-
Gambela	*	30.1	1.92	63.94	-	-	4.04
Zone 2	3608.4	87.93	0.51	9.79	0.34	-	1.43
Abobo	-	87.16	-	12.84	-	-	-
Jor	-	-	-	-	-	-	-
Gog	*	50	-	40	-	-	10
Godare	3370.18	88.13	0.52	9.59	0.35	-	1.41
Dima	1.03	-	-	-	-	-	-

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

TOMATOES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	1243.99	64.48	1.85	28.14	-	-	5.53
Zone 1	*	36.82	-	56.73	-	-	6.45
Jikawo	-	-	-	-	-	-	-
Itang	*	10	-	90	-	-	-
Gambela	*	38.4	-	54.77	-	-	6.83
Zone 2	*	79.6	2.86	12.52	-	-	5.03
Abobo	-	81.54	3.07	11.69	-	-	3.7
Jor	-	-	-	-	-	-	-
Gog	*	65.03	1.27	18.73	-	-	14.97
Godare	*	-	-	-	-	-	-
Dima	0.75	-	-	-	-	-	-

TABLE D - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

GREEN PEPPERS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	486.81	91.15	0.17	7.47	-	-	1.2
Zone 1	29.75	25.26	-	62.75	-	-	11.99
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	29.75	25.26	-	62.75	-	-	11.99
Zone 2	457.06	94.25	0.18	4.87	-	-	0.7
Abobo	-	88.76	0.56	9.02	-	-	1.66
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	224.87	96.92	-	2.85	-	-	0.23
Dima	2.95	-	-	-	-	-	-

TABLE E - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

RED PEPPERS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	305.06	76	0.91	19.59	-	-	3.5
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	305.06	76	0.91	19.59	-	-	3.5
Abobo	-	86.07	2.15	11.78	-	-	-
Jor	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-
Godare	267.31	74.4	0.72	20.83	-	-	4.06
Dima	-	-	-	-	-	-	-

TABLE 5.28 - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

ROOT CROPS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	28875.79	87.34	4.64	5.73	*	-	2.29
Zone 1	5793.2	75.7	2.43	16.24	-	-	5.63
Jikawo	-	-	-	-	-	-	-
Itang	1015.55	71.63	0.47	19.9	-	-	7.99
Gambela	966.38	81.52	5.24	10.99	-	-	2.25
Zone 2	23082.59	88.74	4.9	4.47	*	-	1.89
Abobo	-	70.83	6.96	17.59	0.25	-	4.38
Jor	-	-	-	-	-	-	-
Gog	600.4	72.58	-	18.99	-	-	8.43
Godare	17968.39	89.22	4.92	4.09	-	-	1.77
Dima	1.9	-	-	-	-	-	-

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

BEET ROOT

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	*	100	-	-	-	-	-
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	*	100	-	-	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	100	-	-	-	-	-
Dima	-	-	-	-	-	-	-

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

ONION

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	*	84.01	12.11	3.87	-	-	-
Zone 1	*	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-
Zone 2	*	84.01	12.11	3.87	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	84.01	12.11	3.87	-	-	-
Dima	0.9	-	-	-	-	-	-

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

POTATOES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	202.73	92.87	7.13	-	-	-	-
Zone 1	*	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-
Zone 2	185.05	92.87	7.13	-	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-
Godare	*	92.87	7.13	-	-	-	-
Dima	1	-	-	-	-	-	-

TABLE D - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

GARLIC

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	98.19	66.66	21.32	12.02	-	-	-
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	98.19	66.66	21.32	12.02	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	98.19	66.66	21.32	12.02	-	-	-
Dima	-	-	-	-	-	-	-

TABLE E - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

TARO / 'GODERE'

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	17696.71	88.03	3.82	5.66	*	-	2.47
Zone 1	1381.99	75.7	2.43	16.24	-	-	5.63
Jikawo	-	-	-	-	-	-	-
Itang	918.16	71.63	0.47	19.9	-	-	7.99
Gambela	461.08	81.52	5.24	10.99	-	-	2.25
Zone 2	16314.72	89.65	4.01	4.28	*	-	2.06
Abobo	-	70.83	6.96	17.59	0.25	-	4.38
Jor	-	-	-	-	-	-	-
Gog	373.7	72.58	-	18.99	-	-	8.43
Godare	15097.45	90.21	4	3.86	-	-	1.94
Dima	-	-	-	-	-	-	-

TABLE F - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

SWEET POTATOES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	10827.54	82.43	1.18	13.06	0.07	0.35	2.91
Zone 1	4392.59	69.13	2.05	26.65	0.05	-	2.12
Jikawo	-	61.15	2.09	33.42	-	-	3.34
Itang	97.39	59.9	-	40.1	-	-	-
Gambela	*	77.17	2.43	18.72	0.09	-	1.58
Zone 2	6434.95	85.04	1.01	10.39	0.07	0.42	3.06
Abobo	-	74.37	0.6	22.35	0.23	1.33	1.13
Jor	-	-	-	-	-	-	-
Gog	221.47	81.84	0.74	5.86	-	-	11.56
Godare	2583.26	91.27	1.27	4.63	-	-	2.83
Dima	-	-	-	-	-	-	-

TABLE 5.29 - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

PERMANENT CROPS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	70327.04	54.4	0.45	38.96	1.01	0.47	4.72
Zone 1	12020.55	45.92	0.3	47.01	*	0.01	6.76
Jikawo	-	52.85	1.25	44.27	-	-	1.64
Itang	3777.3	56.76	0.16	33.37	0.01	-	9.71
Gambela	7068.29	30.54	0.21	64.69	-	0.01	4.55
Zone 2	58306.49	56.39	0.48	37.06	1.24	0.58	4.24
Abobo	-	70.29	-	25.36	0.1	-	4.25
Jor	-	64.13	0.54	20.11	-	-	15.22
Gog	3822.99	67.48	0.05	18.54	0.91	-	13.03
Godare	47695.93	54.83	0.54	38.96	1.34	0.66	3.68
Dima	-	-	-	-	-	-	-

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

BANANAS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	8969.18	53.77	0.19	41.55	-	0.02	4.48
Zone 1	3541.8	36.97	0.11	57.53	-	0.02	5.38
Jikawo	-	49.85	-	49.28	-	-	0.87
Itang	944.46	48.56	0.24	43.58	-	-	7.61
Gambela	2514.42	24.95	-	71.05	-	0.03	3.97
Zone 2	5427.37	61.79	0.22	33.91	-	0.02	4.05
Abobo	-	-	-	-	-	-	-
Jor	-	63.75	-	26.25	-	-	10
Gog	95.89	44.9	-	41.46	-	-	13.64
Godare	5318.66	62.33	0.23	33.7	-	0.02	3.72
Dima	-	-	-	-	-	-	-

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

GUAVAS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	74.97	74.02	-	17.06	-	-	8.91
Zone 1	32.88	51.74	-	30.16	-	-	18.1
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	32.88	51.74	-	30.16	-	-	18.1
Zone 2	42.09	81.41	-	12.72	-	-	5.87
Abobo	-	40	-	47.67	-	-	12.33
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	33.5	92.61	-	3.26	-	-	4.12
Dima	-	-	-	-	-	-	-

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

LEMONS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	102.68	43.53	-	43.31	-	-	13.15
Zone 1	*	50	-	50	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	*	50	-	50	-	-	-
Zone 2	102.38	43.25	-	43.02	-	-	13.72
Abobo	-	27.35	-	66.8	-	-	5.85
Jor	-	-	-	-	-	-	-
Gog	*	64.33	-	8.67	-	-	27
Godare	15.43	52.36	-	29.75	-	-	17.89
Dima	-	-	-	-	-	-	-

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TABLE D - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

MANGOES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	8745.24	60.37	0.34	32.55	0.21	-	6.53
Zone 1	5703.82	39.62	0.69	52.52	0.01	-	7.16
Jikawo	-	56.61	3.49	38.96	-	-	0.93
Itang	1368.67	49.79	0.19	38.19	0.03	-	11.8
Gambela	4034.83	23.57	0.53	72.43	-	-	3.47
Zone 2	3041.43	74.85	0.09	18.62	0.34	-	6.1
Abobo	-	54.71	-	42.41	-	-	2.88
Jor	-	64.42	0.96	15.38	-	-	19.23
Gog	624.26	59.91	0.19	21.94	3.14	-	14.81
Godare	1608.59	77.99	0.07	16.91	-	-	5.03
Dima	-	-	-	-	-	-	-

TABLE E - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

ORANGES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	605.26	61.15	0.99	32	-	-	5.87
Zone 1	*	100	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	100	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	604.13	60.81	0.99	32.28	-	-	5.92
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	604.13	60.81	0.99	32.28	-	-	5.92
Dima	-	-	-	-	-	-	-

TABLE F - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

PAPPAYAS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	15646.53	79.44	0.01	13.66	0.05	-	6.85
Zone 1	2704.8	63.81	0.03	28.36	-	-	7.8
Jikawo	-	51.12	-	46.35	-	-	2.53
Itang	1436.2	71.01	0.04	19.49	-	-	9.46
Gambela	476.89	54.64	0.02	37.54	-	-	7.8
Zone 2	12941.74	84.65	-	8.75	0.07	-	6.53
Abobo	-	77.4	-	18.39	0.13	-	4.08
Jor	-	-	-	-	-	-	-
Gog	3024.09	73.15	-	13.76	0.22	-	12.86
Godare	4172.99	90.77	-	3.57	-	-	5.67
Dima	-	-	-	-	-	-	-

TABLE G - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS
PINE APPLES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	*	72.92	-	24.86	-	-	2.22
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	*	72.92	-	24.86	-	-	2.22
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	72.92	-	24.86	-	-	2.22
Dima	-	-	-	-	-	-	-

TABLE H - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

CHAT

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	1265.53	18.96	-	78.25	-	-	2.79
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	1265.53	18.96	-	78.25	-	-	2.79
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	1265.53	18.96	-	78.25	-	-	2.79
Dima	-	-	-	-	-	-	-

TABLE I - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

COFFEE

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	15243.67	16.32	1.15	76.19	5.3	0.01	1.04
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	15243.67	16.32	1.15	76.19	5.3	0.01	1.04
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	15243.67	16.32	1.15	76.19	5.3	0.01	1.04
Dima	-	-	-	-	-	-	-

TABLE J - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

HOPS / 'GESHO'

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	353.68	57.57	1.03	39.2	-	-	2.19
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	353.68	57.57	1.03	39.2	-	-	2.19
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	353.68	57.57	1.03	39.2	-	-	2.19
Dima	-	-	-	-	-	-	-

TABLE L - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

SUGAR CANE

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Gambela	5272.73	72.12	0.63	17.32	0.03	4.51	5.4
Zone 1	35.82	79.38	-	17.57	-	-	3.05
Jikawo	-	-	-	-	-	-	-
Itang	26.85	80.44	-	11.19	-	-	8.37
Gambela	8.97	78.89	-	20.5	-	-	0.61
Zone 2	5236.9	71.95	0.65	17.31	0.03	4.61	5.45
Abobo	*	28.55	-	71.45	-	-	-
Jor	-	-	-	-	-	-	-
Gog	77.36	79.66	-	17.69	-	-	2.65
Godare	5032.17	71.91	0.66	17.11	0.03	4.74	5.54
Dima	-	-	-	-	-	-	-

ANNEX TABLES PRESENTING ESTIMATES, STANDARD ERRORS AND COEFFICIENTS OF VARIATION FOR SELECTED AREA AND PRODUCTION VARIABLES

Annex Tables 5.1 - 5.29

Annex Table 5.1

Estimate of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops

All Holdings

GAMBELA REGION

Crop	Holders	S.E.	C.V.	Area	S.E.	C.V	Production	S.E.	C.V.
Total	29550	778	3	12067.86	493	4	200349.9	11022	6
Grain Crops	28985	755	3	11650.27	478	4	165689.2	10025	6
Cereals	28468	744	3	11036.38	449	4	163283.8	9979	6
Teff	115	48	42	4.99	2	46	22.01	13	58
Barley	187	56	30	9.47	3	31	21.37	9	42
Wheat	8	7	83	0.05	0	80	-	-	-
Maize	27037	752	3	8141.95	375	5	127522.2	9089	7
Sorghum	10367	556	5	2784.91	223	8	34704.64	3109	9
Finger millet	732	169	23	55.24	17	31	629	193	31
Oats / 'Aja'	57	25	43	1.2	1	60	-	-	-
Rice	329	68	21	38.57	12	30	384.6	114	30
Pulses	5730	595	10	225.33	38	17	1106.42	356	32
Horse beans	89	43	48	1.72	1	60	2	1	55
Field peas	54	31	56	0.72	0	68	-	-	-
Haricot beans	5494	590	11	221.15	38	17	1104.42	356	32
Chick-peas	9	8	89	0.05	0	100	-	-	-
Lentils	46	30	65	0.26	0	77	-	-	-
Vetch	22	18	82	0.13	0	85	-	-	-
Soya beans	.....	103	56	54	0.09	0	44	-	-
Fenugreek	14	15	106	0.03	0	100	-	-	-
Gibto	53	26	49	1.19	1	57	-	-	-
Oilseeds	2505	200	8	388.56	89	23	1299.04	231	18
Neug	12	13	109	0.4	0	110	-	-	-
Linseed	65	18	27	3.54	2	53	5.61	3	55
Groundnuts	.....	1153	156	14	43.4 3	10	23	471.74	61
Safflower	183	50	27	0.77	0	35	-	-	-
Sesame	1174	177	15	339.83	90	26	817.28	232	28
Rapeseed	103	35	34	0.6	0	57	4.42	2	56
Vegetables	4843	598	12	68.39	10	15	5784.92	1491	26
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage	76	44	58	0.85	1	62	98.17	62	63
Ethiopian cabbage	3010	545	18	31.18	8	24	3650.88	1408	39
Tomatoes	702	147	21	10.5	3	32	1243.99	450	36
Green peppers	983	182	18	5.54	1	24	486.81	122	25
Red peppers	947	171	18	20.28	6	29	305.06	126	41
Swiss chard	32	23	71	0.04	0	75	-	-	-
Root crops	9040	571	6	349.19	42	12	28875.79	3458	12
Beet root	96	72	75	0.3	0	103	6.76	7	96
Carrot	9	9	99	-	-	99	-	-	-
Onion	273	123	45	0.49	0	44	43.86	23	53
Potatoes	310	72	23	3.74	1	36	202.73	85	42
Garlic	493	166	34	0.79	0	35	98.19	35	36
Taro / 'Godere'	.....	6684	480	7	231. 84	37	16	17696. 71	2851
Sweet potatoes	3240	306	9	112.01	17	15	10827.54	1656	15

Annex Table 5.2

Estimates of Holders, Area, Production and their Standard Errors and Coefficients of Variations for Permanent
crops
All Holdings

GAMBELA REGION

Crop	Holders	S.E.	C.V.	Area	S.E	C.V	Production	S.E.	C.V.
Avocados	801	129	16	5	1	24	-	-	-
Bananas	8773	434	5	183	18	10	8969.18	1043	12
Guavas	516	114	22	4	2	37	74.97	20	27
Lemons	435	79	18	4	1	34	102.68	34	33
Mangoes	8811	448	5	108	9	9	8745.24	1046	12
Oranges	1550	238	15	10	2	24	605.26	128	21
Papayas	9296	509	5	53	5	9	15646.53	2653	17
Pineapples	521	86	17	2	-	24	126.59	71	56
Chat	2242	324	14	38	8	20	1265.53	467	37
Coffee	8201	746	9	2874	343	12	15243.67	2490	16
Hops	1993	346	17	14	3	21	353.68	135	38
Enset	5171	715	14	393	108	28	-	-	-
Sugar cane	4841	396	8	73	10	13	5272.73	841	16

CHAPTER VI

FARM MANAGEMENT PRACTICES

1 INTRODUCTION

Ethiopia is endowed with abundant resource suitable for agriculture. As result of which the agricultural activity in Ethiopia is quite varied being conditioned by such factors as climate, soils topography and...etc which had favored not only the employment of the majority of the countries population but also served as the main source of input (raw material) for the countries large and medium Scale industries as well as the main generator of the country's foreign currency earnings.

Though agriculture is the backbone of Ethiopian economy, the sector is characterized by low level of productivity and subsistence farming system, which resulted to hand to mouth production. Nowadays the problem mentioned has become more acute as a result of two factors. First the number of people is increasing at a rate that point to a doubling of the present population of the country at the end of this century. Secondly this is occurring at a time when the area of new land suitable for cultivation is rapidly diminishing.

Even though traditional practice such as use of animal dung and crop residue crop rotation and expanding cultivable cropland had helped a lot to increase productivity, the problem mentioned above has become more acute and beyond the limits of the traditional practices which of course had already been exhausted. Hence, the scale severity and duration of the country's food problem will be so great that a massive short and long-range innovative efforts will be required to solve it.

As a result, increasing productivity on various field crops is the only realistic option to raise the living standards of the rural population, and to ensure food security and poverty alleviation. There are many modern techniques and technologies of achieving enhanced crop productivity. Accordingly, the major factors behind achieving high level of crop productivity increases are greater and more efficient use of fertilizers, wide spread uses of

improved variety seeds, pesticides, expanded use of irrigation and effective extension services. Thus, during the 2001/02 Agricultural Sample Enumeration, basic data on agricultural inputs and practices were collected, processed and the results are presented in this chapter.

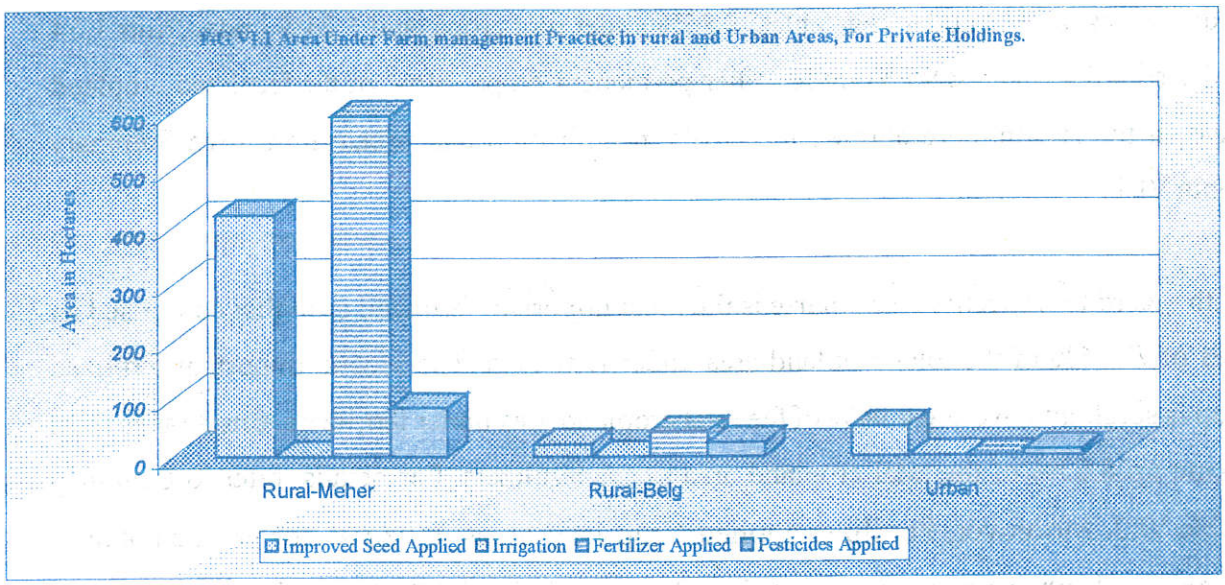
In general, this chapter deals with the agricultural census data that indicates the type of inputs applied, quantity of inputs applied, the irrigated cropland area, estimates of cropland area damage, number of holders who applied different agricultural inputs and farm management practices, and number of holders covered by extension package programs in Gambela Region. Data are presented for private holdings in rural areas for both Meher and Belg seasons, and urban areas of holdings for Meher season. For urban areas, data are collected and presented only to the inputs applied and the irrigated cropland area and number of holders who applied farm inputs. Moreover, estimates, standard errors (S.E) and coefficient of variation (C.V) are given in Annex Tables 6.1 and 6.2.

2 CROPLAND AREA UNDER AGRICULTURAL INPUTS AND FARM MANAGEMENT PRACTICES

This section deals with the agricultural inputs applied and the irrigated cropland area for both rural and urban areas of Gambela Region. Agricultural holders in the sampled households were asked whether they have applied agricultural inputs on their fields or not and the area of all plots operated by the holders were actually measured objectively for private holdings in rural areas. While in urban areas all types of data on farm practices were obtained by interview methods. This helped to estimate area under total crop, irrigated land, fertilizers, pesticides and improved seeds used during the agricultural year. Following data on area under agricultural farm inputs for Gambela Region are briefly discussed.

The census data show that Gambela Region predominantly produces grain crops and the major crops either in terms of the magnitude of area and volume of production includes maize, sorghum and sesame, that accounted for about 71.27% of the area cultivated under all crops (Summary Table VI.2). On the other hand, vegetables and root crops are not widely

grown as grains in the region particularly in terms of crop area coverage. As a result, the agricultural inputs were applied to a great extent on the area under grain crops in order to increase the volume of production. Among different types of agricultural inputs that were applied, it is found that fertilizers application had relatively high coverage of area under crops. Moreover, the census data indicate that vast majority of agricultural holders have used agricultural inputs on small size of holdings. In general, the holders in the region as a whole have practiced modern agricultural techniques and technologies but in a much smaller extent.



2.1 Fertilized Cropland Areas

The effects of fertilizers on improving the efficiency of crop production are well known and can scarcely be over emphasized. Moreover, the fertilizing materials and mixture are not restricted to in organic Chemicals but include organic substances such as crop residue animal dung and .. etc. Therefore, Fertilizers refer to anything added to the soil with the intention of increasing the amount of plant nutrients available for crop growth. In the census, data on application, type and quantity of natural and chemical fertilizers were collected. The Natural fertilizers consisted of animal dung and compost while chemical fertilizers consisted of DAP (Di-Ammonium phosphate) and UREA (Ammonium Nitrate).

Although fertilizers are one of the very important agricultural inputs to increase the level of production, in Gambela Region fertilizers, were applied on only 648 hectares (3.91%) of the total cultivated cropland area. Of this total area fertilized cropland, the share of rural areas was found to be 98.15%. Moreover, the proportion of total fertilized cropland areas in rural areas for Meher season was 593 hectares (91.51%) as compared to only 43 hectares (6.64%) for Belg season. Regarding private holdings in urban areas, data are collected and presented only for Meher season. For details, refer to Summary Table VI.1 and Fig VI.1.

Furthermore, out of the total fertilized cropland areas, 82.41% were under cereals,0.77% under pulses, 2.78% under vegetables, 1.85% under root crops, and 1.24% under fruits 1.54 under stimulants and 8.95 % under other permanent crops. Most of the fertilized cropland areas in the region were allotted to cereals in both rural and urban areas (See Summary Table VI.1).

With regard to a specific crop, maize is the most important fertilized crop that comprised an area of 71.96% of the total cropland area under fertilizers. The second important fertilized crop is sorghum covering 8.94% of the total cropland area under fertilizers. Enset ranks third taking up 8.63% of the total cropland area under fertilizers. For details, refer to Summary Table VI.2. Moreover, Fertilizer applied Crop land areas by zone for private holdings in rural and urban areas are presented in Summary Table VI.3. As can be seen from this table, the total fertilizer applied cropland areas differ from zone to zone. The census data indicate that Zone-2 has relatively the highest share from the total fertilizer applied cropland area i.e (90.60%) as compared to Zone-1, which is 33.64%.

2.2 Cropland Areas Treated with Pesticides

Pesticides are chemicals that are used for the control of mitigation or elimination of pests that are detrimental to crops. Examples of pesticides are insecticides, herbicides and fungicides. Summary Table VI.1 reveals that the total cropland area treated with pesticides

was estimated to be 117 hectares. This indicates that less than one percent of the total cultivated cropland areas were treated with pesticides. Of the total cropland areas treated with pesticides, the share of rural and urban areas was found to be 92.31% and 8.55%, respectively. Thus, private holdings in rural areas had the highest share, while the contribution of the urban areas to the total pesticide applied cropland area was limited in scale. Moreover, the total pesticides applied cropland areas in rural areas of the region for Meher season was 71.79 percent as compared to only 20.51 percent for the Belg season.

Furthermore, most of the pesticide applied land areas in the region was under cereal crops (about 78.63%). Further more, out of all cropland areas on which pesticides are applied, maize accounts for about 84 hectares, which is the highest. For Details, see Summary Tables VI.1 and VI.2. Moreover, Crop land areas treated with pesticides by zone for private holdings in rural and urban areas are presented in Summary Table VI.3. As can be seen from this table, the total cropland areas treated with pesticides differ from zone to zone. The census data indicate that Zone-2 has relatively the highest share from the total fertilizer applied cropland area i.e (66.36%) as compared to Zone-1, which is 10.26%.

2.3 Cropland Areas on which Improved Seeds are Used

Improved seeds are defined as crop varieties that give significantly higher yield and better quality compared to locally produced varieties of seeds. As illustrated in Summary Table VI.1, the total cultivated cropland area was estimated at 16580 hectares. Of this total, only 492 hectares (5.63% of the total crop land area) was sown with improved variety of seeds. The share of rural and urban areas was found to be 89.84 percent and 10.16 percent of the total cropland areas on which improved seeds are used, respectively. Like other inputs, the private holdings in the rural areas during Meher season had the highest share; while the contribution of the private holdings in urban areas to the total improved seeds applied cropland area in the region was limited in scale. The share of Belg season to the total improved seed applied cropland area is about 4.27% (See Fig VI.1)

Summary Table VI.1 also presents the total cropland area with application of improved agricultural practices and inputs by crop category for private holdings in rural and urban areas. The data in this table indicate that 44.72% and 53.86 % of the total area under improved seeds was reported to be under cereals and stimulants, respectively. While the remaining two percent of the land area on which improved seeds are applied was covered by coffee. In both the rural and urban areas of private holdings, land areas under cereals constituted the highest proportion of improved seeds as compared to other crops.

Moreover, Crop land areas under improved seeds by zone for private holdings in rural and urban areas are presented in Summary Table VI.3. As can be seen from this table, the total cropland area under each agricultural inputs show variation among the zones. The census data indicate that Zone-2 has relatively the highest share from the total cropland area with application of improved seeds (93.29%) as compared to Zone-1 which is 6.71%.

2.4 Cropland Areas Under Irrigation

The necessary increase in crop production, to keep pace with the increased population demand, can be achieved among others by the efficient utilization of Irrigation practices. Moreover irrigation practices make possible the full utilization of advanced technology in farming: these include the proper application of fertilizers, the adoption of good crop rotation practices and the use of best the best seed varieties.

Irrigated cropland areas refer to the practice where an area of land is purposely and actually provided with water, other than the precipitation obtained from rain to improve the production of crops. The uncontrolled flooding of land by the overflow of rivers or streams is not considered to be as practice of irrigation.

The census data show that the cropland areas that are actually irrigated was only 17 hectares and this accounted for about less than one percent of the total cropland areas. Of course, the mentioned total irrigated cropland areas, was contributed from

irrigation schem operated in the rural and urban areas. (See summary Tables VI.1 and VI.2).

3 HOLDERS APPLYING FERTILIZERS, AREA, AND QUANTITY OF FERTILIZERS APPLIED

In 2001/02 Agricultural Sample Enumeration, the total number of holders applying fertilizers in Gambela Regional State, is estimated to be about 3892. Of these total private holders, about 3862 holders (99.23%) were in rural and about 0.77% in urban areas. The application of fertilizers in Meher and Belg seasons for private holdings in rural areas shows a great variation, that is, 88% of the holders applied fertilizers in Meher season while only 15.39 perce0nt applied in Belg season (See Summary Tables VI.4).

With regard to the type of fertilizers applied, the great majority of holder's applied natural fertilizers (3750). When we come to the utilization of commercial fertilizers, about 239 holders applied DAP followed by a mixture of DAP and UREA (87 holders) and UREA (81 holders). However, the application of chemical fertilizers for Belg season was not reported in census enumeration. In urban areas for private holdings, a total of 30 holders applied natural and chemical fertilizers.

Among the types of fertilizers used, natural fertilizers was applied in larger cultivated cropland area, which is about 429 hectares (That is, 65% of fertilized cropland area). Next to natural fertilizers, considerable amount of cropland area was covered by DAP which is 120 hectares (18%) and a mixture of DAP and UREA was applied on 68 hectares (10%) (See Fig VI.2 and Summary Table VI.4 and VI.5)

Furthermore, the data in Summary Table VI.4 indicated that the total quantity of chemical fertilizers applied by holders in the rural areas was estimated at about 216 quintals, of

which, the share of the mixture of DAP and UREA was the highest accounting for about 48 percent of the total quantity of chemical fertilizers applied. This is followed by DAP accounting for about 46 percent, while the share of UREA was the smallest (See Fig VI.3 and Summary Table VI.4).

Moreover, the total amount of Chemical fertilizers applied on crop land areas by zone is presented in Summary Table VI.9. The data in the table shows that the highest quantity of chemical fertilizers application was reported in Zone-2, 90.32% while almost none is reported in Zone-1.

3.1 Application of Natural Fertilizers in the Rural and Urban Areas

According to the census findings, about 3598 holders in rural areas were applied natural fertilizers on 429 hectares of cropland (comprising 66.10% of the total fertilized land area). Of the total cropland area on which natural fertilizers are applied, the share of Meher and Belg season in rural areas was 59.17 and 6.63 percent, respectively. Moreover, of the total land area on which natural fertilizers are applied 74.59% was under cereals, 1.17% under pulses, 3.50% under vegetables, 2.80% under root crops and 1.64% under fruits and 13.52% under other permanent crops. For details, refer to Summary Tables VI.4 .

3.2 Application of DAP in the Rural Areas

As illustrated in Summary Table VI.4, about 239 holders in rural areas have applied DAP on about 120 hectares, which is about 18% of the total fertilized crop land area. Crop land area under the application of DAP varied markedly from one group of crops to another, i.e., 98% of the total DAP was applied for cereals, while the remaining two percent was applied on pulses and oil seeds crop categories. Variations with respect to specific crops are also considerable, i.e., relatively higher for maize(For details, refer to Summary Tables VI.4 and VI.5).

SUMMARY TABLE VI.1: Total Area Under Improved Farm Management Practices by Crop Categories in Rural and Urban Areas, Both Seasons, for Private Holdings.

ITEM	Area in Hectares									
	Total	Grains				Vegetables	Root Crops	Permanent Crops		
		Cereals	Pulses	Oilseeds	Others			Fruits	Stimulant	Other
Total Area										
Rural and Urban..	16580	11036	225	389	166	615	384	370	2926	470
Rural	15671	10659	225	366	142	611	380	361	2463	465
Meher	12684	7877	117	345	132	562	363	361	2463	465
Belg.....	2988	2783	108	21	10	49	16	*	*	*
Urban (Meher)....	909	377	1	23	24	4	4	9	463	5
Improved Seeds										
Rural and Urban..	492	220	*	*	*	*	*	*	265	*
Percent..	100	44.72	*	*	*	*	*	*	53.86	*
Rural	442	208	*	*	*	*	*	*	227	*
Percent..	89.84	47.06	*	*	*	*	*	*	51.36	*
Meher	421	188	*	*	*	*	*	*	227	*
Percent..	85.57	44.66	*	*	*	*	*	*	53.92	*
Belg.....	21	21	-	-	-	-	-	-	-	-
Percent..	4.27	100.00	-	-	-	-	-	-	-	-
Urban (Meher)....	50	*	*	*	*	*	*	*	38	*
Percent..	10.16	*	*	*	*	*	*	*	76.00	*
Irrigation										
Rural and Urban..	17	*	-	*	*	*	*	*	*	*
Percent..	100.00	*	-	*	*	*	*	*	*	*
Rural	*	*	*	*	*	*	*	*	*	*
Percent..	*	*	*	*	*	*	*	*	*	*
Meher	*	1	*	*	*	*	*	*	*	*
Percent..	*	*	*	*	*	*	*	*	*	*
Belg.....	*	*	*	*	*	*	*	*	*	*
Percent..	*	*	*	*	*	*	*	*	*	*
Urban (Meher)....	*	*	*	*	*	*	*	*	*	*
Percent..	*	*	*	*	*	*	*	*	*	*
Fertilizer										
Rural and Urban..	648	534	5	*	*	18	12	8	10	58
Percent..	100.00	82.41	0.77	*	*	2.78	1.85	1.23	1.54	8.95
Rural	636	522	5	*	*	18	12	8	10	58
Percent..	98.15	82.08	0.79	*	*	2.83	1.89	1.26	1.57	9.12
Meher	593	480	5	*	*	17	12	8	10	58
Percent..	91.51	80.94	0.84	*	*	2.87	2.02	1.35	1.69	9.78
Belg.....	43	42	*	*	*	*	*	*	*	*
Percent..	6.64	97.67	*	*	*	*	*	*	*	*
Urban (Meher)....	*	*	*	*	*	*	*	*	*	*
Percent..	*	*	*	*	*	*	*	*	*	*
Pesticides										
Rural and Urban..	117	92	*	*	*	*	*	*	*	*
Percent..	100.00	78.63	*	*	*	*	*	*	*	*
Rural	108	83	*	*	*	*	*	*	*	*
Percent..	92.31	76.85	*	*	*	*	*	*	*	*
Meher	84	59	*	*	*	*	*	*	*	*
Percent..	71.79	70.24	*	*	*	*	*	*	*	*
Belg.....	24	24	*	*	*	*	*	*	*	*
Percent..	20.51	100.00	-	-	-	-	-	-	-	-
Urban (Meher)....	10	9	*	-	*	-	-	-	-	-
Percent..	8.55	90.00	*	-	*	-	-	-	-	-

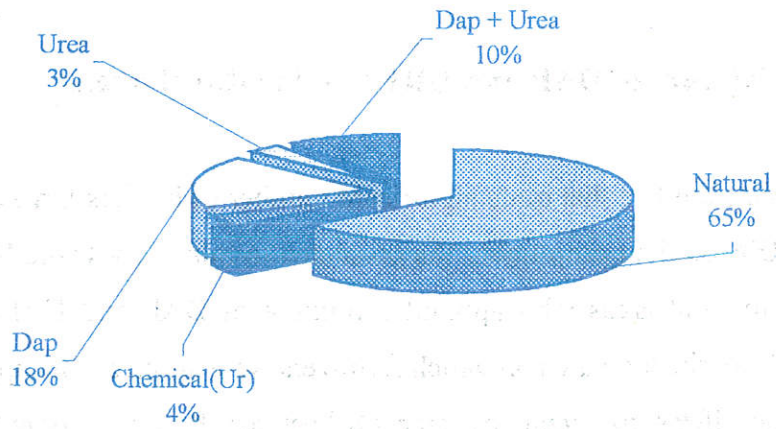
SUMMARY TABLE VI.2: Total Area Under Improved Seed, Irrigation, Fertilizer, and Pesticide by Type of Crops in Rural and Urban Areas, for Private Holdings

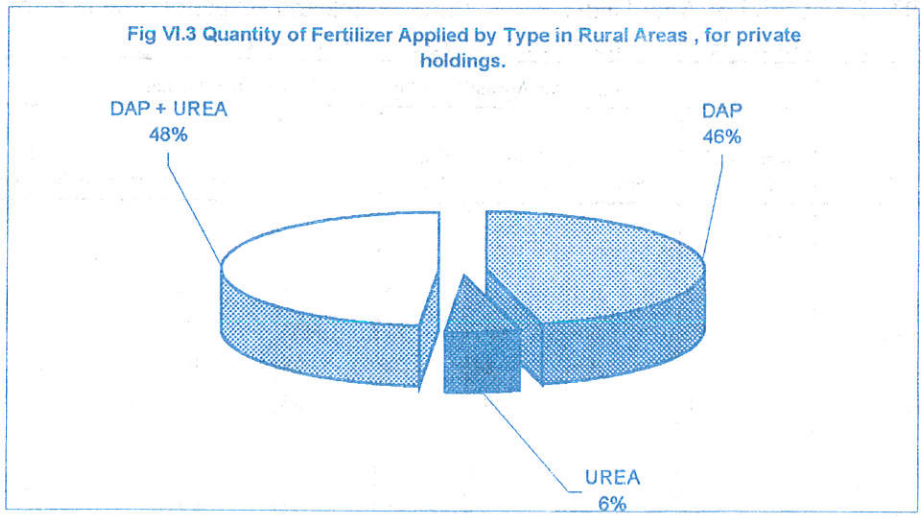
TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL	16580	492	2.97	17	0.1	648	3.91	117	0.71
Grain Crops	11816	223	1.89	*	*	542	4.59	112	0.95
Cereals	11036	220	1.99	*	*	533	4.83	92	0.83
Teff	5	-	-	-	-	-	-	-	-
Barley	9	-	-	-	-	-	-	-	-
Wheat	*	-	-	-	-	-	-	-	-
Maize	8142	171	2.1	*	*	467	5.74	84	1.03
Sorghum	2785	42	1.51	*	*	58	2.08	*	*
Finger millet	55	*	*	-	-	*	*	-	-
Oats ('Aja')	*	-	-	-	-	-	-	-	-
Rice	39	*	*	-	-	*	*	*	*
Pulses	225	*	*	-	-	5	2.22	*	*
Horse beans	*	-	-	-	-	*	*	-	-
Field peas	*	-	-	-	-	-	-	-	-
Haricot beans	221	*	*	-	-	5	2.26	*	*
Chick peas	*	-	-	-	-	-	-	-	-
Lentils	*	-	-	-	-	-	-	-	-
Vetch	*	-	-	-	-	*	*	-	-
Soya	*	-	-	-	-	-	-	-	-
Fenugreek	*	-	-	-	-	*	*	-	-
Gibto	*	-	-	-	-	*	*	-	-
Oil Seeds	389	*	*	*	*	*	*	*	*
Neug	*	-	-	-	-	-	-	-	-
Linseed	*	*	*	*	*	*	*	*	*
Ground nuts	43	*	*	-	-	*	*	*	*
Sufflower	1	-	-	-	-	-	-	-	-
Sesame	340	*	*	-	-	*	*	*	*
Rapeseed	*	*	*	-	-	-	-	-	-
Other Grains	166	*	*	-	-	*	*	*	*
Vegetables	615	*	*	*	*	18	2.93	*	*
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage	*	-	-	-	-	-	-	-	-
Kale	31	-	-	-	-	5	16.13	-	-
Tomatoes	11	*	*	*	*	*	*	*	*
Green peppers	6	-	-	-	-	*	*	-	-
Red peppers	20	-	-	-	-	*	*	-	-
Swiss chard	*	-	-	-	-	-	-	-	-
Others	546	-	-	-	-	11	2.01	*	*
Root Crops	384	*	*	*	*	12	3.13	*	*
Beet root	*	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onions	*	-	-	-	-	*	*	*	*
Potatoes	4	-	-	-	-	-	-	-	-
Garlic	1	-	-	-	-	*	*	-	-
Taro	232	-	-	*	*	8	3.45	-	-
Sweet potatoes	112	-	-	-	-	5	4.46	*	*
Others	35	*	*	-	-	*	*	*	*
Permanent Crops	3765	269	7.14	*	*	76	2.02	*	*
Fruit Crops	370	*	*	*	*	8	2.16	*	*
Avocado	5	*	*	-	-	*	*	*	*
Bananas	183	*	*	*	*	3	1.64	-	-
Guava	4	*	*	-	-	-	-	-	-
Lemons	4	-	-	-	-	*	*	-	-
Mangoes	108	*	*	*	*	2	1.85	*	*
Oranges	10	*	*	-	-	*	*	-	-
Papayas	53	*	*	*	*	2	3.77	*	*
Pineapples	2	-	-	-	-	-	-	-	-
Others	1	-	-	-	-	*	*	-	-
Stimulant Crops	2926	265	9.06	*	*	10	0.34	-	-
Chat	38	-	-	-	-	*	*	-	-
Coffee	2874	265	9.22	*	*	10	0.35	-	-
Hops	14	-	-	-	-	*	*	-	-
Others	-	-	-	-	-	-	-	-	-
Other Permanent	470	*	*	*	*	58	12.34	*	*
Enset	393	-	-	-	-	56	14.25	-	-
Sugar Cane	73	*	*	*	*	2	2.74	*	*
Others	4	-	-	-	-	*	*	-	-

SUMMARY TABLE VI.3: Area Under Agricultural Inputs and Irrigation Practices by Season and Zones in Rural and Urban Areas, for Private Holdings

Practices	Area under Agricultural Inputs and Irrigation in Hectares							
	Rural and Urban	Percent	Rural Meher	Rural Belg	Rural	Percent	Urban Meher	Percent
Gambela Region								
Irrigation	17	100	*	*	*	100	*	*
Improved Seeds	492	100	421	21	442	100	50	100
Pesticides	117	100	84	24	108	100	10	100
Fertilizers	648	100	593	43	636	100	*	*
Zone 1								
Irrigation	*	*	*	-	1	12.50	*	77.78
Improved Seeds	33	6.71	*	13	21	4.75	*	24.00
Pesticides	12	10.26	*	-	2	1.85	9	90.00
Fertilizers	218	33.64	210	-	210	33.02	*	69.23
Zone 2								
Irrigation	*	*	*	*	*	87.50	*	22.22
Improved Seeds	459	93.29	413	*	421	95.25	38	76.00
Pesticides	106	90.60	81	24	105	97.22	*	*
Fertilizers	430	66.36	383	43	426	66.98	*	30.77

Fig. VI.2 Fertilizer Applied area by Type in Rural and Urban Areas For Private Holdings.





Furthermore, the total quantity of DAP applied in rural areas is estimated to be about 99 quintals, which is 45.83% of the total quantity of chemical fertilizers applied. In general, the quantity of DAP applied was the highest for cereals.

3.3 Application of UREA in the Rural Areas

Although chemical fertilizers have been widely promoted, only 81 holders in rural areas have applied UREA, and the cropland areas under UREA occupied 21 hectares, which is 3.24% of the total fertilizers applied (See Summary Table VI.4 and VI.5).

3.4 Application of a Mixture of DAP and UREA in the Rural Areas

The census findings depicts the fact that quite significant number of holders have applied a mixture of DAP and UREA on their crop fields. As presented in Summary Table VI.6 there were about 87 holders in rural areas who applied a mixture of DAP and UREA on 68 hectares, which is 10.48% of the total area on which fertilizers were applied. The application of a mixture of DAP and UREA to cereals covered 68 hectares. It was observed that the application of a mixture of UREA and DAP is almost non in other crops relative to cereals.

In addition, out of the total quantity of chemical fertilizers applied, the amount of a mixture of DAP and UREA was 105 quintals, which is 48.61% of the total quantity of chemical

fertilizers. Of the total quantity of the mixed chemical fertilizers are applied, maize took the highest proportion accounting for almost 100% (105 quintals). For details, refer to Summary Tables VI.4 and VI.5.

4 HOLDERS UTILIZING IMPROVED SEEDS AND QUANTITY OF IMPROVED SEEDS USED

In the 2001/02 Agricultural Sample Enumeration, data on number of holders that have used improved seeds and quantity of seeds used was collected. Hence, the number of holders that have used improved variety seeds and quantity of improved cereal, pulse and oil seeds are presented in Summary Table VI.6.

Furthermore, the total amount of improved seeds used by zone is presented in Summary Table VI.7. The data in the table shows that the highest quantity of improved seeds was reported in Zone-2, 90.32% while it was 9.68 in Zone-1.

4.1 Number of Holders using Improved Seeds.

As portrayed in Summary Table VI.6 the use of improved seeds is limited to only 1849 holders in rural and 87 holders in urban areas of the region. Of the total holders using improved seeds, 40.02% utilized improved teff seed, 33.48% improved sorghum seed, 10.06% improved finger millet seed, and 2.70% utilized improved variety of chick pease seeds.

4.2 Quantity of Improved Seeds Used

Information on quantity of improved varieties of seeds is limited to grain crops only. As can be seen from Summary Table VI.6, the total quantity of improved seeds was estimated to be 62 quintals. The total quantity of improved seeds used has been low for private holdings in rural areas of the region. As can be seen from the data, the low utilization of improved seeds is obviously indicates that holders' continued to rely on low yielding local/traditional seeds.

SUMMARY TABLE VI.4: Number of Holders Applying Fertilizers, Area Under Fertilizers and Quantity of Fertilizers Applied by Type in Rural and Urban Areas, for Private Holdings

Type of Fertilizer	Total	Grains				Vegetables	Root Crops	Permanent Crops		
		Cereals	Pulses	Oilseeds	Others			Fruits	Stimulant	Other
	Number of Holders Applying Fertilizer by Type									
Rural and Urban	3,892	2,345	297	10	62	1,007	725	798	324	939
Percent..	100									
Natural	3,750	2,190	293	*	62	984	717	735	304	939
Chemical (Urban)	417	343	-	6	-	-	-	-	*	-
DAP	239	199	-	-	-	*	*	*	-	-
UREA	81	50	-	-	-	-	*	*	*	-
DAP+UREA.....	87	83	*	-	-	*	-	-	-	-
Urban.....	30	25	-	*	-	-	-	-	*	-
Percent..	0.77									
Natural	*	*	-	*	-	-	-	-	-	-
Chemical.....	26	21	-	*	-	-	-	-	*	-
Rural.....	3862	2320	297	*	62	1007	725	798	318	939
Percent..	99.23									
Natural	3598	2076	293	*	62	973	712	735	304	939
Chemical.....	391	322	*	-	-	*	*	63	*	-
Rural Meher.....	3,431	1,867	266	*	50	960	704	798	318	939
Percent..	88									
Natural	3,151	1,601	262	*	50	926	691	735	304	939
DAP	239	199	-	-	-	34	*	*	-	-
UREA	81	50	-	-	-	-	*	*	*	-
DAP+UREA.....	87	83	*	-	-	*	-	-	-	-
Rural Belg	599	589	31	-	12	58	26	-	-	-
Natural	599	589	*	-	*	*	*	-	-	-
Percent..	15.39	98.33	*	-	*	*	*	-	-	-
	Area in Hectares									
Rural and Urban	648	533	5	*	*	18	12	8	10	58
Percent..	100	82.25	0.77	*	*	2.78	1.85	1.23	1.54	8.95
Natural	428	319	5	*	*	15	12	7	*	58
Percent..	66.05	74.53	1.17	*	*	3.50	2.80	1.64	*	13.55
Chemical.....	11	11	-	-	-	-	-	-	-	-
Percent..	1.70	100.00								
Urban	*	*	-	*	-	-	-	-	*	-
Percent..	*	*	-	*	-	-	-	-	*	-
Natural	*	*	-	*	-	-	-	-	-	-
Percent..	*	*	-	*	-	-	-	-	-	-
Chemical (Urban)	*	*	-	*	-	-	-	-	*	-
Percent..	*	*	-	*	-	-	-	-	*	-
Rural Meher.....	593	480	5	*	*	17	12	8	10	58
Percent..	91.51	80.94	0.84	*	*	2.87	2.02	1.35	1.69	9.78
Natural	384	277	5	*	*	15	12	7	*	58
Percent..	59.26	72.14	1.30	*	*	3.91	3.13	1.82	*	15.10
Chemical.....	209	203	*	-	-	*	*	*	*	-
Percent..	32.25	97.13	*	-	-	*	*	*	*	-
DAP.....	120	117	-	-	-	*	*	*	-	-
Percent..	18.52	97.50	-	-	-	*	*	*	-	-
UREA.....	21	*	-	-	-	-	*	*	*	-
Percent..	3.24	*	-	-	-	-	*	*	*	-
DAP+UREA...	68	68	-	-	-	-	-	-	-	-
Percent..	10.49	100.00								
Rural Belg	43	42	*	-	*	*	*	-	-	-
Natural	43	42	*	-	*	*	*	-	-	-
Percent..	6.64	97.67	*	-	*	*	*	-	-	-
	Quantity in Quintals									
Rural Meher.....	216	215	-	-	-	*	-	*	-	-
Percent..	100	99.54						*		
DAP	99	98	-	-	-	*	-	*	-	-
Percent..	45.83	98.99	-	-	-	*	-	*	-	-
UREA.....	*	*	-	-	-	-	-	*	-	-
Percent..	*	*	-	-	-	-	-	*	-	-
DAP+UREA.....	105	105	-	-	-	-	-	-	-	-
Percent..	48.61	100	-	-	-	-	-	-	-	-

To avoid duplication number of holders that applied fertilizers in rural and urban areas for private holdings do not add up to the totals. Hence, the sum of estimates may not be equal to the totals.

SUMMARY TABLE VI.5: Number of Holders Applying Fertilizers, Fertilized Area, and Quantity of Fertilizers by Crop Type in Rural and Urban Areas, for Private Holdings

CROP	Application of total Fertilizers		Application of Fertilizers by Type and Quantity				
			Natural		Chemical – DAP		
	Holders	Hectares	Holders	Hectares	Holders	Hectares	Quintals
TOTAL	3892	648	3602	428	239	120	99
Grain Crops	2494	542	2230	328	199	117	98
Cereals	2345	533	2080	319	199	117	98
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	2224	467	1970	282	183	92	84
Sorghum	224	58	199	37	*	*	*
Finger millet	*	*	*	*	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-
Rice	34	*	-	-	34	*	*
Pulses	297	5	293	5	-	-	-
Horse beans	*	*	*	*	-	-	-
Field peas	*	*	*	*	-	-	-
Haricot beans	224	5	220	5	-	-	-
Chick peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	*	*	*	*	-	-	-
Soya	-	-	-	-	-	-	-
Fenugreek	*	*	*	*	-	-	-
Gibto	*	*	*	*	-	-	-
Oil Seeds	24	*	18	*	-	-	-
Neug	-	-	-	-	-	-	-
Linseed	*	*	-	-	-	-	-
Ground nuts	*	*	*	*	-	-	-
Sufflower	-	-	-	-	-	-	-
Sesame	*	*	*	*	-	-	-
Rapeseed	-	-	-	-	-	-	-
Other Grains	62	*	62	*	-	-	-
Vegetables	1007	18	973	15	*	*	*
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Kale	576	5	576	5	-	-	-
Tomatoes	92	*	87	*	*	*	*
Green peppers	74	*	64	*	*	*	*
Red peppers	57	*	57	*	-	-	-
Swiss chard	-	-	-	-	-	-	-
Others	332	11	303	8	*	*	-
Root Crops	725	12	712	12	*	*	-
Beet root	-	-	-	-	-	-	-
Carrot	*	*	*	*	-	-	-
Onions	*	*	*	*	-	-	-
Potatoes	-	-	-	-	-	-	-
Garlic	*	*	*	*	-	-	-
Taro ('Godere')	439	8	439	8	-	-	-
Sweet potatoes	189	5	180	4	*	*	-
Others	*	*	*	*	-	-	-
Permanent Crops	1643	76	1561	73	*	*	*
Fruit Crops	798	8	735	7	*	*	*
Avocado	*	*	*	*	-	-	-
Bananas	313	3	297	3	*	*	*
Guava (Zeytuna)	*	*	*	*	-	-	-
Lemons	*	*	*	*	-	-	-
Mangoes	300	2	282	2	*	*	*
Oranges	*	*	*	*	-	-	-
Papayas	449	2	412	*	*	*	*
Pineapples	*	*	*	*	-	-	-
Others	*	*	*	*	-	-	-
Stimulant Crops	324	10	304	*	-	-	-
Chat	*	*	*	*	-	-	-
Coffee	220	10	201	*	-	-	-
Hops	*	*	*	*	-	-	-
Others	-	-	-	-	-	-	-
Other Permanent	939	58	939	58	-	-	-
Enset	805	56	805	56	-	-	-
Sugar Cane	355	2	355	2	-	-	-
Others	118	*	118	*	-	-	-

SUMMARY TABLE VI.5 Contd.

CROP	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical - DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
TOTAL	81	21	*	87	68	105	26	*
Grain Crops	50	*	*	87	68	105	21	*
Cereals	50	*	*	83	68	105	21	*
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	50	*	*	83	68	105	21	*
Sorghum	-	-	-	-	-	-	*	*
Finger millet	-	-	-	-	-	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulses	-	-	-	*	*	-	-	-
Horse beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	*	*	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oil Seeds	-	-	-	-	-	-	*	*
Neug	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	*	*
Ground nuts	-	-	-	-	-	-	-	-
Sufflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Other Grains	-	-	-	-	-	-	-	-
Vegetables	-	-	-	*	*	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Kale	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Others	-	-	-	*	*	-	-	-
Root Crops	*	*	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onions	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Others	*	*	-	-	-	-	-	-
Permanent Crops	42	*	*	-	-	-	*	*
Fruit Crops	*	*	*	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	*	*	*	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	*	*	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Stimulant Crops	*	*	-	-	-	-	*	*
Chat	-	-	-	-	-	-	-	-
Coffee	*	*	-	-	-	-	*	*
Hops	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar Cane	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-

SUMMARY TABLE VI.6: Number of Holders Utilizing Improved Seeds and Quantity of Improved Seeds Applied by Crop Type in Rural and Urban Areas, for Private Holdings

Type of Crop	Holders Applying Improved Seeds					Quantity in Quintals			
	Total	%	Rural		Urban	Rural	%	Meher	Belg
			Meher	Belg	Meher				
Total	1849	100	1661	106	87	62	100	58	*
Cereals	805	43.54	662	106	37	62	100	58	*
Teff	740	40.02	602	100	37	61	98.39	57	*
Barley	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-	-
Sorghum	619	33.48	481	100	37	45	72.58	41	*
Finger millet	186	10.06	180	-	*	9	14.52	9	-
Oats ('Aja')	*	*	*	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	*	*	*	-	-	*	*	*	-
Horse beans	50	2.70	50	-	-	*	*	*	-
Field peas	-	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-	-
Chick peas	50	2.70	50	-	-	*	*	*	-
Lentils	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Oil Seeds	-	-	-	-	-	-	-	-	-
Neug	*	*	*	*	-	*	*	*	*
Linseed	-	-	-	-	*	-	-	-	-
Ground nuts	*	*	-	-	-	-	-	-	-
Sufflower	*	*	*	-	*	*	*	*	-
Sesame	-	-	-	-	*	-	-	-	-
Rapeseed	*	*	-	*	-	*	*	-	*
Other Grains	*	*	*	-	-	*	*	*	-
Vegetables	*	*	*	-	-	-	-	-	-
Lettuce	*	*	*	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-	-
Kale	-	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-	-
Green peppers	*	*	*	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Root Crops	-	-	-	-	-	-	-	-	-
Beet root	*	*	*	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onions	-	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro ('Godere')	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Fruit Crops	*	*	*	-	-	-	-	-	-
Avocado	181	9.79	181	106	-	-	-	-	*
Bananas	45	2.43	45	106	50	-	-	-	*
Guava (Zeytuna)	*	*	*	100	-	-	-	-	*
Lemons	*	*	*	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-	-
Oranges	*	*	*	-	-	-	-	-	-
Papayas	*	*	*	100	-	-	-	-	*
Pineapples	30	1.62	30	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Stimulant Crops	-	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-
Coffee	878	47.49	828	-	-	-	-	-	-
Other Permanent Crops	-	-	-	-	50	-	-	-	-

Summary Table VI.7 Quantity of Chemical Fertilizers Applied and Improved Seeds Used by Zone and Season in Rural Areas, for Private Holdings

Item	Quantity in Quintals		
	Total	Zone -1	Zone -2
Chemical Fertilizers			
Total	216	*	204
Percent	100	*	94.44
Meher	216	*	204
Belg	-	-	-
Improved seeds			
Total	62	6	56
Percent	100	9.68	90.32
Meher	58	*	55
Percent	100	*	94.8
Belg	*	*	-
Percent	*	*	-

Considering the total quantity of improved seeds utilized, about 72.58% accounted for sorghum followed by finger millet with 14.82%. Details are given in Summary Table VI.6

5 FARM MANAGEMENT PRACTICES AND EDUCATIONAL ATTAINMENT OF HOLDERS

This section of the report presents data on educational attainment of holders in relation to their farm management practices. At the time of enumeration all holders in the sampled households were asked to state their educational attainment. As presented in Summary Table VI.8 data on literacy status and highest grade completed for literate holders were collected. The census findings indicate that the level of educational attainment of the holders in Gambela Region is very low and this may have a direct impact on the level of awareness of the holders with respect to improved farming activities and is a typical characteristic of peasant community in developing countries. A large number of holders (62.06% in rural and 53.76 % in urban areas) were found to be illiterate while 4.01% in rural and 3.60% in urban areas have participated in informal education. Moreover, the data shows that 25.12% of the holders in rural and 14.71% of holders in urban areas have completed grades 1 to 6 and only 8.13% of the holders in rural and 25.02 % in urban areas have completed grades 7-12.

Furthermore, around 0.67% of the holders in rural and 2.98% in urban areas had completed an educational level of above grade 12 (i.e. college/university). These estimates show that holders in urban areas are relatively more literate than those in the rural areas. This could probably be attributed to better access to school and/or better awareness of the importance of education among the holders in the urban than those in the rural areas.

Extension packages are outreach programs operating in rural areas for private holdings aiming to transfer modern agricultural technologies to increase crop and livestock productivity. The programs are usually undertaken by follow-up and advisory services by the agricultural development agents. The total number of holders participating in the agricultural extension package programs was 275, which is only less than one percent of the total holders in the region. Of the total holders participating in the extension programs, 245 holders were in Meher season and 30 holders were in Belg season. The distribution of extension package program participants by educational status shows that 23.64% were illiterate, 3.64% have participated in informal education, 58.55% have completed grades 1 to 6 and 6.55% have completed grades 7-12 and 7.64% have completed above grade 12.

As a result of insignificant number of holders who have been exposed to extension packages as well as to education the impact of education on the use of improved farm practices was not clearly exhibited by the census data. The data indicates that out of all holders who have used improved seeds, practiced irrigation, and applied fertilizers and pesticides, 46.51, 36.72, 59.53 and 44.94 percents were illiterate, respectively (For details, refer to Summary Table VI.8).

Furthermore, in each zone, the proportions of the total holders who have applied fertilizers were the highest as compared to other inputs and irrigation. Thus, fertilizers are the most important input and used by 2760 holders (70.91%) and 1132(29.09) in Zone-2 and Zone-1respectively. The second most widely used input was improved seeds and used by 843 holders (87.90%) in Zone-2, while 201holders i.e. about 10.87% in zone-1. For details, refer to Summary Table VI.9.

SUMMARY TABLE VI.8: Holders Applying Agricultural Inputs and Participating in Extension Programs by Level of Education in Rural and Urban Areas, for Private Holdings

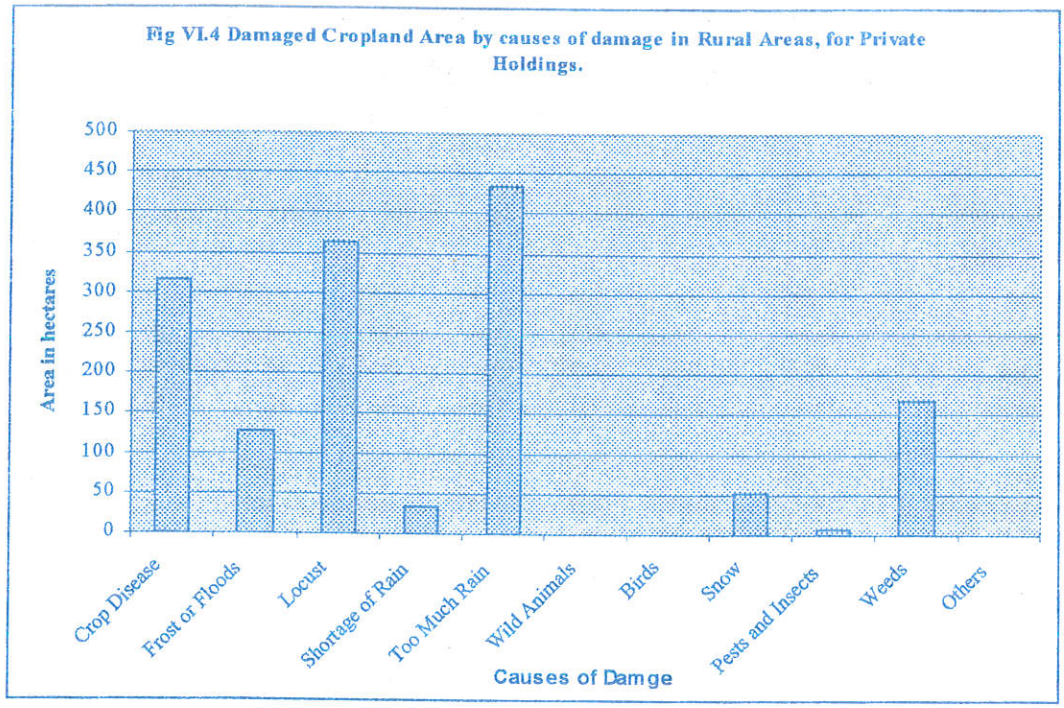
Place of Residence/Season	Total		Educational Level of Holder									
			Illiterate		Literate, but no Formal Education		Grade 1 - 6		Grade 7 – 12		Above Grade 12	
	Numb	%	Number	%	Numbe	%	Numbe	%	Number	%	Number	%
All Crop Holders												
Rural and Urban	31,109	100	19,173	61.63	1,241	3.99	7,648	24.58	2,800	9.00	247	0.79
Rural	29,497	100	18,307	62.06	1,184	4.01	7,411	25.12	2,397	8.13	199	0.67
Meher	29,188	100	18,111	62.05	1,180	4.04	7,318	25.07	2,384	8.17	195	0.67
Belg	14,474	100	7,759	53.61	848	5.86	4,523	31.25	1,275	8.81	69	0.48
Urban	1,611	100	866	53.76	58	3.60	237	14.71	403	25.02	48	2.98
Improved Seeds												
Rural and Urban	1,849	5.94	860	46.51	49	2.65	676	36.56	256	13.85	10	0.54
Rural	1,763	5.98	825	46.80	45	2.55	655	37.15	228	12.93	10	0.57
Meher	1,661	5.69	810	48.77	45	2.71	615	37.03	191	11.50	-	-
Belg	106	0.73	20	18.87	-	-	40	37.74	37	34.91	10	9.43
Urban	87	5.40	34	39.08	4	4.60	21	24.14	27	31.03	-	-
Irrigation												
Rural and Urban	128	0.41	47	36.72	-	-	42	32.81	39	30.47	-	-
Rural	113	0.38	42	37.17	-	-	42	37.17	29	25.66	-	-
Meher	99	0.34	42	42.42	-	-	42	42.42	15	15.15	-	-
Belg	14	0.10	-	-	-	-	-	-	14	100.00	-	-
Urban	15	0.93	5	33.33	-	-	-	-	10	66.67	-	-
Fertilizer												
Rural and Urban	3,892	12.51	2,317	59.53	109	2.80	1,065	27.36	357	9.17	44	1.13
Rural	3,862	13.09	2,303	59.63	109	2.82	1,060	27.45	346	8.96	44	1.14
Meher	3,431	11.75	2,085	60.77	76	2.22	949	27.66	277	8.07	44	1.28
Belg	599	4.14	311	51.92	45	7.51	160	26.71	84	14.02	-	-
Urban	30	1.86	14	46.67	-	-	5	16.67	11	36.67	-	-
Pesticides												
Rural and Urban	959	3.08	431	44.94	108	11.26	233	24.30	145	15.12	41	4.28
Rural	869	2.95	403	46.38	105	12.08	210	24.17	116	13.35	35	4.03
Meher	350	1.20	140	40.00	50	14.29	70	20.00	53	15.14	35	10.00
Belg	519	3.59	263	50.67	54	10.40	139	26.78	63	12.14	-	-
Urban	90	5.59	28	31.11	4	4.44	23	25.56	29	32.22	6	6.67
Extension Program												
Rural	275	0.93	65	23.64	10	3.64	161	58.55	18	6.55	21	7.64
Meher	245	0.84	61	24.90	10	4.08	157	64.08	14	5.71	3	1.22
Belg	30	0.21	4	13.33	-	-	4	13.33	4	13.33	18	60.00

SUMMARY TABLE VI.9: Holders Applying Agricultural Inputs and Practices in Rural and Urban Areas and Zones, for Private Holdings

Data Items	Number of Holders							
	Total	Percent	Rural Meher	Rural Belg	Rural	Percent	Urban Meher	Percent
Gambela Region								
Irrigation	128	100	99	*	113	100	*	100
Improved Seeds	1849	100	1661	106	1763	100	87	100
Pesticides	959	100	350	519	869	100	90	100
Fertilizers	3892	100	3431	599	3862	100	30	100
Zone 1								
Irrigation	63	49.22	52	-	52	46.02	*	*
Improved Seeds	201	10.87	127	37	164	9.30	37	42.53
Pesticides	116	12.10	*	-	*	*	85	94.44
Fertilizers	1132	29.09	1117	-	1117	28.92	*	*
Zone 2								
Irrigation	*	*	*	*	*	*	*	*
Improved Seeds	1648	89.13	1534	*	1599	90.70	50	57.47
Pesticides	843	87.90	319	519	838	96.43	*	*
Fertilizers	2760	70.91	2314	599	2745	71.08	*	*

6 DAMAGED CROPLAND AREAS AND SIZE OF HOLDINGS IN RURAL AREAS

This section of the chapter deals with the estimates of damaged cropland areas by size of holdings in Gambela Region. Cropland area damage includes any cropland planted or sown with intension to harvest crops, but failed to produce crop partly or fully due to various reasons. Out of the total cultivated cropland area, 11.17% in Meher and 3.01% in Belg seasons were affected by crop damage. The cropland area damage that accounted for 28.67% fall under holders in rural areas who had holding size that ranges from 1.01 and 2 hectares. On the other hand, holders in rural areas who had holding size of between 0.51 and 1 hectare accounted for 27.41% of the cropland area damage. With regard to the causes of crop damage, it is reported that 28.73% was damaged due to too much rain, 24.15% was caused by locust, 20.90% was due to crop disease, 11.08% was due to weeds (For details see Summary Table VI.10 and Fig VI.4).



7 FARM MANAGEMENT PRACTICES OF HOLDERS IN RURAL AREAS

In order to obtain more detailed information concerning the various types of farm practices of holders in rural areas, data were collected subjectively by interviewing sampled agricultural holders on the sources of water for irrigation schemes, method to improve soil fertility, method of plowing and soil conservation, participation in extension package programs, and use of credit or advisory services. Hence, the total number of holders reporting different farm management practices and their percentage distribution by type of farm management practices is presented in Summary Table VI.11. Following are discussions of the major findings with respect to these data.

7.1 Sources of Water for Irrigation Schemes

In a country like Ethiopia, where the amount, timing and distribution of rainfall is irregular, use of irrigation would significantly improve and raise the level of production. However, irrigation is not extensive in Gambela Region. The census data reveals that of the total holder in the rural areas only 2.07% reported to have used irrigation practices. Among these

SUMMARY TABLE VI.10: Causes of Damage of Cropland Area by Size of Holdings and Seasons in Rural Areas, for Private Holdings

Cause of Damage	Size of Holding (Hectares)							
	Total	Under 0.1	0.1 – 0.5	0.51 – 1.0	1.01 – 2.0	2.01 – 5.00	5.01 – 10.0	Over 10
	Both Seasons							
Total	1507	23	337	413	432	275	*	-
Percent,,	100	1.53	22.36	27.41	28.67	18.25	*	-
Crop Disease	315	3	100	105	78	29	-	-
Percent..	20.90	0.95	31.75	33.33	24.76	9.21	-	-
Frost or Floods	127	*	31	29	47	17	*	-
Percent,,	8.43	*	24.41	22.83	37.01	13.39	*	-
Locust	364	6	73	109	105	70	*	-
Percent,,	24.15	1.65	20.05	29.95	28.85	19.23	*	-
Shortage of Rain	32	*	13	10	9	*	-	-
Percent,,	2.12	*	40.63	31.25	28.13	*	-	-
Too Much Rain	433	*	45	101	134	122	*	-
Percent,,	28.73	*	10.39	23.33	30.95	28.18	*	-
Wild Animals	*	-	-	*	*	*	-	-
Percent,,	*	-	-	*	*	*	-	-
Birds	-	-	-	-	-	-	-	-
Percent,,	-	-	-	-	-	-	-	-
Hailstone	53	*	15	11	10	*	-	-
Percent,,	3.52	-	28.30	20.75	18.87	*	-	-
Pests and Insects	6	-	*	2	-	*	-	-
Percent,,	0.40	-	*	33.33	-	*	-	-
Weeds	167	5	57	46	40	*	-	-
Percent,,	11.08	2.99	34.13	27.54	23.95	*	-	-
Others	1	*	*	*	*	*	-	-
Percent,,	0.07	*	*	*	*	*	-	-
	Meher Season							
Total	1417	16	290	396	415	274	*	-
Crop Disease	298	3	93	103	71	29	-	-
Frost or Floods	126	*	30	29	47	17	*	-
Locust	353	5	68	106	104	70	*	-
Shortage of Rain	31	*	12	10	9	*	-	-
Too Much Rain	428	4	45	101	131	122	*	-
Wild Animals	*	-	-	*	*	*	-	-
Birds	-	-	-	-	-	-	-	-
Hailstone	53	*	15	11	10	*	-	-
Pests and Insects	6	-	*	2	-	*	-	-
Weeds	112	1	23	34	35	*	-	-
Others	*	-	*	*	*	*	-	-
	Belg Season							
Total	90	15	64	*	*	-	-	-
Crop Disease	17	2	9	*	-	-	-	-
Frost or Floods	1	*	*	-	-	-	-	-
Locust	*	1	*	*	*	-	-	-
Shortage of Rain	*	-	*	-	-	-	-	-
	*	*	*	*	-	-	-	-
Wild Animals	-	-	-	-	-	-	-	-
Birds	-	-	-	-	-	-	-	-
Hailstone	-	-	-	-	-	-	-	-
Pests and Insects	-	-	-	-	-	-	-	-
Weeds	55	12	40	*	*	-	-	-
Others	1	*	*	-	-	-	-	-

holders who practice this scheme sources of water for 82.34% percent and 14.51 percent of the holders were rivers and lakes, respectively. Utilization of other sources of water for irrigation is limited in the region. It should be noted that data on the number of holders who practice irrigation schemes and the number of holders reporting the sources of water for irrigation were collected in different period of time during the 2001/02 agricultural activities. In an enumeration area a total of 30 households were systematically sampled that mainly resulted a bout 30 holders. Thus, the data on number of holders practicing irrigation was collected in September (for ten households) and December (for twenty households). However, the data on the holders reporting the sources of water for irrigation was collected only in March. Hence, some discrepancy is observed in the total numbers of holders who have reported the use of irrigation practices presented in Summary Table VI.8 and VI.11.

During the 2001/02 EASE, an attempt has also been made to asses the extent of irrigation practice in urban areas. Thus, sources of water for irrigation under permanent crops in urban areas for Meher season have been assessed unfortunately the estimates are found unreliable (See Summary Table V1.12).

However, in the same summary table, out of the total crop holders, it is reported that only 343 holders (21.29 percent) in urban areas have practiced Belg crop production in the past three years prior to 2001/02 (1994 E.C.).

7.2 Methods Used to Improve Soil Fertility

The fertility of the soil in Ethiopia is being depleted slowly as time passes because of continuous cropping. In the census, holders were asked to state their method of improving soil fertility, that is whether they use crop rotation or burning of soil. Hence, the data showed that of the total holders about 36.04% have reported practicing crop rotation, while 2.21% reported practicing burning of soil as their main method for improving soil fertility.

7.3 Application of Chemical Fertilizers and Reasons for not Applying Fertilizers

In section 3, it was indicated that about 12.51% of the holders have applied both natural and chemical fertilizers. However, it was less than 1.29% of the total holders that applied chemical fertilizers. In order to gauge the attitude of holders who did not use chemical fertilizers, sampled households were asked the reasons for not using chemical fertilizers. The data in Summary Table VI.11, indicate that the majority of the holders did not use chemical fertilizers due to various reasons. A total of about 10256 holders which is the highest did not use chemical fertilizers due to lack of knowledge about the advantage, about 3018 holders due to shortage of money, about 9559 holders due to insufficient supply of fertilizers in their area, about 359 holders due to the high cost of fertilizer, 376 holders reported suspecting the efficiency of the fertilizers and about 140 holders reported due to absence of credit service to purchase fertilizers, and about 9394 holders mentioned "other reasons" for not using chemical fertilizers.

7.4 Method of Ploughing

One aspect to increase agricultural production is through mechanization. The replacement of hand digging and ox/horse driven ploughing method by tractor is of paramount importance for increasing the volume of agricultural production. In light of this, an attempt has been made to collect some basic information on method of ploughing by the holders at the time of the census enumeration. Thus, the majority of the holders (91.95%) reported to have used hand digging method and 3.44% of the holders that used ox/horse driven ploughing methods. Besides, holders who used both hand dug and ox/horse driven methods are accounted for about 3.97%. On the other hand, none of the holders have used tractor-only for ploughing. This ascertained the fact that the use of a tractor for ploughing among the holders in the rural areas of the region is not common or does not exist.

7.5 Methods Used for Soil Conservation

According to the data in Summary Table VI.11, the majority of the holders reported using different methods of soil conservation. Of which, 1.3, 1,1.87 and 1.54 percent of holders have practiced plowing along the contour, water catchments, terracing and afforestation, respectively. Moreover, 3.29% of the total holders reported that they have other methods for soil conservation.

7.6 Extension Packages, and Use of Agricultural Credit and Advisory Services

Extension packages are outreach programs operating in rural areas for private holdings aiming to transfer modern agricultural technologies to increase crop and livestock productivity. The programs are usually undertaken through close follow-up and advisory services by the agricultural development agents. A holder is said to be a participant of this program if and only if he/she obtains agricultural advices, apply the recommended inputs and other related services such as close follow up by the extension agent, supervision by wereda and zonal agricultural bureaus...etc on a regular basis. The prevalence of different types of extension packages were assessed during the enumeration, these include, rain shortage areas package, rain abundant areas packages, post harvest technology packages, ...etc. Thus, the data showed that about 0.94% of the agricultural holders were covered by rain abundant areas extension packages while about 0.83%of the total agricultural holders were covered by rain shortage extension package. The total agricultural holders covered by all other types of extension packages listed in the table are insignificant. In response to why they have not been covered by these extension packages since the program started, holders reported the reasons as follows: 27.98% of the holders reported no knowledge about the advantage 4.09% reported shortage of money, 55.65% reported program not available, 3.15% were suspicious of its efficiency and 1.74% reported other reasons., and 4.41% reported not sufficient arable land available.

In the country, there are institutions that provide credit and assist peasants by furnishing short and intermediate term loans for the purchase of chemical fertilizers, improved variety

seeds, and pesticides. These institutions not only give great emphasis to making loans to peasants but also aiding them with advice on farming practices. Then, data are collected by interviewing sampled holders on use of credit and advisory services and are presented in Summary Table VI.11. Thus, the data in this table showed that about 7.6 percent of holders used agricultural credit services and about 1.06 percent of the holders have obtained advice on agricultural practices. This shows that the use of credit and advisory services were limited in scope.

7.7 SOURCES AND COST OF CHEMICAL FERTILIZERS.

As illustrated in Summary Table V1.13, it is estimated that a total of 259 holders (0.97%) reported "Government" as their major sources of chemical fertilizers, while about 49 holders (0.18%) private organization as their major sources of chemical fertilizers. Regardless of the source, the average cost was 264.07 Birr/Quintal for DAP and 196 Birr/Quintal for UREA.

8 USES OF CROP SPECIFIC EXTENSION PACKAGE PROGRAMS

Extension package is one of the means by which productivity improves and thereby food production increases. Moreover, Agricultural Development Agents (ADA) assist the peasants by operating demonstration plots to provide information to agricultural holders on improved seed varieties, on use of fertilizers and pesticides, and improvements in production practices to increase yields. Further, advisory services are provided to holders to those who are willing to participate in the extension package programs.

8.1 Holders Participating in Crop Specific Extension Package Programs

In rural areas the distributions of holders participating in crop specific extension package programs are presented in Summary Tables VI.14. Accordingly, about 275 holders have been participating in crop specific package, that is, maize, by about 210 holders followed by sorghum by about 73 holders.

SUMMARY TABLE VI.11: Number of Holders by Type of Farm Management Practices in Rural Areas, for Private Holdings

Farm Practices	Number of Holders Reporting	Percentage
Total Crop Holders	26829	100
Source of Water for Irrigation		
Holders who Practice Irrigation	555	2.07
River	81	14.59
Lake	457	82.34
Pond	*	*
Other	-	-
Method to Improve Soil Fertility		
Crop Rotation	9668	36.04
Burning of Soil	594	2.21
Reason for Not Using Chemical Fertilizer		
Do Not Know Advantages	10256	
Too Expensive	359	
Shortage of Money	3018	
Insufficient Supply	9559	
No Credit Service	140	
Suspicious of Efficacy	376	
Other	9394	
Method of Plowing		
Hand Dug	24668	91.95
Ox/Horse Driven	923	3.44
Tractor	-	-
Hand Dug and Ox/Horse Driven	1065	3.97
Tractor and Ox/Horse Driven	58	0.22
Method of Soil Conservation		
Terracing	485	1.81
Water Catchments	269	1
Afforestation	414	1.54
Plowing Along the Contour	348	1.3
Others	883	3.29
All Holders	28463	100
Participation in Extension Package by Type		
Rain Shortage Areas Package	236	0.83
Rain Abundant Areas Package	268	0.94
Post Harvest Technology Package	-	-
Livestock Development Package	10	0.04
Economically Important Crops Package	84	0.3
Any Two or More Packages	*	*
Reason For Not Participating in Extension Packages		
Do Not Know the Advantages	7963	27.98
Shortage of Money	1164	4.09
Suspicious of Efficacy	896	3.15
Programs Not Available	15841	55.65
Not Sufficient Arable Land	1255	4.41
Others	494	1.74
Use of Credit or Advisory Services		
Credit Services	302	1.06
Advisory Services	2162	7.6

Summary Table VI.12 Holders who Practice Irrigation by Sources of Water in Meher Season and Holders who Practice Belg From 1999/2000 to 2001/02 in Urban Areas

Sources of Water	Number of Holders	Percent
Those who Practice Irrigation in Meher Season (2001/02)		
Crop Holders.....	1611	100
Holders who Practice Irrigation	*	*
Sources		
River.....	*	*
Lake.....	-	-
Well.....	-	-
Tap Water.....	-	-
Others.....	-	-
Not Stated.....	-	-
Those who Practice Belg from 1999/2000 to 2001/02		
Crop Holders.....	1611	100
Holders who Practice Belg.....	343	21.29
Male.....	237	14.71
Female.....	106	6.58

Summary Table VI.13: Holders by Sources of Chemical Fertilizers and Cost of Chemical Fertilizers in Rural Areas for Private Holdings.

Sources and Type of Fertilizers	Number of Holders	Percent
Crop Holders.....	26829	100
Sources		
Government.....	259	0.97
Private Organization	49	0.18
Traders.....	*	*
Others.....	*	*
Do not Buy.....	26310	98.07
Not Reported.....	191	0.71
Type of Fertilizers	**Cost in Birr/Quintal**	
DAP.....	264.07	
UREA.....	196	

8.2 Area Under Crop Specific Extension Package Programs

In the 2001/02 EASE, data on cropland area under extension package programs was collected. Thus, Summary Table VI.14 shows that a total of 83 hectares (0.50%) of the total

cropland area was under extension package programs. Out of the total cropland area under extension package programs, 72.29% was observed under maize, followed by sorghum. As can be observed from the data in the table, most of this extension package programs were mainly practiced in Meher season and the participation of holders in these programs are insignificant in Belg season. For details, see Summary Table VI.14

Summary Table VI.14: Number of Holders Participating Crop Specific Extension Package Program and Area under Crop Specific Extension Package Program By Season in Rural Areas, for Private Holdings.

Area in Hectares

Ext. Package by Crop	Rural				Meher		Belg	
	Holder	%	Area	%	Holder	Area	Holder	Area
Total	275	100	83	100	245	81	*	*
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	210	76.36	60	72.29	181	58	*	*
Sorguhm	73	26.55	*	*	73	*	-	-
Rice	*	*	*	*	*	*	-	-
Field peas	-	-	-	-	-	-	-	-
Haricot beans	*	*	*	*	*	*	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Sesame	*	*	*	*	*	*	-	-
Rapeseed	-	-	-	-	-	-	-	-
Other Grains	-	-	-	-	-	-	-	-
Tomatoes	*	*	*	*	*	*	*	*
Red Papper	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Sweet potatoes	*	*	*	*	*	*	-	-
Enset	*	*	*	*	*	*	*	*
Other Permanent	-	-	-	-	-	-	-	-

STATISTICAL TABLES PRESENTING RESULTS AT ZONE AND WEREDA LEVELS

Tables 6.1 – 6.56

TABLE 6.1: AREA OF CROPLAND UNDER IMPROVED FARM MANAGEMENT PRACTICES BY TYPE OF CROPS IN RURAL AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL	15671	442	2.82	*	*	636	4.06	108	0.69
Grain Crops	11392	211	1.85	*	*	529	4.64	103	0.9
Cereals	10659	208	1.95	*	*	522	4.9	83	0.78
Teff	5	-	-	-	-	-	-	-	-
Barley	9	-	-	-	-	-	-	-	-
Wheat	*	-	-	-	-	-	-	-	-
Maize	7882	163	2.07	1	0.01	459	5.82	75	0.95
Sorghum	2667	39	1.46	*	*	54	2.02	*	*
Finger millet	55	*	*	-	-	*	*	-	-
Oats ('Aja')	*	-	-	-	-	-	-	-	-
Rice	39	*	*	-	-	*	*	*	*
Pulses	224	*	*	-	-	5	2.23	*	*
Horse beans	*	-	-	-	-	*	*	-	-
Field peas	*	-	-	-	-	*	*	-	-
Haricot beans	220	*	*	-	-	5	2.27	*	*
Chick peas	*	-	-	-	-	-	-	-	-
Lentils	*	-	-	-	-	-	-	-	-
Vetch	*	-	-	-	-	*	*	-	-
Soya	*	-	-	-	-	-	-	-	-
Fenugreek	*	-	-	-	-	*	*	-	-
Gibto	*	-	-	-	-	*	*	-	-
Oil Seeds	366	*	*	-	-	*	*	*	*
Neug	*	-	-	-	-	-	-	-	-
Linseed	*	-	-	-	-	-	-	-	-
Ground nuts	26	*	*	-	-	*	*	-	-
Sufflower	1	-	-	-	-	-	-	-	-
Sesame	335	*	*	-	-	*	*	*	*
Rapeseed	*	*	*	-	-	-	-	-	-
Other Grains	142	*	*	-	-	*	*	*	*
Vegetables	611	*	*	*	*	18	2.95	*	*
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage	*	-	-	-	-	-	-	-	-
Kale	31	-	-	-	-	5	16.13	-	-
Tomatoes	8	*	*	*	*	*	*	*	*
Green peppers	5	-	-	-	-	*	*	-	-
Red peppers	20	-	-	-	-	*	*	-	-
Swiss chard	*	-	-	-	-	-	-	-	-
Others	546	-	-	-	-	11	2.01	*	*
Root Crops	380	*	*	*	*	12	3.16	*	*
Beet root	*	-	-	-	-	-	-	-	-
Carrot	*	-	-	-	-	*	*	-	-
Onions	*	-	-	-	-	*	*	-	-
Potatoes	3	-	-	-	-	-	-	-	-
Garlic	1	-	-	-	-	*	*	-	-
Taro ('Godere')	232	-	-	*	*	8	3.45	-	-
Sweet potatoes	111	-	-	-	-	5	4.5	*	*
Others	33	*	*	-	-	*	*	*	*
Permanent Crops	3289	231	7.02	*	*	76	2.31	*	*
Fruit Crops	361	*	*	*	*	8	2.22	*	*
Avocado	4	*	*	-	-	*	*	*	*
Bananas	181	*	*	*	*	3	1.66	*	*
Guava (Zeytuna)	4	*	*	-	-	*	*	-	-
Lemons	4	-	-	-	-	*	*	-	-
Mangoes	105	*	*	*	*	2	1.9	*	*
Oranges	10	*	*	-	-	*	*	-	-
Papayas	51	*	*	*	*	2	3.92	*	*
Pineapples	2	-	-	-	-	*	*	-	-
Others	1	-	-	-	-	*	*	-	-
Stimulant Crops	2463	227	9.22	*	*	10	0.41	-	-
Chat	37	-	-	-	-	*	*	-	-
Coffee	2411	227	9.42	*	*	10	0.41	-	-
Hops	14	-	-	-	-	*	*	-	-
Others	-	-	-	-	-	-	-	-	-
Other Permanent Crops	465	*	*	*	*	58	12.47	*	*
Enset	393	-	-	-	-	56	14.25	-	-
Sugar Cane	68	*	*	*	*	2	2.94	*	*
Others	4	-	-	-	-	*	*	-	-

TABLE 6.1.1: RURAL MEHER

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL	12684	421	3.32	*	*	593	4.68	84	0.66
Grain Crops	8470	190	2.24	1	0.01	487	5.75	79	0.93
Cereals	7877	188	2.39	1	0.01	480	6.09	59	0.75
Teff	5	-	-	-	-	-	-	-	-
Barley	9	-	-	-	-	-	-	-	-
Wheat	*	-	-	-	-	-	-	-	-
Maize	5110	143	2.8	1	0.02	418	8.18	52	1.02
Sorghum	2664	39	1.46	-	-	54	2.03	*	*
Finger millet	48	*	*	-	-	*	*	-	-
Oats ('Aja')	*	-	-	-	-	-	-	-	-
Rice	39	*	*	-	-	*	*	*	*
Pulses	116	*	*	-	-	5	4.31	*	*
Horse beans	*	-	-	-	-	*	*	-	-
Field peas	*	-	-	-	-	*	*	-	-
Haricot beans	112	*	*	-	-	4	3.57	*	*
Chick peas	*	-	-	-	-	-	-	-	-
Lentils	*	-	-	-	-	-	-	-	-
Vetch	*	-	-	-	-	*	*	-	-
Soya	*	-	-	-	-	-	-	-	-
Fenugreek	*	-	-	-	-	*	*	-	-
Gibto	*	-	-	-	-	*	*	-	-
Oil Seeds	345	*	*	-	-	*	*	*	*
Neug	*	-	-	-	-	-	-	-	-
Linseed	*	-	-	-	-	-	-	-	-
Ground nuts	26	*	*	-	-	*	*	-	-
Sufflower	1	-	-	-	-	-	-	-	-
Sesame	315	-	-	-	-	*	*	*	*
Rapeseed	*	*	*	-	-	-	-	-	-
Other Grains	132	*	*	-	-	*	*	-	-
Vegetables	562	*	*	*	*	17	3.02	*	*
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage	*	-	-	-	-	-	-	-	-
Kale	22	-	-	-	-	*	*	-	-
Tomatoes	8	*	*	*	*	*	*	*	*
Green peppers	5	-	-	-	-	*	*	-	-
Red peppers	20	-	-	-	-	*	*	-	-
Swiss chard	*	-	-	-	-	-	-	-	-
Others	506	-	-	-	-	11	2.17	*	*
Root Crops	363	*	*	*	*	12	3.31	*	*
Beet root	*	-	-	-	-	-	-	-	-
Carrot	*	-	-	-	-	*	*	-	-
Onions	*	-	-	-	-	*	*	-	-
Potatoes	*	-	-	-	-	-	-	-	-
Garlic	1	-	-	-	-	*	*	-	-
Taro ('Godere')	221	-	-	*	*	8	3.62	-	-
Sweet potatoes	108	-	-	-	-	4	3.7	*	*
Others	32	*	*	-	-	*	*	*	*
Permanent Crops	3289	231	7.02	*	*	76	2.31	*	*
Fruit Crops	361	*	*	*	*	8	2.22	*	*
Avocado	4	*	*	-	-	*	*	*	*
Bananas	181	*	*	*	*	3	1.66	*	*
Guava (Zeytuna)	4	*	*	-	-	*	*	-	-
Lemons	4	-	-	-	-	*	*	-	-
Mangoes	105	*	*	*	*	2	1.9	*	*
Oranges	10	*	*	-	-	*	*	-	-
Papayas	51	*	*	*	*	2	3.92	*	*
Pineapples	2	-	-	-	-	*	*	-	-
Others	1	-	-	-	-	*	*	-	-
Stimulant Crops	2463	227	9.22	*	*	10	0.41	-	-
Chat	37	-	-	-	-	*	*	-	-
Coffee	2411	227	9.42	*	*	10	0.41	-	-
Hops	14	-	-	-	-	*	*	-	-
Others	-	-	-	-	-	-	-	-	-
Other Permanent Crops	465	*	*	*	*	58	12.47	*	*
Enset	393	-	-	-	-	56	14.25	-	-
Sugar Cane	68	*	*	*	*	2	2.94	*	*
Others	4	-	-	-	-	*	*	-	-

TABLE 6.1.2: RURAL BELG

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL	2987	21	0.7	*	*	43	1.44	24	0.8
Grain Crops	2922	21	0.72	*	*	42	1.44	24	0.82
Cereals	2783	21	0.75	*	*	42	1.51	23	0.83
Teff	*	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-
Maize	2772	21	0.76	*	*	42	1.52	23	0.83
Sorghum	*	-	-	*	*	-	-	-	-
Finger millet	*	-	-	-	-	-	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	108	-	-	-	-	*	*	*	*
Horse beans	-	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
Haricot beans	108	-	-	-	-	*	*	*	*
Chick peas	-	-	-	-	-	-	-	-	-
Lentils	*	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	21	*	*	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-
Linseed	*	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-	-
Sufflower	*	-	-	-	-	-	-	-	-
Sesame	21	*	*	-	-	-	-	-	-
Rapeseed	*	-	-	-	-	-	-	-	-
Other Grains	10	-	-	-	-	*	*	*	*
Vegetables	49	-	-	-	-	*	*	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage	*	-	-	-	-	-	-	-	-
Kale	9	-	-	-	-	*	*	-	-
Tomatoes	*	-	-	-	-	-	-	-	-
Green peppers	*	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Others	39	-	-	-	-	*	*	-	-
Root Crops	16	-	-	-	-	*	*	-	-
Beet root	*	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onions	-	-	-	-	-	-	-	-	-
Potatoes	*	-	-	-	-	-	-	-	-
Garlic	*	-	-	-	-	-	-	-	-
Taro ('Godere')	11	-	-	-	-	*	*	-	-
Sweet potatoes	3	-	-	-	-	*	*	-	-
Others	*	-	-	-	-	-	-	-	-

TABLE 6.2: AREA OF CROPLAND UNDER IMPROVED FARM MANAGEMENT PRACTICES BY TYPE OF CROPS IN URBAN AREAS, MEHER SEASON

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL	909	50	5.5	*	*	*	*	10	1.1
Grain Crops	425	*	*	*	*	*	*	9	2.12
Cereals	377	*	*	*	*	*	*	9	2.39
Teff	-	-	-	-	-	-	-	-	-
Barley	*	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-
Maize	260	8	3.08	*	*	*	*	9	3.46
Sorghum	117	*	*	*	*	*	*	*	*
Finger millet	*	-	-	-	-	-	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	1	-	-	-	-	-	-	-	-
Horse beans	-	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
Haricot beans	1	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	23	*	*	*	*	*	*	*	*
Neug	-	-	-	-	-	-	-	-	-
Linseed	1	*	*	*	*	*	*	*	*
Ground nuts	17	*	*	-	-	*	*	*	*
Sufflower	-	-	-	-	-	-	-	-	-
Sesame	5	-	-	-	-	*	*	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Other Grains	24	-	-	-	-	-	-	-	-
Vegetables	4	-	-	-	-	-	-	*	*
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-	-
Kale	*	-	-	-	-	-	-	-	-
Tomatoes	*	-	-	-	-	-	-	*	*
Green peppers	*	-	-	-	-	-	-	-	-
Red peppers	*	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Others	*	-	-	-	-	-	-	-	-
Root Crops	4	-	-	-	-	-	-	*	*
Beet root	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onions	*	-	-	-	-	-	-	*	*
Potatoes	*	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro ('Godere')	*	-	-	-	-	-	-	-	-
Sweet potatoes	*	-	-	-	-	-	-	-	-
Others	2	-	-	-	-	-	-	*	*
Permanent Crops	476	38	7.98	*	*	*	*	*	*
Fruit Crops	9	-	-	-	-	-	-	*	*
Avocado	*	-	-	-	-	-	-	-	-
Bananas	2	-	-	-	-	-	-	-	-
Guava (Zeytuna)	*	-	-	-	-	-	-	-	-
Lemons	*	-	-	-	-	-	-	-	-
Mangoes	4	-	-	-	-	-	-	*	*
Oranges	*	-	-	-	-	-	-	-	-
Papayas	2	-	-	-	-	-	-	*	*
Pineapples	*	-	-	-	-	-	-	-	-
Others	*	-	-	-	-	-	-	-	-
Stimulant Crops	463	38	8.21	-	-	*	*	-	-
Chat	*	-	-	-	-	-	-	-	-
Coffee	462	38	8.23	-	-	*	*	-	-
Hops	*	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Other Permanent Crops	5	-	-	*	*	-	-	-	-
Enset	*	-	-	-	-	-	-	-	-
Sugar Cane	5	-	-	*	*	-	-	-	-
Others	-	-	-	-	-	-	-	-	-

TABLE 6:3 AREA OF CROPLAND UNDER IMPROVED FARM MANAGEMENT PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	16580	492	2.97	17	0.1	648	3.91	117	0.71
ZONE 1	2929	33	1.13	*	*	218	7.44	12	0.41
Jikawo	1001	*	*	-	-	150	14.99	-	-
Itang	1080	9	0.83	1	0.09	55	5.09	*	*
Gambela	848	23	2.71	*	*	*	*	12	1.42
ZONE 2	13651	459	3.36	*	*	430	3.15	106	0.78
Abobo	2415	117	4.84	*	*	252	10.43	77	3.19
Jor	551	*	*	*	*	32	5.81	-	-
Gog	1564	50	3.2	-	-	*	*	*	*
Godare	9120	291	3.19	*	*	129	1.41	28	0.31

TABLE 6.3.1:RURAL HOLDINGS

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	15671	442	2.82	*	*	636	4.06	108	0.69
ZONE 1	2700	21	0.78	1	0.04	210	7.78	*	*
Jikawo	1001	*	*	-	-	150	14.99	-	-
Itang	973	*	*	1	0.1	55	5.65	*	*
Gambela	726	14	1.93	*	*	*	*	*	*
ZONE 2	12971	421	3.25	*	*	426	3.28	105	0.81
Abobo	2415	117	4.84	*	*	252	10.43	77	3.19
Jor	551	*	*	*	*	32	5.81	-	-
Gog	1527	50	3.27	-	-	*	*	*	*
Godare	8477	253	2.98	*	*	127	1.5	28	0.33

TABLE 6.3.2 RURAL MEHER

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	12684	421	3.32	*	*	593	4.68	84	0.66
ZONE 1	2130	*	*	1	0.05	210	9.86	*	*
Jikawo	1001	*	*	-	-	150	14.99	-	-
Itang	703	1	0.14	1	0.14	55	7.82	*	*
Gambela	427	*	*	*	*	*	*	*	*
ZONE 2	10554	413	3.91	*	*	383	3.63	81	0.77
Abobo	2358	114	4.83	*	*	245	10.39	77	3.27
Jor	497	*	*	*	*	24	4.83	-	-
Gog	1246	50	4.01	-	-	*	*	*	*
Godare	6452	248	3.84	*	*	98	1.52	*	*

TABLE 6.3.3 RURAL BELG

Geographic Level	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	2987	21	0.7	*	*	43	1.44	24	0.8
ZONE 1	570	13	2.28	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	270	*	*	-	-	-	-	-	-
Gambela	299	*	*	-	-	-	-	-	-
ZONE 2	2418	*	*	*	*	43	1.78	24	0.99
Abobo	57	*	*	*	*	7	12.28	-	-
Jor	54	-	-	-	-	8	14.81	-	-
Gog	281	*	*	-	-	-	-	-	-
Godare	2025	*	*	-	-	*	*	24	1.19

TABLE 6.3.4 URBAN HOLDING

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	909	50	,5.5	*	*	*	*	10	1.1
ZONE 1 Zone	229	*	*	*	*	*	*	9	3.93
Itang	107	*	*	-	-	-	-	-	-
Gambela	122	*	*	*	*	*	*	9	7.38
ZONE 2 Zone	679	38	5.6	*	*	*	*	*	*
Gog	37	-	-	-	-	*	*	*	*
Godare	642	38	5.92	*	*	*	*	-	-
Dima	*	-	-	-	-	-	-	-	-

TABLE 6.4 AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Level	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	11816	223	1.89	*	*	542	4.59	112	0.95
ZONE 1	2690	32	1.19	*	*	215	7.99	12	0.45
Jikawo	938	*	*	-	-	150	15.99	-	-
Itang	1019	9	0.88	1	0.1	52	5.1	-	-
Gambela	733	22	3	*	*	*	*	12	1.64
ZONE 2	9126	190	2.08	*	*	327	3.58	100	1.1
Abobo	2019	116	5.75	*	*	233	11.54	72	3.57
Jor	537	*	*	*	*	29	5.4	-	-
Gog	1373	50	3.64	-	-	*	*	-	-
Godare	5196	23	0.44	-	-	49	0.94	28	0.54

TABLE 6.4.1 RURAL HOLDING

Geographic Level	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	11392	211	1.85	*	*	529	4.64	103	0.9
ZONE 1	2473	20	0.81	1	0.04	206	8.33	*	*
Jikawo	938	*	*	-	-	150	15.99	-	-
Itang	913	*	*	1	0.11	52	5.7	-	-
Gambela	622	13	2.09	-	-	*	*	*	*
ZONE 2	8919	190	2.13	*	*	323	3.62	100	1.12
Abobo	2019	116	5.75	*	*	233	11.54	72	3.57
Jor	537	*	*	*	*	29	5.4	-	-
Gog	1338	50	3.74	-	-	*	*	-	-
Godare	5024	23	0.46	-	-	47	0.94	28	0.56

TABLE 6.4.2 RURAL MEHER

Geographic Area	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	8470	190	2.24	1	0.01	487	5.75	79	0.93
ZONE 1	1911	*	*	1	0.05	206	10.78	*	*
Jikawo	938	*	*	-	-	150	15.99	-	-
Itang	643	1	0.16	1	0.16	52	8.09	-	-
Gambela	330	*	*	-	-	*	*	*	*
ZONE 2	6559	182	2.77	*	*	281	4.28	76	1.16
Abobo	1962	114	5.81	-	-	226	11.52	72	3.67
Jor	484	*	*	*	*	21	4.34	-	-
Gog	1069	50	4.68	-	-	*	*	-	-
Godare	3045	*	*	-	-	19	0.62	*	*

TABLE 6.4.3 RURAL BELG

Geographic Level	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	2922	21	0.72	*	*	42	1.44	24	0.82
ZONE 1	562	13	2.31	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	270	*	*	-	-	-	-	-	-
Gambela	292	*	*	-	-	-	-	-	-
ZONE 2	2360	*	*	*	*	42	1.78	24	1.02
Abobo	57	*	*	*	*	6	10.53	-	-
Jor	54	-	-	-	-	8	14.81	-	-
Gog	270	*	*	-	-	-	-	-	-
Godare	1980	*	*	-	-	*	*	24	1.21

TABLE 6.4.4 URBAN HOLDING

Geographic Level	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	425	*	*	*	*	*	*	9	2.12
ZONE 1 Zone	217	*	*	*	*	*	*	9	4.15
Itang	107	*	*	-	-	-	-	-	-
Gambela	110	*	*	*	*	*	*	9	8.18
ZONE 2 Zone	207	-	-	-	-	*	*	-	-
Gog	35	-	-	-	-	*	*	-	-
Godare	172	-	-	-	-	*	*	-	-
Dima	*	-	-	-	-	-	-	-	-

TABLE 6.5 AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Level	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	11036	220	1.99	*	*	533	4.83	92	0.83
ZONE 1	2601	31	1.19	*	*	210	8.07	11	0.42
Jikawo	923	*	*	-	-	150	16.25	-	-
Itang	995	9	0.9	1	0.1	47	4.72	-	-
Gambela	682	22	3.23	*	*	*	*	11	1.61
ZONE 2	8435	189	2.24	*	*	323	3.83	80	0.95
Abobo	1672	115	6.88	*	*	232	13.88	53	3.17
Jor	536	*	*	*	*	29	5.41	-	-
Gog	1363	50	3.67	-	-	*	*	-	-
Godare	4865	23	0.47	-	-	47	0.97	28	0.58

TABLE 6.5.1 RURAL HOLDINGS

Geographic Level	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	10659	208	1.95	*	*	522	4.9	83	0.78
ZONE 1	2406	20	0.83	1	0.04	202	8.4	*	*
Jikawo	923	*	*	-	-	150	16.25	-	-
Itang	888	*	*	1	0.11	47	5.29	-	-
Gambela	594	13	2.19	-	-	*	*	*	*
ZONE 2	8253	189	2.29	*	*	319	3.87	80	0.97
Akobo	1672	115	6.88	*	*	232	13.88	53	3.17
Jor	536	*	*	*	*	29	5.41	-	-
Gog	1329	50	3.76	-	-	*	*	-	-
Godare	4717	23	0.49	-	-	44	0.93	28	0.59

TABLE 6.5.2 RURAL MEHER

Geographic Area	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	7877	188	2.39	1	0.01	480	6.09	59	0.75
ZONE 1	*	*	1	0.05	202	10.94	*	*	*
Jikawo	*	*	-	-	150	16.25	-	-	*
Itang	1	0.16	1	0.16	47	7.59	-	-	1
Gambela	*	*	-	-	*	*	*	*	*
ZONE 2	181	3	*	*	278	4.61	57	0.95	181
Akobo	113	6.91	-	-	226	13.82	53	3.24	113
Jor	*	*	*	*	21	4.36	-	-	*
Gog	50	4.72	-	-	*	*	-	-	50
Godare	*	*	-	-	17	0.6	*	*	*

TABLE 6.5.2a Teff

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	5	-	-	-	-	-	-	-	-
ZONE 1	1	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	1	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	*	-	-	-	-	-	-	-	-
Akobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	*	-	-	-	-	-	-	-	-

TABLE 6.5.2b Barley

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	9	-	-	-	-	-	-	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	*	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	8	-	-	-	-	-	-	-	-
Akobo	*	-	-	-	-	-	-	-	-
Jor	*	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	4	-	-	-	-	-	-	-	-

TABLE 6.5.2c Maize

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	5110	143	2.8	1	0.02	418	8.18	52	1.02
ZONE 1	1716	1	0.06	1	0.06	192	11.19	*	*
Jikawo	919	-	-	-	-	150	16.32	-	-
Itang	603	1	0.17	1	0.17	42	6.97	-	-
Gambela	193	*	*	-	-	-	-	*	*
ZONE 2	3394	142	4.18	*	*	226	6.66	51	1.5
Akobo	1486	101	6.8	-	-	212	14.27	51	3.43
Jor	108	*	*	*	*	*	*	-	-
Gog	842	35	4.16	-	-	*	*	-	-
Godare	959	*	*	-	-	6	0.63	-	-

TABLE 6.5.2d Sorghum

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	2664	39	1.46	-	-	54	2.03	*	*
ZONE 1	127	*	*	-	-	*	*	*	*
Jikawo	*	*	*	-	-	-	-	-	-
Itang	15	-	-	-	-	5	33.33	-	-
Gambela	109	*	*	-	-	*	*	*	*
ZONE 2	2537	33	1.3	-	-	44	1.73	*	*
Akobo	100	*	*	-	-	*	*	-	-
Jor	374	-	-	-	-	*	*	-	-
Gog	202	14	6.93	-	-	*	*	-	-
Godare	1860	*	*	-	-	11	0.59	*	*

TABLE 6.5.2e Finger Millet

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	48	*	*	-	-	*	*	-	-
ZONE 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	48	*	*	-	-	*	*	-	-
Akobo	21	*	*	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	27	-	-	-	-	-	-	-	-

TABLE 6.5.2f Rice

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	39	*	*	-	-	*	*	*	*
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	38	*	*	-	-	*	*	*	*
Akobo	25	*	*	-	-	*	*	*	*
Jor	-	-	-	-	-	-	-	-	-
Gog	13	-	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-	-	-

TABLE 6.5.3 RURAL BELG

Geographic Level	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	2783	21	0.75	*	*	42	1.51	23	0.83
ZONE 1	560	13	2.32	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	269	*	*	-	-	-	-	-	-
Gambela	291	*	*	-	-	-	-	-	-
ZONE 2	2222	*	*	*	*	42	1.89	23	1.04
Abobo	37	*	*	*	*	6	16.22	-	-
Jor	54	-	-	-	-	8	14.81	-	-
Gog	269	*	*	-	-	-	-	-	-
Godare	1863	*	*	-	-	*	*	23	1.23

TABLE 6.5.4 URBAN HOLDINGS

Geographic Level	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	377	*	*	*	*	*	*	9	2.39
ZONE 1 Zone	195	*	*	*	*	*	*	9	4.62
Itang	107	*	*	-	-	-	-	-	-
Gambela	88	*	*	*	*	*	*	9	10.23
ZONE 2 Zone	182	-	-	-	-	*	*	-	-
Gog	34	-	-	-	-	*	*	-	-
Godare	148	-	-	-	-	*	*	-	-
Dima	*	-	-	-	-	-	-	-	-

TABLE 6.6: AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Level	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	225	*	*	-	-	5	2.22	*	*
ZONE 1	4482	178	3.97	*	*	1291	28.8	*	*
Jikawo	452	9	1.99	*	*	115	25.44	*	*
Itang	241	10	4.15	-	-	6	2.49	-	-
Gambela	1009	*	*	*	*	409	40.54	-	-
ZONE 2	106	*	*	*	*	7	6.6	-	-
Abobo	1581	*	*	*	*	52	3.29	-	-
Jor	868	147	16.94	-	-	683	78.69	*	*
Gog	225	*	*	-	-	19	8.44	-	-
Godare	2079	15	0.72	66	3.17	243	11.69	*	*

TABLE 6.6.1 RURAL HOLDINGS

Geographic Level	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	224	*	*	-	-	5	2.23	*	*
ZONE 1	47	*	*	-	-	4	8.51	-	-
Jikawo	13	*	*	-	-	-	-	-	-
Itang	19	*	*	-	-	4	21.05	-	-
Gambela	14	-	-	-	-	-	-	-	-
ZONE 2	178	*	*	-	-	1	0.56	*	*
Abobo	6	-	-	-	-	*	*	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	2	*	*	-	-	-	-	-	-
Godare	170	*	*	-	-	1	0.59	*	*

TABLE 6.6.2 RURAL MEHER

Geographic Level	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	116	*	*	-	-	5	4.31	*	*
ZONE 1	46	*	*	-	-	4	8.7	-	-
Jikawo	13	*	*	-	-	-	-	-	-
Itang	19	*	*	-	-	4	21.05	-	-
Gambela	14	-	-	-	-	-	-	-	-
ZONE 2	70	*	*	-	-	*	*	*	*
Abobo	6	-	-	-	-	*	*	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	2	*	*	-	-	-	-	-	-
Godare	63	*	*	-	-	*	*	-	-

TABLE 6.6.2a Haricot beans

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	112	*	*	-	-	4	3.57	*	*
ZONE 1	46	*	*	-	-	4	8.7	-	-
Jikawo	13	*	*	-	-	-	-	-	-
Itang	19	*	*	-	-	4	21.05	-	-
Gambela	14	-	-	-	-	-	-	-	-
ZONE 2	66	*	*	-	-	*	*	*	*
Abobo	6	-	-	-	-	*	*	*	*
Jor	-	-	-	-	-	-	-	-	-
Gog	2	*	*	-	-	-	-	-	-
Godare	59	*	*	-	-	*	*	-	-

TABLE 6.6.3 RURAL BELG

Geographic Area	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	108	-	-	-	-	*	*	*	*
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	107	-	-	-	-	*	*	*	*
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	107	-	-	-	-	*	*	*	*

TABLE 6.6.4 URBAN HOLDINGS

Geographic Level	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	179	12	6.7	*	*	*	*	*	*
ZONE 1 Zone	148	12	8.11	-	-	*	*	-	-
Itang	15	9	60	-	-	*	*	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2 Zone	17	*	*	-	-	9	52.94	-	-
Gog	2	-	-	-	-	2	100	-	-
Godare	46	-	-	-	-	-	-	-	-
Dima	*	-	-	-	-	*	*	-	-

TABLE 6.7: AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Area	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	389	*	*	*	*	*	*	*	*
ZONE 1	34	*	*	*	*	*	*	*	*
Jikawo	-	-	-	-	-	-	-	-	-
Itang	2	-	-	-	-	-	-	-	-
Gambela	32	*	*	*	*	*	*	*	*
ZONE 2	354	*	*	-	-	*	*	*	*
Abobo	340	*	*	-	-	*	*	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	6	*	*	-	-	*	*	-	-
Godare	9	*	*	-	-	-	-	-	-

TABLE 6.7.1 RURAL HOLDINGS

Geographic Level	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	366	*	*	-	-	*	*	*	*
ZONE 1	13	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	2	-	-	-	-	-	-	-	-
Gambela	10	-	-	-	-	-	-	-	-
ZONE 2	353	*	*	-	-	*	*	*	*
Abobo	340	*	*	-	-	*	*	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	5	*	*	-	-	*	*	-	-
Godare	9	*	*	-	-	-	-	-	-

TABLE 6.7.2 RURAL MEHER

Geographic Area	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	345	*	*	-	-	*	*	*	*
ZONE 1	12	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	2	-	-	-	-	-	-	-	-
Gambela	10	-	-	-	-	-	-	-	-
ZONE 2	333	*	*	-	-	*	*	*	*
Abobo	319	-	-	-	-	*	*	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	5	*	*	-	-	*	*	-	-
Godare	9	*	*	-	-	-	-	-	-

TABLE 6.7.2C Groundnuts

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	26	*	*	-	-	*	*	-	-
ZONE 1	4	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	1	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	22	*	*	-	-	*	*	-	-
Abobo	*	-	-	-	-	-	-	-	-
Jor	*	-	-	-	-	-	-	-	-
Gog	5	*	*	-	-	*	*	-	-
Godare	*	-	-	-	-	-	-	-	-

TABLE 6.7.2a Sufflower

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	1	-	-	-	-	-	-	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	1	-	-	-	-	-	-	-	-
Abobo	*	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	*	-	-	-	-	-	-	-	-

TABLE 6.7.2b Sesame

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	315	-	-	-	-	*	*	*	*
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	308	-	-	-	-	*	*	*	*
Abobo	300	-	-	-	-	*	*	*	*
Jor	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	7	-	-	-	-	-	-	-	-

TABLE 6.7.3 RURAL BELG

Geographic Area	Oil seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	21	*	*	-	-	-	-	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	21	*	*	-	-	-	-	-	-
Abobo	21	*	*	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	*	-	-	-	-	-	-	-	-

TABLE 6.7.4 URBAN HOLDINGS

Geographic Level	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	23	*	*	*	*	*	*	*	*
ZONE 1 Zone	22	*	*	*	*	*	*	*	*
Itang	-	-	-	-	-	-	-	-	-
Gambela	22	*	*	*	*	*	*	*	*
ZONE 2 Zone	*	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-	-	-
Dima	*	-	-	-	-	-	-	-	-

TABLE 6.8 AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Area	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	166	*	*	-	-	*	*	*	*
ZONE 1	7	-	-	-	-	*	*	-	-
Jikawo	*	-	-	-	-	-	-	-	-
Itang	3	-	-	-	-	*	*	-	-
Gambela	3	-	-	-	-	-	-	-	-
ZONE 2	159	*	*	-	-	*	*	*	*
Abobo	2	*	*	-	-	*	*	-	-
Jor	1	-	-	-	-	*	*	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	153	-	-	-	-	*	*	*	*

TABLE 6.8.1 RURAL HOLDINGS

Geographic Level	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	142	*	*	-	-	*	*	*	*
ZONE 1	7	-	-	-	-	*	*	-	-
Jikawo	*	-	-	-	-	-	-	-	-
Itang	3	-	-	-	-	*	*	-	-
Gambela	3	-	-	-	-	-	-	-	-
ZONE 2	135	*	*	-	-	*	*	*	*
Abobo	2	*	*	-	-	*	*	-	-
Jor	1	-	-	-	-	*	*	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	129	-	-	-	-	*	*	*	*

TABLE 6.8.2 RURAL MEHER

Geographic Area	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	132	*	*	-	-	*	*	-	-
ZONE 1	7	-	-	-	-	*	*	-	-
Jikawo	*	-	-	-	-	-	-	-	-
Itang	3	-	-	-	-	*	*	-	-
Gambela	3	-	-	-	-	-	-	-	-
ZONE 2	125	*	*	-	-	*	*	-	-
Abobo	2	*	*	-	-	*	*	-	-
Jor	1	-	-	-	-	*	*	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	119	-	-	-	-	*	*	-	-

TABLE 6.8.3 RURAL BELG

Geographic Area	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	10	-	-	-	-	*	*	*	*
ZONE 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	10	-	-	-	-	*	*	*	*
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	10	-	-	-	-	*	*	*	*

TABLE 6.9.1 RURAL HOLDINGS

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	611	*	*	*	*	18	2.95	*	*
ZONE 1	34	*	*	*	*	*	*	-	-
Jikawo	14	-	-	-	-	-	-	-	-
Itang	2	-	-	-	-	*	*	-	-
Gambela	18	*	*	*	*	-	-	-	-
ZONE 2	577	*	*	-	-	18	3.12	*	*
Abobo	331	*	*	-	-	12	3.63	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	159	-	-	-	-	*	*	-	-
Godare	86	-	-	-	-	5	5.81	-	-

TABLE 6.9.2 RURAL MEHER

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	562	*	*	*	*	17	3.02	*	*
ZONE 1	28	*	*	*	*	*	*	-	-
Jikawo	14	-	-	-	-	-	-	-	-
Itang	2	-	-	-	-	*	*	-	-
Gambela	11	*	*	*	*	-	-	-	-
ZONE 2	534	*	*	-	-	17	3.18	*	*
Abobo	331	*	*	-	-	12	3.63	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	150	-	-	-	-	*	*	-	-
Godare	53	-	-	-	-	5	9.43	-	-

TABLE 6.9.2a Kale

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	22	-	-	-	-	*	*	-	-
ZONE 1	*	-	-	-	-	*	*	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	*	*	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	22	-	-	-	-	*	*	-	-
Abobo	*	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	19	-	-	-	-	*	*	-	-

TABLE 6.9.2b Tomatoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	8	*	*	*	*	*	*	*	*
ZONE 1	*	*	*	*	*	*	*	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	*	*	-	-
Gambela	*	*	*	*	*	-	-	-	-
ZONE 2	4	*	*	-	-	*	*	*	*
Abobo	*	*	*	-	-	*	*	*	*
Jor	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	*	-	-	-	-	-	-	-	-

TABLE 6.9.2c Green peppers

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	5	-	-	-	-	*	*	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	5	-	-	-	-	*	*	-	-
Abobo	2	-	-	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	2	-	-	-	-	*	*	-	-

TABLE 6.9.2d Red peppers

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	20	-	-	-	-	*	*	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	20	-	-	-	-	*	*	-	-
Abobo	*	-	-	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	17	-	-	-	-	*	*	-	-

TABLE 6.9.2e Other Vegetables

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	506	-	-	-	-	11	2.17	*	*
ZONE 1	145	*	*	*	*	24	16.55	-	-
Jikawo	55	-	-	-	-	*	*	-	-
Itang	29	*	*	-	-	*	*	-	-
Gambela	*	-	-	-	-	*	*	-	-
ZONE 2	12	*	*	-	-	3	25	-	-
Abobo	18	-	-	*	*	*	*	-	-
Jor	10	-	-	-	-	6	60	-	-
Gog	*	-	-	-	-	*	*	-	-
Godare	321	*	*	*	*	94	29.28	*	*

TABLE 6.9.3 RURAL BELG

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	49	-	-	-	-	*	*	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	43	-	-	-	-	*	*	-	-
Abobo	*	-	-	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	9	-	-	-	-	-	-	-	-
Godare	34	-	-	-	-	*	*	-	-

TABLE 6.9.4 URBAN HOLDINGS

Geographic Level	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	4	-	-	-	-	-	-	*	*
ZONE 1 Zone	3	-	-	-	-	-	-	*	*
Itang	-	-	-	-	-	-	-	-	-
Gambela	3	-	-	-	-	-	-	*	*
ZONE 2 Zone	*	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	*	-	-	-	-	-	-	-	-
Dima	*	-	-	-	-	-	-	-	-

TABLE 6.10.AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURALAND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	1171	*	*	83	7.09	430	36.72	*	*
ZONE 1	488	*	*	47	9.63	243	49.8	-	-
Jikawo	85	-	-	*	*	54	63.53	-	-
Itang	*	-	-	-	-	-	-	-	-
Gambela	349	*	*	46	13.18	172	49.28	-	-
ZONE 2	*	-	-	-	-	-	-	-	-
Abobo	31	-	-	*	*	*	*	-	-
Jor	20	-	-	-	-	9	45	-	-
Gog	*	*	*	-	-	*	*	-	-
Godare	592	*	*	29	4.9	154	26.01	*	*

TABLE 6.10.1 RURAL HOLDINGS

Geographic Level	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	380	*	*	*	*	12	3.16	*	*
ZONE 1	70	-	-	*	*	1	1.43	-	-
Jikawo	38	-	-	-	-	*	*	-	-
Itang	13	-	-	-	-	1	7.69	-	-
Gambela	19	-	-	*	*	*	*	-	-
ZONE 2	310	*	*	*	*	11	3.55	*	*
Abobo	44	*	*	-	-	5	11.36	*	*
Jor	7	-	-	*	*	*	*	-	-
Gog	11	-	-	-	-	-	-	-	-
Godare	248	-	-	-	-	4	1.61	-	-

TABLE 6.10.2 RURAL MEHER

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	363	*	*	*	*	12	3.31	*	*
ZONE 1	69	-	-	*	*	1	1.45	-	-
Jikawo	38	-	-	-	-	*	*	-	-
Itang	13	-	-	-	-	1	7.69	-	-
Gambela	18	-	-	*	*	*	*	-	-
ZONE 2	295	*	*	*	*	11	3.73	*	*
Abobo	43	*	*	-	-	5	11.63	*	*
Jor	7	-	-	*	*	*	*	-	-
Gog	9	-	-	-	-	-	-	-	-
Godare	236	-	-	-	-	4	1.69	-	-

TABLE 6.10.2a Garlic

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	1	-	-	-	-	*	*	-	-
ZONE 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	1	-	-	-	-	*	*	-	-
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	1	-	-	-	-	*	*	-	-

TABLE 6.10.2b Taro ('Godere')

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	221	-	-	*	*	8	3.62	-	-
ZONE 1	17	-	-	*	*	1	5.88	-	-
Jikawo	*	-	-	-	-	*	*	-	-
Itang	11	-	-	-	-	1	9.09	-	-
Gambela	6	-	-	*	*	-	-	-	-
ZONE 2	203	-	-	*	*	6	2.96	-	-
Abobo	*	-	-	-	-	*	*	-	-
Jor	7	-	-	*	*	*	*	-	-
Gog	5	-	-	-	-	-	-	-	-
Godare	188	-	-	-	-	*	*	-	-

TABLE 6.10.2c Sweet potatoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	108	-	-	-	-	4	3.7	*	*
ZONE 1	44	-	-	-	-	-	-	-	-
Jikawo	38	-	-	-	-	-	-	-	-
Itang	1	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	64	-	-	-	-	4	6.25	*	*
Abobo	36	-	-	-	-	4	11.11	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	2	-	-	-	-	-	-	-	-
Godare	26	-	-	-	-	*	*	-	-

TABLE 6.10.2d Other root crops

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	32	*	*	-	-	*	*	*	*
ZONE 1	7	-	-	-	-	*	*	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	*	*	-	-
Gambela	7	-	-	-	-	*	*	-	-
ZONE 2	25	*	*	-	-	*	*	*	*
Abobo	3	*	*	-	-	*	*	*	*
Jor	-	-	-	-	-	-	-	-	-
Gog	2	-	-	-	-	-	-	-	-
Godare	20	-	-	-	-	*	*	-	-

TABLE 6.10.3 RURAL BELG

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	16	-	-	-	-	*	*	-	-
ZONE 1	1	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	15	-	-	-	-	*	*	-	-
Abobo	*	-	-	-	-	*	*	-	-
Jor	*	-	-	-	-	*	*	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	12	-	-	-	-	*	*	-	-

TABLE 6.10.4 URBAN HOLDINGS

Geographic Level	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	4	-	-	-	-	-	-	*	*
ZONE 1 Zone	4	-	-	-	-	-	-	*	*
Itang	-	-	-	-	-	-	-	-	-
Gambela	4	-	-	-	-	-	-	*	*
ZONE 2 Zone	*	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	*	-	-	-	-	-	-	-	-
Dima	*	-	-	-	-	-	-	-	-

TABLE 6.11 AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, MEHER SEASON, FOR PRIVATE HOLDINGS

Geographic Area	Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	2501	117	4.68	636	25.43	660	26.39	5	0.2
ZONE 1	776	17	2.19	500	64.43	238	30.67	*	*
Jikawo	40	*	*	*	*	8	20	*	*
Itang	17	*	*	1	5.88	1	5.88	-	-
Gambela	546	*	*	461	84.43	153	28.02	*	*
ZONE 2	4	*	*	*	*	*	*	-	-
Abobo	83	*	*	14	16.87	43	51.81	*	*
Jor	58	*	*	11	18.97	18	31.03	*	*
Gog	28	1	3.57	*	*	*	*	*	*
Godare	1487	97	6.52	117	7.87	383	25.76	*	*

TABLE 6.11.1 RURAL MEHER

Geographic Area	Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	3289	231	7.02	*	*	76	2.31	*	*
ZONE 1	123	*	*	*	*	2	1.63	*	*
Jikawo	11	-	-	-	-	*	*	-	-
Itang	45	*	*	*	*	2	4.44	*	*
Gambela	67	*	*	*	*	*	*	-	-
ZONE 2	3165	230	7.27	*	*	74	2.34	*	*
Abobo	22	*	*	*	*	*	*	*	*
Jor	7	-	-	*	*	*	*	-	-
Gog	18	*	*	-	-	*	*	*	*
Godare	3119	230	7.37	*	*	70	2.24	*	*

TABLE 6.11.2 URBAN HOLDINGS

Geographic Level	Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	476	38	7.98	*	*	*	*	*	*
ZONE 1 Zone	5	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	5	-	-	-	-	-	-	-	-
ZONE 2 Zone	471	38	8.07	*	*	*	*	*	*
Gog	2	-	-	-	-	-	-	*	*
Godare	470	38	8.09	*	*	*	*	-	-
Dima	-	-	-	-	-	-	-	-	-

TABLE 6.12 AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, MEHER SEASON, FOR PRIVATE HOLDINGS

Geographic Area	Fruit Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	1171	8	0.68	119	10.16	304	25.96	2	0.17
ZONE 1	189	2	1.06	61	32.28	68	35.98	*	*
Jikawo	13	*	*	2	15.38	*	*	-	-
Itang	17	*	*	1	5.88	*	*	-	-
Gambela	43	*	*	36	83.72	17	39.53	-	-
ZONE 2	2	*	*	*	*	*	*	-	-
Abobo	45	*	*	*	*	20	44.44	*	*
Jor	50	*	*	9	18	16	32	*	*
Gog	20	*	*	*	*	*	*	*	*
Godare	775	6	0.77	57	7.35	200	25.81	1	0.13

TABLE 6.12.1 RURAL MEHER

Geographic Area	Fruit Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	361	*	*	*	*	8	2.22	*	*
ZONE 1	121	*	*	*	*	2	1.65	*	*
Jikawo	11	-	-	-	-	*	*	-	-
Itang	44	*	*	*	*	2	4.55	*	*
Gambela	67	*	*	*	*	*	*	-	-
ZONE 2	240	*	*	*	*	6	2.5	*	*
Abobo	21	*	*	*	*	*	*	*	*
Jor	7	-	-	*	*	*	*	-	-
Gog	17	*	*	-	-	*	*	*	*
Godare	195	*	*	-	-	2	1.03	*	*

TABLE 6.12.1a Avocado

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	4	*	*	-	-	*	*	*	*
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	4	*	*	-	-	*	*	*	*
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	4	*	*	-	-	*	*	*	*

TABLE 6.12.1b Bananas

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	181	*	*	*	*	3	1.66	*	*
ZONE 1	50	*	*	*	*	1	2	*	*
Jikawo	5	-	-	-	-	*	*	-	-
Itang	14	-	-	*	*	*	*	*	*
Gambela	31	*	*	*	*	*	*	-	-
ZONE 2	131	*	*	*	*	*	*	-	-
Abobo	*	-	-	-	-	-	-	-	-
Jor	5	-	-	*	*	*	*	-	-
Gog	3	-	-	-	-	-	-	-	-
Godare	123	*	*	-	-	1	0.81	-	-

TABLE 6.12.1c Guava (Zeytuna)

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	4	*	*	-	-	*	*	-	-
ZONE 1	*	*	*	-	-	*	*	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	*	*	-	-
Gambela	*	*	*	-	-	-	-	-	-
ZONE 2	3	*	*	-	-	-	-	-	-
Abobo	*	*	*	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	1	-	-	-	-	-	-	-	-

TABLE 6.12.1d Lemons

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	4	-	-	-	-	*	*	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	4	-	-	-	-	*	*	-	-
Abobo	*	-	-	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	2	-	-	-	-	-	-	-	-

TABLE 6.12.1e Mangoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	105	*	*	*	*	2	1.9	*	*
ZONE 1	59	*	*	*	*	1	1.69	-	-
Jikawo	3	-	-	-	-	-	-	-	-
Itang	25	*	*	-	-	1	4	-	-
Gambela	31	-	-	*	*	-	-	-	-
ZONE 2	45	*	*	-	-	1	2.22	*	*
Abobo	3	*	*	-	-	*	*	*	*
Jor	1	-	-	-	-	-	-	-	-
Gog	7	-	-	-	-	*	*	-	-
Godare	35	*	*	-	-	*	*	-	-

TABLE 6.12.1f Oranges

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	10	*	*	-	-	*	*	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	*	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	10	*	*	-	-	*	*	-	-
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	10	*	*	-	-	*	*	-	-

TABLE 6.12.1g Papayas

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	51	*	*	*	*	2	3.92	*	*
ZONE 1	10	-	-	-	-	*	*	*	*
Jikawo	2	-	-	-	-	*	*	-	-
Itang	4	-	-	-	-	*	*	*	*
Gambela	4	-	-	-	-	-	-	-	-
ZONE 2	40	*	*	*	*	2	5	*	*
Abobo	13	*	*	*	*	*	*	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	7	*	*	-	-	*	*	*	*
Godare	20	-	-	-	-	*	*	-	-

TABLE 6.12.1h Pine apple

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	2	-	-	-	-	*	*	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	2	-	-	-	-	*	*	-	-
Abobo	*	-	-	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	2	-	-	-	-	-	-	-	-

TABLE 6.12.1i Other Fruits

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	1	-	-	-	-	*	*	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	1	-	-	-	-	*	*	-	-
Abobo	*	-	-	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	*	-	-	-	-	-	-	-	-

TABLE 6.12.2 URBAN HOLDINGS

Geographic Level	Fruit Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	9	-	-	-	-	-	-	*	*
ZONE 1 Zone	5	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	5	-	-	-	-	-	-	-	-
ZONE 2 Zone	4	-	-	-	-	-	-	*	*
Gog	2	-	-	-	-	-	-	*	*
Godare	2	-	-	-	-	-	-	-	-
Dima	-	-	-	-	-	-	-	-	-

TABLE 6.13:AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, MEHER SEASON, FOR PRIVATE HOLDINGS

Geographic Area	Stimulant Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	1256	108	8.6	489	38.93	326	25.96	*	*
ZONE 1	571	*	*	436	76.36	165	28.9	*	*
Jikawo	23	-	-	*	*	7	30.43	*	*
Itang	-	-	-	-	-	-	-	-	-
Gambela	502	*	*	425	84.66	136	27.09	*	*
ZONE 2	2	*	*	*	*	*	*	-	-
Abobo	34	*	*	*	*	20	58.82	*	*
Jor	1	-	-	*	*	*	*	*	*
Gog	*	*	*	*	*	*	*	-	-
Godare	657	90	13.7	36	5.48	160	24.35	*	*

TABLE 6.13.1: RURAL MEHER

Geographic Area	Stimulant Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	2463	227	9.22	*	*	10	0.41	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	2463	227	9.22	*	*	10	0.41	-	-
Abobo	*	-	-	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	2462	227	9.22	*	*	10	0.41	-	-

TABLE 6.13.1a Chat

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	37	-	-	-	-	*	*	-	-
ZONE 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	37	-	-	-	-	*	*	-	-
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	37	-	-	-	-	*	*	-	-

TABLE 6.13.1b Coffee

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	2411	227	9.42	*	*	10	0.41	-	-
ZONE 1	*	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	*	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	2411	227	9.42	*	*	10	0.41	-	-
Abobo	*	-	-	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	2411	227	9.42	*	*	10	0.41	-	-

TABLE 6.13.1c Gesho

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	14	-	-	-	-	*	*	-	-
ZONE 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	14	-	-	-	-	*	*	-	-
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-
Godare	14	-	-	-	-	*	*	-	-

TABLE 6.13.2 URBAN HOLDINGS

Geographic Level	Stimulant Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	463	38	8.21	-	-	*	*	-	-
ZONE 1 Zone	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2 Zone	463	38	8.21	-	-	*	*	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	463	38	8.21	-	-	*	*	-	-
Dima	-	-	-	-	-	-	-	-	-

TABLE 6.14:AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, MEHER SEASON, FOR PRIVATE HOLDINGS

Geographic Area	Other permanent crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	73	*	*	27	36.99	30	41.1	-	-
ZONE 1	15	-	-	3	20	*	*	-	-
Jikawo	*	-	-	*	*	*	*	-	-
Itang	1	-	-	-	-	*	*	-	-
Gambela	1	-	-	-	-	*	*	-	-
ZONE 2	*	-	-	*	*	-	-	-	-
Abobo	*	-	-	*	*	*	*	-	-
Jor	6	-	-	*	*	2	33.33	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	55	*	*	24	43.64	23	41.82	-	-

TABLE 6.14.1 RURAL MEHER

Geographic Area	Other permanent crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	465	*	*	*	*	58	12.47	*	*
ZONE 1	2	-	-	-	-	*	*	-	-
Jikawo	*	-	-	-	-	-	-	-	-
Itang	1	-	-	-	-	*	*	-	-
Gambela	*	-	-	-	-	*	*	-	-
ZONE 2	463	*	*	*	*	58	12.53	*	*
Abobo	*	-	-	*	*	*	*	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	1	-	-	-	-	-	-	-	-
Godare	461	*	*	-	-	58	12.58	-	-

TABLE 6.14.1a Enset

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	393	-	-	-	-	56	14.25	-	-
ZONE 1	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-
ZONE 2	393	-	-	-	-	56	14.25	-	-
Abobo	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	393	-	-	-	-	56	14.25	-	-

TABLE 6.14.1b Sugar cane

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	68	*	*	*	*	2	2.94	*	*
ZONE 1	1	-	-	-	-	*	*	-	-
Jikawo	*	-	-	-	-	-	-	-	-
Itang	1	-	-	-	-	*	*	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2	67	*	*	*	*	2	2.99	*	*
Abobo	*	-	-	*	*	-	-	*	*
Jor	*	-	-	-	-	-	-	-	-
Gog	1	-	-	-	-	-	-	-	-
Godare	65	*	*	-	-	2	3.08	-	-

TABLE 6.14.1c Other of Other Permanent Crops

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	4	-	-	-	-	*	*	-	-
ZONE 1	1	-	-	-	-	*	*	-	-
Jikawo	*	-	-	-	-	-	-	-	-
Itang	1	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	*	*	-	-
ZONE 2	3	-	-	-	-	*	*	-	-
Abobo	*	-	-	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	3	-	-	-	-	*	*	-	-

TABLE 6.14.2 URBAN HOLDINGS

Geographic Level	Other permanent crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Gambela Killil	5	-	-	*	*	-	-	-	-
ZONE 1 Zone	*	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	-	-	-	-
ZONE 2 Zone	5	-	-	*	*	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-
Godare	5	-	-	*	*	-	-	-	-
Dima	-	-	-	-	-	-	-	-	-

TABLE 6.15: NUMBER OF HOLDERS APPLYING FERTILIZERS, FERTILIZED AREA, AND QUANTITY OF FERTILIZERS BY CROP TYPE IN RURAL AREAS FOR BOTH SEASONS

CROP	Application of total Fertilizers		Application of Fertilizers by Type and Quantity				
			Natural		Chemical – DAP		
	Holders	Hectares	Holders	Hectares	Holders	Hectares	Quintals
TOTAL	3862	636	3598	427	239	120	99
Grain Crops	2469	529	2226	326	199	117	98
Cereals	2320	522	2076	319	199	117	98
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	2199	459	1966	281	183	92	84
Sorghum	210	54	195	37	*	*	*
Finger millet	*	*	*	*	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-
Rice	34	*	-	-	34	*	*
Pulses	297	5	293	5	-	-	-
Horse beans	*	*	*	*	-	-	-
Field peas	*	*	*	*	-	-	-
Haricot beans	224	5	220	5	-	-	-
Chick peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	*	*	*	*	-	-	-
Soya	-	-	-	-	-	-	-
Fenugreek	*	*	*	*	-	-	-
Gibto	*	*	*	*	-	-	-
Oil Seeds	*	*	*	*	-	-	-
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Ground nuts	*	*	*	*	-	-	-
Sufflower	-	-	-	-	-	-	-
Sesame	*	*	*	*	-	-	-
Rapeseed	-	-	-	-	-	-	-
Other Grains	62	*	62	*	-	-	-
Vegetables	1007	18	973	15	*	*	*
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Kale	576	5	576	5	-	-	-
Tomatoes	92	*	87	*	*	*	*
Green peppers	74	*	64	*	*	*	*
Red peppers	57	*	57	*	-	-	-
Swiss chard	-	-	-	-	-	-	-
Others	332	11	303	8	*	*	-
Root Crops	725	12	712	12	*	*	-
Beet root	-	-	-	-	-	-	-
Carrot	*	*	*	*	-	-	-
Onions	*	*	*	*	-	-	-
Potatoes	-	-	-	-	-	-	-
Garlic	*	*	*	*	-	-	-
Taro ('Godere')	439	8	439	8	-	-	-
Sweet potatoes	189	5	180	4	*	*	-
Others	*	*	*	*	-	-	-
Permanent Crops	1637	76	1561	73	*	*	*
Fruit Crops	798	8	735	7	*	*	*
Avocado	*	*	*	*	-	-	-
Bananas	313	3	297	3	*	*	*
Guava (Zeytuna)	*	*	*	*	-	-	-
Lemons	*	*	*	*	-	-	-
Mangoes	300	2	282	2	*	*	*
Oranges	*	*	*	*	-	-	-
Papayas	449	2	412	2	*	*	*
Pineapples	*	*	*	*	-	-	-
Others	*	*	*	*	-	-	-
Stimulant Crops	318	10	304	*	-	-	-
Chat	*	*	*	*	-	-	-
Coffee	214	10	201	*	-	-	-
Hops	*	*	*	*	-	-	-
Others	-	-	-	-	-	-	-
Other Permanent Crops	939	58	939	58	-	-	-
Enset	805	56	805	56	-	-	-
Sugar Cane	355	2	355	2	-	-	-
Others	118	*	118	*	-	-	-

TABLE 6.15 CONTD.

CROP	Application of Fertilizers by Type and Quantity					
	Chemical – UREA			Chemical - DAP & UREA		
	Holders	Hectares	Quintals	Holders	Hectares	Quintals
TOTAL	81	21	*	87	68	105
Grain Crops	50	*	*	87	68	105
Cereals	50	*	*	83	68	105
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	50	*	*	83	68	105
Sorghum	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-
Oats ('Aja')	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	-	-	-	*	*	-
Horse beans	-	-	-	-	-	-
Field peas	-	-	-	-	-	-
Haricot beans	-	-	-	*	*	-
Chick peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oil Seeds	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-
Sufflower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Grains	-	-	-	-	-	-
Vegetables	-	-	-	*	*	-
Lettuce	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-
Kale	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-
Others	-	-	-	*	*	-
Root Crops	*	*	-	-	-	-
Beet root	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onions	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Garlic	-	-	-	-	-	-
Taro ('Godere')	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-
Others	*	*	-	-	-	-
Permanent Crops	42	*	*	-	-	-
Fruit Crops	*	*	*	-	-	-
Avocado	-	-	-	-	-	-
Bananas	-	-	-	-	-	-
Guava (Zeytuna)	-	-	-	-	-	-
Lemons	-	-	-	-	-	-
Mangoes	*	*	*	-	-	-
Oranges	-	-	-	-	-	-
Papayas	*	*	-	-	-	-
Pineapples	-	-	-	-	-	-
Others	-	-	-	-	-	-
Stimulant Crops	*	*	-	-	-	-
Chat	-	-	-	-	-	-
Coffee	*	*	-	-	-	-
Hops	-	-	-	-	-	-
Others	-	-	-	-	-	-
Other Permanent Crops	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Sugar Cane	-	-	-	-	-	-
Others	-	-	-	-	-	-

TABLE 6.15.1 RURAL MEHER

CROP	Application of total Fertilizers		Application of Fertilizers by Type and Quantity				
			Natural		Chemical – DAP		
	Holders	Hectares	Holders	Hectares	Holders	Hectares	Quintals
TOTAL	3431	593	3151	384	239	120	99
Grain Crops	2016	487	1751	284	199	117	98
Cereals	1867	480	1601	277	199	117	98
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	1722	418	1466	240	183	92	84
Sorghum	210	54	195	37	*	*	*
Finger millet	*	*	*	*	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-
Rice	34	*	-	-	34	*	*
Pulses	266	5	262	5	-	-	-
Horse beans	*	*	*	*	-	-	-
Field peas	*	*	*	*	-	-	-
Haricot beans	193	4	189	4	-	-	-
Chick peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	*	*	*	*	-	-	-
Soya	-	-	-	-	-	-	-
Fenugreek	*	*	*	*	-	-	-
Gibto	*	*	*	*	-	-	-
Oil Seeds	*	*	*	*	-	-	-
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Ground nuts	*	*	*	*	-	-	-
Sufflower	-	-	-	-	-	-	-
Sesame	*	*	*	*	-	-	-
Rapeseed	-	-	-	-	-	-	-
Other Grains	50	*	50	*	-	-	-
Vegetables	960	17	926	15	*	*	*
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Kale	529	*	529	*	-	-	-
Tomatoes	92	*	87	*	*	*	*
Green peppers	74	*	64	*	*	*	*
Red peppers	57	*	57	*	-	-	-
Swiss chard	-	-	-	-	-	-	-
Others	332	11	303	8	*	*	-
Root Crops	704	12	691	12	*	*	-
Beet root	-	-	-	-	-	-	-
Carrot	*	*	*	*	-	-	-
Onions	*	*	*	*	-	-	-
Potatoes	-	-	-	-	-	-	-
Garlic	*	*	*	*	-	-	-
Taro ('Godere')	424	8	424	8	-	-	-
Sweet potatoes	184	4	174	4	*	*	-
Others	*	*	*	*	-	-	-
Permanent Crops	1637	76	1561	73	*	*	*
Fruit Crops	798	8	735	7	*	*	*
Avocado	*	*	*	*	-	-	-
Bananas	313	3	297	3	*	*	*
Guava (Zeytuna)	*	*	*	*	-	-	-
Lemons	*	*	*	*	-	-	-
Mangoes	300	2	282	2	*	*	*
Oranges	*	*	*	*	-	-	-
Papayas	449	2	412	2	*	*	*
Pineapples	*	*	*	*	-	-	-
Others	*	*	*	*	-	-	-
Stimulant Crops	318	10	304	*	-	-	-
Chat	*	*	*	*	-	-	-
Coffee	214	10	201	*	-	-	-
Hops	*	*	*	*	-	-	-
Others	-	-	-	-	-	-	-
Other Permanent Crops	939	58	939	58	-	-	-
Enset	805	56	805	56	-	-	-
Sugar Cane	355	2	355	2	-	-	-
Others	118	*	118	*	-	-	-

TABLE 6.15 .1 CONTD.

CROP	Application of Fertilizers by Type and Quantity					
	Chemical – UREA			Chemical - DAP & UREA		
	Holders	Hectares	Quintals	Holders	Hectares	Quintals
TOTAL	81	21	*	87	68	105
Grain Crops	50	*	*	87	68	105
Cereals	50	*	*	83	68	105
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	50	*	*	83	68	105
Sorghum	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-
Oats ('Aja')	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	-	-	-	*	*	-
Horse beans	-	-	-	-	-	-
Field peas	-	-	-	*	*	-
Haricot beans	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oil Seeds	-	-	-	-	-	-
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-
Sufflower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Other Grains	-	-	-	-	-	-
Vegetables	-	-	-	*	*	-
Lettuce	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-
Kale	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-
Others	-	-	-	-	-	-
Root Crops	*	*	-	*	*	-
Beet root	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onions	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-
Garlic	-	-	-	-	-	-
Taro ('Godere')	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-
Others	*	*	-	-	-	-
Permanent Crops	42	*	*	-	-	-
Fruit Crops	*	*	*	-	-	-
Avocado	-	-	-	-	-	-
Bananas	-	-	-	-	-	-
Guava (Zeytuna)	-	-	-	-	-	-
Lemons	-	-	-	-	-	-
Mangoes	*	*	*	-	-	-
Oranges	-	-	-	-	-	-
Papayas	*	*	-	-	-	-
Pineapples	-	-	-	-	-	-
Others	-	-	-	-	-	-
Stimulant Crops	*	*	-	-	-	-
Chat	-	-	-	-	-	-
Coffee	*	*	-	-	-	-
Hops	-	-	-	-	-	-
Others	-	-	-	-	-	-
Other Permanent Crops	-	-	-	-	-	-
Enset	-	-	-	-	-	-
Sugar Cane	-	-	-	-	-	-
Others	-	-	-	-	-	-

TABLE 6.15.2 RURAL BELG

CROP	Application of Total Fertilizer		Application of Fertilizer by Type and Quantity				
			Natural		Chemical – DAP		
	Holders	Hectares	Holders	Hectares	Holders	Hectares	Quintals
TOTAL	599	43	599	43	-	-	-
Grain Crops	589	42	589	42	-	-	-
Cereals	589	42	589	42	-	-	-
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	589	42	589	42	-	-	-
Sorghum	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulses	*	*	*	*	-	-	-
Horse beans	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	*	*	*	*	-	-	-
Chick peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oil Seeds	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-
Sufflower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Other Grains	*	*	*	*	-	-	-
Vegetables	*	*	*	*	-	-	-
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Kale	*	*	*	*	-	-	-
Tomatoes	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Others	*	*	*	*	-	-	-
Root Crops	*	*	*	*	-	-	-
Beet root	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onions	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-
Taro ('Godere')	*	*	*	*	-	-	-
Sweet potatoes	*	*	*	*	-	-	-
Others	-	-	-	-	-	-	-

TABLE 6.16: Number of Holders Applying Fertilizer, Fertilized Area, and Quantity of Fertilizers by Crop Type for Urban Areas in Meher Season, for Private Holdings

CROP	Application of Total Fertilizers		Application of Fertilizers by Type					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectares	Holders	Hectares	Holders	Hectares	Holders	Hectares
TOTAL	30	*	*	*	26	*	-	-
Grain Crops	25	*	*	*	21	*	-	-
Cereals	25	*	*	*	21	*	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	25	*	*	*	21	*	-	-
Sorghum	*	*	*	*	*	*	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulses	-	-	-	-	-	-	-	-
Horse beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oil Seeds	*	*	*	*	*	*	-	-
Neug	-	-	-	-	-	-	-	-
Linseed	*	*	-	-	*	*	-	-
Ground nuts	*	*	*	*	-	-	-	-
Sufflower	-	-	-	-	-	-	-	-
Sesame	*	*	*	*	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Other Grains	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Kale	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Root Crops	-	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onions	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro ('Godere')	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Permanent Crops	*	*	-	-	*	*	-	-
Fruit Crops	-	-	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava (Zeytuna)	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Stimulant Crops	*	*	-	-	*	*	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	*	*	-	-	*	*	-	-
Hops	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Other Permanent Crops	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar Cane	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-

TABLE 6.17: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

All Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	3892	648	3602	428	239	120	99
ZONE 1	1132	218	1107	211	*	*	*
Jikawo	710	150	699	150	*	*	*
Itang	380	55	380	55	-	-	-
Gambela	42	*	*	*	-	-	-
ZONE 2	2760	430	2495	217	228	120	98
Abobo	786	252	594	62	193	105	90
Jor	166	32	166	32	-	-	-
Gog	63	*	30	*	*	*	*
Godare	1745	129	1704	123	*	*	*
Dima	-	-	-	-	-	-	-

TABLE 6.17 Contd.

All Crops								
Geographic Area	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical - DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Gambela Killil	81	21	*	87	68	105	26	*
ZONE 1	*	*	-	-	-	-	*	*
Jikawo	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	*	*	-	-	-	-	*	*
ZONE 2	78	21	*	87	68	105	*	*
Abobo	46	*	*	87	68	105	-	-
Jor	-	-	-	-	-	-	-	-
Gog	*	*	-	-	-	-	*	*
Godare	*	*	-	-	-	-	*	*
Dima	-	-	-	-	-	-	-	-

TABLE 6.17.1: RURAL HOLDING

All Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	3862	636	3598	427	239	120	99
ZONE 1	1117	210	1103	210	*	*	*
Jikawo	710	150	699	150	*	*	*
Itang	380	55	380	55	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	2745	426	2495	217	228	120	98
Abobo	786	252	594	62	193	105	90
Jor	166	32	166	32	-	-	-
Gog	58	*	30	*	*	*	*
Godare	1734	127	1704	123	*	*	*

TABEL 6.17.1: CONTD.

Geographic Area	All Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Gambela Killil	81	21	*	87	68	105
ZONE 1	*	*	-	-	-	-
Jikawo	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambela	*	*	-	-	-	-
ZONE 2	78	21	*	87	68	105
Abobo	46	*	*	87	68	105
Jor	-	-	-	-	-	-
Gog	*	*	-	-	-	-
Godare	*	*	-	-	-	-

TABEL 6.17.2: RURAL MEHER

Geographic Area	All Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	3431	593	3151	384	239	120	99
ZONE 1	1117	210	1103	210	*	*	*
Jikawo	710	150	699	150	*	*	*
Itang	380	55	380	55	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	2314	383	2049	174	228	120	98
Abobo	762	245	554	56	193	105	90
Jor	97	24	97	24	-	-	-
Gog	58	*	30	*	*	*	*
Godare	1397	98	1368	94	*	*	*

TABEL 6.17.2: CONTD.

Geographic Area	All Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Gambela Killil	81	21	*	87	68	105
ZONE 1	*	*	-	-	-	-
Jikawo	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambela	*	*	-	-	-	-
ZONE 2	78	21	*	87	68	105
Abobo	46	*	*	87	68	105
Jor	-	-	-	-	-	-
Gog	*	*	-	-	-	-
Godare	*	*	-	-	-	-

TABEL 6.17.3: RURAL BELG

Geographic Area	All Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	599	43	599	43	-	-	-
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	599	43	599	43	-	-	-
Abobo	130	7	130	7	-	-	-
Jor	99	8	99	8	-	-	-
Gog	-	-	-	-	-	-	-
Godare	369	*	369	*	-	-	-

TABEL 6.17.4: URBAN HOLDINGS.

Geographic Area	All Crops							
	Application of Total Fertilizers		Type of Fertilizer Applied					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Gambela Killil	30	*	*	*	26	*	-	-
ZONE 1 Zone	*	*	*	*	*	*	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	*	*	*	*	*	*	-	-
ZONE 2 Zone	*	*	-	-	*	*	-	-
Gog	*	*	-	-	*	*	-	-
Godare	*	*	-	-	*	*	-	-
Dima	-	-	-	-	-	-	-	-

TABLE 6.18: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Grain Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	2494	542	2230	328	199	117	98
ZONE 1	990	215	979	208	-	-	-
Jikawo	687	150	687	150	-	-	-
Itang	278	52	278	52	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	1504	327	1251	120	199	117	98
Abobo	588	233	369	46	188	102	90
Jor	166	29	166	29	-	-	-
Gog	24	*	*	*	*	*	*
Godare	726	49	707	46	-	-	-
Dima	-	-	-	-	-	-	-

TABLE 6.18 Contd.

Geographic Area	Grain Crops							
	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical - DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Gambela Killil	50	*	*	87	68	105	21	*
ZONE 1	-	-	-	-	-	-	*	*
Jikawo	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	*	*
ZONE 2	50	*	*	87	68	105	*	*
Abobo	36	*	*	87	68	105	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	*	*
Godare	*	*	-	-	-	-	*	*
Dima	-	-	-	-	-	-	-	-

TABLE 6.18.1: RURAL HOLDING

Geographic Area	Grain Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	2469	529	2226	326	199	117	98
ZONE 1	975	206	975	206	-	-	-
Jikawo	687	150	687	150	-	-	-
Itang	278	52	278	52	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	1494	323	1251	120	199	117	98
Abobo	588	233	369	46	188	102	90
Jor	166	29	166	29	-	-	-
Gog	*	*	*	*	*	*	*
Godare	721	47	707	46	-	-	-

TABLE 6.18.1: CONTD.

Geographic Area	Grain Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Gambela Killil	50	*	*	87	68	105
ZONE 1	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambela	-	-	-	-	-	-
ZONE 2	50	*	*	87	68	105
Abobo	36	*	*	87	68	105
Jor	-	-	-	-	-	-
Gog	-	-	-	-	-	-
Godare	*	*	-	-	-	-

TABEL 6.18.2: RURAL MEHER

Geographic Area	Grain Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	2016	487	1751	284	199	117	98
ZONE 1	975	206	975	206	-	-	-
Jikawo	687	150	687	150	-	-	-
Itang	278	52	278	52	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	1041	281	776	78	199	117	98
Abobo	554	226	314	39	188	102	90
Jor	97	21	97	21	-	-	-
Gog	*	*	*	*	*	*	*
Godare	370	19	356	18	-	-	-

TABLE 6.18.2: CONTD.

Geographic Area	Grain Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Gambela Killil	50	*	*	87	68	105
ZONE 1	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambela	-	-	-	-	-	-
ZONE 2	50	*	*	87	68	105
Abobo	36	*	*	87	68	105
Jor	-	-	-	-	-	-
Gog	-	-	-	-	-	-
Godare	*	*	-	-	-	-

TABEL 6.18.3 : RURAL BELG

Geographic Area	Grain Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	589	42	589	42	-	-	-
ZONE 1	485	54	485	54	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	461	*	461	*	-	-	-
ZONE 2	-	-	-	-	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	*	*	*	*	-	-	-
Gog	-	-	-	-	-	-	-
Godare	1910	82	1910	82	-	-	-

TABEL 6.18.4: URBAN HOLDINGS

Geographic Area	Grain Crops							
	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Gambela Killil	25	*	*	*	21	*	-	-
ZONE 1 Zone	*	*	*	*	*	*	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	*	*	*	*	*	*	-	-
ZONE 2 Zone	*	*	-	-	*	*	-	-
Gog	*	*	-	-	*	*	-	-
Godare	*	*	-	-	*	*	-	-
Dima	-	-	-	-	-	-	-	-

TABLE 6.19: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS.

Geographic Area	Cereals						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	2345	533	2080	319	199	117	98
ZONE 1	976	210	965	203	-	-	-
Jikawo	687	150	687	150	-	-	-
Itang	263	47	263	47	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	1370	323	1115	116	199	117	98
Abobo	578	232	358	45	188	102	90
Jor	166	29	166	29	-	-	-
Gog	*	*	-	-	*	*	*
Godare	610	47	590	43	-	-	-
Dima	-	-	-	-	-	-	-

TABLE 6.19 Contd.

Geographic Area	Cereals							
	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical – DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Gambela Killil	50	*	*	83	68	105	21	*
ZONE 1	-	-	-	-	-	-	*	*
Jikawo	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	*	*
ZONE 2	50	*	*	83	68	105	*	*
Abobo	36	*	*	83	68	105	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	*	*
Godare	*	*	-	-	-	-	*	*
Dima	-	-	-	-	-	-	-	-

TABEL 6.19.1 RURAL HOLDING

Geographic Area	Cereals						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	2320	522	2076	319	199	117	98
ZONE 1	961	202	961	202	-	-	-
Jikawo	687	150	687	150	-	-	-
Itang	263	47	263	47	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	1360	319	1115	116	199	117	98
Abobo	578	232	358	45	188	102	90
Jor	166	29	166	29	-	-	-
Gog	*	*	-	-	*	*	*
Godare	604	44	590	43	-	-	-

TABLE 6.19.1 CONTD.

Geographic Area	Cereals					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Gambela Killil	50 *	*		83	68	105
ZONE 1	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambela	-	-	-	-	-	-
ZONE 2	50	*	*	83	68	105
Abobo	36	*	*	83	68	105
Jor	-	-	-	-	-	-
Gog	-	-	-	-	-	-
Godare	*	*	-	-	-	-

TABEL 6.19.2 RURAL MEHER

Geographic Area	Cereals						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	1867	480	1601	277	199	117	98
ZONE 1	961	202	961	202	-	-	-
Jikawo	687	150	687	150	-	-	-
Itang	263	47	263	47	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	906	278	640	75	199	117	98
Abobo	545	226	303	39	188	102	90
Jor	97	21	97	21	-	-	-
Gog	*	*	-	-	*	*	*
Godare	254	17	240	16	-	-	-

TABEL 6.19..2 : CONTD.

Geographic Area	Cereals					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Gambela Killil	50 *	*		83	68	105
ZONE 1	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambela	-	-	-	-	-	-
ZONE 2	50	*	*	83	68	105
Abobo	36	*	*	83	68	105
Jor	-	-	-	-	-	-
Gog	-	-	-	-	-	-
Godare	*	*	-	-	-	-

TABEL 6.19.2a: Maize

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	2199	459	1966	281	183	92	84
ZONE 1	940	192	940	192	-	-	-
Jikawo	687	150	687	150	-	-	-
Itang	253	42	253	42	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	1259	268	1026	90	183	92	84
Abobo	552	218	343	43	172	91	81
Jor	129	15	129	15	-	-	-
Gog	*	*	-	-	*	*	*
Godare	568	33	554	32	-	-	-

TABEL 6.19.2a: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Gambela Killil	50 *	*		83	68	105
ZONE 1	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambela	-	-	-	-	-	-
ZONE 2	50	*	*	83	68	105
Abobo	36	*	*	83	68	105
Jor	-	-	-	-	-	-
Gog	-	-	-	-	-	-
Godare	*	*	-	-	-	-

TABEL 6.19.2b: Sorghum

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	210	54	195	37	*	*	*
ZONE 1	38	*	38	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	27	5	27	5	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	172	44	157	26	*	*	*
Abobo	*	*	*	*	*	*	*
Jor	*	*	*	*	-	-	-
Gog	*	*	-	-	*	*	*
Godare	85	11	85	11	-	-	-

TABEL 6.19.2c : Rice

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	34	*	-	-	34	*	*
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	34	*	-	-	34	*	*
Abobo	34	*	-	-	34	*	*
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-

TABEL 6.19.3: RURAL BELG

Cereals							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	589	42	589	42	-	-	-
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	589	42	589	42	-	-	-
Abobo	130	6	130	6	-	-	-
Jor	99	8	99	8	-	-	-
Gog	-	-	-	-	-	-	-
Godare	360	*	360	*	-	-	-

TABEL 6.19.4: URBAN HOLDINGS

Geographic Area	Cereals							
	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Gambela Killil	25	*	*	*	21	*	-	-
ZONE 1 Zone	*	*	*	*	*	*	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	*	*	*	*	*	*	-	-
ZONE 2 Zone	*	*	-	-	*	*	-	-
Gog	*	*	-	-	*	*	-	-
Godare	*	*	-	-	*	*	-	-
Dima	-	-	-	-	-	-	-	-

TABLE 6.20: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS.

Geographic Area	Pulses						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	297	5	293	5	-	-	-
ZONE 1	142	4	142	4	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	142	4	142	4	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	154	1	150	1	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	145	1	145	1	-	-	-
Dima	-	-	-	-	-	-	-

TABEL 6.20.1: RURAL HOLDING

Geographic Area	Pulses						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	297	5	293	5	-	-	-
ZONE 1	142	4	142	4	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	142	4	142	4	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	154	1	150	1	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	145	1	145	1	-	-	-

TABEL 6.20.2: RURAL MEHER

Geographic Area	Pulses						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	266	5	262	5	-	-	-
ZONE 1	142	4	142	4	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	142	4	142	4	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	*	*	*	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-

TABEL 6.20.2a : Haricot beans

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	193	4	189	4	-	-	-
ZONE 1	139	4	139	4	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	139	4	139	4	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	*	*	*	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-

TABLE 6.21: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Oilseeds						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	24	*	18	*	-	-	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	*	*	*	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	*	*	*	*	-	-	-
Godare	-	-	-	-	-	-	-
Dima	-	-	-	-	-	-	-

TABLE 6.22: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Other Grains							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	62	*	62	*	-	-	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	58	*	58	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	*	*	*	*	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-
Dima	-	-	-	-	-	-	-

TABLE 6.22.1: RURAL HOLDING

Other Grains							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	62	*	62	*	-	-	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	58	*	58	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	*	*	*	*	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-

TABLE 6.22.2: RURAL MEHER

Other Grains							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	50	*	50	*	-	-	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	46	*	46	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	*	*	*	*	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-

TABLE 6.23: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AREAS, FOR PRIVATE HOLDINGS

Vegetables							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	1007	18	973	15	*	*	*
ZONE 1	14	*	14	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	14	*	14	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	994	18	960	15	*	*	*
Abobo	355	12	321	10	*	*	*
Jor	-	-	-	-	-	-	-
Gog	*	*	*	*	-	-	-
Godare	626	5	626	5	-	-	-
Dima	-	-	-	-	-	-	-

TABLE 6.23.1: RURAL HOLDING

Vegetables							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	1007	18	973	15	*	*	*
ZONE 1	14	*	14	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	14	*	14	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	994	18	960	15	*	*	*
Abobo	355	12	321	10	*	*	*
Jor	-	-	-	-	-	-	-
Gog	*	*	*	*	-	-	-
Godare	626	5	626	5	-	-	-

TABLE 6.23.2: RURAL MEHER

Vegetables							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	960	17	926	15	*	*	*
ZONE 1	14	*	14	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	14	*	14	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	946	17	912	14	*	*	*
Abobo	355	12	321	10	*	*	*
Jor	-	-	-	-	-	-	-
Gog	*	*	*	*	-	-	-
Godare	578	5	578	5	-	-	-

TABLE 6.23.2a: Kale

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	529	*	529	*	-	-	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	522	*	522	*	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	522	*	522	*	-	-	-

TABLE 6.23.2b Tomatoes

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	92	*	87	*	*	*	*
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	85	*	*	*	*	*	*
Abobo	85	*	*	*	*	*	*
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-

TABLE 6.23.2c: Green Peppers

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	74	*	64	*	*	*	*
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	74	*	64	*	*	*	*
Abobo	41	*	32	*	*	*	*
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-

TABLE 6.23.2d: Red peppers

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	57	*	57	*	-	-	-
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	57	*	57	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-

TABLE 6.23.2e: Other Vegetables

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	332	11	303	8	*	*	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	325	11	296	8	*	*	-
Abobo	255	10	226	8	*	*	-
Jor	-	-	-	-	-	-	-
Gog	*	*	*	*	-	-	-
Godare	*	*	*	*	-	-	-

TABLE 6.24: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS.

Root Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	725	12	712	12	*	*	-
ZONE 1	91	1	88	1	-	-	-
Jikawo	*	*	*	*	-	-	-
Itang	79	1	79	1	-	-	-
Gambela	*	*	-	-	-	-	-
ZONE 2	633	11	623	11	*	*	-
Abobo	213	5	204	5	*	*	-
Jor	*	*	*	*	-	-	-
Gog	-	-	-	-	-	-	-
Godare	379	4	379	4	-	-	-
Dima	-	-	-	-	-	-	-

TABLE 6.24.1: RURAL HOLDING

Geographic Area	Root Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	725	12	712	12	*	*	-
ZONE 1	91	1	88	1	-	-	-
Jikawo	*	*	*	*	-	-	-
Itang	79	1	79	1	-	-	-
Gambela	*	*	-	-	-	-	-
ZONE 2	633	11	623	11	*	*	-
Abobo	213	5	204	5	*	*	-
Jor	*	*	*	*	-	-	-
Gog	-	-	-	-	-	-	-
Godare	379	4	379	4	-	-	-

TABLE 6.24.2: RURAL MEHER

Geographic Area	Root Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	704	12	691	12	*	*	-
ZONE 1	91	1	88	1	-	-	-
Jikawo	*	*	*	*	-	-	-
Itang	79	1	79	1	-	-	-
Gambela	*	*	-	-	-	-	-
ZONE 2	613	11	603	11	*	*	-
Abobo	208	5	198	5	*	*	-
Jor	*	*	*	*	-	-	-
Gog	-	-	-	-	-	-	-
Godare	370	4	370	4	-	-	-

TABLE 6.24.2a: Taro ('Godere')

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	424	8	424	8	-	-	-
ZONE 1	83	1	83	1	-	-	-
Jikawo	*	*	*	*	-	-	-
Itang	74	1	74	1	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	341	6	341	6	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	*	*	*	*	-	-	-
Gog	-	-	-	-	-	-	-
Godare	279	*	279	*	-	-	-

TABLE 6.24.2b Sweet potatoes

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	184	4	174	4	*	*	-
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	184	4	174	4	*	*	-
Abobo	162	4	152	*	*	*	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-

TABLE 6.24.2c: Other Root Crops

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	*	*	*	*	-	-	-
ZONE 1	8	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	*	*	-	-	-	-	-
ZONE 2	*	*	*	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-

TABLE 6.25: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR MEHER SEASON.

Permanent Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	1643	76	1561	73	*	*	*
ZONE 1	212	2	201	2	*	*	*
Jikawo	*	*	*	*	*	*	*
Itang	175	2	175	2	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	1431	74	1360	71	*	*	*
Abobo	251	*	241	*	-	-	-
Jor	*	*	*	*	-	-	-
Gog	32	*	*	*	*	*	*
Godare	1129	70	1084	67	*	*	*
Dima	-	-	-	-	-	-	-

TABLE 6.25 CONTD.

Geographic Area	Permanent Crops							
	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical – DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Gambela Killil	42	*	*	-	-	-	*	*
ZONE 1	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-
ZONE 2	42	*	*	-	-	-	*	*
Abobo	*	*	*	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-
Gog	*	*	-	-	-	-	-	-
Godare	*	*	-	-	-	-	*	*
Dima	-	-	-	-	-	-	-	-

TABLE 6.25.1: RURAL MEHER

Geographic Area	Permanent Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	1643	76	1561	73	*	*	*
ZONE 1	212	2	201	2	*	*	*
Jikawo	*	*	*	*	*	*	*
Itang	175	2	175	2	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	1431	74	1360	71	*	*	*
Abobo	251	*	241	*	-	-	-
Jor	*	*	*	*	-	-	-
Gog	32	*	*	*	*	*	*
Godare	1129	70	1084	67	*	*	*

TABLE 6.25.1 CONTD:

Geographic Area	Permanent Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Gambela Killil	42	*	*	-	-	-
ZONE 1	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambela	-	-	-	-	-	-
ZONE 2	42	*	*	-	-	-
Abobo	*	*	*	-	-	-
Jor	-	-	-	-	-	-
Gog	*	*	-	-	-	-
Godare	*	*	-	-	-	-

TABLE 6.26: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR MEHER SEASON

Geographic Area	Fruit Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	798	8	735	7	*	*	*
ZONE 1	203	2	192	2	*	*	*
Jikawo	*	*	*	*	*	*	*
Itang	175	2	175	2	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	595	6	543	6	*	*	*
Abobo	241	*	231	*	-	-	-
Jor	*	*	*	*	-	-	-
Gog	32	*	*	*	*	*	*
Godare	302	2	277	2	*	*	*
Dima	-	-	-	-	-	-	-

TABLE 6.26 CONTD.

Geographic Area	Fruit Crops							
	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical – DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Gambela Killil	81	21	*	87	68	105	26	*
ZONE 1	*	*	-	-	-	-	*	*
Jikawo	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	*	*	-	-	-	-	*	*
ZONE 2	78	21	*	87	68	105	*	*
Abobo	46	*	*	87	68	105	-	-
Jor	-	-	-	-	-	-	-	-
Gog	*	*	-	-	-	-	*	*
Godare	*	*	-	-	-	-	*	*
Dima	-	-	-	-	-	-	-	-

TABLE 6.26.1: RURAL MEHER

Geographic Area	Fruit Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	798	8	735	7	*	*	*
ZONE 1	203	2	192	2	*	*	*
Jikawo	*	*	*	*	*	*	*
Itang	175	2	175	2	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	595	6	543	6	*	*	*
Abobo	241	*	231	*	-	-	-
Jor	*	*	*	*	-	-	-
Gog	32	*	*	*	*	*	*
Godare	302	2	277	2	*	*	*

TABLE 6.26.1a: Bananas

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	313	3	297	3	*	*	*
ZONE 1	95	1	95	1	-	-	-
Jikawo	*	*	*	*	-	-	-
Itang	78	*	78	*	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	218	*	203	*	*	*	*
Abobo	-	-	-	-	-	-	-
Jor	*	*	*	*	-	-	-
Gog	-	-	-	-	-	-	-
Godare	198	1	183	1	*	*	*

TABLE 6.26.1b: Mangoes

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	300	2	282	2	*	*	*
ZONE 1	127	1	127	1	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	127	1	127	1	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	173	1	155	1	*	*	*
Abobo	68	*	58	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	*	*	*	*	*	*	*
Godare	91	*	91	*	-	-	-

TABLE 6.26.1b: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Gambela Killil	*	*	*	-	-	-
ZONE 1	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-
Itang	-	-	-	-	-	-
Gambela	-	-	-	-	-	-
ZONE 2	*	*	*	-	-	-
Abobo	*	*	*	-	-	-
Jor	-	-	-	-	-	-
Gog	-	-	-	-	-	-
Godare	-	-	-	-	-	-

TABLE 6.26.1c: Papayas

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	449	2	412	2	*	*	*
ZONE 1	127	*	116	*	*	*	*
Jikawo	*	*	-	-	*	*	*
Itang	116	*	116	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	322	2	296	*	*	*	*
Abobo	141	*	141	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	32	*	*	*	*	*	*
Godare	*	*	*	*	-	-	-

TABLE 6.27: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN ASREAS, FOR MEHER SEASON

Geographic Area	Stimulant Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	324	10	304	*	-	-	-
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	324	10	304	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	306	10	286	*	-	-	-
Dima	-	-	-	-	-	-	-

TABLE 6.27.1: RURAL MEHER

Geographic Area	Stimulant Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	318	10	304	*	-	-	-
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	318	10	304	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	300	10	286	*	-	-	-

TABLE 6.27.1a: Coffee

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	214	10	201	*	-	-	-
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	214	10	201	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	197	10	183	*	-	-	-

TABLE 6.28: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN ASREAS, FOR MEHER SEASON

Other Permanent Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	939	58	939	58	-	-	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	927	58	927	58	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	918	58	918	58	-	-	-
Dima	-	-	-	-	-	-	-

TABLE 6.28.1: RURAL MEHER

Other Permanent Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	939	58	939	58	-	-	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	927	58	927	58	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	918	58	918	58	-	-	-

TABLE 6.28.1a: Enset

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	805	56	805	56	-	-	-
ZONE 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	805	56	805	56	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	805	56	805	56	-	-	-

TABLE 6.28.1b: Sugar Cane

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	355	2	355	2	-	-	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	*	*	*	*	-	-	-
Gambela	-	-	-	-	-	-	-
ZONE 2	352	2	352	2	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	352	2	352	2	-	-	-

TABLE 6.28.1c: Other of Other Permanent Crops

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Gambela Killil	118	*	118	*	-	-	-
ZONE 1	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	*	*	*	*	-	-	-
ZONE 2	110	*	110	*	-	-	-
Abobo	*	*	*	*	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-

TABLE 6.28: HOLDERS APPLYING IMPROVED SEEDS AND QUANTITY BY TYPE OF CROP FOR RURAL AREAS IN MEHER SEASON, FOR PRIVATE HOLDINGS

Geographic Area	All crop		Grain		Cereals		Teff	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
Gambela Killil	1661	58	662	58	602	57	-	-
ZONE 1	127	*	74	*	53	*	-	-
Jikawo	*	*	*	*	*	*	-	-
Itang	19	*	13	*	*	*	-	-
Gambela	88	*	*	*	*	*	-	-
ZONE 2	1534	55	588	55	550	55	-	-
Abobo	396	43	335	43	335	43	-	-
Jor	*	-	*	-	*	-	-	-
Gog	111	11	104	11	83	11	-	-
Godare	1022	*	145	*	128	*	-	-

Geographic Area	Barley		Wheat		Maize		Sorguhm	
Gambela Killil	-	-	-	-	481	41	180	9
ZONE 1	-	-	-	-	*	*	*	*
Jikawo	-	-	-	-	-	-	*	*
Itang	-	-	-	-	*	*	-	-
Gambela	-	-	-	-	*	-	*	*
ZONE 2	-	-	-	-	460	41	149	6
Abobo	-	-	-	-	*	*	*	*
Jor	-	-	-	-	*	-	-	-
Gog	-	-	-	-	74	8	40	*
Godare	-	-	-	-	*	-	87	*

TABLE 6.28: CONTD.

Geographic Area	Millet		Rice		Pulse		Horse bean	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
Gambela Killil	*	-	-	-	*	*	50	*
ZONE 1	-	-	-	-	-	-	*	*
Jikawo	-	-	-	-	-	-	*	*
Itang	-	-	-	-	-	-	*	-
Gambela	-	-	-	-	-	-	-	-
ZONE 2	*	-	-	-	*	*	*	-
Abobo	*	-	-	-	*	*	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	*	-
Godare	-	-	-	-	-	-	*	-

Geographic Area	Field peas		Haricot Beans		Chick peas		Soya beans	
Gambela Killil	-	-	-	-	50	*	-	-
ZONE 1	-	-	-	-	*	*	-	-
Jikawo	-	-	-	-	*	*	-	-
Itang	-	-	-	-	*	-	-	-
Gambela	-	-	-	-	-	-	-	-
ZONE 2	-	-	-	-	*	-	-	-
Abobo	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	-	-	-	*	-	-	-
Godare	-	-	-	-	*	-	-	-

TABLE 6.28: CONTD.

Geographic Area	Number of Holders who used Improved Seeds						
	Permanent	Fruit Crop	Avocado	Banana	Guavas (Zeytuna)	Lemons	Mango
Gambela Killil	955	181	45	*	*	-	*
ZONE 1	*	*	-	*	*	-	*
Jikawo	-	-	-	-	-	-	-
Itang	*	*	-	-	-	-	*
Gambela	*	*	-	*	*	-	-
ZONE 2	923	149	45	*	*	-	*
Abobo	*	*	-	-	*	-	*
Jor	-	-	-	-	-	-	-
Gog	*	*	-	-	-	-	-
Godare	877	103	45	*	-	-	*

TABLE 6.28: CONTD

Geographic Area	Number of Holders who used Improved Seeds							
	Orange	Papaya	Other Fruits	Stimulant	Coffee	Other Permanent	Sugar Cane	Enset
Gambela Killil	*	30	-	828	828	*	*	-
ZONE 1	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-
ZONE 2	*	30	-	828	828	*	*	-
Abobo	-	*	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	*	-	-	-	-	-	-
Godare	*	-	-	828	828	*	*	-

TABLE 6.29:Holders Applying Agricultural Inputs and Participating in Extension Programs by Level of Education in Rural andUrban Areas, for Private Holdings

EDUCATIONAL ATTAINMENT	All Crop Holders		Holders Applying Agricultural Inputs								Number and Percentage of Holders Participating in Agriculture Extension Programs	
			Improved Seed		Irrigation		Fertilizer		Pesticide			
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
ALL	31109	100	1849	5.94	128	0.41	3892	12.51	959	3.08	275	0.88
Illiterate.....	19173	100	860	4.49	*	*	2317	12.08	431	2.25	65	0.34
Literate, but no formal Education	1241	100	*	*	-	-	109	8.78	108	8.7	*	*
Completed Grade 1..	581	100	87	14.97	-	-	115	19.79	-	-	-	-
Completed Grade 2..	1069	100	*	*	*	*	169	15.81	*	*	*	*
Completed Grade 3..	1456	100	120	8.24	*	*	154	10.58	65	4.46	*	*
Completed Grade 4..	1518	100	182	11.99	-	-	236	15.55	62	4.08	*	*
Completed Grade 5..	1621	100	150	9.25	-	-	227	14	50	3.08	*	*
Completed Grade 6..	1403	100	108	7.7	*	*	164	11.69	*	*	*	*
Completed Grade 7..	1015	100	101	9.95	*	*	97	9.56	*	*	11	1.08
Completed Grade 8..	734	100	80	10.9	*	*	96	13.08	23	3.13	*	*
Completed Grade 9..	337	100	*	*	-	-	30	8.9	*	*	-	-
Completed Grade 10	191	100	*	*	*	*	*	*	*	*	*	*
Completed Grade 11	90	100	*	*	*	*	*	*	*	*	-	-
Completed Grade 12	434	100	26	5.99	*	*	79	18.2	*	*	-	-
Above Grade 12.....	247	100	*	*	-	-	*	*	*	*	*	*
Not Reported.....	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.29.1: RURAL HOLDINGS

EDUCATIONAL ATTAINMENT	All Crop Holders		Number of Holders Applying Agricultural Inputs								Number and Percentage of Holders Participating in Agriculture Extension Programs	
			Improved Seed		Irrigation		Fertilizer		Pesticide			
	Holders	%	Holders	%	Holders	%	Holders	%	Holder	%	Holders	%
ALL.....	29497	100	1763	5.98	113	0.38	3862	13.09	869	2.95	275	0.93
Illiterate	18307	100	825	4.51	*	*	2303	12.58	403	2.2	65	0.36
Literate, but no formal Education.....	1184	100	*	*	-	-	109	9.21	105	8.87	*	*
Completed Grade 1..	565	100	87	15.4	-	-	115	20.35	-	-	-	-
Completed Grade 2..	1029	100	*	*	*	*	169	16.42	*	*	*	*
Completed Grade 3..	1435	100	120	8.36	*	*	154	10.73	64	4.46	*	*
Completed Grade 4..	1450	100	172	11.86	-	-	230	15.86	56	3.86	*	*
Completed Grade 5..	1574	100	142	9.02	-	-	227	14.42	48	3.05	*	*
Completed Grade 6..	1359	100	104	7.65	*	*	164	12.07	*	*	*	*
Completed Grade 7..	961	100	101	10.51	*	*	97	10.09	*	*	11	1.14
Completed Grade 8..	654	100	76	11.62	*	*	96	14.68	*	*	*	*
Completed Grade 9..	317	100	*	*	-	-	30	9.46	*	*	-	-
Completed Grade 10	165	100	*	*	*	*	*	*	*	*	*	*
Completed Grade 11	56	100	*	*	*	*	*	*	-	-	-	-
Completed Grade 12	244	100	*	*	-	-	68	27.87	*	*	-	-
Above Grade 12.....	199	100	*	*	-	-	*	*	*	*	*	*
Not Reported.....	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.29.2: RURAL MEHER

EDUCATIONAL ATTAINMENT	All Crop Holders		Number of Holders Applying Agricultural Inputs								Number and Percentage of Holders Participating in Agriculture Extension Programs	
			Improved Seed		Irrigation		Fertilizer		Pesticide			
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
ALL.....	29188	100	1661	5.69	99	0.34	3431	11.75	350	1.2	245	0.84
Illiterate.....	18111	100	810	4.47	*	*	2085	11.51	140	0.77	61	0.34
Literate, but no formal Education.....	1180	100	*	*	-	-	76	6.44	50	4.24	*	*
Completed Grade 1 .	556	100	70	12.59	-	-	115	20.68	-	-	-	-
Completed Grade 2 .	1022	100	*	*	*	*	159	15.56	*	*	*	*
Completed Grade 3 .	1413	100	120	8.49	*	*	144	10.19	29	2.05	*	*
Completed Grade 4 .	1432	100	168	11.73	-	-	177	12.36	21	1.47	*	*
Completed Grade 5 .	1551	100	142	9.16	-	-	213	13.73	*	*	*	*
Completed Grade 6 .	1344	100	98	7.29	*	*	140	10.42	*	*	*	*
Completed Grade 7 .	955	100	69	7.23	*	*	88	9.21	-	-	7	0.73
Completed Grade 8 .	648	100	76	11.73	-	-	75	11.57	*	*	*	*
Completed Grade 9 .	317	100	*	*	-	-	20	6.31	*	*	-	-
Completed Grade 10	165	100	-	-	-	-	*	*	*	*	*	*
Completed Grade 11	56	100	*	*	*	*	*	*	-	-	-	-
Completed Grade 12	244	100	*	*	-	-	68	27.87	*	*	-	-
Above Grade 12.....	195	100	-	-	-	-	*	*	*	*	*	*
Not Reported.....	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.29.3: RURAL BELG

EDUCATIONAL ATTAINMENT	All Crop Holders		Number of Holders Applying Agricultural Inputs								Number and Percentage of Holders Participating in Agriculture Extension Programs	
			Improved Seed		Irrigation		Fertilizer		Pesticide			
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
ALL	14474	100	106	0.73	*	*	599	4.14	519	3.59	*	*
Illiterate	7759	100	20	0.26	-	-	311	4.01	263	3.39	*	*
Literate, but no formal Education	848	100	-	-	-	-	*	*	54	6.37	-	-
Completed Grade 1	373	100	*	*	-	-	*	*	-	-	-	-
Completed Grade 2	553	100	*	*	-	-	*	*	-	-	-	-
Completed Grade 3	874	100	-	-	-	-	*	*	*	*	-	-
Completed Grade 4	977	100	*	*	-	-	*	*	*	*	*	*
Completed Grade 5	1041	100	-	-	-	-	*	*	*	*	-	-
Completed Grade 6	705	100	*	*	-	-	*	*	*	*	-	-
Completed Grade 7	524	100	*	*	-	-	*	*	*	*	*	*
Completed Grade 8	309	100	-	-	*	*	*	*	-	-	-	-
Completed Grade 9	167	100	-	-	-	-	*	*	*	*	-	-
Completed Grade 10	88	100	*	*	*	*	*	*	-	-	-	-
Completed Grade 11	16	100	-	-	-	-	-	-	-	-	-	-
Completed Grade 12	171	100	-	-	-	-	*	*	*	*	-	-
Above Grade 12	*	*	*	*	-	-	-	-	-	-	*	*
Not Reported	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.29.4: URBAN HOLDINGS

EDUCATIONAL ATTAINMENT	All Crop Holders		Number & Percentage of Holders in Education Category who Applied:							
			Improved Seed		Irrigation		Fertilizer		Pesticide	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
ALL	1611	100	87	5.4	*	*	30	1.86	90	5.59
Illiterate	866	100	34	3.93	*	*	*	*	28	3.23
Literate, but no formal Education	58	100	*	*	-	-	-	-	*	*
Completed Grade 1	17	100	-	-	-	-	-	-	-	-
Completed Grade 2	39	100	-	-	-	-	-	-	*	*
Completed Grade 3	21	100	-	-	-	-	-	-	1	4.76
Completed Grade 4	68	100	*	*	-	-	*	*	*	*
Completed Grade 5	48	100	*	*	-	-	-	-	*	*
Completed Grade 6	44	100	*	*	-	-	-	-	*	*
Completed Grade 7	53	100	-	-	-	-	-	-	-	-
Completed Grade 8	80	100	*	*	*	*	-	-	*	*
Completed Grade 9	20	100	*	*	-	-	-	-	-	-
Completed Grade 10	26	100	-	-	-	-	-	-	-	-
Completed Grade 11	34	100	*	*	-	-	-	-	*	*
Completed Grade 12	190	100	*	*	*	*	*	*	*	*
Above Grade 12	48	100	-	-	-	-	-	-	*	*
Not Reported	-	-	-	-	-	-	-	-	-	-

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TABLE 6.30: TOTAL NUMBER OF HOLDERS BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	All Holding															
		Grades Completed by Holder														
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	31109	19173	1241	581	1069	1456	1518	1621	1403	1015	734	337	191	90	434	247
ZONE 1	12204	9025	214	154	285	269	371	437	415	400	230	80	34	33	146	111
Jikawo	5275	4597	112	*	96	69	85	49	123	72	28	-	-	-	-	*
Itang	4111	2746	48	73	95	100	137	219	146	215	154	47	*	*	59	43
Gambela	2818	1682	54	50	94	101	149	169	147	113	49	33	18	19	87	54
ZONE 2	18905	10148	1027	428	783	1187	1147	1184	987	615	504	257	157	57	287	*
Abobo	3736	2144	83	23	140	173	174	190	233	158	98	*	*	*	45	*
Jor	1041	832	*	-	*	*	*	*	*	*	*	-	-	-	-	-
Gog	2745	1863	34	*	42	69	94	123	175	111	84	28	22	21	72	-
Godare	11377	5308	892	396	593	915	872	846	559	303	264	157	*	*	169	29

TABLE 6.30.1: RURAL

Geographic Area	All Holding															
		Grades Completed by Holder														
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	29497	18307	1184	565	1029	1435	1450	1574	1359	961	654	317	165	56	244	199
ZONE 1	11264	8464	193	145	263	256	336	413	407	380	198	73	*	*	30	87
Jikawo	5275	4597	112	*	96	69	85	49	123	72	28	-	-	-	-	*
Itang	3701	2412	48	73	95	100	137	212	146	215	154	42	*	*	15	43
Gambela	2288	1455	*	41	73	87	114	151	139	92	*	*	*	*	*	*
ZONE 2	18233	9843	991	419	766	1179	1114	1160	952	581	456	244	153	49	214	*
Abobo	3736	2144	83	23	140	173	174	190	233	158	98	*	*	*	45	*
Jor	1041	832	*	-	*	*	*	*	*	*	*	-	-	-	-	-
Gog	2550	1727	34	*	42	69	86	123	170	106	70	24	*	*	57	-
Godare	10906	5139	855	388	576	908	846	823	529	276	231	*	*	-	112	*

TABLE 6.30.2: RURAL MEHER

Geographic Area	All Holding															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	29188	18111	1180	556	1022	1413	1432	1551	1344	955	648	317	165	56	244	195
ZONE 1	11191	8424	193	137	256	252	336	410	400	380	198	73	*	*	30	175
Jikawo	5275	4597	112	*	96	69	85	49	123	72	28	-	-	-	-	-
Itang	3675	2404	48	70	92	96	137	212	142	215	154	42	*	*	15	-
Gambela	2240	1423	*	36	69	87	114	149	136	92	*	*	*	*	*	-
ZONE 2	17997	9687	986	419	766	1162	1096	1140	944	575	450	244	153	49	214	-
Abobo	3736	2144	83	23	140	173	174	190	233	158	98	*	*	*	45	*
Jor	1013	808	*	-	*	*	*	*	*	*	*	-	-	-	-	99
Gog	2474	1676	34	*	42	69	86	112	170	100	63	24	*	*	57	*
Godare	10774	5060	855	388	576	890	829	813	521	276	231	*	*	-	112	*

TABLE 6.30.3: RURAL BELG

Geographic Area	All Holding															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	14474	7759	848	373	553	874	977	1041	705	524	309	167	88	16	171	*
ZONE 1	2864	1745	*	49	106	109	165	195	103	180	81	42	*	*	*	33
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	1268	732	*	27	48	26	68	77	30	119	68	30	*	*	*	21
Gambela	1596	1014	*	*	58	83	97	118	74	61	*	*	*	*	*	*
ZONE 2	11610	6013	830	324	447	765	812	846	602	344	228	125	76	*	153	*
Abobo	635	301	*	*	35	*	*	58	60	*	*	*	*	-	*	*
Jor	478	422	*	-	*	*	*	*	*	*	-	-	-	-	-	-
Gog	1622	1076	34	*	*	45	71	84	110	74	39	*	-	*	41	-
Godare	8874	4215	760	306	391	691	714	693	427	235	173	*	*	-	107	-

TABLE 6.30.4: URBAN HOLDINGS

Geographic Area	All Holding															
		Grades Completed by Holder														
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	1611	866	58	17	39	21	68	48	44	53	80	20	26	34	190	48
ZONE 1	940	561	21	*	22	13	35	24	8	20	32	*	22	26	116	24
Itang	410	334	-	-	-	-	-	*	-	-	-	*	*	*	44	-
Gambela	530	227	21	*	22	13	35	17	8	20	32	*	12	15	72	24
ZONE 2	672	305	37	*	17	*	34	23	35	33	48	13	*	*	73	24
Gog	196	135	-	-	-	-	*	-	*	*	*	*	*	*	15	-
Godare	471	169	37	*	17	*	25	23	30	28	33	*	-	*	57	24
Dima	5	1	-	-	-	-	-	-	-	1	1	1	-	-	1	-

TABLE 6.31: APPLICATION OF IMPROVED SEEDS BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders Applying Improved Seeds															
		Grades Completed by Holder														
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	1849	860	*	87	*	120	182	150	108	101	80	*	*	*	26	*
ZONE 1	201	83	-	-	*	*	*	*	*	-	-	*	*	-	*	*
Jikawo	*	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Itang	42	23	-	-	-	-	-	-	-	-	-	*	*	-	*	*
Gambela	139	57	-	-	*	*	*	*	*	-	-	-	-	-	*	*
ZONE 2	1648	777	*	87	*	109	147	122	104	101	80	*	-	*	*	-
Abobo	410	251	-	*	*	*	*	*	*	*	*	-	-	*	-	-
Jor	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	117	55	-	-	-	*	-	*	*	*	-	-	-	-	*	-
Godare	1116	467	*	83	*	61	138	83	*	*	*	*	-	*	-	-

TABLE 6.31.1: RURAL HOLDINGS

Geographic Area	Holders Applying Improved Seeds															
		Grades Completed by Holder														
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	1763	825	*	87	*	120	172	142	104	101	76	*	*	*	*	*
ZONE 1	164	71	-	-	*	*	*	*	-	-	-	-	*	-	-	*
Jikawo	*	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Itang	32	23	-	-	-	-	-	-	-	-	-	-	*	-	-	*
Gambela	112	45	-	-	*	*	*	*	-	-	-	-	-	-	-	*
ZONE 2	1599	755	*	87	*	109	143	115	104	101	76	*	-	*	*	-
Abobo	410	251	-	*	*	*	*	*	*	*	*	-	-	*	-	-
Jor	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	117	55	-	-	-	*	-	*	*	*	-	-	-	-	*	-
Godare	1067	445	*	83	*	61	133	75	*	*	*	*	-	-	-	-

TABLE 6.31.2: RURAL MEHER

Geographic Area	Holders Applying Improved Seeds															
		Grades Completed by Holder														
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	1661	810	*	70	*	120	168	142	98	69	76	*	-	*	*	-
ZONE 1	127	55	-	-	*	*	*	*	-	-	-	-	-	-	-	-
Jikawo	*	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Itang	19	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gambela	88	*	-	-	*	*	*	*	-	-	-	-	-	-	-	-
ZONE 2	1534	755	*	70	*	109	139	115	98	69	76	*	-	*	*	-
Abobo	396	251	-	*	-	*	*	*	*	-	*	-	-	*	-	-
Jor	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	111	55	-	-	-	*	-	*	*	*	-	-	-	-	*	-
Godare	1022	445	*	*	*	61	133	75	*	*	*	*	-	-	-	-

TABLE 6.31.3: RURAL BELG

Geographic Area	Holders Applying Improved Seeds															
		Grades Completed by Holder														
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	106	20	-	*	*	-	*	-	*	*	-	-	*	-	-	*
ZONE 1	37	*	-	-	*	-	-	-	-	-	-	-	*	-	-	*
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	*	*	-	-	-	-	-	-	-	-	-	-	*	-	-	*
Gambela	*	*	-	-	*	-	-	-	-	-	-	-	-	-	-	*
ZONE 2	*	*	-	*	*	-	*	-	*	*	-	-	-	-	-	-
Abobo	*	*	-	-	*	-	*	-	-	*	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	*	-	-	-	-	-	-	-
Godare	*	-	-	*	-	-	-	-	-	*	-	-	-	-	-	-

TABLE 6.31.4: URBAN HOLDINGS

Geographic Area	Holders Applying Improved Seeds															
		Grades Completed by Holder														
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	87	34	*	-	-	-	*	*	*	-	*	*	-	*	*	-
ZONE 1	37	*	-	-	-	-	*	-	*	-	-	*	-	-	*	-
Itang	*	-	-	-	-	-	-	-	-	-	-	*	-	-	*	-
Gambela	27	*	-	-	-	-	*	-	*	-	-	-	-	-	*	-
ZONE 2	50	22	*	-	-	-	*	*	-	-	*	*	-	*	-	-
Gog	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	50	22	*	-	-	-	*	*	-	-	*	*	-	*	-	-
Dima	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.32: USES OF IRRIGATION BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders With Irrigation															
		Grades Completed by Holder														
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	128	*	-	-	*	*	-	-	*	*	*	-	*	*	*	-
ZONE 1	63	*	-	-	-	*	-	-	*	*	-	-	-	-	*	-
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	*	3	-	-	-	-	-	-	*	-	-	-	-	-	-	-
Gambela	55	*	-	-	-	*	-	-	*	*	-	-	-	-	*	-
ZONE 2	*	*	-	-	*	*	-	-	-	-	*	-	*	*	-	-
Abobo	*	*	-	-	*	-	-	-	-	-	*	-	*	*	-	-
Jor	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	*	*	-	-	-	-	-	-	-	-	*	-	-	-	-	-

TABLE 6.32.1: RURAL HOLDINGS

Geographic Area	Holders Practicing Irrigation															
		Grades Completed by Holder														
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	113	*	-	-	*	*	-	-	*	*	*	-	*	*	-	-
ZONE 1	52	*	-	-	-	*	-	-	*	*	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	*	3	-	-	-	-	-	-	*	-	-	-	-	-	-	-
Gambela	*	*	-	-	-	*	-	-	*	*	-	-	-	-	-	-
ZONE 2	*	*	-	-	*	*	-	-	-	-	*	-	*	*	-	-
Abobo	*	*	-	-	*	-	-	-	-	-	*	-	*	*	-	-
Jor	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.32.2: RURAL MEHER

Geographic Area	Holders Practicing Irrigation															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	99	*	-	-	*	*	-	-	*	*	-	-	-	*	-	-
ZONE 1	52	*	-	-	-	*	-	-	*	*	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	*	3	-	-	-	-	-	-	*	-	-	-	-	-	-	-
Gambela	*	*	-	-	-	*	-	-	*	*	-	-	-	-	-	-
ZONE 2	*	*	-	-	*	*	-	-	-	-	-	-	-	*	-	-
Abobo	*	*	-	-	*	-	-	-	-	-	-	-	-	*	-	-
Jor	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.33: APPLICATION OF FERTILIZERS BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders Applying Fertilizers															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	3892	2317	109	115	169	154	236	227	164	97	96	30	*	*	79	*
ZONE 1	1132	894	-	*	24	*	47	25	16	37	44	15	-	-	*	120
Jikawo	710	654	-	-	*	-	-	*	*	*	*	-	-	-	-	-
Itang	380	218	-	*	*	*	39	16	*	28	35	15	-	-	4	-
Gambela	42	*	-	-	-	*	*	-	-	-	-	-	-	-	*	*
ZONE 2	2760	1422	109	109	144	145	188	202	148	60	*	*	*	*	70	-
Abobo	786	428	*	*	47	*	43	58	41	*	*	*	*	*	*	*
Jor	166	139	*	-	*	-	*	*	*	-	-	-	-	-	-	64
Gog	63	46	-	-	-	-	-	-	-	*	-	-	-	-	*	*
Godare	1745	809	90	*	93	119	141	139	97	*	*	*	*	-	56	*

TABLE 6.33.1: RURAL HOLDINGS

Geographic Area	Holders Applying Fertilizers															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	3862	2303	109	115	169	154	230	227	164	97	96	30	*	*	68	*
ZONE 1	1117	891	-	*	24	*	42	25	16	37	44	15	-	-	4	*
Jikawo	710	654	-	-	*	-	-	*	*	*	*	-	-	-	-	-
Itang	380	218	-	*	*	*	39	16	*	28	35	15	-	-	4	*
Gambela	*	*	-	-	-	*	*	-	-	-	-	-	-	-	-	-
ZONE 2	2745	1412	109	109	144	145	188	202	148	60	*	*	*	*	64	*
Abobo	786	428	*	*	47	*	43	58	41	*	*	*	*	*	*	*
Jor	166	139	*	-	*	-	*	*	*	-	-	-	-	-	-	-
Gog	58	42	-	-	-	-	-	-	-	*	-	-	-	-	*	-
Godare	1734	803	90	*	93	119	141	139	97	*	*	*	*	-	*	*

TABLE 6.33.2: RURAL MEHER

Geographic Area	Holders Applying Fertilizer															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	3431	2085	76	115	159	144	177	213	140	88	75	20	*	*	68	*
ZONE 1	1117	891	-	*	24	*	42	25	16	37	44	15	-	-	4	*
Jikawo	710	654	-	-	*	-	-	*	*	*	*	-	-	-	-	-
Itang	380	218	-	*	*	*	39	16	*	28	35	15	-	-	4	*
Gambela	*	*	-	-	-	*	*	-	-	-	-	-	-	-	-	-
ZONE 2	2314	1194	76	109	135	136	135	188	124	50	*	*	*	*	64	*
Abobo	762	404	*	*	47	*	43	58	41	*	*	*	*	*	*	*
Jor	97	84	-	-	*	-	*	-	*	-	-	-	-	-	-	-
Gog	58	42	-	-	-	-	-	-	-	*	-	-	-	-	*	-
Godare	1397	664	61	*	*	110	87	129	*	*	*	-	-	-	*	*

TABLE 6.33.3: RURAL BELG

Geographic Area	Holders Applying Fertilizers															
		Grades Completed by Holder														
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	599	311	*	*	*	*	*	*	*	*	*	*	*	-	*	-
ZONE 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZONE 2	599	311	*	*	*	*	*	*	*	*	*	*	*	-	*	-
Abobo	130	84	-	*	*	*	*	*	*	-	-	-	-	-	*	-
Jor	99	77	*	-	*	-	*	*	*	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	369	150	*	-	*	*	*	*	*	*	*	*	*	-	*	-

TABLE 6.33.4: URBAN HOLDINGS

Geographic Area	Holders Applying Fertilizers															
		Grades Completed by Holder														
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	30	*	-	-	-	-	*	-	-	-	-	-	-	-	*	-
ZONE 1	*	*	-	-	-	-	*	-	-	-	-	-	-	-	*	-
Itang	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gambela	*	*	-	-	-	-	*	-	-	-	-	-	-	-	*	-
ZONE 2	*	*	-	-	-	-	-	-	-	-	-	-	-	-	*	-
Gog	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	*	*	-	-	-	-	-	-	-	-	-	-	-	-	*	-
Dima	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.34: APPLICATION OF PESTICIDES BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders With Application of Pesticides															
		Grades Completed by Holder														
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	959	431	108	-	*	65	62	50	*	*	23	*	*	*	*	*
ZONE 1	116	47	*	-	*	1	*	*	*	-	*	-	-	*	*	*
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gambela	109	40	*	-	*	1	*	*	*	-	*	-	-	*	*	*
ZONE 2	843	384	93	-	*	64	56	48	*	*	*	*	*	-	*	*
Abobo	279	112	*	-	*	29	21	*	*	-	*	*	*	-	*	*
Jor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	*	*	-	-	-	-	-	-	-	-	*	-	-	-	-	-
Godare	550	263	66	-	-	*	*	*	*	*	-	*	-	-	*	-

TABLE 6.34.1: RURAL HOLDINGS

Geographic Area	Holders With Application of Pesticides															
		Grades Completed by Holder														
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	869	403	105	-	*	64	56	48	*	*	*	*	*	-	*	*
ZONE 1	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gambela	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
ZONE 2	838	384	93	-	*	64	56	48	*	*	*	*	*	-	*	*
Abobo	279	112	*	-	*	29	21	*	*	-	*	*	*	-	*	*
Jor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	550	263	66	-	-	*	*	*	*	*	-	*	-	-	*	-

TABLE 6.34.2: RURAL MEHER

Geographic Area	Holders With Application of Pesticides															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate But not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	350	140	50	-	*	29	21	*	*	-	*	*	*	-	*	*
ZONE 1	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gambela	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
ZONE 2	319	121	39	-	*	29	21	*	*	-	*	*	*	-	*	*
Abobo	279	112	*	-	*	29	21	*	*	-	*	*	*	-	*	*
Jor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	*	-	*	-	-	-	-	-	-	-	-	-	-	-	*	-

TABLE 6.34.3: RURAL BELG

Geographic Area	Holders With Application of Pesticides															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	519	263	54	-	-	*	*	*	*	*	-	*	-	-	*	-
ZONE 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZONE 2	519	263	54	-	-	*	*	*	*	*	-	*	-	-	*	-
Abobo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	519	263	54	-	-	*	*	*	*	*	-	*	-	-	*	-

TABLE 6.34.4: URBAN HOLDINGS

Geographic Area	Holders With Application of Pesticides															
		Grades Completed by Holder														
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	90	28	*	-	*	1	*	*	*	-	*	-	-	*	*	*
ZONE 1	85	28	*	-	*	1	*	*	*	-	*	-	-	*	*	*
Itang	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gambela	85	28	*	-	*	1	*	*	*	-	*	-	-	*	*	*
ZONE 2	*	-	-	-	-	-	-	-	-	-	*	-	-	-	-	-
Gog	*	-	-	-	-	-	-	-	-	-	*	-	-	-	-	-
Godare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dima	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.35: HOLDERS PARTICIPATING IN AGRICULTURAL EXTENSION BY EDUCATIONAL ATTAINMENT IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders Participating in Agricultural Extension															
		Grades Completed by Holder														
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	275	65	*	-	*	*	*	*	*	11	*	-	*	-	-	*
ZONE 1	39	*	-	-	-	-	*	-	-	7	-	-	*	-	-	*
Jikawo	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	27	*	-	-	-	-	*	-	-	7	-	-	-	-	-	*
Gambela	*	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-
ZONE 2	236	48	*	-	*	*	*	*	*	*	*	-	-	-	-	*
Abobo	132	37	*	-	*	-	*	*	*	*	*	-	-	-	-	*
Jor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	103	*	-	-	*	*	*	-	*	-	-	-	-	-	-	-

TABLE 6.35.1: RURAL MEHER

Geographic Area	Holders Participating in Agricultural Extension															
		Grades Completed by Holder														
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Gambela Killil	245	61	*	-	*	*	*	*	*	7	*	-	*	-	-	*
ZONE 1	39	*	-	-	-	-	*	-	-	7	-	-	*	-	-	*
Jikawo	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Itang	27	*	-	-	-	-	*	-	-	7	-	-	-	-	-	*
Gambela	*	-	-	-	-	-	-	-	-	-	-	-	*	-	-	-
ZONE 2	206	44	*	-	*	*	*	*	*	-	*	-	-	-	-	-
Abobo	103	33	*	-	*	-	*	*	*	-	*	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Godare	103	*	-	-	*	*	*	-	*	-	-	-	-	-	-	-

TABLE 6.36: CROP AREA (HECTARES) DAMAGED BY CROP DISEASE AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Total Area Damaged							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	1507	23	337	413	432	275	*	-
ZONE 1	160	8	104	39	7	*	-	-
Jikawo	54	1	33	19	*	-	-	-
Itang	60	3	40	10	*	-	-	-
Gambela	46	3	31	10	-	*	-	-
ZONE 2	1347	16	234	374	425	273	*	-
Abobo	462	3	59	128	160	108	*	-
Jor	84	3	41	36	*	-	-	-
Gog	215	4	59	58	47	47	-	-
Godare	585	7	74	152	213	117	*	-

TABLE 6.36.1: MEHER

Geographic Area	Total Area Damaged							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	1417	16	290	396	415	274	*	-
ZONE 1	131	5	84	33	7	*	-	-
Jikawo	54	1	33	19	*	-	-	-
Itang	49	1	32	9	*	-	-	-
Gambela	28	2	19	*	-	*	-	-
ZONE 2	1286	11	206	363	408	271	*	-
Abobo	461	3	59	128	160	108	*	-
Jor	63	1	30	*	*	-	-	-
Gog	196	3	47	54	45	47	-	-
Godare	566	5	72	150	202	116	*	-

TABLE 6.36.2: BELG

Geographic Area	Total Area Damaged							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	90	15	64	*	*	-	-	-
ZONE 1	29	3	25	*	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	11	2	8	*	-	-	-	-
Gambela	18	*	17	*	-	-	-	-
ZONE 2	61	12	39	*	*	-	-	-
Abobo	1	1	*	-	-	-	-	-
Jor	21	5	16	-	-	-	-	-
Gog	19	4	12	*	*	-	-	-
Godare	19	*	11	*	*	-	-	-

TABLE 6.37: CROP AREA (HECTARES) DAMAGED BY CROP DISEASE AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Crop Disease							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	315	3	100	105	78	29	-	-
ZONE 1	68	2	46	18	2	-	-	-
Jikawo	40	*	25	14	*	-	-	-
Itang	21	1	16	2	2	-	-	-
Gambela	*	*	*	*	-	-	-	-
ZONE 2	247	1	54	87	75	29	-	-
Abobo	68	*	9	19	26	14	-	-
Jor	45	*	*	*	-	-	-	-
Gog	56	*	18	20	14	3	-	-
Godare	78	*	8	22	35	*	-	-

TABLE 6.37.1: MEHER

Geographic Area	Area Damaged by Crop Disease							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	298	3	93	103	71	29	-	-
ZONE 1	63	1	42	18	2	-	-	-
Jikawo	40	*	25	14	*	-	-	-
Itang	19	1	15	2	2	-	-	-
Gambela	4	*	*	*	-	-	-	-
ZONE 2	235	1	51	85	68	29	-	-
Abobo	68	*	9	19	26	13	-	-
Jor	44	*	*	*	-	-	-	-
Gog	54	*	16	20	14	3	-	-
Godare	69	*	7	21	28	*	-	-

TABLE 6.37.2: BELG

Geographic Area	Area Damaged by Crop Disease							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	17	2	9	*	-	-	-	-
ZONE 1	*	*	*	*	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	2	*	1	*	-	-	-	-
Gambela	*	*	*	-	-	-	-	-
ZONE 2	*	*	5	*	-	-	-	-
Abobo	*	*	*	-	-	-	-	-
Jor	*	*	*	-	-	-	-	-
Gog	2	-	2	-	-	-	-	-
Godare	*	*	*	*	-	-	-	-

TABLE 6.38: CROP AREA (HECTARES) DAMAGED BY FROST OR FLOODS AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Frost or Floods							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	127	*	31	29	47	17	*	-
ZONE 1	12	*	11	*	-	-	-	-
Jikawo	*	-	*	-	-	-	-	-
Itang	2	*	2	*	-	-	-	-
Gambela	*	*	*	*	-	-	-	-
ZONE 2	115	*	20	28	47	17	*	-
Abobo	34	*	*	16	*	*	*	-
Jor	*	*	*	-	-	-	-	-
Gog	23	*	3	*	*	*	-	-
Godare	56	*	13	11	20	*	-	-

TABLE 6.38.1: MEHER

Geographic Area	Area Damaged by Frost or Floods							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	126	*	30	29	47	17	*	-
ZONE 1	11	*	10	*	-	-	-	-
Jikawo	*	-	*	-	-	-	-	-
Itang	2	*	1	*	-	-	-	-
Gambela	*	*	*	*	-	-	-	-
ZONE 2	114	*	20	28	47	17	*	-
Abobo	34	*	*	16	*	*	*	-
Jor	*	*	*	-	-	-	-	-
Gog	23	*	3	*	*	*	-	-
Godare	56	*	13	11	20	*	-	-

TABLE 6.38.2: BELG

Geographic Area	Area Damaged by Frost or Floods							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	1	*	*	-	-	-	-	-
ZONE 1	1	*	*	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	*	*	*	-	-	-	-	-
Gambela	*	-	*	-	-	-	-	-
ZONE 2	*	*	*	-	-	-	-	-
Abobo	*	*	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-
Godare	*	*	*	-	-	-	-	-

TABLE 6.39: CROP AREA (HECTARES) DAMAGED BY LOCUST AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Locust							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	364	6	73	109	105	70	*	-
ZONE 1	32	4	19	*	*	*	-	-
Jikawo	4	*	*	*	-	-	-	-
Itang	7	*	6	*	*	-	-	-
Gambela	20	2	11	*	-	*	-	-
ZONE 2	332	2	53	102	105	68	*	-
Abobo	199	2	32	54	69	42	*	-
Jor	*	*	*	*	-	-	-	-
Gog	59	*	7	24	9	*	-	-
Godare	62	*	7	19	27	8	-	-

TABLE 6.39.1: MEHER

Geographic Area	Area Damaged by Locust							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	353	5	68	106	104	70	*	-
ZONE 1	24	3	15	*	*	*	-	-
Jikawo	4	*	*	*	-	-	-	-
Itang	7	*	5	*	*	-	-	-
Gambela	14	*	7	*	-	*	-	-
ZONE 2	329	2	53	101	104	68	*	-
Abobo	199	2	32	54	69	42	*	-
Jor	*	*	*	*	-	-	-	-
Gog	59	*	7	24	9	*	-	-
Godare	59	*	7	18	26	*	-	-

TABLE 6.39.2: BELG

Geographic Area	Area Damaged by Locust							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	*	1	*	*	*	-	-	-
ZONE 1	*	*	*	*	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	1	*	1	-	-	-	-	-
Gambela	*	*	*	*	-	-	-	-
ZONE 2	*	*	*	-	*	-	-	-
Abobo	*	*	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-
Godare	*	*	*	-	*	-	-	-

TABLE 6.40: CROP AREA (HECTARES) DAMAGED BY SHORTAGE OF RAIN AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Shortage of Rain							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	32	*	13	10	9	*	-	-
ZONE 1	*	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	*	*	*	-	*	-	-	-
Gambela	*	-	*	*	-	-	-	-
ZONE 2	31	-	12	10	9	*	-	-
Abobo	*	-	*	*	*	*	-	-
Jor	*	-	*	*	-	-	-	-
Gog	11	-	*	-	*	-	-	-
Godare	*	-	*	*	*	-	-	-

TABLE 6.40.1: MEHER

Geographic Area	Area Damaged by Shortage of Rain							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	31	*	12	10	9	*	-	-
ZONE 1	*	*	*	*	*	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	*	*	*	-	*	-	-	-
Gambela	*	-	-	*	-	-	-	-
ZONE 2	31	-	12	10	9	*	-	-
Abobo	*	-	*	*	*	*	-	-
Jor	*	-	*	*	-	-	-	-
Gog	11	-	*	-	*	-	-	-
Godare	*	-	*	*	*	-	-	-

TABLE 6.41: CROP AREA (HECTARES) DAMAGED BY TOO MUCH RAIN AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Too Much Rain							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	433	*	45	101	134	122	*	-
ZONE 1	*	-	*	-	*	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	*	-	*	-	*	-	-	-
Gambela	*	-	*	-	-	-	-	-
ZONE 2	430	*	43	101	134	122	*	-
Abobo	75	*	*	13	19	*	*	-
Jor	*	-	*	-	-	-	-	-
Gog	*	-	-	-	-	*	-	-
Godare	353	*	38	88	116	85	*	-

TABLE 6.41.1: MEHER

Geographic Area	Area Damaged by Too Much Rain							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	428	4	45	101	131	122	*	-
ZONE 1	*	-	*	-	*	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	*	-	*	-	*	-	-	-
Gambela	*	-	*	-	-	-	-	-
ZONE 2	426	4	43	101	131	122	*	-
Abobo	75	*	*	13	19	*	*	-
Jor	*	-	*	-	-	-	-	-
Gog	*	-	-	-	-	*	-	-
Godare	349	*	38	88	113	84	*	-

TABLE 6.41.2: BELG

Geographic Area	Area Damaged by Too Much Rain							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	*	*	*	*	-	-	-	-
ZONE 1	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-
ZONE 2	*	*	*	*	-	-	-	-
Abobo	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-	-

TABLE 6.42: CROP AREA (HECTARES) DAMAGED BY HAIL STONE AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Hail Stone							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	53	*	15	11	10	*	-	-
ZONE 1	*	*	*	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	*	*	*	-	-	-	-	-
Gambela	*	-	*	-	-	-	-	-
ZONE 2	53	*	15	11	10	*	-	-
Abobo	*	*	*	*	*	-	-	-
Jor	*	*	*	*	*	-	-	-
Gog	40	*	11	7	5	*	-	-
Godare	9	*	*	*	*	*	-	-

TABLE 6.42.1: MEHER

Geographic Area	Area Damaged by Hail Stone							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	53	*	15	11	10	*	-	-
ZONE 1	*	*	*	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	*	*	*	-	-	-	-	-
Gambela	*	-	*	-	-	-	-	-
ZONE 2	53	*	15	11	10	*	-	-
Abobo	*	*	*	*	*	-	-	-
Jor	*	*	*	*	*	-	-	-
Gog	40	*	11	7	5	*	-	-
Godare	9	*	*	*	*	*	-	-

TABLE 6.43: CROP AREA (HECTARES) DAMAGED BY INSECT AND PESTS AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Insect and Pests							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	6	-	*	2	-	*	-	-
ZONE 1	4	-	*	2	-	-	-	-
Jikawo	3	-	*	*	-	-	-	-
Itang	*	-	-	*	-	-	-	-
Gambela	-	-	-	-	-	-	-	-
ZONE 2	*	-	*	-	-	*	-	-
Abobo	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-
Gog	*	-	*	-	-	*	-	-
Godare	-	-	-	-	-	-	-	-

TABLE 6.43.1: MEHER

Geographic Area	Area Damaged by Insect and Pests							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	6	-	*	2	-	*	-	-
ZONE 1	4	-	*	2	-	-	-	-
Jikawo	3	-	*	*	-	-	-	-
Itang	*	-	-	*	-	-	-	-
Gambela	-	-	-	-	-	-	-	-
ZONE 2	*	-	*	-	-	*	-	-
Abobo	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-
Gog	*	-	*	-	-	*	-	-
Godare	-	-	-	-	-	-	-	-

TABLE 6.44: CROP AREA (HECTARES) DAMAGED BY WEEDS AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Weeds							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	167	5	57	46	40	*	-	-
ZONE 1	41	2	23	11	*	-	-	-
Jikawo	*	*	*	*	-	-	-	-
Itang	28	1	16	6	*	-	-	-
Gambela	8	*	*	*	-	-	-	-
ZONE 2	126	3	35	35	35	*	-	-
Abobo	74	*	8	21	*	*	-	-
Jor	22	2	13	4	*	-	-	-
Gog	22	*	11	5	2	*	-	-

TABLE 6.44.1: MEHER

Geographic Area	Area Damaged by Weeds							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	112	1	23	34	35	*	-	-
ZONE 1	25	1	12	8	*	-	-	-
Jikawo	*	*	*	*	-	-	-	-
Itang	20	*	10	5	*	-	-	-
Gambela	*	*	*	*	-	-	-	-
ZONE 2	86	*	12	26	*	*	-	-
Abobo	74	*	8	21	*	*	-	-
Jor	*	-	*	-	-	-	-	-
Gog	*	-	-	*	-	*	-	-
Godare	*	*	*	*	*	*	-	-

TABLE 6.44.2: BELG

Geographic Area	Area Damaged by Weeds							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	55	12	40	*	*	-	-	-
ZONE 1	15	2	13	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	8	2	6	-	-	-	-	-
Gambela	*	*	*	-	-	-	-	-
ZONE 2	40	10	27	*	*	-	-	-
Abobo	*	*	-	-	-	-	-	-
Jor	20	5	*	-	-	-	-	-
Gog	17	4	10	*	*	-	-	-
Godare	*	-	*	-	-	-	-	-

TABLE 6.45: CROP AREA (HECTARES) DAMAGED BY OTHER CAUSE AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Other Causes							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	1	*	*	*	*	*	-	-
ZONE 1	*	*	*	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	*	-	*	-	-	-	-	-
Gambela	*	*	*	-	-	-	-	-
ZONE 2	1	*	*	*	*	*	-	-
Abobo	*	-	*	*	-	*	-	-
Jor	*	*	*	*	-	-	-	-
Gog	-	-	-	-	-	-	-	-
Godare	*	*	*	*	*	-	-	-

TABLE 6.45.1: BELG

Geographic Area	Area Damaged by Other Causes							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Gambela Killil	1	*	*	-	-	-	-	-
ZONE 1	*	-	*	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-
Gambela	*	-	*	-	-	-	-	-
ZONE 2	1	*	*	-	-	-	-	-
Abobo	*	*	-	-	-	-	-	-
Jor	*	*	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-
Godare	*	*	*	-	-	-	-	-

TABLE 6.46:NUMBER OF AGRICULTURAL HOLDERS APPLYING IRRIGATION BY SOURCE OF WATER IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Source of Water			
	River	Lake	Pond	Others
Gambela Killil	555	81	457	*
ZONE 1	165	10	155	-
Jikawo	*	-	*	-
Itang	105	*	99	-
Gambela	*	*	*	-
ZONE 2	390	*	302	*
Abobo	155	*	145	-
Jor	-	-	-	-
Gog	37	-	37	-
Godare	198	*	120	*

TABLE 6.47:NUMBER OF AGRICULTURAL HOLDERS IMPROVING SOIL FERTILITY BY METHOD OF APPLICATION IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Method to Improve Soil Fertility	
	Crop Rotation	Burning of Soil
Gambela Killil	9668	594
ZONE 1	1093	365
Jikawo	*	-
Itang	413	185
Gambela	663	180
ZONE 2	8575	229
Abobo	1103	149
Jor	559	*
Gog	314	43
Godare	6599	*

TABLE 6.48: NUMBER OF HOLDERS BY REASON FOR NOT USING CHEMICAL FERTILIZER IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Reason for not Using Chemical Fertilizer						
	Do not Know the Advantage	Too Expensive	Shortage of Money	Insufficient Supply	No Credit Service	Suspicious of its Efficiency	Others
Gambela Killil	10256	359	3018	9559	140	376	9394
ZONE 1	4849	87	1023	4007	*	*	2183
Jikawo	2869	-	*	1824	-	-	-
Itang	1417	40	413	1242	-	3	1379
Gambela	563	47	603	941	*	*	804
ZONE 2	5407	273	1995	5552	125	370	7211
Abobo	344	35	1208	1541	*	*	1357
Jor	361	-	-	591	-	-	*
Gog	1507	26	92	586	106	-	281
Godare	3196	212	695	2834	-	341	5568

TABLE 6.49:NUMBER OF AGRICULTURAL HOLDERS BY PLOWING METHOD IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Method of Plowing				
	Hand Dung	Ox/Horse Driven	Tractor	Hand Dung and Ox/Horse Driven	Tractor and Ox/horse Driven
Gambela Killil	24668	923	-	1065	58
ZONE 1	8852	*	-	*	*
Jikawo	2753	-	-	*	-
Itang	3798	*	-	*	8
Gambela	2302	*	-	*	*
ZONE 2	15816	892	-	1016	38
Abobo	2021	674	-	847	*
Jor	1170	-	-	*	-
Gog	2629	*	-	*	*
Godare	9995	*	-	139	-

TABLE 6.50:NUMBER OF AGRICULTURAL HOLDERS BY METHOD OF SOIL CONSERVATION IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Method of Soil Conservation				
	Terracing	Water Catchment	Afforstation	Plowing along The Counter	Others
Gambela Killil	485	269	414	348	883
ZONE 1	168	143	17	35	682
Jikawo	*	-	-	-	*
Itang	147	140	13	28	503
Gambela	*	*	*	*	*
ZONE 2	317	126	397	313	*
Abobo	30	*	*	224	*
Jor	*	-	-	*	-
Gog	190	72	-	-	*
Godare	86	*	*	*	*

TABLE 6.51: NUMBER OF AGRICULTURAL HOLDERS PRACTICING EXTENSION PACKAGES BY TYPE IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Rain Shortage Areas	Rain Abundent Areas	Post Harvest Technology	Livestock Development	Economicaly Important Crops	Any two or more packages
Gambela Killil	1137	9156	658	*	979	240
ZONE 1	-	23	-	10	*	-
Jikawo	-	-	-	-	-	-
Itang	-	15	-	10	*	-
Gambela	-	*	-	-	*	-
ZONE 2	236	246	-	-	*	*
Abobo	236	33	-	-	*	*
Jor	-	-	-	-	-	-
Gog	-	*	-	-	-	-
Godare	-	202	-	-	-	-

TABLE 6.52: NUMBER OF HOLDERS BY REASON FOR NOT BEING COVERED BY EXTENSION PROGRAM IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Reason for not Being Covered by Extension Program					
	Do not Know the Advantage	Shortage of Money	Suspicious of its Efficiency	Program not Available	Insufficient Arable Land	Others
Gambela Killil	7963	1164	896	15841	1255	494
ZONE 1	3154	268	40	5977	77	*
Jikawo	1319	-	-	1641	-	*
Itang	1276	101	13	2512	43	*
Gambela	559	*	*	1825	*	-
ZONE 2	4809	896	856	9864	1178	443
Abobo	860	581	35	1163	399	394
Jor	-	-	-	1205	-	-
Gog	1925	26	-	803	188	*
Godare	2024	289	820	6693	592	43

TABLE 6.53:NUMBER OF AGRICULTURAL HOLDERS WHO USE SERVICES IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Service Type			
	Credit Service	%	Advisory Service	%
Gambela Killil	302	100.00	2162	100
ZONE 1	20	6.62	101	4.67
Jikawo	-	-	-	-
Itang	20	6.62	58	2.68
Gambela	-	-	*	-
ZONE 2	283	93.71	2062	95.37
Abobo	203	67.22	726	33.58
Jor	-	-	-	-
Gog	-	-	45	2.08
Godare	80	26.49	1291	59.71

TABLE 6.54: NUMBER OF HOLDERS BY SOURCE OF CHEMICAL FERTILIZERS AND COST OF CHEMICAL FERTILZERS IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Number of Holders by Source of Chemical Fertilizer						Cost of Chemical Fertilizer (Birr/Quintal)	
	Government	Private Organization	Traders	Others	Do not buy	Not Reporting	DAP	UREA
Gambela Killil	259	49	*	*	26310	191	244.88	203.26
ZONE 1	7	*	-	3	8900	38		*
Jikawo	-	*	-	-	2773	-		
Itang	7	6	-	3	3787	*		*
Gambela	-	-	-	-	2340	*		
ZONE 2	252	36	*	*	17409	153	244.88	190.20
Abobo	221	*	*	-	3325	101	255.46	196.82
Jor	-	-	-	-	1170	*		
Gog	-	*	-	*	2634	*		
Godare	*	*	-	-	10280	*	*	*

TABLE 6.55: NUMBER OF HOLDERS WHO PRACTICE BELG FROM 1999/2000 TO 2001/02 IN URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders who Practice Belg from 1999/2000 to 2001/02				
	Total	Female	%	Male	%
Gambela Killil	343	237	69.1	106	30.9
ZONE 1 Zone	185	148	80	37	20
Itang	*	*	*	*	*
Gambela	148	116	78.38	32	21.62
ZONE 2 Zone	158	89	56.33	69	43.67
Gog	102	32	31.37	69	67.65
Godare	57	57	100	-	-
Dima	-	-	-	-	-

TABLE 6.56: NUMBER OF HOLDERS PARTICIPATING IN CROP SPECIFIC EXTENSION PACKAGE AND AREA UNDER CROP SPECIFIC EXTENSION PACKAGE FOR RURAL AREAS IN MEHER SEASON

Geographic Area	All crops		Teff		Barley		Wheat	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Gambela Killil	245	81	-	-	-	-	-	-
ZONE 1	39	4	-	-	-	-	-	-
Jikawo	*	*	-	-	-	-	-	-
Itang	27	3	-	-	-	-	-	-
Gambela	*	*	-	-	-	-	-	-
ZONE 2	206	77	-	-	-	-	-	-
Abobo	103	*	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-
Godare	103	*	-	-	-	-	-	-
	Maize		Sorghum		Rice		Field peas	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Gambela Killil	181	58	73	*	*	*	-	-
ZONE 1	36	4	-	-	-	-	-	-
Jikawo	*	*	-	-	-	-	-	-
Itang	27	3	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-
ZONE 2	145	54	73	*	*	*	-	-
Abobo	81	48	*	*	*	*	-	-
Jor	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-
Godare	*	*	*	*	-	-	-	-

ANNEX TABLES PRESENTING ESTIMATES, STANDARD ERRORS AND COEFFICIENTS OF VARIATIONS FOR SELECTED FARM MANAGEMENT PRACTICES VARIABLES

Annex Tables 6.1 and 6.2

Annex - TABLE 6.1: AREA UNDER FARM MANAGEMENT PRACTICES WITH THEIR STANDAD ERRORS AND COEFFICIENT OF VARIATION IN RURAL AREAS FOR MEHER SEASON

Type of crop	Improved Seed Applied			Irrigation			Feretilizer Applied			Pesticide Applied		
	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V
TOTAL	12684	690	5	421	96	23	6	4	71	593	87	15
Grains Crops	8470	403	5	190	52	27	1	-	43	487	79	16
Cereals	7877	372	5	188	52	27	1	-	43	480	79	16
Teff	5	2	49	-	-	-	-	-	-	-	-	-
Barley	9	3	31	-	-	-	-	-	-	-	-	-
Wheat	-	-	83	-	-	-	-	-	-	-	-	-
Maize	5110	273	5	143	45	32	1	-	43	418	75	18
Sorghum	2664	222	8	39	12	30	-	-	-	54	18	32
Millet	48	14	29	-	-	120	-	-	-	-	-	101
Oats	1	1	60	-	-	-	-	-	-	-	-	-
Rice	39	12	30	6	5	76	-	-	-	8	5	64
Pulse	116	25	22	1	1	95	-	-	-	5	1	12
Horse beans	2	1	60	-	-	-	-	-	-	-	-	96
Field peas	1	-	68	-	-	-	-	-	-	-	-	96
Haricot beans	112	25	22	1	1	95	-	-	-	4	1	13
Chick peas	-	-	94	-	-	-	-	-	-	-	-	-
Lentiles	-	-	83	-	-	-	-	-	-	-	-	-
Vetch	-	-	88	-	-	-	-	-	-	-	-	96
Sova	-	-	46	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	106	-	-	-	-	-	-	-	-	106
Gibto	1	1	57	-	-	-	-	-	-	-	-	84
Oile seed	345	81	24	-	-	63	-	-	-	-	-	88
Nueg	-	-	109	-	-	-	-	-	-	-	-	-
Linseed	2	2	80	-	-	-	-	-	-	-	-	-
Ground nuts	26	9	36	-	-	77	-	-	-	-	-	68
Sunflower	1	-	37	-	-	-	-	-	-	-	-	-
Sesame	315	82	26	-	-	-	-	-	-	-	-	99
Rapeseed.	1	-	56	-	-	94	-	-	-	-	-	-
Other Grain	132	30	23	1	1	109	-	-	-	2	2	85
Vegetables.	562	110	20	-	-	74	-	-	101	17	5	27
Lettuce	-	-	-	-	-	-	-	-	-	-	-	-
Cabbage	1	1	63	-	-	-	-	-	-	-	-	-
Kale	22	6	27	-	-	-	-	-	-	4	2	53
Tomatoes	8	3	38	-	-	74	-	-	101	1	1	70
Green pepper	5	1	25	-	-	-	-	-	-	-	-	48
Red paper	20	6	30	-	-	-	-	-	-	1	-	74
Swiss chard	-	-	71	-	-	-	-	-	-	-	-	-
Others	506	110	22	-	-	-	-	-	-	11	4	36
Root Crops	363	43	12	-	-	103	-	-	71	12	3	28
Beet root	-	-	96	-	-	-	-	-	-	-	-	-
Carrot	-	-	99	-	-	-	-	-	-	-	-	99
Onion	-	-	56	-	-	-	-	-	-	-	-	70
Potatoes	1	1	52	-	-	-	-	-	-	-	-	-
Garlic	1	-	35	-	-	-	-	-	-	-	-	61
Godere	221	36	16	-	-	-	-	-	71	8	3	35
Sweet potatoes	108	17	15	-	-	-	-	-	-	4	2	49
Others	32	6	20	-	-	103	-	-	-	-	-	48
Permanet crops	3289	405	12	231	82	36	5	4	92	76	26	35
Fruit Crops	361	26	7	4	2	57	-	-	77	8	2	27
Avocado	4	1	25	-	-	53	-	-	-	-	-	75
Bannas	181	18	10	1	1	64	-	-	73	3	2	49
Guava(Zevtuna)	4	2	39	-	-	101	-	-	-	-	-	60
Lemons	4	1	34	-	-	-	-	-	-	1	1	87
Mangos	105	9	9	2	2	86	-	-	96	2	-	15
Oranges	10	2	25	-	-	101	-	-	-	-	-	69
Papayas	51	5	9	-	-	56	-	-	102	2	1	46
Pineapples	2	-	25	-	-	-	-	-	-	-	-	107
Others	1	-	33	-	-	-	-	-	-	-	-	109
Stimulant Crop	2463	344	14	227	81	36	4	4	114	10	5	48
Chat	37	8	21	-	-	-	-	-	-	-	-	61
Coffee	2411	337	14	227	81	36	4	4	114	10	5	50
Gesho.	14	3	21	-	-	-	-	-	-	-	-	93
Others	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	465	108	23	-	-	94	1	1	95	58	25	43
Enset	393	108	28	-	-	-	-	-	-	56	25	45
Sugar Cane	68	9	14	-	-	94	1	1	95	2	1	34
Others	4	1	31	-	-	-	-	-	-	-	-	47

Annex - TABLE 6.2: AREA UNDER FARM MANAGEMENT PRACTICES WITH THEIR STANDAD ERRORS AND COEFFICIENT OF VARIATION IN URBAN AREAS FOR MEHER SEASON

Type of crop	Improved Seed Applied			Irrigation			Feretilizer Applied			Pesticide Applied		
	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V
TOTAL	909	81	9	50	19	39	9	6	71	13	7	53
Grains Crops	425	44	10	12	7	55	7	6	88	13	7	53
Cereals	377	41	11	12	6	54	7	6	88	12	7	55
Teff	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Maize	260	31	12	8	3	42	3	3	84	8	4	50
Sorghum	117	18	16	4	3	91	4	3	91	4	3	76
Millet	-	-	70	-	-	-	-	-	-	-	-	-
Oats	-	-	-	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-	-	-	-
Pulse	1	-	39	-	-	-	-	-	-	-	-	-
Horse beans	-	-	-	-	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-	-	-	-
Haricot beans	1	-	39	-	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-	-	-	-
Oile seed	23	3	15	-	-	91	-	-	91	1	1	83
Nueg	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	1	-	47	-	-	91	-	-	91	-	-	91
Ground nuts	17	3	18	-	-	91	-	-	-	-	-	86
Sunflower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	5	1	24	-	-	-	-	-	-	-	-	86
Rapeseed.	-	-	-	-	-	-	-	-	-	-	-	-
Other Grain	24	8	33	-	-	-	-	-	-	-	-	-
Vegetables.	4	2	45	-	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-	-	-	-
Cabbage	-	-	-	-	-	-	-	-	-	-	-	-
Kale	-	-	18	-	-	-	-	-	-	-	-	-
Tomatoes	3	2	62	-	-	-	-	-	-	-	-	-
Green pepper	-	-	38	-	-	-	-	-	-	-	-	-
Red paper	-	-	91	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-	-	-	-
Others	1	-	58	-	-	-	-	-	-	-	-	-
Root Crops	4	1	35	-	-	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-	-	-	-
Onion	-	-	70	-	-	-	-	-	-	-	-	-
Potatoes	1	1	63	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-	-	-	-
Godere	-	-	65	-	-	-	-	-	-	-	-	-
Sweet potatoes	1	1	63	-	-	-	-	-	-	-	-	-
Others	2	1	47	-	-	-	-	-	-	-	-	-
Permanet crops	476	63	13	38	18	48	2	2	85	-	-	91
Fruit Crops	9	1	15	-	-	-	-	-	-	-	-	-
Avocado	-	-	62	-	-	-	-	-	-	-	-	-
Bannas	2	1	29	-	-	-	-	-	-	-	-	-
Guava(Zeytuna)	-	-	43	-	-	-	-	-	-	-	-	-
Lemons	-	-	63	-	-	-	-	-	-	-	-	-
Mangos	4	1	21	-	-	-	-	-	-	-	-	-
Oranges	-	-	41	-	-	-	-	-	-	-	-	-
Papayas	2	1	32	-	-	-	-	-	-	-	-	-
Pineapples	-	-	85	-	-	-	-	-	-	-	-	-
Others	-	-	43	-	-	-	-	-	-	-	-	-
Stimulant Crop	463	62	13	38	18	48	-	-	-	-	-	91
Chat	1	1	88	-	-	-	-	-	-	-	-	-
Coffee	462	62	13	38	18	48	-	-	-	-	-	91
Gesho.	-	-	78	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	5	2	48	-	-	-	2	2	85	-	-	-
Enset	-	-	65	-	-	-	-	-	-	-	-	-
Sugar Cane	5	2	49	-	-	-	2	2	85	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-

CHAPTER VII

SIZE, CHARACTERISTICS AND PURPOSE OF LIVESTOCK AND USE OF LIVESTOCK PRODUCTS

1 INTRODUCTION

Ethiopia is one of the most populous countries in Africa, having an estimated population of about 67.2 million in July 2002 with annual growth rate of 2.9%. This growing population demands much better economic performance than in the past, at least to ensure food security and other basic needs. The dominant economic feature of the country is the agriculture sector of which livestock is a very important and essential component. The highlanders raise livestock together with crop cultivation for their livelihood whereas the lowlanders or the 'pastoralists' subsistence is based mainly on livestock and livestock products. Consequently, the government should give due attention to this sector in order to take advantage of its contribution to the economic growth and as a result to meet the needs of the expanding population.

The livestock sector has been contributing significant portion to the economy of Ethiopia, but still has great potential to assist the economic development of this country. It is well known that livestock products and byproducts in the form of meat, milk, honey, eggs, cheese, and butter supply the needed animal protein that contribute to the improvement of the nutritional status of the people. Livestock also plays an important role in providing export commodities, such as live animals, hides and skins to earn foreign exchanges to the country. On the other hand, draught animals provide power for the cultivation of the small holdings and for crop threshing virtually all over the country and are also essential modes of transport to take holders and their families long-distances, to convey their agricultural products to the market places and bring back their domestic necessities. Livestock as well confer a certain degree of security in times of crop failure, as they are a "near-cash" capital stock. Furthermore, livestock

provides farmyard manure that is commonly applied to improve soil fertility and also used as a source of energy.

By virtue of the important role that the livestock sector plays in the economy of the country, formulation of development plan regarding the sector is vital. It is therefore imperative that livestock development plans should be formulated on the basis of reliable statistical data, and hence, timely and accurate livestock data are required for the formulation, implementation, monitoring, and evaluation of development plan and program in the sector. These livestock data can be generated more often than not using surveys and censuses. The Central Statistical Authority (CSA) has been generating livestock data through sample surveys since 1981 (1973 E.C.). However, based on the results of these surveys, CSA was not able to satisfy the growing demand of the data users regarding the sector. Realizing this fact, CSA proposed and conducted the first agricultural census in the year 2001/02.

As mentioned earlier in Chapter II, agricultural censuses are classified into two categories: censuses conducted by complete enumeration or conducted by sample enumeration. In agricultural censuses conducted by complete enumeration, data are collected from all holders and the result for each variable is obtained by totaling the values of the respective variable from all holders. On the other hand, agricultural censuses conducted based on sample enumeration are probability sample surveys for which a sample is selected and the method of estimation for each census variable permits establishing its statistical precision. Therefore, conducting complete enumeration is more expensive, time consuming and requires large number of personnel. Likewise, quantity of data to be processed is very large (FAO, 1996). By considering these realities and the economic condition of the country, the sample enumeration was favored.

The livestock census was carried-out as part of the agricultural census. The general objective of the livestock census is to establish benchmark data that could be used for development planning and policy formulation regarding the sector, and the specific

objectives are to purvey quantitative information on the size and characteristics of the livestock in rural and urban areas at wereda level, and to provide estimates on size and characteristics of livestock for pastoral areas and commercial farms. In order to meet these objectives, data on: livestock number by type, age, sex, purpose and breed; livestock products particularly milk, egg, and honey; livestock diseases and vaccination; livestock product utilization; and animal feed were collected from sampled agricultural households in rural and urban areas as well as from all commercial farms. In addition, these same data will be collected from pastoral areas in the near future.

The expected users of these data are government organizations involved in planning purposes, individuals or firms raising livestock, non-governmental organizations that provide technical and financial assistance, international organizations which are interested in livestock, and research organizations.

In this chapter of the report: estimates of livestock that include cattle, sheep, goats, draught animals (horses, mules, asses and camels), poultry and bees were made based on the information obtained from the holders within the selected agricultural households both in rural and urban areas as to the reference date (February 8,2002) and reference period (February 9,2001 to February 8, 2002). Thus, the results obtained from the livestock census for the rural and urban areas of the region as well as brief discussions made on the results are presented. Also the census results at regional level are provided in Statistical Tables 7.1–7.36. Moreover, the estimates, standard errors and coefficients of variation are given in Annex Tables 7.1-7.10 for some relevant variables.

2. LIVESTOCK NUMBER BY BREED, AGE, SEX, AND PURPOSE

The livestock census is the first of its kind in the nation to supply data on the size and characteristics of livestock for rural and urban areas and commercial farms at wereda level, and also for pastoral areas though the census not yet conducted. The livestock

census that was carried-out in Gambela Region was part of the national census and covered both rural and urban areas of the region on sample basis. Commercial farms that are found in the region were also covered on complete enumeration basis though the results are not presented here.

The total number of each type of livestock as well as the numbers disaggregated by breed, age, sex, and purpose possessed by holders on the reference date (February 8, 2002), irrespective of ownership, were recorded by interviewing each holder in the sampled agricultural households both in rural and urban areas of the region. The numbers also include the livestock belonging to the holding but temporarily away or in transit at the time of the enumeration.

2.1 Cattle

The estimates of cattle for rural and urban areas in Gambela Region are presented in Summary Table VII.1. As shown on the table, the total cattle population for the region is estimated to be 126,198. Out of this total cattle population, the female cattle constitute about 70.9 percent (89,458) and the remaining 29.1 percent (36,741) are male cattle. The majority (92 percent) of the cattle population is found in rural areas, while small proportion is accounted for urban areas (8 percent).

Regarding age groups, the majority of the cattle population (that is about 48.4 percent) is in the 3 years and under 10 years age category, with about 7 percent male and about 41.3 percent female. Moreover, about 50.1 percent are under three years and small portion, which is 1.5 percent, is in 10 years and older category. (also see Fig VII.1). On the other hand, according to the results obtained, almost all the cattle reported in the region are indigenous breed.

The distribution of cattle by purpose is indicated in the same table. Among cattle aged three years and under ten years, those used for milk purposes accounted for 67 percent and the percentage share of cattle used for draught purposes is the lowest that is about

SUMMARY TABLE VII.1: Estimated Number of Cattle by Sex, Age, Breed, and Purpose for Rural and Urban Holdings

	Cattle on Both Rural and Urban Holdings						Cattle on Rural Holdings						Cattle on Urban Holdings					
	Total		Male		Female		Total		Male		Female		Total		Male		Female	
Age,Breed,and Purpose	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Total.....	126,198	100	36,741	29.11	89,458	70.89	116,074	91.98	33,626	26.65	82,448	65.33	10,124	8.02	3,115	2.47	7,009	5.55
Under 6 months	21,597	17.11	10,236	8.11	11,361	9.00	19,526	15.47	9,348	7.41	10,178	8.07	2,071	1.64	888	0.70	1,184	0.94
6 months-under 1 year ...	17,137	13.58	8,161	6.47	8,976	7.11	15,834	12.55	7,553	5.99	8,280	6.56	1,303	1.03	608	0.48	695	0.55
1 year-under 3 years	24,517	19.43	9,105	7.21	15,413	12.21	23,185	18.37	8,547	6.77	14,638	11.60	1,333	1.06	558	0.44	774	0.61
3 years-under 10 years	61,074	48.40	8,936	7.08	52,138	41.31	55,731	44.16	7,906	6.26	47,825	37.90	5,343	4.23	1,030	0.82	4,313	3.42
10 years and older ...	1,873	1.48	303	0.24	1,570	1.24	1,798	1.42	272	0.22	1,527	1.21	75	0.06	*	*	43	0.03
Cattle by Breed																		
Total	126,198	100	36,741	29.11	89,458	70.89	116,074	91.98	33,626	26.65	82,448	65.33	10,124	8.02	3115	2.47	7,009	5.55
Indigenous	126,196	100	36,741	29.11	89,456	70.89	116,072	91.98	33,626	26.65	82,446	65.33	10,124	8.02	3115	2.47	7,009	5.55
Hybrid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exotic	*	*	-	-	*	*	*	*	-	-	*	*	-	-	-	-	-	-
Aged 3-10 Years by Purpose																		
Total	61,074	100	8,936	14.63	52,138	85.37	55,731	91.25	7,906	12.94	47,825	78.31	5,343	8.75	1030	1.69	4,313	7.06
Used for Milk	40,905	66.98			40,905	66.98	37,401	61.24			37,401	61.24	3,504	5.74			3,504	5.74
Used for Draught	1,220	2.00	1,198	1.96	*	*	998	1.63	982	1.61	*	*	222	0.36	216	0.35	*	*
Used for Beef	5,880	9.63	5,070	8.30	809	1.32	5,686	9.31	4,885	8.00	801	1.31	194	0.32	*	*	*	*
Used for Breeding	11,776	19.28	2,470	4.04	9,306	15.24	10,798	17.68	1,852	3.03	8,946	14.65	978	1.60	618	1.01	361	0.59
Used for Other	1,293	2.12	199	0.33	1,095	1.79	849	1.39	187	0.31	662	1.08	444	0.73	*	*	433	0.71
Dairy Animals																		
Dairy Cows	40,905	100			40,905	100	37,401	91.43			37,401	91.43	3,504	8.57			3,504	8.57
Milking Cows	33,934	100			33,934	100	30,496	89.87			30,496	89.87	3,438	10.13			3,438	10.13

FIGURE VII.1 DISTRIBUTION OF CATTLE BY AGE AND SEX

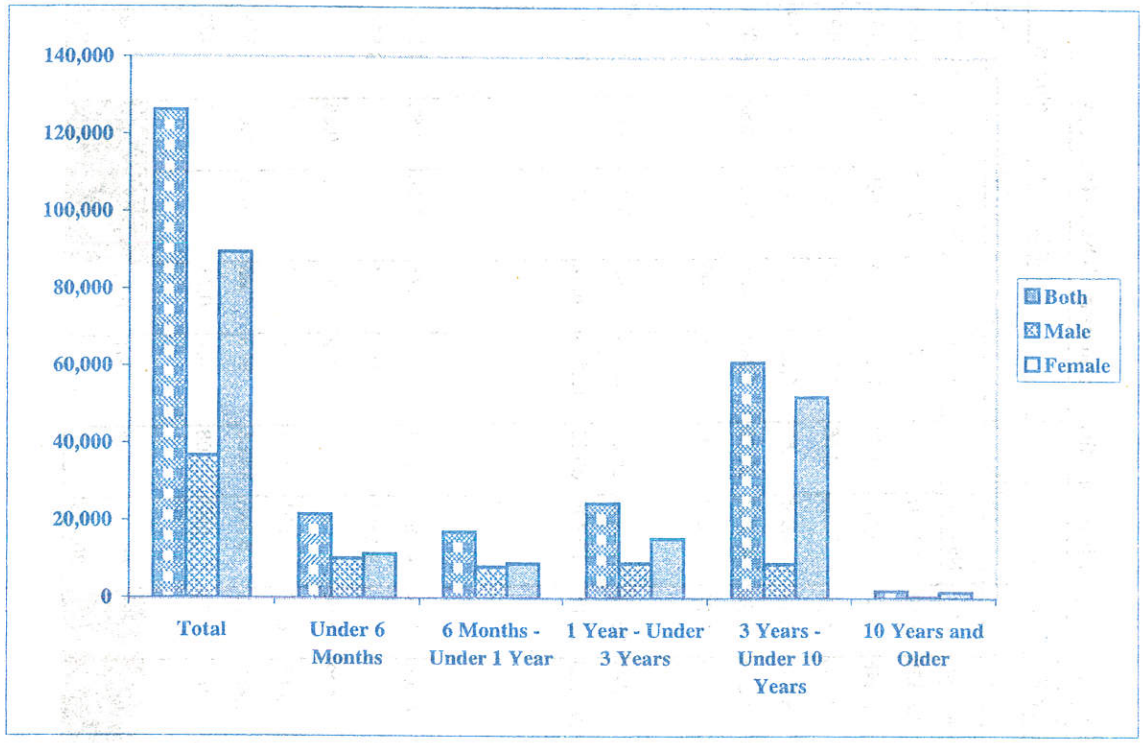
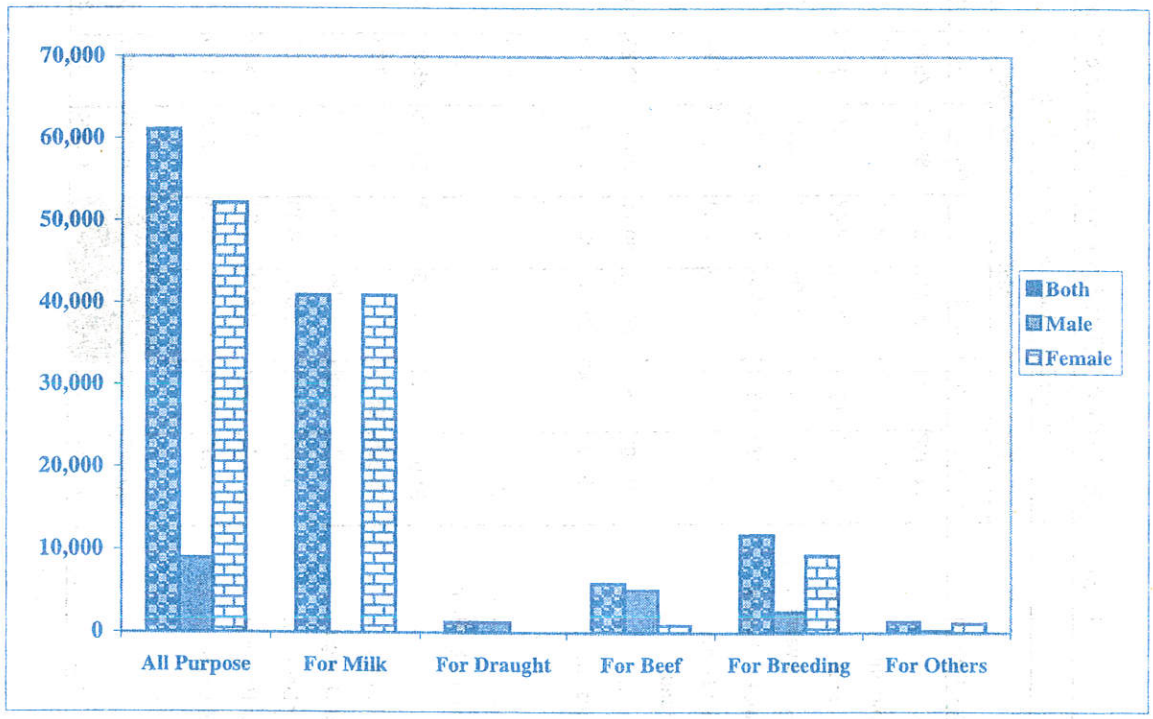


FIGURE VII.2 DISTRIBUTION OF CATTLE AGED 3 AND UNDER 10 YEARS BY PURPOSE AND SEX



2 percent. Beef cattle here refer to all cattle reared exclusively for meat that is used either for home consumption or for sale. Further, the number of dairy-cows[1] is estimated to be about 40,905 and milking-cows[2] are about 33,934 (See Fig. VII.2).

As to zonal level cattle distribution, Zone 1 contributes the largest share, that is 84.2 percent, and the remaining 15.8 percent is accounted for Zone 2. Moreover, cattle population by sex, age, breed, and purpose are estimated for each wereda in each zone and presented in the Statistical Tables given at the end of this chapter.

2.2 Sheep and Goats

The estimated numbers and percentage distributions of sheep and goats for rural and urban areas are given in Summary Table VII.2. As pointed out in this table, about 43,746 sheep are estimated to be found in the region, out of which about 79.2 percent are females, and about 20.8 percent are males. Moreover, according to the census result, large number of goats is reported in the region, and it is estimated to be about 49,076. Out of these total goats, 78.6 percent are females and 21.4 percent are males. (See Fig. VII.3).

Among these totals reported in the region, 97.7 percent of the sheep and 95.2 percent of the goats are found in the rural areas. Urban areas accounted for only 2.3 percent and 4.8 percent of the sheep and goats, respectively.

Pertaining to the age distribution of both the sheep and the goats, the largest portions are in the age group of two years and older (41.4 percent and 36 percent, in that order), followed by the young stock under six months for both sheep and goats, that is 28.7 percent and 29.3 percent, respectively. (See Figures VII.3)

With respect to breed, 99.9 percent of the sheep, (43,728) and all the goats, (49,076) are indigenous. The share of male sheep and male goats are 20.8 percent (9,095) and

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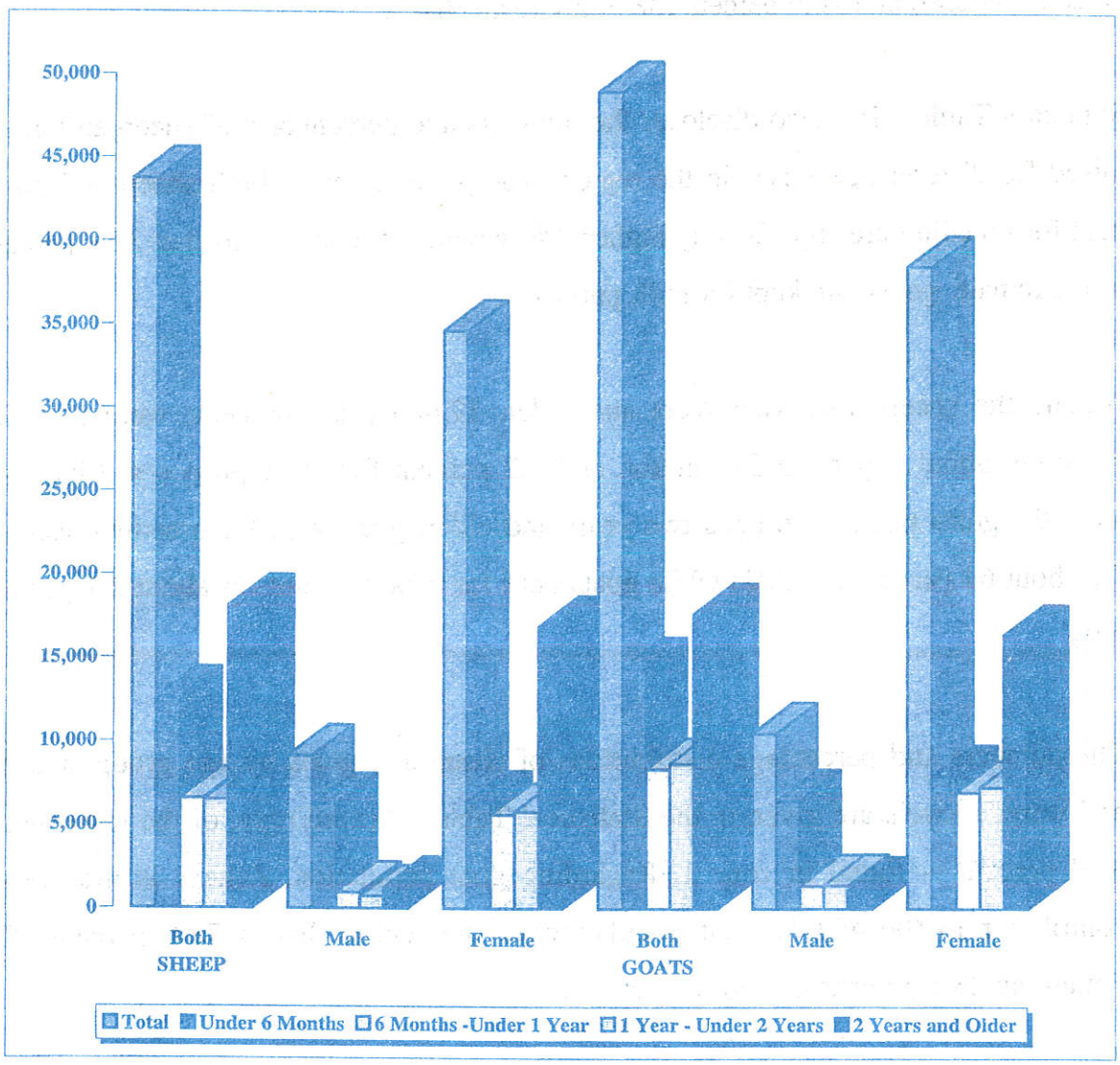
1 A *Dairy Cow refers to a cow that primarly kept for milk and has milked previously and/or milking at the time of enumeration or has never been milked before but expected to be milked in the future or pregnant at the time of enumeration.*

2 A *Milking Cow refers to any type of cow that actually milked during the reference period (February 9, 2001 to February 8, 2002).*

SUMMARY TABLE VII.2: Estimated Number of Sheep and Goats by Sex, Age, Breed, and Purpose for Rural and Urban Holdings

Age,Breed,and Purpose	Both Rural and Urban Holdings						Rural Holdings						Urban Holdings					
	Total		Male		Female		Total		Male		Female		Total		Male		Female	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Total Sheep.....	43,746	100	9,095	20.79	34,650	79.21	42,753	97.73	8,767	20.04	33,986	77.69	993	2.27	328	0.75	664	1.52
Under 6 months	12,572	28.74	6,208	14.19	6,364	14.55	12,397	28.34	6,109	13.96	6,288	14.37	175	0.40	*	*	*	*
6 months-under 1 year	6,568	15.01	944	2.16	5,624	12.86	6,437	14.71	919	2.10	5,517	12.61	131	0.30	*	*	107	0.24
1 year-under 2 years	6,492	14.84	699	1.60	5,792	13.24	6,367	14.55	653	1.49	5,714	13.06	124	0.28	46	0.11	78	0.18
2 years and older	18,114	41.41	1,245	2.85	16,869	38.56	17,552	40.12	1,085	2.48	16,467	37.64	562	1.28	160	0.37	403	0.92
Sheep by Breed																		
Total	43,746	100	9,095	20.79	34,650	79.21	42,753	97.73	8,767	20.04	33,986	77.69	993	2.27	328	0.75	664	1.52
Indigenous	43,728	99.96	9,078	20.75	34,650	79.21	42,735	97.69	8,749	20.00	33,986	77.69	993	2.27	328	0.75	664	1.52
Hybrid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exotic	*	*	*	*	-	-	*	*	*	*	-	-	-	-	-	-	-	-
Sheep Aged 2 Years and Older by Purpose																		
Total	18,114	100	1245	6.87	16,869	93.13	17,552	96.90	1,085	5.99	16,467	90.91	562	3.10	160	0.88	403	2.22
Used for Mutton	423	2.34	275	1.52	148	0.82	362	2.00	241	1.33	121	0.67	*	*	*	*	*	*
Used for Wool	*	*	-	*	*	*	*	*	-	-	*	*	*	*	-	-	*	*
Used for Breeding	17,463	96.41	927	5.12	16,537	91.29	16,967	93.67	801	4.42	16,166	89.25	497	2.74	*	*	371	2.05
Used for Other	211	1.16	*	*	168	0.93	211	1.16	*	*	168	0.93	-	-	-	-	-	-
Total Goats	49,076	100	10,494	21.38	38,582	78.62	46,735	95.23	9,858	20.09	36,877	75.14	2,341	4.77	637	1.30	1,705	3.47
Under 6 months	14,388	29.32	6,464	13.17	7,923	16.14	13,744	28.01	6,171	12.57	7,573	15.43	644	1.31	294	0.60	350	0.71
6 months-under 1 year	8,363	17.04	1,385	2.82	6,978	14.22	8,066	16.44	1,290	2.63	6,776	13.81	297	0.61	95	0.19	202	0.41
1 year-under 2 years	8,671	17.67	1,396	2.84	7,274	14.82	8,427	17.17	1,327	2.70	7,100	14.47	243	0.50	69	0.14	174	0.35
2 years and older	17,655	35.97	1249	2.55	16,406	33.43	16,498	33.62	1,070	2.18	15,428	31.44	1,157	2.36	179	0.36	978	1.99
Goats by Breed																		
Total	49,076	100	10494	21.38	38,582	78.62	46,735	95.23	9858	20.09	36,877	75.14	2,341	4.77	637	1.30	1,705	3.47
Indigenous	49,076	100	10,494	21.38	38,582	78.62	46,735	95.23	9,858	20.09	36,877	75.14	2,341	4.77	637	1.30	1,705	3.47
Hybrid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exotic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Goats Aged 2 Years and Older by Purpose																		
Total	17,655	100	1249	7.07	16,406	92.93	16,498	93.45	1,070	6.06	15,428	87.39	1,157	6.55	179	1.01	978	5.54
Used for Milk	5,783	32.76			5,783	32.76	5,505	31.18			5,505	31.18	278	1.57			278	1.57
Used for Meat	467	2.65	352	1.99	115	0.65	419	2.37	309	1.75	110	0.62	48	0.27	*	*	*	*
Used for Breeding	11,302	64.02	855	4.84	10,447	59.17	10,472	59.31	719	4.07	9,753	55.24	831	4.71	136	0.77	695	3.94
Used for Other	102	0.58	*	*	61	0.35	102	0.58	*	*	61	0.35	-	-	-	-	-	-

FIGURE VII.3 DISTRIBUTION OF SHEEP AND GOATS BY AGE AND SEX



21.4 percent (10,494) while the female sheep and female goats accounted for 79.2 percent (34,650) and 78.6 percent (38,582), respectively.

Summary Table VII.2 also discloses the numbers and percentages of sheep and goats raised for different purposes in the region. The percentages of both sheep and goats kept for breeding are significantly higher. Moreover, the data reveals that 32.8 percent of the female goats are kept for milk purposes.

Among the sheep flock two years and older, 17,463 (96.4 percent) were kept for breeding; about 2 percent for mutton and 1.2 percent for other purposes. Likewise, amid the goats population aged two years and older, goats kept for breeding account for about 64 percent (11,302) while goats kept for meat account for about 2.7 percent only.

The numbers and percentage distributions of sheep and goats by age group at zonal and wereda levels are given in the Statistical Tables. Accordingly, of the total sheep, 80.9 percent is found in zone 1. Regarding goat population, Zone 1 is the greater contributor to the 49,076 goat population of the region that is 76.5 percent. The remaining 23.5 percent is reported by Zone 2.

2.3. Horses, Asses, Mules And Camels

Summary Table VII.3 shows the estimates of horses, asses, mules and camels for the rural and urban areas of the region for private holdings. According to the census result, the number of mules and camels reported are insignificant and not reliable. On the other hand, 338 horses and 264 asses are reported in Gambela Region. The table as well shows that 199 asses (75.4 percent) and 333 horses (99 percent) are found in the rural areas.

As indicated in the same table, out of the total asses population in the region, 205 (77.7 percent) are males and 59 (22.3 percent) are females. With respect to age

FIGURE VII.4 DISTRIBUTION OF SHEEP BY PURPOSE AND SEX
AGED 2 AND OLDER

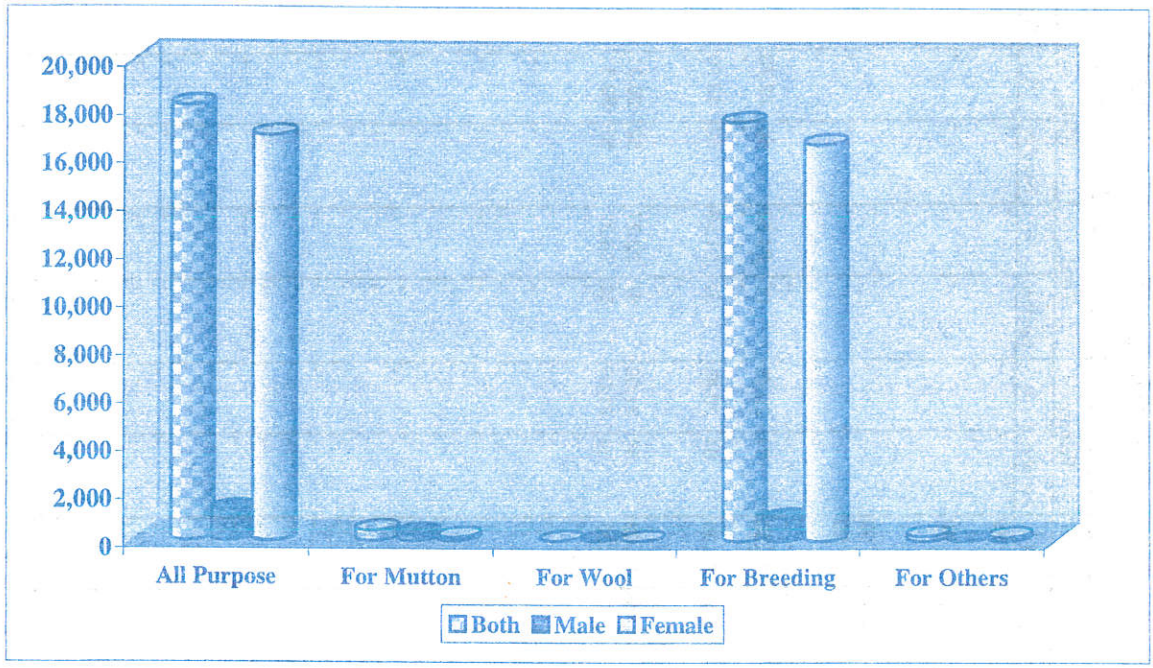
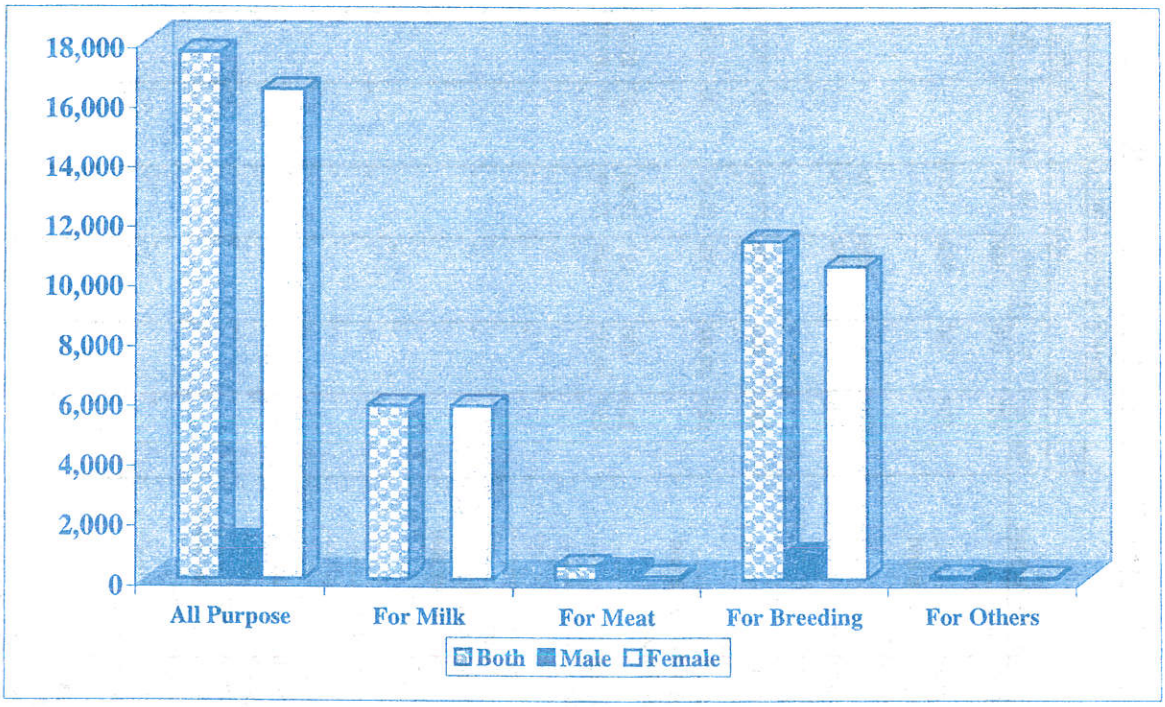


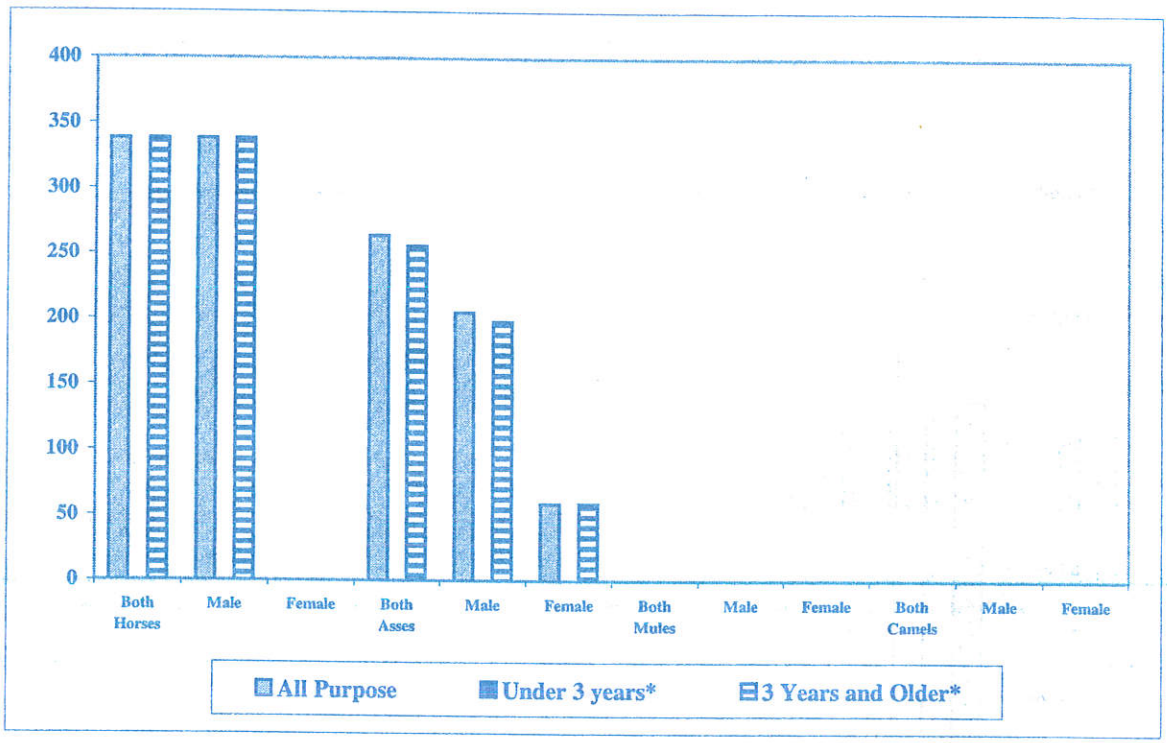
FIGURE VII.5 DISTRIBUTION OF GOATS BY PURPOSE AND SEX
AGED 2 AND OLDER



SUMMARY TABLE VII.3: Estimated Number of Horses, Asses, Mules and Camels by Sex, Age, Breed, and Purpose for Rural and Urban Holdings

Age,Breed,and Purpose	Both Rural and Urban Holdings						Rural Holdings						Urban Holdings					
	Total		Male		Female		Total		Male		Female		Total		Male		Female	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Total Horses.....	338	100	338	100	-	-	333	99	333	99	-	-	*	*	*	*	-	-
Under 3 Years	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 years and older	338	100	338	100	-	-	333	99	333	99	-	-	*	*	*	*	-	-
Horses Aged 3 years and Older by Purpose																		
All Uses	338	100	338	100	-	-	333	99	333	99	-	-	*	*	*	*	-	-
Transportation	338	100	338	100	-	-	333	99	333	99	-	-	*	*	*	*	-	-
Draught	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Uses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Asses	264	100	205	77.65	59	22.35	199	75.38	146	55.30	54	20.45	65	24.62	60	22.73	*	*
Under 3 Years	*	*	*	*	-	-	-	-	-	-	-	-	*	*	*	*	-	-
3 years and older	256	96.97	198	75.00	59	22.35	199	75.38	146	55.30	54	20.45	57	21.59	52	19.70	*	*
Asses Aged 3 Years and Older by Purpose																		
All Uses	256	100	198	77.34	59	23.05	199	77.73	146	57.03	54	21.09	57	22.27	52	20.31	*	*
Transportation	251	98.05	198	77.34	54	21.09	199	77.73	146	57.03	54	21.09	52	20.31	52	20.31	-	-
Draught	*	*	-	-	*	*	-	-	-	-	-	-	*	*	-	-	*	*
Other Uses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Mules	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*	*	*	*
Under 3 Years	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 Years and older	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*	*	*	*
Mules Aged 3 Years and Older by Purpose																		
All Uses	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*	*	*	*
Transportation.....	*	*	*	*	*	*	-	-	-	-	-	-	*	*	*	*	*	*
Draught	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Uses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Camels.....	*	*	*	*	-	-	-	-	-	-	-	-	*	*	*	*	-	-
Under 4 Years	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4 years and older	*	*	*	*	-	-	-	-	-	-	-	-	*	*	*	*	-	-
Camels Aged 4 Years and Older by Purpose																		
All Uses	*	*	*	*	-	-	-	-	-	-	-	-	*	*	*	*	-	-
Transportation.....	*	*	*	*	-	-	-	-	-	-	-	-	*	*	*	*	-	-
Draught	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Meat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Milk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Uses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FIGURE VII.6 DISTRIBUTION OF HORSES, ASSES, MULES AND CAMELS BY AGE AND SEX



* Note :- for camels the age Categories are under 4 years and 4 years & older.

FIGURE VII.7 DISTRIBUTION OF HORSES, ASSES, MULES AND CAMELS BY PURPOSE AND SEX

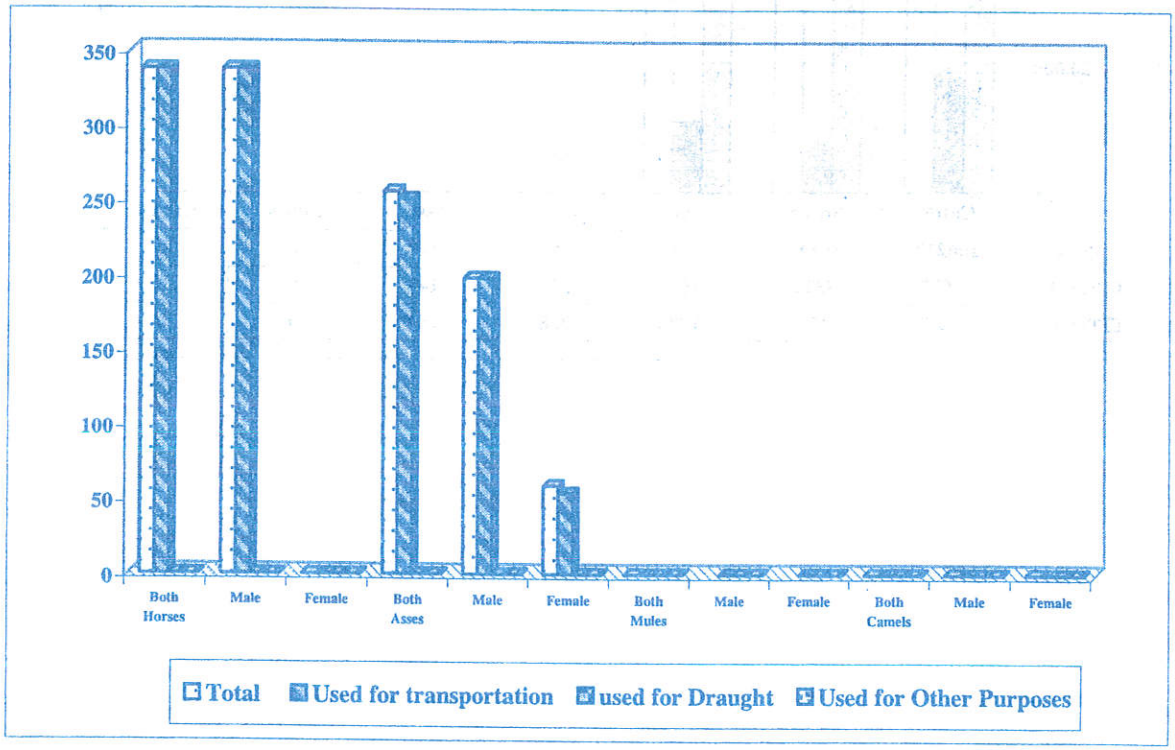
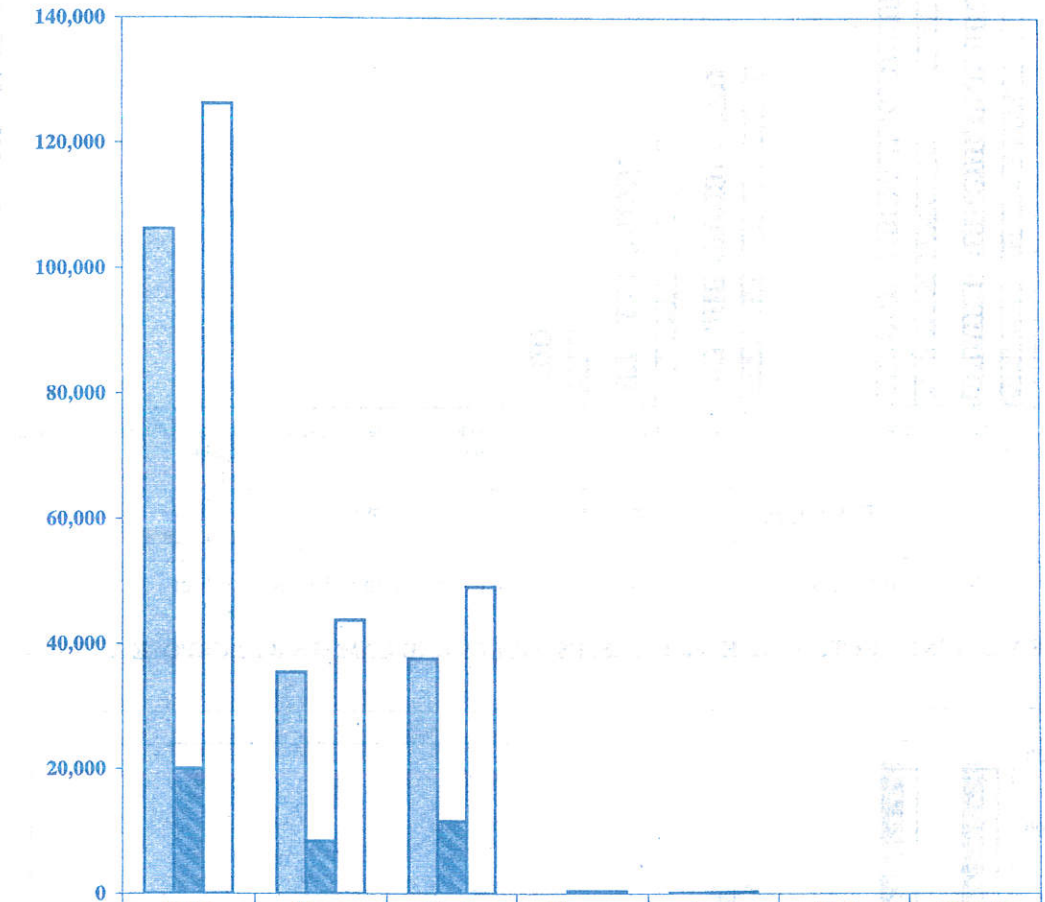


FIGURE VII.8 DISTRIBUTION OF LIVESTOCK BY ZONE



	Cattle	Sheep	Goats	Horses	Asses	Mules	Camels
ZONE 1	106222	35404	37542	0	117	0	0
ZONE 2	19977	8342	11534	338	147	0	0
Total	126199	43746	49076	338	264	0	0

distribution, about 97 percent of the asses and all the horses are in the age group of 3 years and older category.

The estimates of these animals (aged 3 years and older) by sex and purpose are also given in Summary Table VII.3. As indicated in the table, among the horses and asses aged three years and older, 338 (100 percent) and 251 (98 percent) were used for transportation, respectively. (See also Figures VII.6 and VII.7)

Pertaining to zonal distribution, about 55.7 percent of the total ass population is found in Zone 2 and the remaining 44.3 percent is accounted for Zone 1. Likewise, all the horses reported in the region are found in Zone 2. (See Fig. VII.8).

2.4 Poultry

Data on poultry population are collected as part of the livestock census, and the total poultry population in Gambela Region is estimated to be about 237,930. In this report, poultry includes cocks, cockerels, pullets, laying hens, non-laying hens and chicks. Consequently, as shown in Summary Table VII.4 and Figure VII.9, most of the poultry are chicks (74,123), followed by laying hens (56,787). Non-laying hens are estimated to be 17,058 in the region. Pullets, cocks and cockerels are also estimated separately, and are 32,763, 32,230 and 24,970, respectively. Rural areas constitute 92.6 percent of the total poultry and Urban areas share was 7.4 percent.

Moreover, average egg-laying period per hen and average number of eggs laid per hen during this period are estimated based on the data collected. Consequently, average egg-laying period per hen is estimated to be about 16 days while average number of eggs laid per hen per egg-laying period is about 12 eggs in the region. Egg laying period and number of eggs laid per period are higher in rural than in urban areas.
Pertaining to zonal distribution, 50.5 percent and 49.5 percent of the total poultry population are found in Zone1 and Zone 2, respectively.

SUMMARY TABLE VII.4: Estimated number of Poultry by Type for Rural and Urban Holdings

Type of Poultry	Rural and Urban Holdings		Rural Holdings		Urban Holdings	
	Number	%	Number	%	Number	%
All Poultry	237,930	100	220,430	92.64	17,501	7.36
Cocks	32,230	13.55	29,381	12.35	2,849	1.20
Cockerels	24,970	10.49	23,324	9.80	1,646	0.69
Pullets	32,763	13.77	30,193	12.69	2,570	1.08
Non-Laying Hens	17,058	7.17	16,258	6.83	800	0.34
Chicks	74,123	31.15	68,998	29.00	5,126	2.15
Laying Hens	56,787	23.87	52,276	21.97	4,510	1.90
Average Number Days/Clutch...	16		16		14	
Average Eggs/Hen/Clutch.....	12		12		11	

SUMMARY TABLE VII.5: Estimated number of Beehives by Type for Rural and Urban Holdings

Type of Beehive	Rural and Urban Holdings		Rural Holdings		Urban Holdings	
	Number	%	Number	%	Number	%
All Beehives	59,222	100	58625	98.99	*	*
Traditional Beehives	58625	98.99	58625	98.99	-	-
Intermediate Beehives	*	*	-	-	*	*
Modern Beehives	-	-	-	-	-	-

SUMMARY TABLE VII.6 : Milk and Honey Production for Rural and Urban Holdings

Item	Quantity Produced and Frequency		
	Rural and Urban Holdings	Rural Holdings	Urban Holdings
Cow Milk			
Average Daily Milk Producton(Liters/Cow)	1.940	1.908	2.293
Average Lactation Period (Months)	7	7	7
Total Milk Production(Liters)	13,133,285	11,574,174	1,559,111
Camel Milk			
Average Daily Milk Production(Liters/Camel)	-	-	-
Average Lactation Period (Months)	-	-	-
Total Milk Production(Liters)	-	-	-
Honey Production			
All Types of Beehives			
Production (Kilograms).....	1,388,326	1,388,326	-
Average Frequency (Harvest/Year)		3	-
Traditional Beehives			
Production (Kilograms).....	1,388,326	1,388,326	-
Average Frequency(Harvest./Year).....		3	-
Intermediate Beehives			
Production (Kilograms).....	-	-	-
Average Frequency(Harvest/Year)		-	3
Modern Beehives			
Production (Kilograms).....	-	-	-
Average Frequency(Harvest/Year)		-	-

2.5 Beehives

Information on beehives was also collected during the livestock census. A beehive is enumerated if and only if it produced honey at least once in the reference period (February 9, 2001 to February 8, 2002). As stated by the Ministry of Agriculture, there are three types of beehives, and these are traditional, intermediate and modern.

Traditional [Fixed comb] Hive is a hollow structure made of cheap materials like clay, straw, bamboo, false banana leaves, barks of tree, logs and animal dung. The bees fill all the available space with honeycombs from the top to down wards. The honeycombs cannot be removed since they are attached to the top and the sides of the hive. The honey can be removed only by removing one wall of the hive and breaking or cutting out the honeycomb (Reihard Fichtl and Admasu, 1994; Gezahegn Taddesse, 1993 E.C.).

Intermediate [Transitional] Hive is a long trough-shaped box with sloping sidewalls covered with bars of a fixed width. The hive consists of a bottom board, two sidewalls and front and back walls. One opening is made in the front wall to serve as flight entrance. The cover of the hive can be made from any material, which gives adequate protection against light, sun, and rain (Gezahegn Taddesse, 1993 E.C.; P.Seegeren et al, 1996).

Modern Hive [Hive with Frames] is a brood (offspring) chamber (box) with a fixed bottom board and flight board. In the bottom board there is a ventilation hole of size (15cmx30cm), which can be covered with fine wire mesh or other suitable material. The brood chamber holds ten frames, which are kept separately at the right distance by means of side bar, or nails. Queen excluder (not necessary) placed horizontally on top of the brood chamber (Gezahegn Taddesse, 1993 E.C.; P.Seegeren et al, 1996).

Any type of these beehives that produced honey at least once during the reference period (February 9, 2001 to February 8, 2002) was enumerated. Accordingly, the result of the census revealed that a total of 59,222 beehives is estimated to be found in rural and urban areas of Gambela Region. From the total beehives, 58,625 (99 percent) are traditional beehives.

As indicated in Summary Table VII.5 and Figure VII.10, very significant portion of the beehives are reported in rural areas (99 percent). Although very little, urban areas as well contributed to the beehives population of the region.
With regard to zonal distribution of hives, Zone 2 has the largest share (92 percent), and the remaining 8 percent of the hives are found in Zone 1.

3. LIVESTOCK PRODUCTS

This section summarizes results on livestock products. The various animal products include milk and milk products, eggs, wool, meat, hides and skins. Although data on such livestock products are not easily obtainable in the Ethiopian traditional agricultural sector, an endeavor was made to collect data on milk and honey productions. The data were collected subjectively from the holders in the sampled households and the results obtained are briefly discussed below.

3.1 Milk Production

Estimation of milk production entails three components, namely number of milking cows, number of months milking cows actually milked within the reference period and average milk production per cow per day. Hence, data on these components have been collected and the total milk production in the region is estimated by multiplying these three components. However, two basic concepts about milk production should be mentioned here. "Gross production", which includes whole fresh milk actually milked and milk sucked by young animals and also milk fed to other animals. "Net production" consists of whole milk actually milked and milk fed to other animals but

FIGURE VII. 9 DISTRIBUTION OF POULTRY BY TYPE

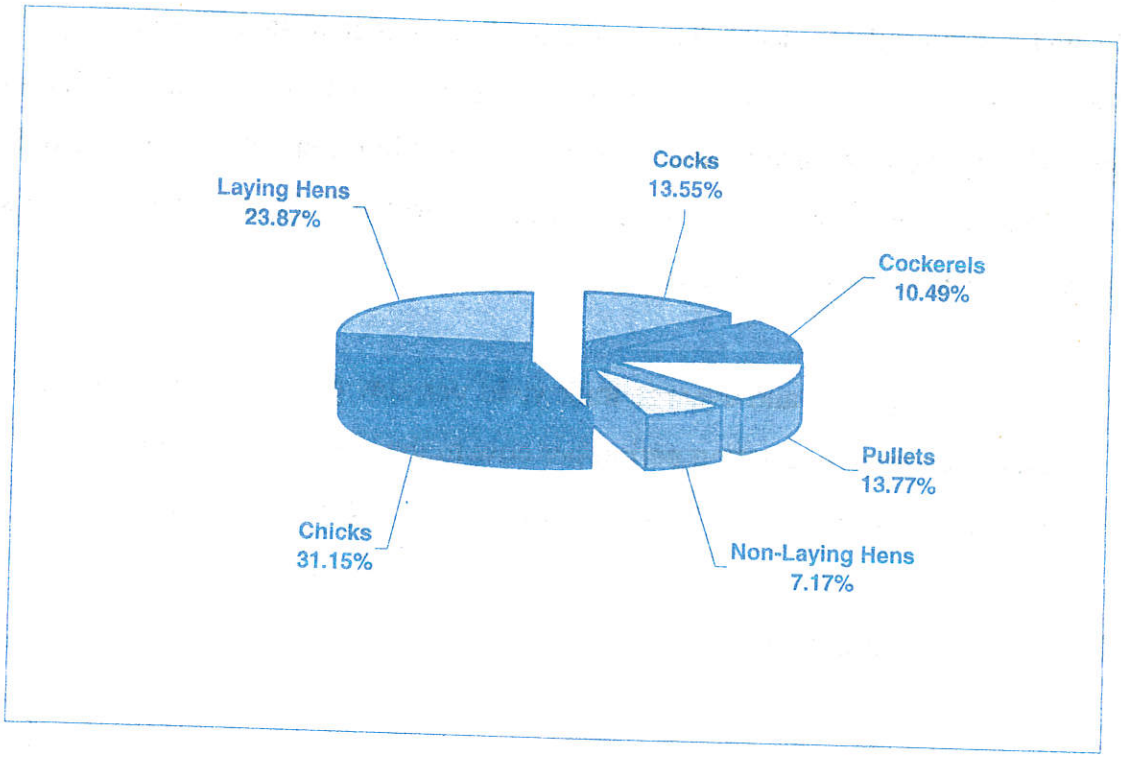
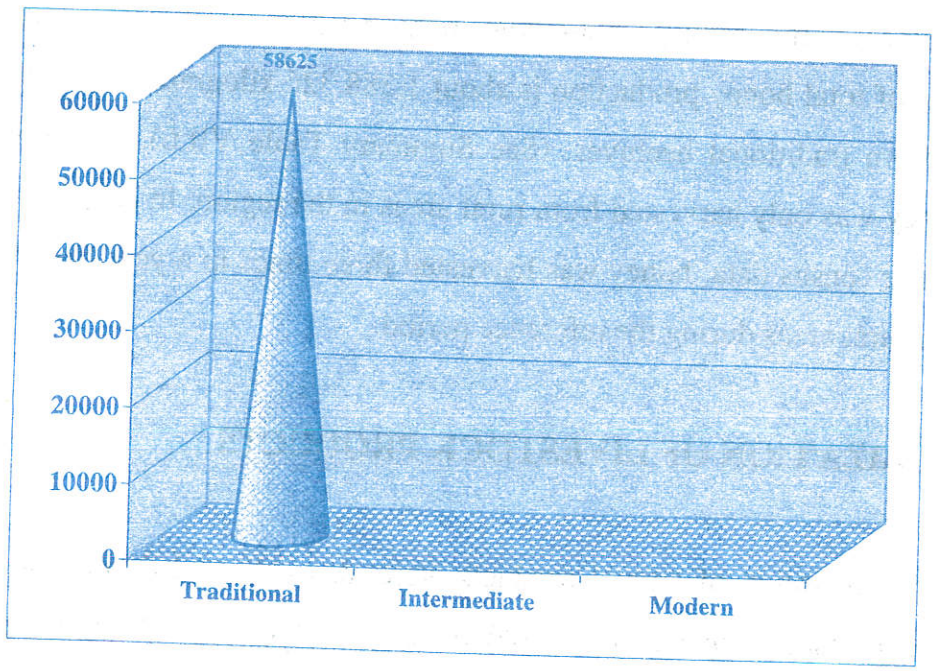


FIGURE VII. 10 DISTRIBUTION OF BEEHIVES BY TYPE



excludes milk sucked by young animals. Therefore, in our case, milk production is estimated based on the concept "net production", and as indicated in Summary Table VII.6, the estimate of total milk production for rural and urban areas in Gambela Region during the reference period, is about 13.1 million liters of which 11.6 million liters (88.1 percent) is attributed to rural areas. A total of about 1.6million liters of milk was as well estimated in urban areas.

Data on lactation period and average milk yield per cow per day were also collected. As a result, the average lactation period per cow in the region is estimated to be about seven months, and average milk yield per cow per day is about 1.9 liters.

3.2. Honey Production

To estimate honey production, number of beehives, frequency of honey production and honey production per harvest are required. Therefore, these data were collected from the holders within sampled households both in rural and urban areas. As a result, the estimate of total honey production is about 1,388,326 kilograms of which all were harvested from traditional beehives. (See Summary Table VII.6). According to the results, honey was only harvested from rural areas in the region. In addition, as can be seen from the census data, honey was harvested three times in a year from traditional beehives in rural areas during the reference period.

4. UTILIZATION OF LIVESTOCK PRODUCTS

Data on the utilization of animal products were also collected during the census to assess product usage experience of holders. The products for which utilization data intended to be collected were milk, egg, honey, meat, hides and skins, wool and byproducts such as butter, cheese, and wax. It is commonly accepted that these products are often used for household consumption and/or sold to finance the purchase of basic household commodities such as coffee, salt, cooking oil, sugar, etc. The products are sometimes used as payments and gifts to others. The census data on

SUMMARY TABLE VII.7: Livestock Product Utilization - Percentage of Uses for Rural and Urban Holdings

Type of Product	Rural and Urban Holdings					Rural Holdings					Urban Holdings				
		Percent of Product Utilized for:					Percent of Product Utilized for:					Percent of Product Utilized for:			
	Total%	Household Consumption	Sale	Wages in Kind	Other	Total%	Household Consumption	Sale	Wages in Kind	Other	Total%	Household Consumption	Sale	Wages in Kind	Other
Milk	100	61.87	10.03	0.16	27.94	100	62.32	8.16	0.15	29.36	100	58.26	25.02	0.21	16.52
Butter	100	66.16	29.43	0.05	4.37	100	66.36	29.24	0.05	4.36	100	63.68	31.85	0.03	4.44
Cheese	100	90.94	5.01	0.13	3.92	100	91.93	4.72	0.14	3.22	100	77.04	9.18	-	13.77
Beef	100	36.64	49.47	0.19	13.7	100	36.54	49.5	0.14	13.82	100	39.37	48.69	1.39	10.55
Mutton/Goat Meat	100	52.87	36.49	0.29	10.36	100	52.27	37.58	0.33	9.82	100	57.15	28.65	-	14.2
Eggs	100	25.82	28.59	0.12	45.46	100	24.36	28.97	0.13	46.54	100	44.16	23.88	-	31.97
Honey	100	18.9	76.74	0.13	4.24	100	18.83	76.81	0.12	4.24	100	35.15	59.91	1.11	3.83
Bees Wax	100	21.53	37.31	1.12	40.05	100	21.59	37.05	1.12	40.24	100	10	90	-	-
Wool	100	100	-	-	-	100	100	-	-	-	-	-	-	-	-
Hide	100	51.04	46.39	1.01	1.55	100	50.92	46.26	1.11	1.71	100	52.32	47.68	-	-
Skin	100	61.33	32.86	2.07	3.74	100	60.39	32.87	2.36	4.38	100	66.35	32.8	0.51	0.34

the utilization of animal products in the rural and urban areas are presented in Summary Table VII.7. However, data on utilization of livestock products for Dima Wereda in the rural areas was not collected due to various reasons. The census result reveals that out of the total annual milk production, 61.9 percent was used for household consumption, 10.03 percent was sold and about 28 percent was used for other purposes. With respect to the utilization of butter 66.2 percent was used for household consumption and 29.4 percent was sold. Most of the total cheese produced was used for household consumption that is about 91 percent, and about 5 percent was sold.

Of the total honey produced, about 76.7 percent was sold , and 18.9 percent was used for household consumption. All the wool produced in the region was used for household consumption.

Concerning utilization of egg products, 28.6 percent of the total egg produced was sold and 25.8 percent was used for household consumption. Moreover, 45.5 percent of the total egg produced in the region was used for other purposes and that could be for hatching. Holders' utilization practices on hides, and skins were also assessed and the results showed that about 51 percent and 61 percent was used for household consumption , respectively.

5. LIVESTOCK VACCINATION, DISEASE, TREATMENT AND DEATH

Diseases have numerous negative impacts on productivity of herds i.e. death of animals, loss of weights, slow down growth, poor fertility performance, decrease in physical power and the likes. There have been many ways of fighting against diseases and among these, vaccinations (preventive measures) and treatments (curative measures) are the major ones. However, no efficient fight against disease or disease prevention is possible if descriptive data on prevalence of diseases, deaths, vaccinations, and treatments are not available. The availability of these data is also very important to set-up strategies that can assist in preventing and controlling

diseases, by and large in improving veterinary services of the country. Hence, it was considered desirable to collect information on vaccinations, treatments, diseases, and deaths of animals during the census.

Data on these parameters specifically on number of vaccinated, afflicted, treated and dead animals were therefore collected and the results are shown in Summary Table VII.8. The estimated number of vaccinated animals within the reference period in rural and urban areas of Gambela Region is about 19,126. Out of these animals, about 91.6 percent were cattle followed by goats, which took only 3.7 percent share.

In the same table, it is indicated that about 114,525 animals were diseased/afflicted by different types of diseases during the reference period and only 5,609 of them were treated. Cattle constituted about 75.3 percent of the total treated animals.

According to the census data, animals were dead in the region due to diseases of which 81 percent was poultry. In addition, the estimated numbers of dead cattle and dead goats in the region are about 8,873 and 5,272 respectively. (See Summary Table VII.8).

If we take a look at the zonal results to see the distributions among the zones, 54.3 percent of the total vaccinated-animals are reported in Zone 1. The rest 45.7 percent are found in Zone 2. Regarding diseased animals, the majorities are accounted for Zone 2. Similar distribution patterns are also observed for treated and dead animals.

6. ANIMAL FEED

Data on animal feed practices of holders in both the rural and urban areas of the region were gathered to assess feed utilization experience. For the purpose of this report, animal feeds are classified as green fodder (grazing), crop residue, improved feed, hay, industrial byproducts, and other feeds. *Green fodder* is simply pasture grasses; *crop residue* includes harvested byproducts (straw and chaff of cereals and pulses, etc.); *improved feed* is like alfalfa; *hay* includes any type of grass, clover etc.

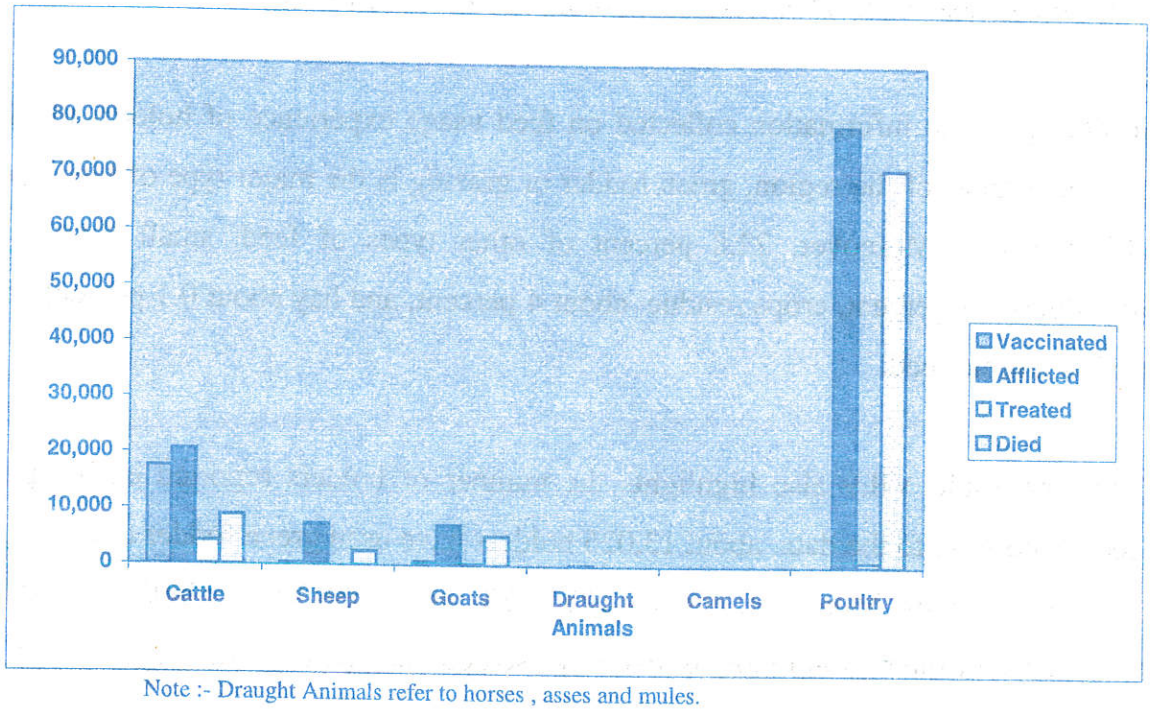
SUMMARY TABLE VII.8: Estimated number of Livestock Vaccinated, Afflicted, Treated and Died for Rural and Urban Holdings

Item	Rural and Urban Holdings		Rural Holdings		Urban Holdings	
	Number	%	Number	%	Number	%
Total Vaccinated	19,126	100	12,842	67.14	6,284	32.86
Cattle	17,518	91.59	12,120	63.37	5,398	28.22
Sheep	374	1.96	*	*	*	*
Goats	698	3.65	397	2.08	301	1.57
Horses,Asses, and Mules	20	0.10	-	-	20	0.10
Camels	-	-	-	-	-	-
Poultry	*	*	*	*	*	*
Total Afflicted	114,525	100	107,032	93.46	7,493	6.54
Cattle	20,660	18.04	18,365	16.04	2,296	2.00
Sheep	7,369	6.43	7,245	6.33	*	*
Goats	7,147	6.24	6,876	6.00	*	*
Horses,Asses, and Mules	101	0.09	*	*	32	0.03
Camels	*	*	*	*	-	-
Poultry	79,240	69.19	74,470	65.03	4,770	4.17
Total Treated	5,609	100	3,528	62.90	2,082	37.12
Cattle	4,223	75.29	2,477	44.16	1,746	31.13
Sheep	*	*	*	*	*	*
Goats	286	5.10	*	*	*	*
Horses,Asses, and Mules	15	0.27	-	-	15	0.27
Camels	-	-	-	-	-	-
Poultry	891	15.89	642	11.45	249	4.44
Total Died	88,182	100	82,749	93.84	5,433	6.16
Cattle	8,873	10.06	8,117	9.20	756	0.86
Sheep	2,498	2.83	2,402	2.72	*	*
Goats	5,272	5.98	5,051	5.73	*	*
Horses,Asses, and Mules	*	*	*	*	*	*
Camels	*	*	*	*	-	-
Poultry	71,476	81.06	67,127	76.12	4,349	4.93

SUMMARY TABLE VII.9: Animal Feed Practices for Rural and Urban Holdings

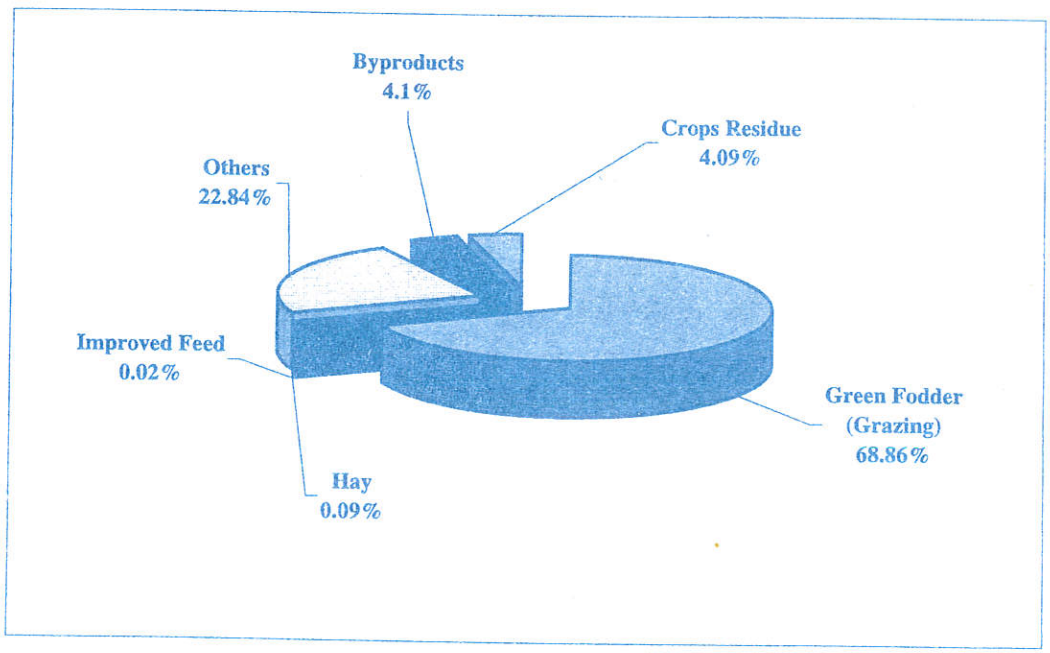
Item	Rural and Urban Holdings		Rural Holdings		Urban Holdings	
	Number Reporting	Percentage That Use:	Number Reporting	Percentage That Use:	Number Reporting	Percentage That Use:
Total		100		100		100
Green Fodder/Grazing	13,026	68.86	11,709	71.65	1,316	43.89
Crops Residue	2,732	4.09	2,652	4.47	80	0.72
Improved Feed	*	0.02	*	0.02	*	0.03
Hay	106	0.09	86	0.08	20	0.2
By-products	2,638	4.1	2,172	3.95	466	5.37
Others	9,173	22.84	7,573	19.82	1,600	49.8

FIGURE VII.11 DISTRIBUTION OF ANIMALS VACCINATED, AFFLICTED, TREATED AND DIED



Note :- Draught Animals refer to horses , asses and mules.

FIGURE VII.12 ANIMAL FEED PRACTICES OF HOLDERS



cut and dried as fodder; and finally industrial *byproducts* are like oil cake (rapeseed cake, nueg cake, sunflower cake, etc.), bran, and brewery residue.

According to the information collected on feed usage experience of holders in rural and urban areas of the region, green fodder or grazing is the major type of feed about 68.9 percent. Moreover, 22.8 percent of other types of feed, small amount of byproducts 4.1 percent, crops residue about 4 percent, and hay about 0.1 percent were used as animal feed.

Summary Table VII.9 also highlights the number of holders reported each type of feed. According to the data, about 13,026 holders have used green fodder or grazing to feed their animals. Moreover, about 9,173, 2,732 and 2,638 holders both in rural and urban areas of the region reported that they used others type of feed, crops residue and byproducts for their animals, respectively.

STATISTICAL TABLES PRESENTING RESULTS AT ZONE AND WEREDA LEVELS

Tables7.1 – 7.36

TABLE 7-1: NUMBER OF LIVESTOCK BY TYPE OF ANIMAL, REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	ALL LIVESTOCK								
	CATTLE	SHEEP	GOATS	HORSES	ASSES	MULES	CAMELS	POULTRY	BEEHIVES
Gambela	126,198	43,746	49,076	338	264	*	*	237,930	59,222
Zone 1	106,222	35,404	37,542	-	117	-	-	120,154	*
Jikawo	79,024	30,740	30,594	-	-	-	-	55,188	*
Itang	19,887	4,362	5,461	-	54	-	-	39,398	*
Gambela	7,311	302	1,487	-	64	-	-	25,568	*
Zone 2	19,977	8,342	11,534	338	147	*	*	117,776	54,558
Abobo	1,845	197	2,686	-	-	-	-	29,218	1,614
Jor	3,072	1,842	3,309	-	-	-	-	8,533	*
Gog	2,077	1,063	4,121	-	-	-	-	31,140	1,315
Godare	12,840	5,239	1,384	338	146	-	-	45,728	50,463
Dima	141	-	35	-	*	*	*	3,157	1,166

b) Rural Holdings

Geographic Areas	ALL LIVESTOCK								
	CATTLE	SHEEP	GOATS	HORSES	ASSES	MULES	CAMELS	POULTRY	BEEHIVES
Gambela	116,074	42,753	46,735	333	199	-	-	220,430	58,625
Zone 1	97,590	34,602	35,598	-	54	-	-	106,622	*
Jikawo	79,024	30,740	30,594	-	-	-	-	55,188	*
Itang	15,055	3,679	4,115	-	54	-	-	33,979	*
Gambela	3,512	*	889	-	-	-	-	17,454	*
Zone 2	18,484	8,151	11,137	333	146	-	-	113,808	53,996
Abobo	1,845	197	2,686	-	-	-	-	29,218	1,614
Jor	3,072	1,842	3,309	-	-	-	-	8,533	*
Gog	1,632	1,003	4,086	-	-	-	-	29,445	1,315
Godare	11,915	5,110	1,033	333	146	-	-	43,802	49,931
Dima	*	-	23	-	-	-	-	2,810	1,136

c) Urban Holdings

Geographic Areas	ALL LIVESTOCK								
	CATTLE	SHEEP	GOATS	HORSES	ASSES	MULES	CAMELS	POULTRY	BEEHIVES
Gambela	10,124	993	2,341	*	65	*	*	17,501	*
Zone 1	8,632	802	1,944	-	64	-	-	13,533	*
Itang	4,832	683	1,346	-	-	-	-	5,419	*
Gambela	3,799	119	598	-	64	-	-	8,114	*
Zone 2	1,493	190	397	*	*	*	*	3,968	*
Gog	*	*	*	-	-	-	-	1,695	*
Godare	925	129	351	*	-	-	-	1,926	*
Dima	122	-	12	-	*	*	*	347	*

TABLE 7-2: NUMBER OF CATTLE BY AGE AND SEX OF ANIMAL, REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	CATTLE										
	ALL CATTLE	MALE					FEMALE				
		< 6 Months	6 Mo < 1yr	1 - <3 yrs	3yrs - <10 yrs	10 yrs &Over	< 6 Months	6 Mo < 1yr	1- <3 yrs	3yrs - <10 yrs	10 yrs &Over
Gambela	126,198	10,236	8,161	9,105	8,936	303	11,361	8,976	15,413	52,138	1,570
Zone 1	106,222	8,183	6,910	7,479	7,565	278	9,453	7,743	13,050	44,139	1,422
Jikawo	79,024	5,957	5,209	5,913	5,400	*	6,523	5,491	10,443	33,434	*
Itang	19,887	1,650	1,216	1,053	1,497	128	2,237	1,703	2,061	7,522	822
Gambela	7,311	577	486	513	667	*	693	548	547	3,183	*
Zone 2	19,977	2,052	1,251	1,626	1,372	*	1,908	1,233	2,362	7,999	148
Abobo	1,845	59	78	368	674	-	108	*	126	382	*
Jor	3,072	378	140	106	156	-	295	*	405	1,369	*
Gog	2,077	164	161	197	154	*	210	122	202	855	*
Godare	12,840	1,435	864	947	371	*	1,285	853	1,612	5,331	123
Dima	141	15	*	9	*	-	11	*	17	63	-

b) Rural Holdings

Geographic Areas	CATTLE										
	ALL CATTLE	MALE					FEMALE				
		< 6 Months	6 Mo < 1yr	1 - <3 yrs	3yrs - <10 yrs	10 yrs &Over	< 6 Months	6 Mo < 1yr	1 - <3 yrs	3yrs - <10 yrs	10 yrs &Over
Gambela	116.074	9.348	7.553	8.547	7.906	272	10.17	8.280	14.638	47.825	1.527
Zone 1	97,590	7,467	6,401	7,011	6,588	246	8,438	7,132	12,523	40,391	1,392
Jikawo	79,024	5,957	5,209	5,913	5,400	*	6,523	5,491	10,443	33,434	*
Itang	15,055	1,248	943	873	904	101	1,590	1,371	1,761	5,443	822
Gambela	3,512	262	250	225	283	*	326	269	319	1,514	*
Zone 2	18,484	1,881	1,152	1,536	1,318	*	1,739	1,149	2,115	7,434	134
Abobo	1,845	59	78	368	674	-	108	*	126	382	*
Jor	3,072	378	140	106	156	-	295	*	405	1,369	*
Gog	1,632	116	121	163	136	*	168	96	142	677	*
Godare	11,915	1,325	813	897	349	*	1,169	798	1,438	4,998	110
Dima	*	*	-	*	*	-	-	-	*	*	-

c) Urban Holdings

Geographic Areas	CATTLE										
	ALL CATTLE	MALE					FEMALE				
		< 6 Months	6 Mo < 1yr	1 - <3 yrs	3yrs - <10 yrs	10 yrs &Over	< 6 Months	6 Mo < 1yr	1 - <3 yrs	3yrs - <10 yrs	10 yrs &Over
Gambela	10.124	888	608	558	1.030	*	1.184	695	774	4.313	43
Zone 1	8,632	716	509	468	977	*	1,015	611	527	3,747	30
Itang	4,832	401	273	180	593	*	647	332	300	2,079	-
Gambela	3,799	315	236	288	384	*	367	279	227	1,669	30
Zone 2	1,493	172	98	90	53	-	169	84	247	565	*
Gog	*	*	*	*	*	-	*	*	*	*	-
Godare	925	110	51	50	*	-	116	55	174	333	*
Dima	122	13	*	*	*	-	11	*	14	55	-

TABLE 7-3: NUMBER OF SHEEP BY AGE AND SEX OF ANIMAL, REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	SHEEP								
	ALL SHEEP	MALE				FEMALE			
		< 6 Months	6 Mo < 1yr	1 - <2 yrs	2 yrs &Over	< 6 Months	6 Mo < 1yr	1 - <2 yrs	2 yrs &Over
Gambela	43,746	6,208	944	699	1,245	6,364	5,624	5,792	16,869
Zone 1	35,404	4,581	660	481	904	4,995	4,866	4,920	13,997
Jikawo	30,740	4,131	406	280	402	4,350	4,340	4,333	12,497
Itang	4,362	400	246	177	477	635	468	553	1,405
Gambela	302	*	*	*	*	*	*	*	95
Zone 2	8,342	1,627	284	218	341	1,370	758	872	2,873
Abobo	197	-	-	*	93	-	-	-	87
Jor	1,842	203	*	*	108	158	290	*	686
Gog	1,063	89	*	71	83	162	120	125	402
Godare	5,239	1,334	160	81	*	1,049	347	512	1,698
Dima	-	-	-	-	-	-	-	-	-

b) Rural Holdings

Geographic Areas	SHEEP								
	ALL SHEEP	MALE				FEMALE			
		< 6 Months	6 Mo < 1yr	1 - <2 yrs	2 yrs &Over	< 6 Months	6 Mo < 1yr	1 - <2 yrs	2 yrs &Over
Gambela	42,753	6,109	919	653	1,085	6,288	5,517	5,714	16,467
Zone 1	34,602	4,505	639	444	762	4,932	4,816	4,851	13,653
Jikawo	30,740	4,131	406	280	402	4,350	4,340	4,333	12,497
Itang	3,679	328	228	159	349	576	431	492	1,116
Gambela	*	*	*	*	*	*	*	*	*
Zone 2	8,151	1,604	280	209	323	1,356	701	863	2,814
Abobo	197	-	-	*	93	-	-	-	87
Jor	1,842	203	*	*	108	158	290	*	686
Gog	1,003	89	*	66	73	162	90	120	392
Godare	5,110	1,312	157	*	*	1,036	321	508	1,650
Dima	-	-	-	-	-	-	-	-	-

c) Urban Holdings

Geographic Areas	SHEEP								
	ALL SHEEP	MALE				FEMALE			
		< 6 Months	6 Mo < 1yr	1 - <2 yrs	2 yrs &Over	< 6 Months	6 Mo < 1yr	1 - <2 yrs	2 yrs &Over
Gambela	993	*	*	46	160	*	107	78	403
Zone 1	802	*	*	*	*	*	*	*	344
Itang	683	*	*	*	*	*	*	*	289
Gambela	119	*	*	*	*	*	*	*	55
Zone 2	190	*	*	*	*	*	57	*	58
Gog	*	-	-	*	*	-	*	*	*
Godare	129	*	*	*	*	*	*	*	48
Dima	-	-	-	-	-	-	-	-	-

TABLE 7-4: NUMBER OF GOATS BY AGE AND SEX OF ANIMAL, REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	GOATS								
	ALL Goats	MALE				FEMALE			
		< 6 Months	6 Mo < 1yr	1 - <2 yrs	2 yrs &Over	< 6 Months	6 Mo < 1yr	1 - <2 yrs	2 yrs &Over
Gambela	49,076	6,464	1,385	1,396	1,249	7,923	6,978	7,274	16,406
Zone 1	37,542	5,407	775	891	800	6,095	5,354	5,722	12,498
Jikawo	30,594	4,489	507	563	439	5,077	4,645	4,839	10,035
Itang	5,461	689	213	236	276	781	550	678	2,039
Gambela	1,487	229	55	93	86	238	159	205	424
Zone 2	11,534	1,058	611	505	448	1,828	1,624	1,553	3,909
Abobo	2,686	244	176	103	*	331	546	543	661
Jor	3,309	288	*	106	*	434	396	318	1,571
Gog	4,121	382	195	244	198	683	610	567	1,241
Godare	1,384	143	151	*	*	375	66	123	426
Dima	35	*	*	-	*	*	*	*	10

b) Rural Holdings

Geographic Areas	GOATS								
	ALL Goats	MALE				FEMALE			
		< 6 Months	6 Mo < 1yr	1 - <2 yrs	2 yrs &Over	< 6 Months	6 Mo < 1yr	1 - <2 yrs	2 yrs &Over
Gambela	46,735	6,171	1,290	1,327	1,070	7,573	6,776	7,100	15,428
Zone 1	35,598	5,157	713	833	627	5,830	5,218	5,582	11,638
Jikawo	30,594	4,489	507	563	439	5,077	4,645	4,839	10,035
Itang	4,115	516	176	209	154	607	472	614	1,367
Gambela	889	151	*	*	*	147	101	*	235
Zone 2	11,137	1,014	577	494	443	1,743	1,557	1,518	3,791
Abobo	2,686	244	176	103	*	331	546	543	661
Jor	3,309	288	*	106	*	434	396	318	1,571
Gog	4,086	382	186	244	198	678	602	567	1,228
Godare	1,033	*	128	*	*	299	*	*	324
Dima	23	*	*	-	*	-	*	*	*

c) Urban Holdings

Geographic Areas	GOATS								
	ALL Goats	MALE				FEMALES			
		< 6 Months	6 Mo < 1yr	1 - <2 yrs	2 yrs &Over	< 6 Months	6 Mo < 1yr	1 - <2 yrs	2 yrs &Over
Gambela	2,341	294	95	69	179	350	202	174	978
Zone 1	1,944	250	*	*	174	265	136	140	860
Itang	1,346	173	*	*	*	174	*	*	*
Gambela	598	77	24	31	52	91	*	76	188
Zone 2	397	*	33	*	*	85	66	34	118
Gog	*	-	*	-	-	*	*	-	*
Godare	351	*	23	*	*	76	56	34	102
Dima	12	-	*	-	-	*	*	-	*

TABLE 7-5: NUMBER OF HORSES AND ASSES BY AGE AND SEX OF ANIMAL, REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	HORSES AND ASSES									
	HORSES					ASSES				
	ALL HORSES	MALE		FEMALE		ALL ASSES	MALE		FEMALE	
		< 3 Years	3 Yrs & more	< 3 Years	3 Yrs & more		< 3 Years	3 Yrs & more	< 3 Years	3 Yrs & more
Gambela	338	-	338	-	-	264	*	198	-	59
Zone 1	-	-	-	-	-	117	*	51	-	59
Jikawo	-	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	54	-	-	-	54
Gambela	-	-	-	-	-	64	*	51	-	*
Zone 2	338	-	338	-	-	147	-	147	-	-
Abobo	-	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-
Godare	338	-	338	-	-	146	-	146	-	-
Dima	-	-	-	-	-	*	-	*	-	-

b) Rural Holdings

Geographic Areas	HORSES AND ASSES									
	HORSES					ASSES				
	ALL HORSES	MALE		FEMALE		ALL ASSES	MALE		FEMALE	
		< 3 Years	3 Yrs & more	< 3 Years	3 Yrs & more		< 3 Years	3 Yrs & more	< 3 Years	3 Yrs & more
Gambela	333	-	333	-	-	199	-	146	-	54
Zone 1	-	-	-	-	-	54	-	-	-	54
Jikawo	-	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	54	-	-	-	54
Gambela	-	-	-	-	-	-	-	-	-	-
Zone 2	333	-	333	-	-	146	-	146	-	-
Abobo	-	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-
Godare	333	-	333	-	-	146	-	146	-	-
Dima	-	-	-	-	-	-	-	-	-	-

c) Urban Holdings

Geographic Areas	HORSES AND ASSES									
	HORSES					ASSES				
	ALL HORSES	MALE		FEMALE		ALL ASSES	MALE		FEMALE	
		< 3 Years	3 Yrs & more	< 3 Years	3 Yrs & more		< 3 Years	3 Yrs & more	< 3 Years	3 Yrs & more
Gambela	*	-	*	-	-	65	*	52	-	*
Zone 1	-	-	-	-	-	64	*	51	-	*
Itang	-	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	64	*	51	-	*
Zone 2	*	-	*	-	-	*	-	*	-	-
Gog	-	-	-	-	-	-	-	-	-	-
Godare	*	-	*	-	-	-	-	-	-	-
Dima	-	-	-	-	-	*	-	*	-	-

TABLE 7-6: NUMBER OF MULES AND CAMELS BY AGE AND SEX OF ANIMAL BY REGION, ZONE, AND WEREDA

a) Both rural and Urban Holdings

Geographic Areas	MULES					CAMELS				
		MALE		FEMALE			MALE		FEMALE	
	All Mules	< 3 Years	3 Years and Older	< 3 Years	3 Years and Older	All Camels	< 4 Years	4 Years and Older	< 4 Years	4 Years and Older
Gambela	*	-	*	-	*	*	-	*	-	-
Zone 1	-	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-	-
Zone 2	*	-	*	-	*	*	-	*	-	-
Abobo	-	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-	-	-	-
Dima	*	-	*	-	*	*	-	*	-	-

b) Rural Holdings

Geographic Areas	MULES					CAMELS				
		MALE		FEMALE			MALE		FEMALE	
	All Mules	< 3 Years	3 Years and Older	< 3 Years	3 Years and Older	All Camels	< 4 Years	4Years and Older	< 4 Years	4 Years and Older
Gambela	-	-	-	-	-	-	-	-	-	-
Zone 1	-	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-	-
Zone 2	-	-	-	-	-	-	-	-	-	-
Abobo	-	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-	-	-	-
Dima	-	-	-	-	-	-	-	-	-	-

c) Urban Holdings

Geographic Areas	MULES					CAMELS				
		MALE		FEMALE			MALE		FEMALE	
	All Mules	< 3 Years	3 Years and Older	< 3 Years	3 Years and Older	All Camels	< 4 Years	4 Years and Older	< 4 Years	4 Years and Older
Gambela	*	-	*	-	*	*	-	*	-	-
Zone 1	-	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-	-
Zone 2	*	-	*	-	*	*	-	*	-	-
Gog	-	-	-	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-	-	-	-
Dima	*	-	*	-	*	*	-	*	-	-

TABLE 7-7: CATTLE AGED 3 – 10 YEARS BY SEX AND PURPOSE, REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	CATTLE AGED 3 – 10 YEARS									
		MALE				FEMALE				
	Total	Draught	Beef	Breeding	Other	Milk	Draught	Beef	Breeding	Other
Gambela	61,074	1,198	5,070	2,470	199	40,905	*	809	9,306	1,095
Zone 1	51,703	236	4,987	2,172	169	34,137	*	756	8,201	1,028
Jikawo	38,835	-	4,400	854	146	26,245	-	578	6,024	588
Itang	9,018	-	456	1,024	*	5,692	*	145	1,261	413
Gambela	3,850	236	131	294	*	2,200	*	*	916	*
Zone 2	9,371	962	*	297	*	6,768	*	*	1,105	*
Abobo	1,056	627	*	*	*	239	-	-	142	-
Jor	1,525	-	-	156	-	774	-	*	583	-
Gog	1,008	*	*	63	*	691	-	*	*	*
Godare	5,702	297	*	*	*	5,016	*	*	225	*
Dima	79	*	*	*	-	47	-	-	15	-

b) Rural Holdings

Geographic Areas	CATTLE AGED 3 – 10 YEARS									
		MALE				FEMALE				
	Total	Draught	Beef	Breeding	Other	Milk	Draught	Beef	Breeding	Other
Gambela	55,731	982	4,885	1,852	187	37,401	*	801	8,946	662
Zone 1	46,979	*	4,813	1,584	163	31,131	*	756	7,898	595
Jikawo	38,835	-	4,400	854	146	26,245	-	578	6,024	588
Itang	6,347	-	335	552	*	4,032	*	145	1,248	*
Gambela	1,797	*	*	177	-	854	-	*	627	-
Zone 2	8,752	954	*	268	*	6,270	*	*	1,047	*
Abobo	1,056	627	*	*	*	239	-	-	142	-
Jor	1,525	-	-	156	-	774	-	*	583	-
Gog	814	*	*	45	*	535	-	*	*	*
Godare	5,347	292	*	*	-	4,719	*	*	195	*
Dima	*	*	-	-	-	*	-	-	*	-

c) Urban Holdings

Geographic Areas	CATTLE AGED 3 – 10 YEARS									
		MALE				FEMALE				
	Total	Draught	Beef	Breeding	Other	Milk	Draught	Beef	Breeding	Other
Gambela	5,343	216	*	618	*	3,504	*	*	361	433
Zone 1	4,724	208	*	589	*	3,006	*	-	302	433
Itang	2,672	-	*	471	-	1,660	-	-	*	405
Gambela	2,053	208	53	117	*	1,346	*	-	289	*
Zone 2	618	*	*	29	*	499	-	*	58	-
Gog	*	-	-	*	-	156	-	*	*	-
Godare	356	*	*	*	*	298	-	*	31	-
Dima	68	*	*	*	-	45	-	-	*	-

TABLE 7-8: SHEEP AGED 2 AND OLDER BY SEX AND PURPOSE, REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	SHEEP AGED 2 AND OLDER								
		MALE				FEMALE			
	Total	Mutton/Meat	Wool	Breeding	Other	Mutton/Meat	Wool	Breeding	Other
Gambela	18,114	275	-	927	*	148	*	16,537	168
Zone 1	14,901	253	-	620	*	136	*	13,690	158
Jikawo	12,899	131	-	247	*	97	-	12,307	*
Itang	1,882	110	-	359	*	*	*	1,293	65
Gambela	120	*	-	*	-	-	*	90	-
Zone 2	3,213	*	-	307	*	*	*	2,846	*
Abobo	180	*	-	87	-	-	-	87	-
Jor	793	-	-	108	-	-	*	671	*
Gog	485	-	-	83	-	*	-	395	-
Godare	1,755	*	-	*	*	*	-	1,693	-
Dima	-	-	-	-	-	-	-	-	-

b) Rural Holdings

Geographic Areas	SHEEP AGED 2 AND OLDER								
		MALE				FEMALE			
	Total	Mutton/Meat	Wool	Breeding	Other	Mutton/Meat	Wool	Breeding	Other
Gambela	17,552	241	-	801	*	121	*	16,166	168
Zone 1	14,415	227	-	504	*	109	*	13,377	158
Jikawo	12,899	131	-	247	*	97	-	12,307	*
Itang	1,465	96	-	246	*	*	*	1,031	65
Gambela	*	-	-	*	-	-	-	*	-
Zone 2	3,137	*	-	297	*	*	*	2,788	*
Abobo	180	*	-	87	-	-	-	87	-
Jor	793	-	-	108	-	-	*	671	*
Gog	465	-	-	73	-	*	-	385	-
Godare	1,699	*	-	*	*	*	-	1,645	-
Dima	-	-	-	-	-	-	-	-	-

c) Urban Holdings

Geographic Areas	SHEEP AGED 2 AND OLDER								
		MALE				FEMALE			
	Total	Mutton/Meat	Wool	Breeding	Other	Mutton/Meat	Wool	Breeding	Other
Gambela	562	*	-	*	-	*	*	371	-
Zone 1	486	*	-	*	-	*	*	313	-
Itang	417	*	-	*	-	*	-	262	-
Gambela	69	*	-	*	-	-	*	51	-
Zone 2	76	*	-	*	-	-	-	58	-
Gog	*	-	-	*	-	-	-	*	-
Godare	56	*	-	-	-	-	-	48	-
Dima	-	-	-	-	-	-	-	-	-

TABLE 7-9: GOATS AGED 2 AND OLDER BY SEX AND PURPOSE, REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	GOATS AGED 2 AND OLDER							
	Total	MALES			FEMALES			
		Meat	Breeding	Other	Meat	Milk	Breeding	Other
Gambela	17,655	352	855	*	115	5,783	10,447	61
Zone 1	13,298	312	485	*	*	5,418	6,963	*
Jikawo	10,474	206	233	-	*	4,568	5,365	*
Itang	2,315	75	197	*	*	724	1,300	*
Gambela	509	*	54	-	-	126	298	-
Zone 2	4,357	*	371	*	*	365	3,485	*
Abobo	743	-	*	*	-	*	615	-
Jor	1,689	-	*	-	-	*	1,361	*
Gog	1,439	*	192	-	*	129	1,093	-
Godare	474	*	-	*	*	-	407	-
Dima	11	-	*	-	-	-	10	-

b) Rural Holdings

Geographic Areas	GOATS AGED 2 AND OLDER							
	Total	MALES			FEMALES			
		Meat	Breeding	Other	Meat	Milk	Breeding	Other
Gambela	16,498	309	719	*	110	5,505	9,753	61
Zone 1	12,264	275	348	*	*	5,140	6,380	*
Jikawo	10,474	206	233	-	*	4,568	5,365	*
Itang	1,521	58	92	*	*	509	843	*
Gambela	269	*	*	-	-	*	172	-
Zone 2	4,233	*	371	*	*	365	3,372	*
Abobo	743	-	*	*	-	*	615	-
Jor	1,689	-	*	-	-	*	1,361	*
Gog	1,426	*	192	-	*	129	1,080	-
Godare	367	*	-	*	*	-	310	-
Dima	*	-	*	-	-	-	*	-

c) Urban Holdings

Geographic Areas	GOATS AGED 2 AND OLDER							
	Total	MALES			FEMALES			
		Meat	Breeding	Other	Meat	Milk	Breeding	Other
Gambela	1,157	*	136	-	*	278	695	-
Zone 1	1,034	*	136	-	-	278	*	-
Itang	794	*	*	-	-	216	*	-
Gambela	240	*	*	-	-	*	126	-
Zone 2	124	*	-	-	*	-	112	-
Gog	*	-	-	-	-	-	*	-
Godare	108	*	-	-	*	-	96	-
Dima	*	-	-	-	-	-	*	-

TABLE 7-10: HORSES BY SEX AND PURPOSE, REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	HORSES AGED 3 AND OLDER						
	Total	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Gambela	338	338	-	-	-	-	-
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	338	338	-	-	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	338	338	-	-	-	-	-
Dima	-	-	-	-	-	-	-

b) Rural Holdings

Geographic Areas	HORSES AGED 3 AND OLDER						
	TOTAL	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Gambela	333	333	-	-	-	-	-
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	333	333	-	-	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	333	333	-	-	-	-	-
Dima	-	-	-	-	-	-	-

c) Urban Holdings

Geographic Areas	HORSES AGED 3 AND OLDER						
	TOTAL	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Gambela	*	*	-	-	-	-	-
Zone 1	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	*	*	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	*	*	-	-	-	-	-
Dima	-	-	-	-	-	-	-

TABLE 7-11: ASSES AGED 3 YEARS AND OVER BY SEX AND PURPOSE, REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	ASSES AGED 3 YEARS AND OLDER						
	TOTAL	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Gambela	256	198	-	-	54	*	-
Zone 1	109	51	-	-	54	*	-
Jikawo	-	-	-	-	-	-	-
Itang	54	-	-	-	54	-	-
Gambela	56	51	-	-	-	*	-
Zone 2	147	147	-	-	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	146	146	-	-	-	-	-
Dima	*	*	-	-	-	-	-

b) Rural Holdings

Geographic Areas	ASSES AGED 3 YEARS AND OLDER						
	TOTAL	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Gambela	199	146	-	-	54	-	-
Zone 1	54	-	-	-	54	-	-
Jikawo	-	-	-	-	-	-	-
Itang	54	-	-	-	54	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	146	146	-	-	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	146	146	-	-	-	-	-
Dima	-	-	-	-	-	-	-

c) Urban Holdings

Geographic Areas	ASSES AGED 3 YEARS AND OLDER						
	TOTAL	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Gambela	57	52	-	-	-	*	-
Zone 1	56	51	-	-	-	*	-
Itang	-	-	-	-	-	-	-
Gambela	56	51	-	-	-	*	-
Zone 2	*	*	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-
Dima	*	*	-	-	-	-	-

TABLE 7-12: MULES AGED 3 YEARS AND ABOVE BY SEX AND PURPOSE, REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	MULES AGED 3 YEARS AND OLDER						
	TOTAL	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Gambela	*	*	-	-	*	-	-
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	*	*	-	-	*	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-
Dima	*	*	-	-	*	-	-

b) Rural Holdings

Geographic Areas	MULES AGED 3 YEARS AND OLDER						
	TOTAL	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Gambela	-	-	-	-	-	-	-
Zone 1	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	-	-	-	-	-	-	-
Abobo	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-
Dima	-	-	-	-	-	-	-

c) Urban Holdings

Geographic Areas	MULES AGED 3 YEARS AND OLDER						
	TOTAL	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Gambela	*	*	-	-	*	-	-
Zone 1	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-
Zone 2	*	*	-	-	*	-	-
Gog	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-
Dima	*	*	-	-	*	-	-

TABLE 7-13: CAMELS BY SEX AND PURPOSE, REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	CAMELS AGED 4 YEARS AND OLDER									
	TOTAL	MALES				FEMALES				
		Meat	Draught	Transportation	Other	Meat	Draught	Milk	Transportation	Other
Gambela	*	-	-	*	-	-	-	-	-	-
Zone 1	-	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-	-
Zone 2	*	-	-	*	-	-	-	-	-	-
Abobo	-	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-	-	-	-
Dima	*	-	-	*	-	-	-	-	-	-

b) Rural Holdings

Geographic Areas	CAMELS AGED 4 YEARS AND OLDER									
	TOTAL	MALES				FEMALES				
		Meat	Draught	Transportation	Other	Meat	Draught	Milk	Transportation	Other
Gambela	-	-	-	-	-	-	-	-	-	-
Zone 1	-	-	-	-	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-	-
Zone 2	-	-	-	-	-	-	-	-	-	-
Abobo	-	-	-	-	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-	-	-	-
Dima	-	-	-	-	-	-	-	-	-	-

c) Urban Holdings

Geographic Areas	CAMELS AGED 4 YEARS AND OLDER									
	TOTAL	MALES				FEMALES				
		Meat	Draught	Transportation	Other	Meat	Draught	Milk	Transportation	Other
Gambela	*	-	-	*	-	-	-	-	-	-
Zone 1	-	-	-	-	-	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-	-
Gambela	-	-	-	-	-	-	-	-	-	-
Zone 2	*	-	-	*	-	-	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-
Godare	-	-	-	-	-	-	-	-	-	-
Dima	*	-	-	*	-	-	-	-	-	-

TABLE 7-14: POULTRY INVENTORY BY REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Total Poultry	Cocks	Cockerels	Pullets	Non-Laying Hens	Chicks	Laying Hens	Avg. Number of Clutches	Avg. Egg Production/ Hen/Clutch
Gambela	237,930	32,230	24,970	32,763	17,058	74,123	56,787	16	12
Zone 1	120,154	19,880	13,472	16,508	10,118	28,389	31,787	17	13
Jikawo	55,188	10,416	6,122	6,733	4,744	10,547	16,628	20	13
Itang	39,398	6,089	4,202	5,259	3,229	10,910	9,709	14	12
Gambela	25,568	3,376	3,149	4,517	2,145	6,932	5,450	15	12
Zone 2	117,776	12,349	11,498	16,254	6,940	45,735	24,999	15	12
Abobo	29,218	3,110	3,152	4,428	1,061	11,487	5,979	17	13
Jor	8,533	1,059	1,083	1,434	520	2,589	1,848	12	10
Gog	31,140	3,479	3,419	4,596	2,406	10,966	6,275	13	12
Godare	45,728	4,185	3,512	5,370	2,610	19,941	10,108	16	12
Dima	3,157	516	332	426	342	752	790	14	11

b) Rural Holdings

Geographic Areas	Total Poultry	Cocks	Cockerels	Pullets	Non-Laying Hens	Chicks	Laying Hens	Avg. Number of Clutches	Avg. Egg Production/Hen/Clutch
Gambela	220,430	29,381	23,324	30,193	16,258	68,998	52,276	16	12
Zone 1	106,622	17,546	12,071	14,417	9,462	24,761	28,365	18	13
Jikawo	55,188	10,416	6,122	6,733	4,744	10,547	16,628	20	13
Itang	33,979	4,994	3,657	4,561	2,998	9,526	8,243	14	13
Gambela	17,454	2,137	2,292	3,123	1,720	4,689	3,494	15	12
Zone 2	113,808	11,835	11,254	15,775	6,796	44,236	23,912	15	12
Abobo	29,218	3,110	3,152	4,428	1,061	11,487	5,979	17	13
Jor	8,533	1,059	1,083	1,434	520	2,589	1,848	12	10
Gog	29,445	3,199	3,304	4,415	2,330	10,392	5,805	13	12
Godare	43,802	4,009	3,413	5,112	2,544	19,113	9,611	16	12
Dima	2,810	458	302	386	340	656	669	14	11

c) Urban Holdings

Geographic Areas	Total Poultry	Cocks	Cockerels	Pullets	Non-Laying Hens	Chicks	Laying Hens	Avg. Number of Clutches	Avg. Egg Production/Hen/ Clutch
Gambela	17,501	2,849	1,646	2,570	800	5,126	4,510	14	11
Zone 1	13,533	2,334	1,401	2,091	656	3,627	3,423	14	11
Itang	5,419	1,095	545	698	232	1,384	1,466	13	12
Gambela	8,114	1,239	857	1,394	425	2,243	1,957	14	11
Zone 2	3,968	515	245	479	144	1,499	1,088	16	11
Gog	1,695	280	115	180	76	574	470	14	9
Godare	1,926	176	100	259	66	829	497	17	12
Dima	347	58	30	40	*	96	121	16	11

TABLE 7-15: BEEHIVE INVENTORY AND PRODUCTION OF HONEY BY REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	All Beehives		Traditional Beehives			Intermediate Beehives			Modern Beehives		
	Number of hives	Total annual honey production	Number of hives	Avg. frequency of production	Total annual honey production	Number of hives	Avg. frequency of production	Total annual honey production	Number of hives	Avg. frequency of production	Total annual honey production
Gambela	59,222	1,388,326	58,625	3	1,388,326	*	-	-	-	-	-
Zone 1	*	*	*	3	*	*	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-	-	-
Itang	*	*	*	2	*	-	-	-	-	-	-
Gambela	*	*	*	3	*	*	-	-	-	-	-
Zone 2	54,558	1,310,763	53,996	3	1,310,763	*	-	-	-	-	-
Abobo	1,614	30,984	1,614	2	30,984	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-	-	-
Gog	1,315	31,315	1,315	2	31,315	-	-	-	-	-	-
Godare	50,463	1,224,475	49,931	3	1,224,475	*	-	-	-	-	-
Dima	1,166	23,990	1,136	3	23,990	*	-	-	-	-	-

b) Rural Holdings

Geographic Areas	All Beehives		Traditional Beehives			Intermediate Beehives			Modern Beehives		
	Number of hives	Total annual honey production	Number of hives	Avg. frequency of production	Total annual honey production	Number of hives	Avg. frequency of production	Total annual honey production	Number o hives	Avg. frequency of production	Total annual honey production
Gambela	58,625	1,388,326	58,625	3	1,388,326	-	-	-	-	-	-
Zone 1	*	*	*	3	*	-	-	-	-	-	-
Jikawo	-	-	-	-	-	-	-	-	-	-	-
Itang	*	*	*	2	*	-	-	-	-	-	-
Gambela	*	*	*	3	*	-	-	-	-	-	-
Zone 2	53,996	1,310,763	53,996	3	1,310,763	-	-	-	-	-	-
Abobo	1,614	30,984	1,614	2	30,984	-	-	-	-	-	-
Jor	-	-	-	-	-	-	-	-	-	-	-
Gog	1,315	31,315	1,315	2	31,315	-	-	-	-	-	-
Godare	49,931	1,224,475	49,931	3	1,224,475	-	-	-	-	-	-
Dima	1,136	23,990	1,136	3	23,990	-	-	-	-	-	-

c) Urban Holdings

Geographic Areas	All Beehives		Traditional Beehives			Intermediate Beehives			Modern Beehives		
	Number of hives	Total annual honey production	Number of hives	Avg. frequency of production	Total annual honey production	Number of hives	Avg. frequency of production	Total annual honey production	Number of hives	Avg. frequency of production	Total annual honey production
Gambela	*	-	-	-	-	*	3	-	-	-	-
Zone 1	*	-	-	-	-	*	-	-	-	-	-
Itang	-	-	-	-	-	-	-	-	-	-	-
Gambela	*	-	-	-	-	*	-	-	-	-	-
Zone 2	*	-	-	-	-	*	3	-	-	-	-
Gog	-	-	-	-	-	-	-	-	-	-	-
Godare	*	-	-	-	-	*	3	-	-	-	-
Dima	*	-	-	-	-	*	-	-	-	-	-

TABLE 7-16: NUMBER OF DAIRY ANIMALS, MILK PRODUCTION AND LACTATION PERIOD BY REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Number Of Dairy Cows	Number Of Milking Cows	Average Daily Milk Prod.	Average Lactation Period (Mn)	Total Milk Production(Lt)	Number Of Dairy Camels	Number Of Milking Camels	Average Daily Milk Prod.	Average Lactation Period(Mn)	Total Milk Production (Lt)
Gambela	40,903	33,908	1.94	7	13,132,188	-	*	-	-	-
Zone 1	34,137	27,047	1.989	7	10,378,105	-	-	-	-	-
Jikawo	26,245	19,206	1.795	7	6,453,010	-	-	-	-	-
Itang	5,692	5,559	2.297	8	2,695,960	-	-	-	-	-
Gambela	2,200	2,282	2.659	7	1,229,135	-	-	-	-	-
Zone 2	6,766	6,861	1.86	7	2,754,083	-	*	-	-	-
Abobo	239	390	1.468	7	137,739	-	-	-	-	-
Jor	774	932	2.513	7	461,971	-	-	-	-	-
Gog	691	584	3.201	7	373,691	-	*	-	-	-
Godare	5,016	4,913	1.779	7	1,766,432	-	-	-	-	-
Dima	45	41	1.643	7	14,250	-	-	-	-	-

b) Rural Holdings

Geographic Areas	Number Of Dairy Cows	Number Of Milking Cows	Average Daily Milk Prod.	Average Lactation Period(Mn)	Total Milk Production(Lt)	Number Of Dairy Camels	Number Of Milking Camels	Average Daily Milk Prod.	Average Lactation Period(Mn)	Total Milk Production (Lt)
Gambela	37,398	30,470	1.908	7	11,573,077	-	*	-	-	-
Zone 1	31,131	24,168	1.951	7	9,066,499	-	-	-	-	-
Jikawo	26,245	19,206	1.795	7	6,453,010	-	-	-	-	-
Itang	4,032	3,998	2.238	8	1,971,809	-	-	-	-	-
Gambela	854	964	3.124	8	641,679	-	-	-	-	-
Zone 2	6,267	6,302	1.84	7	2,506,579	-	*	-	-	-
Abobo	239	390	1.468	7	137,739	-	-	-	-	-
Jor	774	932	2.513	7	461,971	-	-	-	-	-
Gog	535	446	3.164	7	263,636	-	*	-	-	-
Godare	4,719	4,533	1.759	7	1,643,233	-	-	-	-	-

c) Urban Holdings

Geographic Areas	Number Of Dairy Cows	Number Of Milking Cows	Average Daily Milk Prod.	Average Lactation Period(Mn)	Total Milk Production(Lt)	Number Of Dairy Camels	Number Of Milking Camels	Average Daily Milk Prod.	Average Lactation Period(Mn)	Total Milk Production (Lt)
Gambela	3,504	3,438	2.293	7	1,559,111	-	-	-	-	-
Zone 1	3,006	2,878	2.329	7	1,311,607	-	-	-	-	-
Itang	1,660	1,560	2.476	6	724,151	-	-	-	-	-
Gambela	1,346	1,318	2.144	7	587,456	-	-	-	-	-
Zone 2	499	560	2.184	7	247,504	-	-	-	-	-
Gog	156	*	3.299	7	*	-	-	-	-	-
Godare	298	380	2.093	7	123,199	-	-	-	-	-
Dima	45	41	1.643	7	14,250	-	-	-	-	-

TABLE 7-17: NUMBER OF CATTLE BY SEX AND BREED, REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Gambela	126,198	36,741	-	-	89,456	-	*
Zone 1	106,222	30,415	-	-	75,807	-	-
Jikawo	79,024	22,607	-	-	56,416	-	-
Itang	19,887	5,543	-	-	14,344	-	-
Gambela	7,311	2,265	-	-	5,047	-	-
Zone 2	19,977	6,326	-	-	13,649	-	*
Abobo	1,845	1,179	-	-	666	-	-
Jor	3,072	780	-	-	2,292	-	-
Gog	2,077	683	-	-	1,394	-	-
Godare	12,840	3,637	-	-	9,204	-	-
Dima	141	47	-	-	92	-	*

b)Rural Holdings

Geographic Areas	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Gambela	116,074	33,626	-	-	82,446	-	*
Zone 1	97,590	27,714	-	-	69,877	-	-
Jikawo	79,024	22,607	-	-	56,416	-	-
Itang	15,055	4,068	-	-	10,986	-	-
Gambela	3,512	1,038	-	-	2,474	-	-
Zone 2	18,484	5,912	-	-	12,570	-	*
Abobo	1,845	1,179	-	-	666	-	-
Jor	3,072	780	-	-	2,292	-	-
Gog	1,632	542	-	-	1,090	-	-
Godare	11,915	3,403	-	-	8,513	-	-
Dima	*	*	-	-	*	-	*

c) Urban Holdings

Geographic Areas	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Gambela	10,124	3,115	-	-	7,009	-	-
Zone 1	8,632	2,701	-	-	5,930	-	-
Itang	4,832	1,474	-	-	3,358	-	-
Gambela	3,799	1,227	-	-	2,573	-	-
Zone 2	1,493	414	-	-	1,079	-	-
Gog	*	*	-	-	*	-	-
Godare	925	234	-	-	691	-	-
Dima	122	39	-	-	83	-	-

TABLE 7-18: NUMBER OF SHEEP BY SEX AND BREED, REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Gambela	43,746	9,078	-	*	34,650	-	-
Zone 1	35,404	6,626	-	-	28,778	-	-
Jikawo	30,740	5,219	-	-	25,521	-	-
Itang	4,362	1,301	-	-	3,061	-	-
Gambela	302	106	-	-	196	-	-
Zone 2	8,342	2,451	-	*	5,872	-	-
Abobo	197	93	-	*	87	-	-
Jor	1,842	473	-	-	1,369	-	-
Gog	1,063	254	-	-	810	-	-
Godare	5,239	1,632	-	-	3,607	-	-
Dima	-	-	-	-	-	-	-

b) Rural Holdings

Geographic Areas	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Gambela	42,753	8,749	-	*	33,986	-	-
Zone 1	34,602	6,350	-	-	28,251	-	-
Jikawo	30,740	5,219	-	-	25,521	-	-
Itang	3,679	1,064	-	-	2,615	-	-
Gambela	*	*	-	-	*	-	-
Zone 2	8,151	2,399	-	*	5,735	-	-
Abobo	197	93	-	*	87	-	-
Jor	1,842	473	-	-	1,369	-	-
Gog	1,003	239	-	-	764	-	-
Godare	5,110	1,595	-	-	3,515	-	-
Dima	-	-	-	-	-	-	-

c) Urban Holdings

Geographic Areas	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Gambela	993	328	-	-	664	-	-
Zone 1	802	276	-	-	526	-	-
Itang	683	237	-	-	446	-	-
Gambela	119	39	-	-	80	-	-
Zone 2	190	52	-	-	138	-	-
Gog	*	*	-	-	*	-	-
Godare	129	37	-	-	92	-	-
Dima	-	-	-	-	-	-	-

TABLE 7-19: NUMBER OF GOATS BY SEX AND BREED, REGION, ZONW, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Gambela	49,076	10,494	-	-	38,582	-	-
Zone 1	37,542	7,873	-	-	29,669	-	-
Jikawo	30,594	5,998	-	-	24,596	-	-
Itang	5,461	1,414	-	-	4,047	-	-
Gambela	1,487	462	-	-	1,026	-	-
Zone 2	11,534	2,621	-	-	8,913	-	-
Abobo	2,686	605	-	-	2,081	-	-
Jor	3,309	590	-	-	2,719	-	-
Gog	4,121	1,019	-	-	3,102	-	-
Godare	1,384	394	-	-	990	-	-
Dima	35	*	-	-	22	-	-

b) Rural Holdings

Geographic Areas	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Gambela	46,735	9,858	-	-	36,877	-	-
Zone 1	35,598	7,330	-	-	28,268	-	-
Jikawo	30,594	5,998	-	-	24,596	-	-
Itang	4,115	1,055	-	-	3,060	-	-
Gambela	889	277	-	-	613	-	-
Zone 2	11,137	2,528	-	-	8,609	-	-
Abobo	2,686	605	-	-	2,081	-	-
Jor	3,309	590	-	-	2,719	-	-
Gog	4,086	1,010	-	-	3,076	-	-
Godare	1,033	311	-	-	722	-	-
Dima	23	*	-	-	12	-	-

c) Urban Holdings

Geographic Areas	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Gambela	2,341	637	-	-	1,705	-	-
Zone 1	1,944	543	-	-	1,401	-	-
Itang	1,346	359	-	-	987	-	-
Gambela	598	185	-	-	413	-	-
Zone 2	397	93	-	-	304	-	-
Gog	*	*	-	-	*	-	-
Godare	351	83	-	-	268	-	-
Dima	12	*	-	-	10	-	-

TABLE 7-20: ESTIMATED NUMBER OF LIVESTOCK VACCINATED BY REGION, ZONE, AND WEREDA

a) Both Urban Rural Holdings

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Gambela	17,518	374	698	20	-	*
Zone 1	9,327	*	395	20	-	*
Jikawo	*	-	-	-	-	*
Itang	5,166	*	70	-	-	*
Gambela	3,835	*	325	20	-	*
Zone 2	8,191	*	303	-	-	*
Abobo	1,209	*	*	-	-	-
Jor	*	-	-	-	-	*
Gog	1,711	*	*	-	-	-
Godare	4,357	*	*	-	-	*
Dima	*	-	-	-	-	-

b) Rural Holdings

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Gambela	12,120	*	397	-	-	*
Zone 1	4,855	*	*	-	-	*
Jikawo	*	-	-	-	-	*
Itang	3,436	*	*	-	-	*
Gambela	1,093	-	*	-	-	-
Zone 2	7,265	*	*	-	-	*
Abobo	1,209	*	*	-	-	-
Jor	*	-	-	-	-	*
Gog	1,364	*	*	-	-	-
Godare	3,792	*	-	-	-	*
Dima	-	-	-	-	-	-

c) Urban Holdings

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Gambela	5,398	*	301	20	-	*
Zone 1	4,472	*	265	20	-	*
Itang	1,730	*	*	-	-	*
Gambela	2,742	*	255	20	-	*
Zone 2	926	*	*	-	-	*
Gog	*	*	*	-	-	-
Godare	566	-	*	-	-	*
Dima	*	-	-	-	-	-

TABLE 7-21: ESTIMATED NUMBER OF LIVESTOCK AFFLICTED/DISEASED BY REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Gambela	20,660	7,369	7,147	101	*	79,240
Zone 1	16,571	6,325	5,001	36	*	23,061
Jikawo	12,707	5,935	3,449	*	-	7,416
Itang	2,277	314	1,261	*	*	8,582
Gambela	1,586	*	291	*	-	7,062
Zone 2	4,090	1,044	2,146	*	-	56,179
Abobo	1,418	*	*	-	-	11,624
Jor	590	258	366	-	-	1,668
Gog	794	463	1,018	*	-	2,649
Godare	1,236	317	*	*	-	39,737
Dima	51	-	*	*	-	502

b) Rural Holdings

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Gambela	18,365	7,245	6,876	*	*	74,470
Zone 1	14,756	6,215	4,754	*	*	20,006
Jikawo	12,707	5,935	3,449	*	-	7,416
Itang	1,731	247	1,099	*	*	8,299
Gambela	317	*	*	-	-	4,291
Zone 2	3,609	1,030	2,122	*	-	54,464
Abobo	1,418	*	*	-	-	11,624
Jor	590	258	366	-	-	1,668
Gog	521	463	1,018	*	-	2,639
Godare	1,080	303	*	*	-	38,143
Dima	-	-	-	-	-	390

c) Urban Holdings

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Gambela	2,296	*	*	32	-	4,770
Zone 1	1,815	*	*	*	-	3,055
Itang	546	*	*	-	-	284
Gambela	1,269	*	*	*	-	2,771
Zone 2	481	*	*	*	-	1,715
Gog	*	-	-	-	-	*
Godare	157	*	*	*	-	1,594
Dima	51	-	*	*	-	112

TABLE 7-22: ESTIMATED NUMBER OF LIVESTOCK TREATED BY REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Gambela	4,223	*	286	15	-	891
Zone 1	2,119	*	57	*	-	330
Jikawo	*	-	-	-	-	-
Itang	445	*	*	-	-	*
Gambela	1,277	*	*	*	-	*
Zone 2	2,104	*	*	*	-	561
Abobo	1,112	-	*	-	-	*
Jor	*	-	-	-	-	*
Gog	437	*	*	-	-	-
Godare	513	*	*	-	-	*
Dima	32	-	-	*	-	*

b) Rural Holdings

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Gambela	2,477	*	*	-	-	642
Zone 1	783	*	*	-	-	*
Jikawo	*	-	-	-	-	-
Itang	210	*	*	-	-	*
Gambela	*	*	-	-	-	-
Zone 2	1,694	*	*	-	-	496
Abobo	1,112	-	*	-	-	*
Jor	*	-	-	-	-	*
Gog	*	*	*	-	-	-
Godare	409	*	-	-	-	*
Dima	-	-	-	-	-	*

c) Urban Holdings

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Gambela	1,746	*	*	15	-	249
Zone 1	1,336	*	*	*	-	*
Itang	235	-	-	-	-	-
Gambela	1,101	*	*	*	-	*
Zone 2	410	*	*	*	-	*
Gog	*	-	-	-	-	-
Godare	105	*	*	-	-	*
Dima	32	-	-	*	-	-

TABLE 7-23: ESTIMATED NUMBER OF LIVESTOCK DIED BY REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Gambela	8,873	2,498	5,272	*	*	71,476
Zone 1	7,479	1,823	3,802	-	*	19,985
Jikawo	6,154	1,558	2,491	-	-	6,568
Itang	871	234	1,149	-	*	7,215
Gambela	454	*	*	-	-	6,203
Zone 2	1,394	675	1,470	*	-	51,490
Abobo	440	-	*	-	-	10,403
Jor	*	*	303	-	-	*
Gog	163	247	523	*	-	2,382
Godare	469	230	*	*	-	36,721
Dima	*	-	*	*	-	454

b) Rural Holdings

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Gambela	8,117	2,402	5,051	*	*	67,127
Zone 1	6,851	1,736	3,588	-	*	17,260
Jikawo	6,154	1,558	2,491	-	-	6,568
Itang	586	167	987	-	*	6,931
Gambela	*	*	*	-	-	3,761
Zone 2	1,266	666	1,463	*	-	49,867
Abobo	440	-	*	-	-	10,403
Jor	*	*	303	-	-	*
Gog	149	247	523	*	-	2,377
Godare	376	221	*	*	-	35,198
Dima	-	-	-	-	-	358

c) Urban Holders

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Gambela	756	*	*	*	-	4,349
Zone 1	628	*	*	-	-	2,726
Itang	285	*	*	-	-	284
Gambela	343	*	*	-	-	2,442
Zone 2	128	*	*	*	-	1,623
Gog	*	-	-	-	-	*
Godare	93	*	*	-	-	1,523
Dima	*	-	*	*	-	96

TABLE 7-24: ANIMAL FEED PRACTICES OF PEASNT HOLDERS – PERCENTAGE USED BY TYPE OF FEED, REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Total (%)	Green Fodder	Crop Residue	Improved Feed	Hay	By-Product	Others
Gambela	100	68.86	4.09	0.02	0.09	4.1	22.84
Zone 1	100	74.36	0.6	0.01	-	4.11	20.93
Jikawo	100	82.12	0.11	-	-	-	17.77
Itang	100	68.81	1.19	-	-	12.73	17.27
Gambela	100	52.67	1.56	0.04	-	6.2	39.54
Zone 2	100	63.35	7.59	0.03	0.19	4.09	24.74
Abobo	100	72.93	5.79	0.06	0.13	5.68	15.42
Jor	100	89.89	-	-	-	0.13	9.99
Gog	100	37.07	25.07	-	0.14	8.77	28.96
Godare	100	66.11	3.81	0.04	0.24	2.82	26.98
Dima	100	28.42	26.27	-	0.08	10.73	34.49

b) Rural Holdings

Geographic Areas	Total (%)	Green Fodder	Crop Residue	Improved Feed	Hay	By-Product	Others
Gambela	100	71.65	4.47	0.02	0.08	3.95	19.82
Zone 1	100	79.02	0.67	-	-	4.22	16.09
Jikawo	100	82.12	0.11	-	-	-	17.77
Itang	100	73.38	1.51	-	-	16.18	8.93
Gambela	100	68.23	3.16	-	-	6.94	21.67
Zone 2	100	64.82	7.99	0.04	0.16	3.71	23.28
Abobo	100	72.93	5.79	0.06	0.13	5.68	15.42
Jor	100	89.89	-	-	-	0.13	9.99
Gog	100	40.16	28.85	-	0.16	9.43	21.41
Godare	100	66.78	3.86	0.05	0.19	2.16	26.97
Dima	100	21.16	38.07	-	-	12.72	28.05

c) Urban Holdings

Geographic Areas	Total (%)	Green Fodder	Crop Residue	Improved Feed	Hay	By-Product	Others
Gambela	100	43.89	0.72	0.03	0.2	5.37	49.8
Zone 1	100	44.44	0.1	0.04	-	3.42	52
Itang	100	52.28	-	-	-	0.21	47.51
Gambela	100	39.21	0.17	0.07	-	5.55	55
Zone 2	100	42.76	1.97	-	0.6	9.35	45.32
Gog	100	16.63	-	-	-	4.38	78.99
Godare	100	56.54	3.06	-	0.95	12.24	27.21
Dima	100	43.72	1.41	-	0.26	6.54	48.08

TABLE 7-25: ANIMAL FEED PRACTICES OF PEASNT HOLDERS – NUMBER OF HOLDERS REPORTING BY TYPE OF FEED, REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Green Fodder	Crop Residue	Improved Feed	Hay	By-Product	Others
Gambela	13,026	2,732	*	106	2,638	9,173
Zone 1	5,167	370	*	*	641	3,688
Jikawo	2,294	*	-	-	-	2,175
Itang	1,893	192	-	-	377	580
Gambela	980	96	*	*	264	933
Zone 2	7,859	2,362	*	103	1,997	5,485
Abobo	1,141	336	*	*	312	506
Jor	656	-	-	-	*	209
Gog	759	751	-	*	461	926
Godare	5,248	1,239	*	78	1,186	3,785
Dima	55	36	-	*	35	59

b) Rural Holdings

Geographic Areas	Green Fodder	Crop Residue	Improved Feed	Hay	By-Product	Others
Gambela	11,709	2,652	*	86	2,172	7,573
Zone 1	4,300	360	-	*	468	2,594
Jikawo	2,294	*	-	-	-	2,175
Itang	1,485	192	-	-	369	196
Gambela	522	86	-	*	98	224
Zone 2	7,409	2,292	*	83	1,704	4,978
Abobo	1,141	336	*	*	312	506
Jor	656	-	-	-	*	209
Gog	714	751	-	*	419	738
Godare	4,879	1,172	*	*	948	3,497
Dima	20	33	-	-	22	29

c) Urban Holdings

Geographic Areas	Green Fodder	Crop Residue	Improved Feed	Hay	By-Product	Others
Gambela	1,316	80	*	20	466	1,600
Zone 1	867	*	*	-	173	1,094
Itang	408	-	-	-	7	384
Gambela	458	*	*	-	166	710
Zone 2	450	70	-	20	293	506
Gog	45	-	-	-	42	188
Godare	369	67	-	*	238	289
Dima	35	*	-	*	13	30

TABLE 7-26: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES BY REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Total (%)	PERCENT OF MILK UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	61.87	10.03	0.16	27.94
Zone 1	100	66.64	17.37	0.03	15.96
Jikawo	100	69.05	16.68	0.03	14.24
Itang	100	67.92	11.99	0.02	20.08
Gambela	100	56.54	31.96	0.03	11.47
Zone 2	100	57.54	3.36	0.28	38.81
Abobo	100	64.05	11.35	0.13	24.48
Jor	100	62.18	3.66	1.11	33.04
Gog	100	69.52	13.2	1.52	15.76
Godare	100	55.56	1.81	0.1	42.53
Dima	100	58	33.33	-	8.67

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF MILK UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	62.32	8.16	0.15	29.36
Zone 1	100	68.51	15.18	0.03	16.29
Jikawo	100	69.05	16.68	0.03	14.24
Itang	100	69.82	9.57	0.02	20.58
Gambela	100	60.53	26.38	-	13.1
Zone 2	100	57.36	2.52	0.25	39.86
Abobo	100	64.05	11.35	0.13	24.48
Jor	100	62.18	3.66	1.11	33.04
Gog	100	72.6	11.01	1.65	14.74
Godare	100	55.03	1	0.05	43.93
Dima	-	-	-	-	-

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF MILK UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	58.26	25.02	0.21	16.52
Zone 1	100	57.38	28.27	0.03	14.33
Itang	100	61.73	19.83	-	18.44
Gambela	100	52.69	37.37	0.05	9.89
Zone 2	100	60.51	16.68	0.67	22.14
Gog	100	35.57	37.37	-	27.06
Godare	100	63.22	13.59	0.77	22.42
Dima	100	58	33.33	-	8.67

TABLE 7-27: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES BY REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Total (%)	PERCENT OF BUTTER UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	66.16	29.43	0.05	4.37
Zone 1	100	56.48	41.95	0.01	1.55
Jikawo	100	51.17	48.54	-	0.3
Itang	100	67.11	30.43	0.02	2.44
Gambela	100	48.35	47.11	0.04	4.49
Zone 2	100	75.12	17.83	0.07	6.97
Abobo	100	64.1	24.73	-	11.16
Jor	100	66.79	22.74	0.69	9.78
Gog	100	46.82	45.97	-	7.2
Godare	100	77.97	15.75	-	6.27
Dima	-	-	-	-	-

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF BUTTER UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	66.36	29.24	0.05	4.36
Zone 1	100	55.92	42.7	0.01	1.37
Jikawo	100	51.17	48.54	-	0.3
Itang	100	71.47	25.31	0.03	3.19
Gambela	100	34.75	62.96	-	2.28
Zone 2	100	75.1	17.95	0.08	6.87
Abobo	100	64.1	24.73	-	11.16
Jor	100	66.79	22.74	0.69	9.78
Gog	100	43.71	48.85	-	7.44
Godare	100	77.97	15.92	-	6.11
Dima	-	-	-	-	-

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF BUTTER UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	63.68	31.85	0.03	4.44
Zone 1	100	60.57	36.52	0.04	2.87
Itang	100	53.01	46.99	-	-
Gambela	100	77.3	13.36	0.13	9.2
Zone 2	100	75.81	13.63	-	10.56
Gog	100	62.63	31.37	-	6.01
Godare	100	78.07	10.59	-	11.34
Dima	-	-	-	-	-

TABLE 7-28: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES BY REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Total (%)	PERCENT OF CHEESE UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	90.94	5.01	0.13	3.92
Zone 1	100	79.05	12.36	-	8.59
Jikawo	-	-	-	-	-
Itang	100	82.28	1.63	-	16.1
Gambela	100	78.59	13.88	-	7.53
Zone 2	100	92.19	4.24	0.15	3.43
Abobo	100	75.77	20.47	0.22	3.53
Jor	-	-	-	-	-
Gog	100	61.79	22.6	-	15.61
Godare	100	93.7	2.94	0.14	3.21
Dima	-	-	-	-	-

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF CHEESE UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	91.93	4.72	0.14	3.22
Zone 1	100	77.34	16.52	-	6.14
Jikawo	-	-	-	-	-
Itang	100	92.52	2.15	-	5.33
Gambela	100	74.64	19.08	-	6.28
Zone 2	100	92.92	3.91	0.15	3.02
Abobo	100	75.77	20.47	0.22	3.53
Jor	-	-	-	-	-
Gog	100	66.09	13.78	-	20.13
Godare	100	94.29	2.77	0.15	2.79
Dima	-	-	-	-	-

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF CHEESE UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	77.04	9.18	-	13.77
Zone 1	100	81.85	5.52	-	12.63
Itang	100	50	-	-	50
Gambela	100	84.58	5.99	-	9.43
Zone 2	100	71.39	13.49	-	15.12
Gog	100	53.7	39.12	-	7.18
Godare	100	74.9	8.41	-	16.69
Dima	-	-	-	-	-

TABLE 7-29: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES BY REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Total (%)	PERCENT OF BEEF UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	36.64	49.47	0.19	13.7
Zone 1	100	52.18	25.46	-	22.36
Jikawo	100	45.84	-	-	54.16
Itang	100	55.31	38.01	-	6.69
Gambela	-	-	-	-	-
Zone 2	100	20.9	73.81	0.38	4.92
Abobo	100	10.85	89.15	-	-
Jor	100	5.06	89.89	-	5.06
Gog	100	22.41	61.39	3.82	12.37
Godare	100	22.66	71.51	0.34	5.49
Dima	-	-	-	-	-

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF BEEF UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	36.54	49.5	0.14	13.82
Zone 1	100	52.68	24.44	-	22.88
Jikawo	100	45.84	-	-	54.16
Itang	100	56.27	37.25	-	6.48
Gambela	-	-	-	-	-
Zone 2	100	20.29	74.72	0.29	4.7
Abobo	100	10.85	89.15	-	-
Jor	100	5.06	89.89	-	5.06
Gog	100	29.99	50.06	-	19.95
Godare	100	21.84	72.62	0.35	5.19
Dima	-	-	-	-	-

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF BEEF UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	39.37	48.69	1.39	10.55
Zone 1	100	40.01	50	-	9.99
Itang	100	40.01	50	-	9.99
Gambela	-	-	-	-	-
Zone 2	100	38.59	47.09	3.09	11.23
Gog	100	10.04	79.92	10.04	-
Godare	100	51.32	32.46	-	16.23
Dima	-	-	-	-	-

TABLE 7-30: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES BY REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Total (%)	PERCENT OF GOAT MEAT/MUTTON UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	52.87	36.49	0.29	10.36
Zone 1	100	60.92	20.87	-	18.22
Jikawo	100	62.64	4.43	-	32.93
Itang	100	61.62	34.18	-	4.2
Gambela	100	37.11	18.89	-	44
Zone 2	100	46.92	48.04	0.5	4.55
Abobo	100	41.36	51.96	2.67	4.01
Jor	100	21.29	76.31	-	2.4
Gog	100	30.11	53.98	-	15.91
Godare	100	53.24	44.94	-	1.82
Dima	100	50	30	-	20

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF GOAT MEAT/MUTTON UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	52.27	37.58	0.33	9.82
Zone 1	100	63.03	18.72	-	18.25
Jikawo	100	62.64	4.43	-	32.93
Itang	100	63.9	33.08	-	3.02
Gambela	100	9.97	39.87	-	50.17
Zone 2	100	44.84	50.6	0.55	4.01
Abobo	100	41.36	51.96	2.67	4.01
Jor	100	21.29	76.31	-	2.4
Gog	100	31.45	53.3	-	15.26
Godare	100	49.79	48.88	-	1.34
Dima	-	-	-	-	-

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF GOAT MEAT/MUTTON UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	57.15	28.65	-	14.2
Zone 1	100	49.51	32.45	-	18.04
Itang	100	53.27	38.22	-	8.51
Gambela	100	39.46	17.06	-	43.48
Zone 2	100	66.31	24.09	-	9.6
Gog	100	21.71	58.29	-	19.99
Godare	100	81.12	13.17	-	5.71
Dima	100	50	30	-	20

TABLE 7-31: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES BY REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Total (%)	PERCENT OF EGGS UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	25.82	28.59	0.12	45.46
Zone 1	100	25.4	39.55	0.04	35.01
Jikawo	100	23.33	59.51	0.02	17.13
Itang	100	20.05	29.46	0.08	50.4
Gambela	100	35.43	31.35	-	33.23
Zone 2	100	26.11	21.17	0.18	52.55
Abobo	100	30.39	25.78	0.13	43.7
Jor	100	3.59	3.98	0.05	92.38
Gog	100	19.95	30.87	0.82	48.36
Godare	100	29.26	18.43	-	52.31
Dima	100	48.97	7.07	-	43.97

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF EGGS UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	24.36	28.97	0.13	46.54
Zone 1	100	22.4	42.13	0.05	35.43
Jikawo	100	23.33	59.51	0.02	17.13
Itang	100	16.81	29.46	0.09	53.63
Gambela	100	31.04	36.9	-	32.06
Zone 2	100	25.56	20.93	0.18	53.32
Abobo	100	30.39	25.78	0.13	43.7
Jor	100	3.59	3.98	0.05	92.38
Gog	100	20.3	29.9	0.89	48.9
Godare	100	28.19	18.39	-	53.42
Dima	-	-	-	-	-

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF EGGS UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	44.16	23.88	-	31.97
Zone 1	100	45.44	22.33	-	32.23
Itang	100	45.11	29.45	-	25.44
Gambela	100	45.62	18.44	-	35.94
Zone 2	100	40.95	27.75	-	31.3
Gog	100	16.05	41.64	-	42.32
Godare	100	59.6	19.5	-	20.89
Dima	100	48.97	7.07	-	43.97
Dima	-	-	-	-	-

TABLE 7-32: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES BY REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Total (%)	PERCENT OF HONEY UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	18.9	76.74	0.13	4.24
Zone 1	100	25.19	68.95	-	5.85
Jikawo	100	100	-	-	-
Itang	100	-	50	-	50
Gambela	100	22.78	72.02	-	5.2
Zone 2	100	18.35	77.42	0.14	4.1
Abobo	100	32.42	64.28	-	3.3
Jor	-	-	-	-	-
Gog	100	20.59	74.11	1.11	4.2
Godare	100	17.02	78.78	0.05	4.15
Dima	100	40	30	15	15

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF HONEY UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	18.83	76.81	0.12	4.24
Zone 1	100	25.31	68.82	-	5.88
Jikawo	100	100	-	-	-
Itang	100	-	50	-	50
Gambela	100	22.88	71.89	-	5.23
Zone 2	100	18.27	77.5	0.13	4.1
Abobo	100	32.42	64.28	-	3.3
Jor	-	-	-	-	-
Gog	100	20.59	74.11	1.11	4.2
Godare	100	16.92	78.87	0.05	4.15
Dima	-	-	-	-	-

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF HONEY UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	35.15	59.91	1.11	3.83
Zone 1	100	-	100	-	-
Itang	-	-	-	-	-
Gambela	100	-	100	-	-
Zone 2	100	38.47	56.13	1.21	4.19
Gog	-	-	-	-	-
Godare	100	38.33	58.42	-	3.25
Dima	100	40	30	15	15

TABLE 7-33: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES BY REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Total (%)	PERCENT OF WAX UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	21.53	37.31	1.12	40.05
Zone 1	-	-	-	-	-
Jikawo	-	-	-	-	-
Itang	-	-	-	-	-
Gambela	-	-	-	-	-
Zone 2	100	21.53	37.31	1.12	40.05
Abobo	-	-	-	-	-
Jor	-	-	-	-	-
Gog	-	-	-	-	-
Godare	100	21.53	37.31	1.12	40.05
Dima	-	-	-	-	-

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF WAX UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	21.59	37.05	1.12	40.24
Zone 1	-	-	-	-	-
Jikawo	-	-	-	-	-
Itang	-	-	-	-	-
Gambela	-	-	-	-	-
Zone 2	100	21.59	37.05	1.12	40.24
Abobo	-	-	-	-	-
Jor	-	-	-	-	-
Gog	-	-	-	-	-
Godare	100	21.59	37.05	1.12	40.24
Dima	-	-	-	-	-

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF WAX UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	10	90	-	-
Zone 1	-	-	-	-	-
Itang	-	-	-	-	-
Gambela	-	-	-	-	-
Zone 2	100	10	90	-	-
Gog	-	-	-	-	-
Godare	100	10	90	-	-
Dima	-	-	-	-	-

TABLE 7-34: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES BY REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Total (%)	PERCENT OF WOOL UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	100	-	-	-
Zone 1	100	100	-	-	-
Jikawo	-	-	-	-	-
Itang	100	100	-	-	-
Gambela	-	-	-	-	-
Zone 2	-	-	-	-	-
Abobo	-	-	-	-	-
Jor	-	-	-	-	-
Gog	-	-	-	-	-
Godare	-	-	-	-	-
Dima	-	-	-	-	-

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF WOOL UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	100	-	-	-
Zone 1	100	100	-	-	-
Jikawo	-	-	-	-	-
Itang	100	100	-	-	-
Gambela	-	-	-	-	-
Zone 2	-	-	-	-	-
Abobo	-	-	-	-	-
Jor	-	-	-	-	-
Gog	-	-	-	-	-
Godare	-	-	-	-	-
Dima	-	-	-	-	-

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF WOOL UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	-	-	-	-	-
Zone 1	-	-	-	-	-
Itang	-	-	-	-	-
Gambela	-	-	-	-	-
Zone 2	-	-	-	-	-
Gog	-	-	-	-	-
Godare	-	-	-	-	-
Dima	-	-	-	-	-

TABLE 7-35: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES BY REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Total (%)	PERCENT OF HIDES UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	51.04	46.39	1.01	1.55
Zone 1	100	82.21	16.36	-	1.44
Jikawo	-	-	-	-	-
Itang	100	82.21	16.36	-	1.44
Gambela	-	-	-	-	-
Zone 2	100	39.34	57.67	1.39	1.6
Abobo	100	60.88	24.99	-	14.13
Jor	100	100	-	-	-
Gog	100	100	-	-	-
Godare	100	35.42	62.21	1.54	0.83
Dima	-	-	-	-	-

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF HIDES UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	50.92	46.26	1.11	1.71
Zone 1	100	79.86	18.51	-	1.63
Jikawo	-	-	-	-	-
Itang	100	79.86	18.51	-	1.63
Gambela	-	-	-	-	-
Zone 2	100	40.45	56.29	1.51	1.74
Abobo	100	60.88	24.99	-	14.13
Jor	100	100	-	-	-
Gog	100	100	-	-	-
Godare	100	36.27	61.12	1.69	0.92
Dima	-	-	-	-	-

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF HIDES UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	52.32	47.68	-	-
Zone 1	100	100	-	-	-
Itang	100	100	-	-	-
Gambela	-	-	-	-	-
Zone 2	100	26.79	73.21	-	-
Gog	-	-	-	-	-
Godare	100	26.79	73.21	-	-
Dima	-	-	-	-	-

TABLE 7-36: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES BY REGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Total (%)	PERCENT OF SKIN UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	61.33	32.86	2.07	3.74
Zone 1	100	83.64	16.36	-	-
Jikawo	100	100	-	-	-
Itang	100	81.08	18.92	-	-
Gambela	100	-	100	-	-
Zone 2	100	35.57	51.91	4.46	8.06
Abobo	100	56.83	27.38	-	15.8
Jor	100	100	-	-	-
Gog	100	35.67	62.18	-	2.15
Godare	100	14.05	69.92	10.69	5.35
Dima	100	-	58.33	25	16.67

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF SKIN UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	60.39	32.87	2.36	4.38
Zone 1	100	86.52	13.48	-	-
Jikawo	100	100	-	-	-
Itang	100	82.63	17.37	-	-
Gambela	-	-	-	-	-
Zone 2	100	36.37	50.7	4.53	8.4
Abobo	100	56.83	27.38	-	15.8
Jor	100	100	-	-	-
Gog	100	33.75	63.88	-	2.37
Godare	100	15	67.87	11.42	5.71
Dima	-	-	-	-	-

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF SKIN UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Gambela	100	66.35	32.8	0.51	0.34
Zone 1	100	74.84	25.16	-	-
Itang	100	77.29	22.71	-	-
Gambela	100	-	100	-	-
Zone 2	100	21.6	73.07	3.2	2.13
Gog	100	54.11	45.89	-	-
Godare	100	-	100	-	-
Dima	100	-	58.33	25	16.67

ANNEX TABLES PRESENTING ESTIMATES, STANDARD ERRORS AND COEFFICIENTS OF VARIATION FOR SELECTED LIVESTOCK VARIABLES

Annex Tables 7.1 and 7.10

Annex Table 7.1- Estimates of Livestock, Standard Error and Coefficient of Variation by Type, Zone, and Wereda

GEOGRAPHIC AREA	CATTLE			SHEEP			GOATS		
	Number	SE	CV	Number	SE	CV	Number	SE	CV
Gambela	126,198	6,958	6	43,746	3,319	8	49,076	2,925	6
Zone 1	106,222	6,656	6	35,404	3,079	9	37,542	2,556	7
Jikawo	79,024	6,451	8	30,740	3,019	10	30,594	2,451	8
Itang	19,887	1,199	6	4,362	591	14	5,461	642	12
Gambela	7,311	1,114	15	302	125	41	1,487	340	23
Zone 2	19,977	2,031	10	8,342	1,240	15	11,534	1,422	12
Abobo	1,845	326	18	197	70	35	2,686	757	28
Jor	3,072	1,035	34	1,842	676	37	3,309	959	29
Gog	2,077	572	28	1,063	266	25	4,121	680	17
Godare	12,840	1,618	13	5,239	1,003	19	1,384	255	18
Dima	141	35	25	-	-	-	35	11	33

cont'd

GEOGRAPHIC AREA	HORSES			ASSES			MULES			CAMELS		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Gambela	338	105	31	264	53	20	12	8	70	5	5	100
Zone 1	-	-	-	117	23	19	-	-	-	-	-	-
Itang	-	-	-	54	14	26	-	-	-	-	-	-
Gambela	-	-	-	64	18	28	-	-	-	-	-	-
Zone 2	338	105	31	147	48	33	12	8	70	5	5	100
Godare	338	105	31	146	48	33	-	-	-	-	-	-
Dima	-	-	-	1	1	100	12	8	70	5	5	100

Annex Table 7.2- Estimates of Cattle, Standard Error and Coefficient of Variation by Age group, Zone, and Wereda

Male Cattle

GEOGRAPHIC AREA	<6MONTHS			6MONTHS -<1YEAR			1-<3YEARS			3-<10YEARS			10YAERS & OLDER		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Gambela	10,236	596	6	8,161	555	7	9,105	664	7	8,936	556	6	303	91	30
Zone 1	8,183	533	7	6,910	520	8	7,479	626	8	7,565	504	7	278	89	32
Jikawo	5,957	506	9	5,209	490	9	5,913	609	10	5,400	452	8	129	79	61
Itang	1,650	138	8	1,216	143	12	1,053	103	10	1,497	187	13	128	38	30
Gambela	577	95	16	486	100	21	513	101	20	667	121	18	21	16	76
Zone 2	2,052	267	13	1,251	194	15	1,626	223	14	1,372	236	17	25	21	84
Abobo	59	22	38	78	28	36	368	88	24	674	150	22	-	-	-
Jor	378	124	33	140	65	47	106	50	47	156	66	42	-	-	-
Gog	164	56	34	161	54	34	197	71	36	154	59	39	6	6	100
Godare	1,435	228	16	864	172	20	947	185	20	371	158	43	19	20	108
Dima	15	4	28	7	4	61	9	4	47	16	8	52	-	-	-

Female Cattle

GEOGRAPHIC AREA	<6MONTHS			6MONTHS -<1YEAR			1-<3YEARS			3-<10YAERS			10YAERS & OLDER		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Gambela	11,361	728	6	8,976	612	7	15,413	1,031	7	52,138	2,799	5	1,570	345	22
Zone 1	9,453	684	7	7,743	577	7	13,050	986	8	44,139	2,676	6	1,422	341	24
Jikawo	6,523	649	10	5,491	546	10	10,443	958	9	33,434	2,572	8	525	322	61
Itang	2,237	183	8	1,703	153	9	2,061	198	10	7,522	529	7	822	106	13
Gambela	693	113	16	548	106	19	547	120	22	3,183	517	16	76	41	54
Zone 2	1,908	249	13	1,233	205	17	2,362	301	13	7,999	820	10	148	53	36
Abobo	108	38	35	35	18	50	126	42	33	382	99	26	15	10	71
Jor	295	92	31	220	127	58	405	200	49	1,369	415	30	4	4	100
Gog	210	59	28	122	39	32	202	60	30	855	264	31	6	6	100
Godare	1,285	220	17	853	156	18	1,612	214	13	5,331	649	12	123	52	42
Dima	11	4	33	3	2	56	17	6	37	63	16	25	-	-	-

Annex Table 7.3- Estimates of Sheep, Standard Error and Coefficient of Variation by Age group, Zone, and Wereda

Male Sheep

GEOGRAPHIC AREA	<6MONTHS			6MONTHS - <1YEAR			1- < 2YEARS			2 YEARS & OLDER		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Gambela	6,208	564	9	944	160	17	699	116	17	1,245	190	15
Zone 1	4,581	436	10	660	137	21	481	99	20	904	175	19
Jikawo	4,131	428	10	406	127	31	280	86	31	402	141	35
Itang	400	76	19	246	50	20	177	46	26	477	103	22
Gambela	50	33	67	8	6	79	24	14	60	25	15	59
Zone 2	1,627	357	22	284	83	29	218	61	28	341	72	21
Abobo	-	-	-	-	-	-	18	19	110	93	32	35
Jor	203	85	42	113	57	50	49	30	60	108	45	42
Gog	89	32	36	11	10	90	71	29	41	83	31	37
Godare	1,334	345	26	160	60	38	81	40	50	57	35	61

Female Sheep

GEOGRAPHIC AREA	<6MONTHS			6MONTHS - <1YEAR			1- <2YEARS			2 YEARS & OLDER		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Gambela	6,364	508	8	5,624	499	9	5,792	506	9	16,869	1,378	8
Zone 1	4,995	443	9	4,866	464	10	4,920	466	9	13,997	1,319	9
Jikawo	4,350	432	10	4,340	452	10	4,333	454	10	12,497	1,302	10
Itang	635	98	15	468	95	20	553	105	19	1,405	208	15
Gambela	9	7	81	58	38	65	34	21	62	95	35	37
Zone 2	1,370	250	18	758	184	24	872	196	23	2,873	399	14
Abobo	-	-	-	-	-	-	-	-	-	87	31	35
Jor	158	68	43	290	145	50	235	132	56	686	189	28
Gog	162	53	33	120	38	31	125	38	30	402	103	26
Godare	1,049	234	22	347	107	31	512	141	27	1,698	335	20

Annex Table 7.4- Estimates of Goats, Standard Error and Coefficient of Variation by Age group, Zone, and Wereda

Male Goats

GEOGRAPHIC AREA	<6MONTHS			6MONTHS - <1YEAR			1- <2YEARS			2 YEARS & OLDER		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Gambela	6,464	470	7	1,385	180	13	1,396	200	14	1,249	186	15
Zone 1	5,407	432	8	775	146	19	891	175	20	800	149	19
Jikawo	4,489	416	9	507	135	27	563	164	29	439	126	29
Itang	689	94	14	213	52	24	236	46	20	276	70	26
Gambela	229	69	30	55	22	41	93	38	41	86	36	42
Zone 2	1,058	184	17	611	106	17	505	97	19	448	112	25
Abobo	244	97	40	176	62	35	103	38	37	82	50	60
Jor	288	108	38	79	44	56	106	38	36	118	73	62
Gog	382	96	25	195	52	27	244	74	30	198	60	31
Godare	143	59	41	151	51	34	53	31	59	48	32	67
Dima	1	1	100	10	6	60	-	-	-	1	1	100

Female Goats

GEOGRAPHIC AREA	<6MONTHS			6MONTHS - <1YEAR			1-<2YEARS			2 YEARS & OLDER		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Gambela	7,923	511	6	6,978	556	8	7,274	535	7	16,406	1,010	6
Zone 1	6,095	456	7	5,354	475	9	5,722	472	8	12,498	842	7
Jikawo	5,077	438	9	4,645	463	10	4,839	453	9	10,035	749	7
Itang	781	103	13	550	91	16	678	112	17	2,039	370	18
Gambela	238	77	33	159	53	33	205	72	35	424	107	25
Zone 2	1,828	230	13	1,624	288	18	1,553	251	16	3,909	557	14
Abobo	331	86	26	546	186	34	543	189	35	661	227	34
Jor	434	152	35	396	179	45	318	112	35	1,571	457	29
Gog	683	117	17	610	126	21	567	108	19	1,241	209	17
Godare	375	93	25	66	23	34	123	51	41	426	79	19
Dima	5	3	57	6	4	61	1	1	100	10	5	46

Annex Table 7.5- Estimates of Horses, Standard Error and Coefficient of Variation by Age group, Zone, and Wereda

GEOGRAPHIC AREA	MALE						FEMALE					
	<3YEARS			3YEARS & OLDER			<3YEARS			3YEARS & OLDER		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Gambela	-	-	-	338	105	31	-	-	-	-	-	-
Zone 2	-	-	-	338	105	31	-	-	-	-	-	-
Godare	-	-	-	338	105	31	-	-	-	-	-	-

Annex Table 7.6- Estimates of Asses, Standard Error and Coefficient of Variation by Age group, Zone, and Wereda

GEOGRAPHIC AREA	MALE						FEMALE					
	<3YEARS			3YEARS & OLDER			<3YEARS			3YEARS & OLDER		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Gambela	8	5	69	198	50	25	-	-	-	59	15	25
Zone 1	8	5	69	51	13	26	-	-	-	59	15	25
Itang	-	-	-	-	-	-	-	-	-	54	14	26
Gambela	8	5	69	51	13	26	-	-	-	5	5	100
Zone 2	-	-	-	147	48	33	-	-	-	-	-	-
Godare	-	-	-	146	48	33	-	-	-	-	-	-
Dima	-	-	-	1	1	100	-	-	-	-	-	-

Annex Table 7.7- Estimates of Mules, Standard Error and Coefficient of Variation by Age group, Zone, and Wereda

GEOGRAPHIC AREA	MALE						FEMALE					
	<3YEARS			3YEARS & OLDER			<3YEARS			3YEARS & OLDER		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Gambela	-	-	-	4	3	77	-	-	-	8	7	88
Zone 2	-	-	-	4	3	77	-	-	-	8	7	88
Dima	-	-	-	4	3	77	-	-	-	8	7	88

Annex Table 7.8- Estimates of Camels, Standard Error and Coefficient of Variation by Age group, Zone, and Wereda

GEOGRAPHIC AREA	MALE						FEMALE					
	<4YEARS			4YEARS & OLDER			<4YEARS			4YEARS & OLDER		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Gambela	-	-	-	5	5	100	-	-	-	-	-	-
Zone 2	-	-	-	5	5	100	-	-	-	-	-	-
Dima	-	-	-	5	5	100	-	-	-	-	-	-

Annex Table 7.9- Estimates of Poultry, Standard Error and Coefficient of Variation By Type, Zone, and Wereda

GEOGRAPHIC AREA	Total Poultry			Cocks			Cockerels			Pullets			Non-laying Hens			Chicks			Laying Hens		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Gambela	237,930	9,564	4	32,230	1,311	4	24,970	1,314	5	32,763	1,638	5	17,058	1,070	6	74,123	4,013	5	56,787	2,094	4
Zone 1	120,154	5,138	4	19,880	873	4	13,472	837	6	16,508	893	5	10,118	799	8	28,389	1,404	5	31,787	1,281	4
Jikawo	55,188	3,805	7	10,416	726	7	6,122	559	9	6,733	568	8	4,744	497	10	10,547	878	8	16,628	1,104	7
Itang	39,398	1,593	4	6,089	302	5	4,202	282	7	5,259	323	6	3,229	257	8	10,910	651	6	9,709	392	4
Gambela	25,568	3,062	12	3,376	380	11	3,149	556	18	4,517	609	13	2,145	571	27	6,932	881	13	5,450	519	10
Zone 2	117,776	8,067	7	12,349	978	8	11,498	1,012	9	16,254	1,373	8	6,940	712	10	45,735	3,759	8	24,999	1,656	7
Abobo	29,218	6,655	23	3,110	736	24	3,152	820	26	4,428	1,121	25	1,061	272	26	11,487	3,053	27	5,979	1,249	21
Jor	8,533	1,354	16	1,059	348	33	1,083	216	20	1,434	293	20	520	216	41	2,589	346	13	1,848	364	20
Gog	31,140	2,386	8	3,479	269	8	3,419	345	10	4,596	404	9	2,406	335	14	10,966	1,056	10	6,275	421	7
Godare	45,728	3,631	8	4,185	467	11	3,512	430	12	5,370	613	11	2,610	521	20	19,941	1,887	9	10,108	932	9
Dima	3,157	299	9	516	53	10	332	44	13	426	50	12	342	49	14	752	143	19	790	61	8

Annex Table 7.10- Estimates of Beehives, Standard Error and Coefficient of variation by Type, Zone, and Wereda

GEOGRAPHIC AREA	ALL BEEHIVES			TRADITIONAL			INTERMEDIATE			MODERN		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Gambela	59,222	10,232	17	58,625	10,227	17	597	302	51	-	-	-
Zone 1	4,664	2,943	63	4,629	2,943	64	35	35	100	-	-	-
Itang	10	7	63	10	7	63	-	-	-	-	-	-
Gambela	4,653	2,943	63	4,618	2,943	64	35	35	100	-	-	-
Zone 2	54,558	9,799	18	53,996	9,795	18	562	300	53	-	-	-
Abobo	1,614	551	34	1,614	551	34	-	-	-	-	-	-
Gog	1,315	274	21	1,315	274	21	-	-	-	-	-	-
Godare	50,463	9,779	19	49,931	9,774	20	532	298	56	-	-	-
Dima	1,166	146	13	1,136	143	13	30	30	100	-	-	-

CHAPTER VIII

FARM IMPLEMENTS, DRAUGHT ANIMALS AND STORAGE FACILITIES

1. INTRODUCTION

Agriculture is the single largest sector in the Ethiopian economy. The position of the agricultural sector for the past few decades does not only concern the peasants, but on account of the extent of its inputs, outputs and its function as a largest employer of labour has a profound impact on the entire economy. It is worth to point-out that Ethiopia has large resources in terms of land, agricultural labour, draught animals... etc.

Despite all these facts, the average yield of the main food crops and livestock products attained by private peasant holders is very low and it is not adequate to feed the ever-growing population. Because of such prevailing conditions in the agricultural sector, the economy remained at subsistence level. Among the factors that hampered the country not to prosper is the use of primitive farm implements and tools by the peasants to operate their land and to raise livestock.

The role of improved agricultural implements and tools in raising the standard of farming efficiency and increasing average yield of production has been recognized for many years. Land preparation requires modern power source that results in considerable farm efficiency and expansion of production. Sowing and fertilization are among the few agricultural operations where animal and tractor drawn machines appear to be capable of greater efficiency than only hand method. Power-driven line sowing and fertilization are more efficient than hand spreading and this is usually expected to result in higher yield for the same amount of fertilizers and seeds.

The traditional unimproved farm implements used by the peasants and the poor conditions of the draught animals are considered to be among the main factors that retarded the agricultural productivity in the country. On the other hand, the development of farm implements and machineries can also be crippled by small land size holdings, abundant labour in rural area and non-availability of adequate access to

modern farm implements and machineries, which the private peasant holders can afford to rent or buy. In general, effective development of farm implements and machineries takes place when land is abundant and labour is being rapidly absorbed by non-agricultural sector, (WB, 1984)

Since development programmes are in progress in Ethiopia, data generated from censuses and sample surveys on different types of agricultural outputs and inputs are necessary for assessments, evaluation and formulation of programmes and policies in the sector. One of the objectives of this census was to provide benchmark data that can help to assess the growth, quantity, quality and value of farm implements and other farm equipment used by the private peasant holders so as to easily identify the implements that are abundant and those that are in short supply. The structural characteristics of these farm implements and other farm equipment do not change much from year to year and such data are usually obtained from a census of agriculture, which is conducted every 5 or 10 years. Data on farm implements and other farm equipment were not collected in Ethiopia and much is not known about the status and growth of these implements. Thus, in the Ethiopian agricultural census conducted in 2001/2002, data was collected on farm implements and other farm equipment. These farm implements include, implements used for clearing land, cultivation, harvesting, threshing and others. In this census draught animals comprises animals engaged specifically in ploughing, threshing and farm transport facilities. Replacement value was one of the variables covered by this census. Replacement value is the amount it would cost to replace farm implement, equipment, animal and storage with the kind of similar origin, age, quality or condition.

In this chapter the classification of farm implements, farm equipment, draught animals and storage facilities are presented in Section 2. Brief discussions of data on Summary Tables VIII.1 to VIII.3 are also provided in section 3. Statistical Tables presenting the census results at zonal and wereda levels are also given as Table series 8.1A - 8.23A and 8.1B-8.23B. Finally, the estimates, Standard Errors (S.E.) and Coefficients of Variation (C.V.) on number of holders reporting, number of farm implements reported and total value are presented in the Annex Table.

2. CLASSIFICATION OF FARM IMPLEMENTS, OTHER FARM EQUIPMENT AND DRAUGHT ANIMALS

The farm implements and draught animals reported were classified into the following eight groups: -

- Implements used for clearing land.
- Implements used for cultivation
- Parts for traditional plough.
- Implements used for harvesting
- Implements used for threshing.
- Other farm equipment.
- Draught animals for farm activity.
- Storage facilities

These eight groups further broken down to include the following implements and other farm equipment:

2.1 Implements used for clearing land

a) Axes

b) 'Gejera '(Chopper)

c) Shovel

2.2 Implements used for cultivation

a) Hoe

b) 'Mekeskesha'

c) Pick-Axe

d) Tractor

2.3 Parts for traditional plough

a) 'Deger'

b) 'Erfe'

c) Plough-Beam

d) Plough-Tip

e) 'Wegel'-Tip

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2.4 Implement used for harvesting

a) Sickle

2.5 Implements used for threshing

a) Hay- Fork (metal or wood)

b) Threshing Stick

c) Winnower (metal or wood)

2.6 Other farm equipment

a) Cart (hauling)

b) Sprayer (hand operated)

c) Sprayer (power operated)

d) Tying Tool

e) Wheelbarrow

2.7 Draught animals

a) Animals deployed specifically in ploughing.

- Ass/Donkey
- Camel
- Horse
- Mule
- Ox

b) Animals deployed in threshing or transportation:-

- Ass/Donkey
- Camel
- Cattle (Working Age)
- Horse
- Mule

2.8 Storage facilities

a) 'Debignit'(Local storage)

b) 'Gottera' (Local storage)

c) 'Gudguad'(Local storage)

d) Modern storage

Definitions of storage facilities

'Debignit': - Is a round vessel of earthenware storage attached with the wall of a house. The shape of 'Debignit' is similar to the shape of a barrel. Debignit is usually around 1 metre high and 0.5-1metres wide.

'Gottera': - Is storage made of bamboo plant. The bamboo is split and then crisscrossed and woven like a giant basket. Finally, it is laminated with a mixture of animal dung and dry grass (straw). 'Gottera' is usually about 1-3 metres high and about 1 metre wide

'Gudguad': - Is an underground storage, which is formed by digging the ground with certain depth and radius. The wall of 'Gudguad' is usually laminated with animal dung.

Modern storage: - Is a storage that has a better quality in protecting grains from humidity and pests than the above mentioned storages.

3. ESTIMATES OF FARM IMPLEMENTS, DRAUGHT ANIMALS AND STORAGE FACILITIES.

The type, quality and quantity of tools and implements in use usually indicate the level of farming practice and agricultural development of a country. Hence, the results of this census can give us some highlights to evaluate the farming system in the region. In this report farm implements are grouped in terms of their operation and this can help to make appropriate comparisons.

3.1 Farm Implements and Tools

The data in Summary Table VIII.1 indicates that the number of holders reporting 'Gejera'(Chopper) was the highest followed by axe while shovel was the lowest. In Gambella Region it is estimated that there were about 25,774 crop holders in rural areas of which about 23,406 (87.42%) reporting to own 'Gejeras' (choppers), about 66.97% reporting axes, and 10.67% reporting shovels. Among the farm implements used for clearing land the number of observation for 'Gejera' was highest and the total value for 'Gejera' was also the highest followed by axe and shovels. The expected duration of service of an axe was estimated to be 11 years, while for shovel and 'Gejera' it was estimated to be 8 and 6 years, respectively.

One of the labour and power intensive farm activities is cultivation. It comprises digging, ploughing, sowing and weeding. In order to accomplish such operations, the Ethiopian peasants use hoe, 'Mekeskesha', pick-axe, and traditional plough. Among these farm implements and tools hoe was the highest in terms of number of holders reporting, total number of implements reported and total value. The second highest was pick-axe while 'Mekeskesha' was the lowest. The data in Summary Table VIII.4 revealed that the percentage distribution of the number of crop holders that owned one, two, three, four and five and above hoes was 43.94%, 15.63%, 4.93%, 2.14% and 0.63% respectively. For details, see the Summary Table.

3.2 Draught Animals

Peasants in Ethiopia use domestic animals for draught purpose. In several parts of the country where holdings are far from residence as a result asses, horses, mules and camels are used to transport various types of goods and agricultural products from holding to residence and vice-versa. As it is indicated in Summary Table VIII.2 ox was the single draught animal used for ploughing. About 1,132 holders (4.23% of the total crop holders in the region) reported 1,860 cattle (working age cattle) used for threshing and these cattle had a value of 710,988 Birr. It was also indicated that horses were used by the holders for threshing and transportation. The estimated number and percentage distribution of crop holders in rural areas that owned implements, equipment and

draught animals are shown in Summary Table VIII.4. In Gambella region the agricultural census result shows that there were about 26,775 crop holders in rural areas. Among these 2.51%, 1.78%, 0.09%, .11% and 0.04% holders owned one, two, three, four, and five and above oxen. On the other hand about 95.47% of the holders did not own ox. For details, see Summary Table VIII.4.

3.3 Storage Facilities

One of the methods that minimize post harvest production losses is the usage of modern storages facilities. During the census data was collected on modern storages facilities and the unimproved local storage facilities such as 'Debignit', 'Gottera' and 'Gudguad'. In this census, buildings or any structure used as storage facilities and other containers that have better storage quality to protect agricultural products from humidity and pests are considered as modern storage facilities.

The data in Summary Table VIII.3 shows the number of holders reporting storage facilities and number of such facilities. Thus, the data in the table reveals that 'Gottera' was reported by the highest number of holders, followed by 'Debignit' and modern storage facilities. On the other hand, 'Gudguad' was reported by insignificant number of holders. The total value of all reported storage facilities was assessed to be 529,798 Birr, of which 98.8% comprises of Gottera. The percentage distribution of the number of crop holders that owned 'Gottera' and 'Debigint' is also presented in Summary Table VIII.4.

SUMMARY TABLE VIII.1:-Number and Percentage of Holders Reporting Implements and Other Farm Equipment by type, Quantity Reported, Replacement Value, and Duration of Implement, for Private Holdings.

Implements and Equipment	Number of Holders Reporting	Percent of Total Holders	Number of Implements and Equipment		Total Value of Imp. and Eq. (Birr)	Average Replacement Value Per Imp. and Eq. (Birr)	Average Duration of Service of Imp. and Eq. (Years)
			Total Reported	# Average Per Holder			
Used for Clearing Land							
Axes	17,932	66.97	21,575	0.81	346,336	13.80	11
'Gejeras' (Choppers)	23,406	87.42	32,632	1.22	629,730	14.09	6
Shovels	2,856	10.67	3,029	0.11	38,939	12.25	8
Used for Cultivation							
Hoes	17,999	67.22	27,316	1.02	189,871	4.75	7
'Mekeskeshas'	182	0.68	226	0.01	1,047	4.08	7
Pick-Axes	1,640	6.13	1,907	0.07	27,540	12.23	12
Tractor	-	-	-	-	-	-	-
Parts for traditional Plough							
' Degers'	1,217	4.55	1,537	0.06	5,406	2.90	2
' Erfes'	1,197	4.47	1,449	0.05	2,530	1.52	2
Plough-Beams	1,260	4.71	1,656	0.06	13,744	6.85	3
Plough- Tips	1,211	4.52	1,324	0.05	23,998	15.96	7
'Wegel' – Tips	1,205	4.50	1,327	0.05	7,944	5.46	6
Yokes	1,234	4.61	1,359	0.05	8,193	5.43	3
Used for Harvesting							
Sickles	12,291	45.90	16,369	0.61	140,517	6.48	6
Used for Threshing							
Hay-Forks (metal)	*	-	*	-	*	*	*
Hay-Forks (wood)	55	0.21	95	0.00	*	*	*
Threshing Sticks	3,132	11.70	4,376	0.16	4,331	0.77	2
Winnowers (metal)	-	-	-	-	-	-	-
Winnowers (wood)	*	-	*	-	*	*	*
Other farm Equipment							
Carts	*	-	*	-	*	-	-
Sprayers (Hand operated)	162	0.61	211	0.01	1,503	5.67	6
Sprayers (Power operated)	-	-	-	-	-	-	-
Tying Tools	-	-	-	-	-	-	-
Wheelbarrows	94	0.35	94	0.00	*	*	*

Average per holder is the ratio of total number of each implement reported to total number of crop holders in rural areas in the region.
- Total number of crop holders comprises, holders participated in crop production only and both crop production and livestock rearing.

SUMMARY TABLE VIII.2:-Number and Percentage of Holders Reporting Draught Animals, Quantity Reported, Replacement Value, and Average Age of Animal, for Private Holdings.

Animals	Number of Holders Reporting	Percent of Total Holders	Number of Animals		Total Value of Animals (Birr)	Average Replacement Value Per Animal (Birr)	Average Age of Animal (Years)
			Total Reported	#Average Per Holder			
Used for Ploughing							
Asses	-	-	-	-	-	-	-
Camels	-	-	-	-	-	-	-
Horses	-	-	-	-	-	-	-
Mules	-	-	-	-	-	-	-
Oxen	1,215	4.54	1,878		756,855	257.41	3
Used for Threshing or Transportation							
Asses	*		*	-	*	*	*
Camels	-	-	-	-	-	-	-
Cattle	1,132	4.23	1,849	0.07	710,988	*	*
Horses	312	1.17	312	0.01	158,822	509.04	6
Mules	-	-	-	-	-	-	-

Average per holder is the ratio of total number of each draught animal reported to total number of crop holders in rural areas in the region.
- Total number of crop holders comprises, holders participated in crop production only and both crop production and livestock rearing.

SUMMARY TABLE VIII.3: - Number and Percentage of Holders Reporting Storage facilities, Quantity Reported, Replacement Value, and Storage Capacity, for Private Holdings.

Storage Structure	Number of Holders Reporting	Percent of Total Storage Holders	Number of Storages		Total Value of Storages (Birr)	Average Replacement Value Per Storage (Birr)	Average Storage Capacity Per Storage (Quintal)
			Total Reported	# Average Per Holder			
'Debignits'	189	0.71	246	0.01	3,579	11.66	3
'Gotteras'	18,233	68.10	25,848	0.97	523,634	15.01	8
'Gudguads'	*	-	*	-	*	*	*
Modern Storage Structures	89	0.33	89	0.00	2,585	29.04	15

Average per holder is the ratio of total number of each storage facility reported to total number of crop holders in rural areas in the region.
- Total number of crop holders comprises, holders participated in crop production only and both crop production and livestock rearing.

SUMMARY TABLE VIII.4: -Number of Crop Holders that Owned Farm Implements, Equipment and Draught Animals.

Name of Implement, Equipment, and Draught Animal	Number of Crop holders that owned											
	No Implement, Equipment, or Draught Animal		One Implement, Equipment, and Draught Animal		Two Implements, Equipment, and Draught Animals		Three Implements, Equipment, and Draught Animals		Four Implements, Equipment, and Draught Animals		Five and above Implements, Equipment, and Draught Animals	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Used for Clearing Land												
Axes	8,844	33.03	15,126	56.49	2,305	8.61	362	1.35	110	0.41	28	0.10
'Gejera'	3,370	12.59	16,181	60.43	5,616	20.97	1,257	4.69	309	1.15	42	0.16
Shovel	23,908	89.29	2,714	10.14	139	0.52	11	0.04	-	-	3	0.01
Used for Cultivation												
Hoes	8,768	32.75	11,764	43.94	4,184	15.63	1,319	4.93	572	2.14	168	0.63
'Mekeskeshas'	26,593	99.32	153	0.57	19	0.07	5	0.02	5	0.02	-	-
Pick Axes	25,134	93.87	1,469	5.49	106	0.40	37	0.14	29	0.11	-	-
Tractors	26,755	100.00	-	-	-	-	-	-	-	-	-	-
Parts for traditional Plough												
'Degers'	25,557	95.45	1,003	3.75	153	0.57	18	0.07	44	0.16	-	-
'Erfes' (Handle)	25,573	95.51	997	3.72	179	0.67	8	0.03	14	0.05	4	0.01
Plough-Beam	25,516	95.30	1,074	4.01	135	0.50	24	0.09	-	-	26	0.10
Plough -Tips	25,564	95.48	1,127	4.21	65	0.24	8	0.03	11	0.04	-	-
'Wegel' -Tips	25,570	95.50	1,130	4.22	60	0.22	4	0.01	-	-	11	0.04
Yokes	25,541	95.39	1,112	4.15	118	0.44	4	0.01	-	-	-	-
Used for Harvesting												
Sickles	14,484	54.10	9,080	33.91	2,572	9.61	449	1.68	161	0.60	29	0.11
Used for Threshing												
Hay-Forks (Metal)	*	-	*	-	*	-	*	-	*	-	*	-
Hay-Forks (Wood)	26,720	99.79	19	0.07	32	0.12	4	0.01	-	-	-	-
Threshing Sticks	23,644	88.31	2,130	7.96	840	3.14	141	0.53	-	-	20	0.07
Winnowers (Metal)	*	-	*	-	-	-	-	-	-	-	-	-
Winnowers (Wood)	26,770	99.98	5	0.02	-	-	-	-	-	-	-	-
Other Farm Equipment												
Carts	*	-	*	-	-	-	-	-	-	-	-	-
Sprayers (Hand Operated)	26,612	99.39	140	0.52	14	0.05	-	-	-	-	9	0.03
Sprayers (Power Operated)	26,755	100.00	-	-	-	-	-	-	-	-	-	-
Tying Tools	26,755	100.00	-	-	-	-	-	-	-	-	-	-
Wheelbarrows	26,681	99.65	94	0.35	-	-	-	-	-	-	-	-
Animals Used for Ploughing												
Asses	26,755	100.00	-	-	-	-	-	-	-	-	-	-
Camels	26,755	100.00	-	-	-	-	-	-	-	-	-	-
Horses	26,755	100.00	-	-	-	-	-	-	-	-	-	-
Mules	26,755	100.00	-	-	-	-	-	-	-	-	-	-
Oxen	25,561	95.47	673	2.51	476	1.78	24	0.09	29	0.11	12	0.04
Animals Used for Threshing or Transportation												
Asses	26,721	99.80	54	0.20	-	-	-	-	-	-	-	-
Camels	26,755	100.00	-	-	-	-	-	-	-	-	-	-
Cattle	25,643	95.77	615	2.30	443	1.65	29	0.11	29	0.11	16	0.06
Horses	26,463	98.83	312	1.17	-	-	-	-	-	-	-	-
Mules	26,755	100.00	-	-	-	-	-	-	-	-	-	-
Storage Structure												
'Debignits'	26,586	99.29	132	0.49	57	0.21	-	-	-	-	-	-
'Gotteras'	8,542	31.90	12,568	46.94	4,199	15.68	1,062	3.97	358	1.34	46	0.17
'Gudguads'	26,650	99.53	125	0.47	-	-	-	-	-	-	-	-
Modern Storages	26,686	99.67	89	0.33	-	-	-	-	-	-	-	-

STATISTICAL TABLES PRESENTING THE CENSUS RESULTS AT ZONAL AND WOREDA LEVELS

Tables 8.1A- 8.23A

TABLE 8.1A: - Number of Holders Reporting Axe Owned, Quantity Reported, Replacement Value, and Duration of Service of Axe, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Axes Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Axe (Birr)	Average Duration of Service of Axe (Years)
Gambella Region	26,775	17,932	21,575	0.81	346,336	13.80	11
Zone 1	8,962	5,719	7,873	0.88	86,436	8.39	8
Jikawo	2,780	2,284	3,661	1.32	34,067	6.06	8
Itang	3,816	2,053	2,563	0.67	30,045	9.62	9
Gambella	2,366	1,383	1,649	0.70	22,324	11.64	6
Zone 2	17,814	12,212	13,702	0.77	259,900	16.90	12
Abobo	3,656	2,647	3,005	0.82	38,366	11.34	10
Jor	1,182	913	1,013	0.86	12,306	11.14	13
Gog	2,674	1,346	1,501	0.56	20,207	12.04	8
Godare	10,302	7,307	8,183	0.79	189,019	20.55	13

TABLE 8.2A: - Number of Holders Reporting 'Gejera' Owned, Quantity Reported, Replacement Value, and Duration of Service of 'Gejera', for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of 'Gejeras' Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per 'Gejera' (Birr)	Average Duration of Service of 'Gejera' (Years)
Gambella Region	26,775	23,406	32,632	1.22	629,730	14.09	6
Zone 1	8,962	8,098	12,317	1.37	109,327	5.84	6
Jikawo	2,780	2,642	4,762	1.71	38,901	4.45	6
Itang	3,816	3,529	4,953	1.30	41,155	5.84	7
Gambella	2,366	1,927	2,601	1.10	29,271	8.40	5
Zone 2	17,814	15,308	20,316	1.14	520,403	19.09	5
Abobo	3,656	2,614	3,048	0.83	45,942	12.75	8
Jor	1,182	1,020	1,556	1.32	13,092	5.61	10
Gog	2,674	1,964	2,354	0.88	25,196	8.77	6
Godare	10,302	9,710	13,357	1.30	436,174	23.93	4

TABLE 8.3A:- Number of Holders Reporting Shovel Owned, Quantity Reported, Replacement Value, and Duration of Service of Shovel, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Shovels Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Shovel (Birr)	Average Duration of Service of Shovel (Years)
Gambella Region	26,775	2,856	3,029	0.11	38,939	12.25	8
Zone 1	8,962	576	714	0.08	7,490	8.39	8
Jikawo	2,780	*	*	-	*	*	*
Itang	3,816	249	310	0.08	3,176	8.06	11
Gambella	2,366	269	307	0.13	3,251	9.03	5
Zone 2	17,814	2,280	2,315	0.13	31,449	13.45	8
Abobo	3,656	431	435	0.12	5,604	12.81	8
Jor	1,182	*	*	-	*	*	*
Gog	2,674	207	216	0.08	2,166	9.73	7
Godare	10,302	1,575	1,584	0.15	22,892	14.38	8

TABLE 8.4A: - Number of Holders Reporting Hoe Owned, Quantity Reported, Replacement Value, and Duration of Service of Hoe, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Hoes Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Hoe (Birr)	Average Duration of Service of Hoe (Years)
Gambella Region	26,775	17,999	27,316	1.02	189,871	4.75	7
Zone 1	8,962	8,397	14,704	1.64	97,175	3.80	6
Jikawo	2,780	2,735	5,855	2.11	33,137	2.66	5
Itang	3,816	3,647	5,731	1.50	39,298	4.27	7
Gambella	2,366	2,014	3,117	1.32	24,740	5.07	5
Zone 2	17,814	9,602	12,613	0.71	92,696	5.87	7
Abobo	3,656	2,354	3,100	0.85	24,613	6.19	7
Jor	1,182	1,152	2,192	1.85	11,567	2.82	6
Gog	2,674	2,436	3,495	1.31	19,658	3.91	6
Godare	10,302	3,661	3,826	0.37	36,859	9.14	9

TABLE 8.5A: - Number of Holders Reporting 'Mekeskesha' Owned, Quantity Reported, Replacement Value,and Duration of Service of 'Mekeskesha', for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of 'Mekeskeshas' Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per 'Mekeskesha' (Birr)	Average Duration of Service of 'Mekeskesha' (Years)
Gambella Region	26,775	182	226	0.01	1,047	4.08	7
Zone 1	8,962	*	*	-	*	*	*
Jikawo	2,780	-	-	-	-	-	-
Itang	3,816	*	*	-	*	*	*
Gambella	2,366	*	*	-	*	*	*
Zone 2	17,814	160	197	0.01	698	3.38	7
Abobo	3,656	160	197	0.05	698	3.38	7
Jor	1,182	-	-	-	-	-	-
Gog	2,674	-	-	-	-	-	-
Godare	10,302	-	-	-	-	-	-

TABLE 8.6A:- Number of Holders Reporting Pick-Axe Owned, Quantity Reported, Replacement Value, and Duration of Service of Pick-Axe, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Pick-Axes Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Pick-Axe (Birr)	Average Duration of Service of Pick-Axe (Years)
Gambella Region	26,775	1,640	1,907	0.07	27,540	12.23	12
Zone 1	8,962	320	*	-	5,066	*	7
Jikawo	2,780	*	*	-	*	*	*
Itang	3,816	52	72	0.02	701	7.58	13
Gambella	2,366	93	101	0.04	1,095	10.07	5
Zone 2	17,814	1,321	1,386	0.08	22,474	14.56	13
Abobo	3,656	150	150	0.04	1,561	10.41	9
Jor	1,182	*	*	-	*	*	*
Gog	2,674	111	111	0.04	1,563	14.08	10
Godare	10,302	1,022	1,087	0.11	19,108	15.46	14

TABLE 8.7A: - Number of Holders Reporting 'Deger' Owned, Quantity Reported, Replacement Value, and Duration of Service of 'Deger', for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of 'Degers' Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per 'Deger' (Birr)	Average Duration of Service of 'Deger' (Years)
Gambella Region	26,775	1,217	1,537	0.06	5,406	2.90	2
Zone 1	8,962	*	*	-	*	*	*
Jikawo	2,780	-	-	-	-	-	-
Itang	3,816	-	-	-	-	-	-
Gambella	2,366	*	*	-	*	*	*
Zone 2	17,814	1,210	1,509	0.08	5,350	2.94	2
Abobo	3,656	829	1,088	0.30	4,043	2.96	3
Jor	1,182	-	-	-	-	-	-
Gog	2,674	*	*	-	*	*	*
Godare	10,302	371	410	0.04	1,199	2.71	1

TABLE 8.8A:- Number of Holders Reporting 'Erfe'(Handle) Owned, Quantity Reported, Replacement Value, and Duration of Service of 'Erfe', for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of 'Erfes' Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per 'Erfe' (Birr)	Average Duration of Service of 'Erfe' (Years)
Gambella Region	26,775	1,197	1,449	0.05	2,530	1.52	2
Zone 1	8,962	*	*	-	*	*	*
Jikawo	2,780	-	-	-	-	-	-
Itang	3,816	-	-	-	-	-	-
Gambella	2,366	*	*	-	*	*	*
Zone 2	17,814	1,190	1,435	0.08	2,460	1.51	2
Abobo	3,656	808	958	0.26	1,963	1.84	2
Jor	1,182	-	-	-	-	-	-
Gog	2,674	*	*	-	*	*	*
Godare	10,302	371	456	0.04	455	0.83	1

TABLE 8. 9A:- Number of Holders Reporting Plough-Beam Owned, Quantity Reported, Replacement Value, and Duration of Service of Plough-Beam, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Plough-Beams Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Plough-Beam (Birr)	Average Duration of Service of Plough-Beam (Years)
Gambella Region	26,775	1,260	1,656	0.06	13,744	6.85	3
Zone 1	8,962	*	*	-	*	*	*
Jikawo	2,780	-	-	-	-	-	-
Itang	3,816	-	-	-	-	-	-
Gambella	2,366	*	*	-	*	*	*
Zone 2	17,814	1,253	1,642	0.09	13,576	6.86	3
Abobo	3,656	834	973	0.27	10,153	9.03	4
Jor	1,182	-	-	-	-	-	-
Gog	2,674	*	*	-	*	*	*
Godare	10,302	408	637	0.06	2,454	3.38	3

TABLE 8.10A: - Number of Holders Reporting Plough-Tip (Metal) Owned, Quantity Reported, Replacement Value, and Duration of Service of Plough-Tip, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Plough-Tips Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Plough-Tip (Birr)	Average Duration of Service of Plough-Tip (Years)
Gambella Region	26,775	1,211	1,324	0.05	23,998	15.96	7
Zone 1	8,962	*	*	-	*	*	*
Jikawo	2,780	-	-	-	-	-	-
Itang	3,816	-	-	-	-	-	-
Gambella	2,366	*	*	-	*	*	*
Zone 2	17,814	1,204	1,310	0.07	23,858	16.08	7
Abobo	3,656	822	896	0.25	18,364	18.45	6
Jor	1,182	-	-	-	-	-	-
Gog	2,674	*	*	-	*	*	*
Godare	10,302	371	371	0.04	4,203	11.33	8

TABLE 8.11A: - Number of Holders Reporting 'Wegel' -Tip Owned, Quantity Reported, Replacement Value, and Duration of Service of 'Wegel' -Tip, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of 'Wegel' -Tips Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per 'Wegel' -Tip (Birr)	Average Duration of Service of 'Wegel' -Tip (Years)
Gambella Region	26,775	1,205	1,327	0.05	7,944	5.46	6
Zone 1	8,962	*	*	-	*	*	*
Jikawo	2,780	-	-	-	-	-	-
Itang	3,816	-	-	-	-	-	-
Gambella	2,366	*	*	-	*	*	*
Zone 2	17,814	1,198	1,313	0.07	7,846	5.48	6
Abobo	3,656	828	889	0.24	5,581	5.85	5
Jor	1,182	-	-	-	-	-	-
Gog	2,674	*	*	-	*	*	*
Godare	10,302	359	359	0.03	1,943	5.41	7

TABLE 8.12A: - Number of Holders Reporting Yoke Owned, Quantity Reported, Replacement Value, and Duration of Service of Yoke, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Yokes Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Yoke (Birr)	Average Duration of Service of Yoke (Years)
Gambella Region	26,775	1,234	1,359	0.05	8,193	5.43	3
Zone 1	8,962	*	*	-	*	*	*
Jikawo	2,780	-	-	-	-	-	-
Itang	3,816	-	-	-	-	-	-
Gambella	2,366	*	*	-	*	*	*
Zone 2	17,814	1,227	1,345	0.08	8,053	5.44	3
Abobo	3,656	857	951	0.26	6,568	6.26	4
Jor	1,182	-	-	-	-	-	-
Gog	2,674	*	*	-	*	*	*
Godare	10,302	359	373	0.04	1,377	3.51	2

TABLE 8.13A: -Number of Holders Reporting Sickle Owned, Quantity Reported, Replacement Value, and Duration of Service of Sickle, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Sickles Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Sickle (Birr)	Average Duration of Service of Sickle (Years)
Gambella Region	26,775	12,291	16,369	0.61	140,517	6.48	6
Zone 1	8,962	5,879	8,286	0.92	66,351	5.58	5
Jikawo	2,780	2,148	3,605	1.30	29,830	4.80	5
Itang	3,816	2,231	2,782	0.73	22,799	6.49	7
Gambella	2,366	1,500	1,899	0.80	13,722	5.70	4
Zone 2	17,814	6,412	8,083	0.45	74,166	7.41	7
Abobo	3,656	2,066	2,678	0.73	31,820	9.54	6
Jor	1,182	465	580	0.49	3,276	4.78	8
Gog	2,674	1,055	1,224	0.46	9,380	6.78	6
Godare	10,302	2,826	3,601	0.35	29,691	6.47	7

TABLE 8.14A: - Number of Holders Reporting Hay-Fork (Wood) Owned, Quantity Reported, Replacement Value, and Duration of Service of Hay-Fork,for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Hay-Forks Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Hay-Fork (Birr)	Average Duration of Service of Hay-Fork (Years)
Gambella Region	26,775	55	95	0.00	*	*	*
Zone 1	8,962	-	-	-	-	-	-
Jikawo	2,780	-	-	-	-	-	-
Itang	3,816	-	-	-	-	-	-
Gambella	2,366	-	-	-	-	-	-
Zone 2	17,814	55	95	0.01	*	*	*
Abobo	3,656	*	*	-	*	*	*
Jor	1,182	-	-	-	-	-	-
Gog	2,674	-	-	-	-	-	-
Godare	10,302	*	*	-	*	*	*

TABLE 8.15A: - Number of Holders Reporting Threshing Stick Owned, Quantity Reported, Replacement Value, and Duration of Service of Threshing Stick, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Threshing Sticks Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Threshing Stick (Birr)	Average Duration of Service of Threshing Stick (Years)
Gambella Region	26,775	3,132	4,376	0.16	4,331	0.77	2
Zone 1	8,962	*	*	-	*	*	*
Jikawo	2,780	-	-	-	-	-	-
Itang	3,816	-	-	-	-	-	-
Gambella	2,366	*	*	-	*	*	*
Zone 2	17,814	3,048	4,250	0.24	4,205	0.77	2
Abobo	3,656	355	482	0.13	1,212	2.28	4
Jor	1,182	733	757	0.64	263	0.34	4
Gog	2,674	-	-	-	-	-	-
Godare	10,302	1,960	3,011	0.29	2,730	0.64	1

TABLE 8. 16A: - Number of Holders Reporting Sprayer (Hand operated) Owned, Quantity Reported, Replacement Value, Duration of Service of Sprayer, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Sprayers Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Sprayer (Birr)	Average Duration of Service of Sprayer (Years)
Gambella Region	26,775	162	211	0.01	1,503	5.67	6
Zone 1	8,962	61	61	0.01	587	9.62	*
Jikawo	2,780	-	-	-	-	-	-
Itang	3,816	12	12	0.00	*	*	4
Gambella	2,366	*	*	-	489	*	*
Zone 2	17,814	101	150	0.01	916	4.07	6
Abobo	3,656	*	*	-	*	*	*
Jor	1,182	*	*	-	*	*	*
Gog	2,674	*	*	-	*	*	*
Godare	10,302	*	*	-	*	*	*

TABLE 8.17A: - Number of Holders Reporting Wheelbarrow Owned, Quantity Reported, Replacement Value and Duration of Service of Wheelbarrow, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Wheelbarrows Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Wheelbarrow (Birr)	Average Duration of Service of Wheelbarrow (Years)
Gambella Region	26,775	94	94	0.00	*	*	*
Zone 1	8,962	-	-	-	-	-	-
Jikawo	2,780	-	-	-	-	-	-
Itang	3,816	-	-	-	-	-	-
Gambella	2,366	-	-	-	-	-	-
Zone 2	17,814	94	94	0.01	*	*	*
Abobo	3,656	*	*	-	*	*	*
Jor	1,182	-	-	-	-	-	-
Gog	2,674	-	-	-	-	-	-
Godare	10,302	*	*	-	*	*	*

TABLE 8.18A: -Number of Holders Reporting Ox (Specificaly for ploughing) Owned, Quantity Reported, Replacement Value and Average age of Ox, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Oxen Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Ox (Birr)	Average Age of Ox (Years)
Gambella Region	26,775	1,215	1,878	0.07	756,855	257.41	3
Zone 1	8,962	*	*	-	*	*	*
Jikawo	2,780	-	-	-	-	-	-
Itang	3,816	-	-	-	-	-	-
Gambella	2,366	*	*	-	*	*	*
Zone 2	17,814	1,208	1,850	0.10	742,835	259.41	3
Abobo	3,656	854	1,374	0.38	533,553	233.25	2
Jor	1,182	-	-	-	-	-	-
Gog	2,674	*	*	-	*	*	*
Godare	10,302	343	454	0.04	202,719	343.91	5

TABLE 8.19A: - Number of Holders Reporting Cattle (Working Age for Threshing and Transportation) Owned, Quantity Reported, Replacement Value and Average age of Cattle, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Cattle Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Cattle (Birr)	Average Age of Cattle (Years)
Gambella Region	26,775	1,132	1,849	0.07	710,988	242.02	3
Zone 1	8,962	*	*	-	*	*	*
Jikawo	2,780	-	-	-	-	-	-
Itang	3,816	-	-	-	-	-	-
Gambella	2,366	*	*	-	*	*	*
Zone 2	17,814	1,125	1,821	0.10	696,968	243.81	3
Abobo	3,656	796	1,395	0.38	510,905	212.31	2
Jor	1,182	-	-	-	-	-	-
Gog	2,674	-	-	-	-	-	-
Godare	10,302	329	426	0.04	186,063	346.97	5

TABLE 8.20A:- Number of Holders Reporting Horse (For transportation) Owned, Quantity Reported, Replacement Value and Average age of Horse, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Horses Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Horse (Birr)	Average Age of Horse (Years)
Gambella Region	26,775	312	312	0.01	158,822	509.04	6
Zone 1	8,962	-	-	-	-	-	-
Jikawo	2,780	-	-	-	-	-	-
Itang	3,816	-	-	-	-	-	-
Gambella	2,366	-	-	-	-	-	-
Zone 2	17,814	312	312	0.02	158,822	509.04	6
Abobo	3,656	-	-	-	-	-	-
Jor	1,182	-	-	-	-	-	-
Gog	2,674	-	-	-	-	-	-
Godare	10,302	312	312	0.03	158,822	509.04	6

TABLE 8.21A:- Number of Holders Reporting 'Debignit' Owned, Quantity Reported, Replacement Value and Storage Capacity of 'Debignit', for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of 'Debignits' Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per 'Debignit' (Birr)	Average Storage Capacity of 'Debignit' (Quintal)
Gambella Region	26,775	189	246	0.01	3,579	11.66	3
Zone 1	8,962	*	*	-	*	*	*
Jikawo	2,780	*	*	-	*	*	*
Itang	3,816	4	4	0.00	75	18.75	10
Gambella	2,366	-	-	-	-	-	-
Zone 2	17,814	171	215	0.01	3,233	12.36	3
Abobo	3,656	-	-	-	-	-	-
Jor	1,182	*	*	-	*	*	*
Gog	2,674	*	*	-	*	*	*
Godare	10,302	*	*	-	*	*	*

TABLE 8.22A: - Number of Holders Reporting 'Gottera' Owned, Quantity Reported, Replacement Value and Storage Capacity of 'Gottera', for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of 'Gotteras' Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per 'Gottera' (Birr)	Average Storage Capacity of 'Gottera' (Quintal)
Gambella Region	26,775	18,233	25,848	0.97	523,634	15.01	8
Zone 1	8,962	7,377	10,658	1.19	192,507	12.90	7
Jikawo	2,780	2,655	4,735	1.70	84,124	9.93	7
Itang	3,816	3,297	4,401	1.15	66,142	11.54	7
Gambella	2,366	1,425	1,522	0.64	42,240	26.10	8
Zone 2	17,814	10,856	15,190	0.85	331,127	16.48	9
Abobo	3,656	2,408	2,707	0.74	94,105	30.18	14
Jor	1,182	1,001	1,223	1.03	42,353	28.62	8
Gog	2,674	1,740	2,232	0.83	76,741	26.90	13
Godare	10,302	5,707	9,028	0.88	117,929	8.16	6

TABLE 8. 23A - Number of Holders Reporting Modern Storage Facilities Owned, Quantity Reported, Replacement Value and Storage Capacity of Modern Storage, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Modern Storages Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Modern Storage (Birr)	Average Storage Capacity of Modern Storage (Quintal)
Gambella Region	26,775	89	89	0.00	2,585	29.04	15
Zone 1	8,962	27	27	0.00	*	*	*
Jikawo	2,780	*	*	-	*	*	*
Itang	3,816	*	*	-	*	*	*
Gambella	2,366	*	*	-	*	*	*
Zone 2	17,814	62	62	0.00	1,766	28.48	*
Abobo	3,656	*	*	-	*	*	*
Jor	1,182	-	-	-	-	-	-
Gog	2,674	26	26	0.01	843	32.43	*
Godare	10,302	*	*	-	*	*	*

STATISTICAL TABLES PRESENTING THE CENSUS RESULTS AT ZONAL AND WOREDA LEVELS

Tables 8.1B- 8.23B

Table 8.1B:- Number of Crop Holders that Owned Axe by Geographic area.

Geographic Area	Number of Crop holders that owned											
	No Axe		One Axe		Two Axes		Three Axes		Four Axes		Five and above Axes	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	8,844	33.03	15,126	56.49	2,305	8.61	362	1.35	110	0.41	28	0.10
Zone 1	3,243	36.19	4,188	46.73	1,202	13.41	230	2.57	75	0.84	24	0.27
Jikawo	497	17.88	1,406	50.58	630	22.66	159	5.72	69	2.48	19	0.68
Itang	1,763	46.20	1,641	43.00	349	9.15	58	1.52	-	-	5	0.13
Gambella	982	41.50	1,141	48.22	224	9.47	13	0.55	6	0.25	-	-
Zone 2	5,601	31.44	10,939	61.41	1,102	6.19	132	0.74	36	0.20	4	0.02
Abobo	1,009	27.60	2,344	64.11	256	7.00	43	1.18	-	-	4	0.11
Jor	269	22.76	813	68.78	100	8.46	-	-	-	-	-	-
Gog	1,329	49.70	1,199	44.84	137	5.12	9	0.34	-	-	-	-
Godare	2,995	29.07	6,582	63.89	609	5.91	80	0.78	36	0.35	-	-

Table 8.2B:- Number of Crop Holders that Owned 'Gejera' by Geographic area.

Geographic area	Number of Crop holders that owned											
	No 'Gejera'		One 'Gejera'		Two 'Gejeras'		Three 'Gejeras'		Four 'Gejeras'		Five and above 'Gejeras'	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	3,370	12.59	16,181	60.43	5,616	20.97	1,257	4.69	309	1.15	42	0.16
Zone 1	863	9.63	4,919	54.89	2,345	26.17	660	7.36	146	1.63	29	0.32
Jikawo	138	4.96	1,165	41.91	956	34.39	426	15.32	69	2.48	26	0.94
Itang	287	7.52	2,361	61.87	967	25.34	148	3.88	50	1.31	3	0.08
Gambella	438	18.51	1,393	58.88	422	17.84	86	3.63	27	1.14	-	-
Zone 2	2,506	14.07	11,262	63.22	3,272	18.37	598	3.36	164	0.92	12	0.07
Abobo	1,042	28.50	2,284	62.47	255	6.97	45	1.23	30	0.82	-	-
Jor	162	13.71	580	49.07	354	29.95	77	6.51	9	0.76	-	-
Gog	710	26.55	1,629	60.92	295	11.03	25	0.93	15	0.56	-	-
Godare	593	5.76	6,769	65.71	2,368	22.99	451	4.38	109	1.06	12	0.12

Table 8.3B:- Number of Crop Holders that Owned Shovel by Geographic area

Geographic area	Number of Crop holders that owned											
	No Shovel		One Shovel		Two Shovels		Three Shovels		Four Shovels		Five and above Shovels	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	23,908	89.29	2,714	10.14	139	0.52	11	0.04	-	-	3	0.01
Zone 1	8,376	93.46	468	5.22	104	1.16	11	0.12	-	-	3	0.03
Jikawo	2,711	97.52	30	1.08	39	1.40	-	-	-	-	-	-
Itang	3,567	93.47	202	5.29	39	1.02	5	0.13	-	-	3	0.08
Gambella	2,098	88.67	236	9.97	26	1.10	6	0.25	-	-	-	-
Zone 2	15,534	87.20	2,246	12.61	34	0.19	-	-	-	-	-	-
Abobo	3,225	88.21	427	11.68	4	0.11	-	-	-	-	-	-
Jor	1,114	94.25	57	4.82	11	0.93	-	-	-	-	-	-
Gog	2,468	92.30	197	7.37	9	0.34	-	-	-	-	-	-
Godare	8,727	84.71	1,565	15.19	10	0.10	-	-	-	-	-	-

Table 8.4B:- Number of Crop Holders that Owned Hoe by Geographic area

Geographic area	Number of Crop holders that owned											
	No Hoe		One Hoe		Two Hoes		Three Hoes		Four Hoes		Five and above Hoes	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	8,768	32.75	11,764	43.94	4,184	15.63	1,319	4.93	572	2.14	168	0.63
Zone 1	561	6.26	4,367	48.73	2,544	28.39	915	10.21	444	4.95	131	1.46
Jikawo	45	1.62	944	33.96	964	34.68	458	16.47	303	10.90	66	2.37
Itang	169	4.43	2,200	57.65	980	25.68	345	9.04	84	2.20	38	1.00
Gambella	346	14.62	1,223	51.69	600	25.36	113	4.78	57	2.41	27	1.14
Zone 2	8,208	46.08	7,397	41.52	1,640	9.21	404	2.27	128	0.72	37	0.21
Abobo	1,303	35.64	1,816	49.67	376	10.28	128	3.50	27	0.74	6	0.16
Jor	28	2.37	422	35.70	505	42.72	160	13.54	56	4.74	11	0.93
Gog	238	8.90	1,648	61.63	625	23.37	100	3.74	44	1.65	19	0.71
Godare	6,640	64.45	3,512	34.09	134	1.30	16	0.16	-	-	-	-

Table 8.5B: - Number of Crop Holders that Owned 'Mekeskesha' by Geographic area

Geographic area	Number of Crop holders that owned											
	No 'Mekeskesha'		One 'Mekeskesha'		Two 'Mekeskeshas'		Three 'Mekeskeshas'		Four 'Mekeskeshas'		Five and above 'Mekeskeshas'	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	26,593	99.32	153	0.57	19	0.07	5	0.02	5	0.02	-	-
Zone 1	8,940	99.75	14	0.16	8	0.09	-	-	-	-	-	-
Jikawo	2,780	100.00	-	-	-	-	-	-	-	-	-	-
Itang	3,813	99.92	3	0.08	-	-	-	-	-	-	-	-
Gambella	2,347	99.20	11	0.46	8	0.34	-	-	-	-	-	-
Zone 2	17,654	99.10	139	0.78	11	0.06	5	0.03	5	0.03	-	-
Abobo	3,496	95.62	139	3.80	11	0.30	5	0.14	5	0.14	-	-
Jor	1,182	100.00	-	-	-	-	-	-	-	-	-	-
Gog	2,674	100.00	-	-	-	-	-	-	-	-	-	-
Godare	10,302	100.00	-	-	-	-	-	-	-	-	-	-

Table 8.6B:- Number of Crop Holders that Owned Pick-Axe by Geographic area

Geographic area	Number of Crop holders that owned											
	No Pick-Axe		One Pick-Axe		Two Pick-Axes		Three Pick-Axes		Four Pick-Axes		Five and above Pick-Axes	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	25,134	93.87	1,469	5.49	106	0.40	37	0.14	29	0.11	-	-
Zone 1	8,643	96.44	199	2.22	68	0.76	23	0.26	29	0.32	-	-
Jikawo	2,606	93.74	78	2.81	48	1.73	19	0.68	29	1.04	-	-
Itang	3,764	98.64	32	0.84	20	0.52	-	-	-	-	-	-
Gambella	2,273	96.07	89	3.76	-	-	4	0.17	-	-	-	-
Zone 2	16,494	92.59	1,269	7.12	37	0.21	14	0.08	-	-	-	-
Abobo	3,506	95.90	150	4.10	-	-	-	-	-	-	-	-
Jor	1,144	96.79	38	3.21	-	-	-	-	-	-	-	-
Gog	2,563	95.85	111	4.15	-	-	-	-	-	-	-	-
Godare	9,281	90.09	970	9.42	37	0.36	14	0.14	-	-	-	-

Table 8.7B: - Number of Crop Holders that Owned 'Deger' by Geographic area

Geographic area	Number of Crop holders that owned											
	No 'Deger'		One 'Deger'		Two 'Degers'		Three 'Degers'		Four 'Degers'		Five and above 'Degers'	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	25,557	95.45	1,003	3.75	153	0.57	18	0.07	44	0.16	-	-
Zone 1	8,955	99.92	-	-	-	-	-	-	7	0.08	-	-
Jikawo	2,780	100.00	-	-	-	-	-	-	-	-	-	-
Itang	3,816	100.00	-	-	-	-	-	-	-	-	-	-
Gambella	2,359	99.70	-	-	-	-	-	-	7	0.30	-	-
Zone 2	16,603	93.20	1,003	5.63	153	0.86	18	0.10	37	0.21	-	-
Abobo	2,827	77.32	647	17.70	141	3.86	4	0.11	37	1.01	-	-
Jor	1,182	100.00	-	-	-	-	-	-	-	-	-	-
Gog	2,663	99.59	11	0.41	-	-	-	-	-	-	-	-
Godare	9,931	96.40	345	3.35	12	0.12	14	0.14	-	-	-	-

Table 8.8B:- Number of Crop Holders that Owned 'Erfe' by Geographic area.

Geographic area	Number of Crop holders that owned											
	No 'Erfe'		One 'Erfe'		Two 'Erfes'		Three 'Erfes'		Four 'Erfes'		Five and above 'Erfes'	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	25,573	95.51	997	3.72	179	0.67	8	0.03	14	0.05	4	0.01
Zone 1	8,955	99.92	-	-	7	0.08	-	-	-	-	-	-
Jikawo	2,780	100.00	-	-	-	-	-	-	-	-	-	-
Itang	3,816	100.00	-	-	-	-	-	-	-	-	-	-
Gambella	2,359	99.70	-	-	7	0.30	-	-	-	-	-	-
Zone 2	16,619	93.29	997	5.60	172	0.97	8	0.04	14	0.08	4	0.02
Abobo	2,843	77.76	684	18.71	117	3.20	8	0.22	-	-	4	0.11
Jor	1,182	100.00	-	-	-	-	-	-	-	-	-	-
Gog	2,663	99.59	-	-	11	0.41	-	-	-	-	-	-
Godare	9,931	96.40	313	3.04	44	0.43	-	-	14	0.14	-	-

Table 8.9B:- Number of Crop Holders that Owned Plough-Beam by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Plough-Beam		One Plough-Beam		Two Plough-Beams		Three Plough-Beams		Four Plough-Beams		Five and above Plough-Beams	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	25,516	95.30	1,074	4.01	135	0.50	24	0.09	-	-	26	0.10
Zone 1	8,955	99.92	-	-	7	0.08	-	-	-	-	-	-
Jikawo	2,780	100.00	-	-	-	-	-	-	-	-	-	-
Itang	3,816	100.00	-	-	-	-	-	-	-	-	-	-
Gambella	2,359	99.70	-	-	7	0.30	-	-	-	-	-	-
Zone 2	16,562	92.97	1,074	6.03	128	0.72	24	0.13	-	-	26	0.15
Abobo	2,822	77.19	721	19.72	96	2.63	13	0.36	-	-	4	0.11
Jor	1,182	100.00	-	-	-	-	-	-	-	-	-	-
Gog	2,663	99.59	-	-	-	-	11	0.41	-	-	-	-
Godare	9,894	96.04	354	3.44	32	0.31	-	-	-	-	22	0.21

Table 8.10B:- Number of Crop Holders that Owned Plough-Tip by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Plough-Tip		One Plough-Tip		Two Plough-Tips		Three Plough-Tips		Four Plough-Tips		Five and above Plough-Tips	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	25,564	95.48	1,127	4.21	65	0.24	8	0.03	11	0.04	-	-
Zone 1	8,955	99.92	-	-	7	0.08	-	-	-	-	-	-
Jikawo	2,780	100.00	-	-	-	-	-	-	-	-	-	-
Itang	3,816	100.00	-	-	-	-	-	-	-	-	-	-
Gambella	2,359	99.70	-	-	7	0.30	-	-	-	-	-	-
Zone 2	16,610	93.24	1,127	6.33	58	0.33	8	0.04	11	0.06	-	-
Abobo	2,834	77.52	756	20.68	58	1.59	8	0.22	-	-	-	-
Jor	1,182	100.00	-	-	-	-	-	-	-	-	-	-
Gog	2,663	99.59	-	-	-	-	-	-	11	0.41	-	-
Godare	9,931	96.40	371	3.60	-	-	-	-	-	-	-	-

Table 8.11B:- Number of Crop Holders that Owned 'wegel'-Tip by Geographic area.

Geographic area	Number of Crop holders that owned											
	No 'wegel'-Tip		One 'wegel'-Tip		Two 'wegel'-Tips		Three 'wegel'-Tips		Four 'wegel'-Tips		Five and above 'wegel'-Tips	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	25,570	95.50	1,130	4.22	60	0.22	4	0.01	-	-	11	0.04
Zone 1	8,955	99.92	-	-	7	0.08	-	-	-	-	-	-
Jikawo	2,780	100.00	-	-	-	-	-	-	-	-	-	-
Itang	3,816	100.00	-	-	-	-	-	-	-	-	-	-
Gambella	2,359	99.70	-	-	7	0.30	-	-	-	-	-	-
Zone 2	16,616	93.27	1,130	6.34	53	0.30	4	0.02	-	-	11	0.06
Abobo	2,829	77.38	770	21.06	53	1.45	4	0.11	-	-	-	-
Jor	1,182	100.00	-	-	-	-	-	-	-	-	-	-
Gog	2,663	99.59	-	-	-	-	-	-	-	-	11	0.41
Godare	9,943	96.52	359	3.48	-	-	-	-	-	-	-	-

Table 8.12B:- Number of Crop Holders that Owned Yoke by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Yoke		One Yoke		Two Yokes		Three Yokes		Four Yokes		Five and above Yokes	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	25,541	95.39	1,112	4.15	118	0.44	4	0.01	-	-	-	-
Zone 1	8,955	99.92	-	-	7	0.08	-	-	-	-	-	-
Jikawo	2,780	100.00	-	-	-	-	-	-	-	-	-	-
Itang	3,816	100.00	-	-	-	-	-	-	-	-	-	-
Gambella	2,359	99.70	-	-	7	0.30	-	-	-	-	-	-
Zone 2	16,587	93.11	1,112	6.24	111	0.62	4	0.02	-	-	-	-
Abobo	2,800	76.59	766	20.95	86	2.35	4	0.11	-	-	-	-
Jor	1,182	100.00	-	-	-	-	-	-	-	-	-	-
Gog	2,663	99.59	-	-	11	0.41	-	-	-	-	-	-
Godare	9,943	96.52	345	3.35	14	0.14	-	-	-	-	-	-

Table 8.13B:- Number of Crop Holders that Owned Sickle by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Sickle		One Sickle		Two Sickles		Three Sickles		Four Sickles		Five and above Sickles	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	14,484	54.10	9,080	33.91	2,572	9.61	449	1.68	161	0.60	29	0.11
Zone 1	3,083	34.40	4,113	45.89	1,318	14.71	293	3.27	126	1.41	29	0.32
Jikawo	631	22.70	1,186	42.66	615	22.12	227	8.17	103	3.71	18	0.65
Itang	1,585	41.54	1,753	45.94	420	11.01	45	1.18	10	0.26	3	0.08
Gambella	866	36.60	1,174	49.62	283	11.96	22	0.93	12	0.51	9	0.38
Zone 2	11,401	64.00	4,968	27.89	1,253	7.03	157	0.88	35	0.20	-	-
Abobo	1,589	43.46	1,575	43.08	394	10.78	75	2.05	23	0.63	-	-
Jor	717	60.66	362	30.63	92	7.78	11	0.93	-	-	-	-
Gog	1,619	60.55	901	33.69	139	5.20	15	0.56	-	-	-	-
Godare	7,475	72.56	2,131	20.69	629	6.11	55	0.53	12	0.12	-	-

Table 8.14B:- Number of Crop Holders that Owned Hay-Fork (wood) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Hay-Fork (wood)		One Hay-Fork (wood)		Two Hay-Forks (wood)		Three Hay-Forks (wood)		Four Hay-Forks (wood)		Five and above Hay-Forks (wood)	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	26,720	99.79	19	0.07	32	0.12	4	0.01	-	-	-	-
Zone 1	8,962	100.00	-	-	-	-	-	-	-	-	-	-
Jikawo	2,780	100.00	-	-	-	-	-	-	-	-	-	-
Itang	3,816	100.00	-	-	-	-	-	-	-	-	-	-
Gambella	2,366	100.00	-	-	-	-	-	-	-	-	-	-
Zone 2	17,759	99.69	19	0.11	32	0.18	4	0.02	-	-	-	-
Abobo	3,643	99.64	5	0.14	4	0.11	4	0.11	-	-	-	-
Jor	1,182	100.00	-	-	-	-	-	-	-	-	-	-
Gog	2,674	100.00	-	-	-	-	-	-	-	-	-	-
Godare	10,260	99.59	14	0.14	28	0.27	-	-	-	-	-	-

Table 8.15B:- Number of Crop Holders that Owned Threshing Stick by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Threshing Stick		One Threshing Stick		Two Threshing Sticks		Three Threshing Sticks		Four Threshing Sticks		Five and above Threshing Sticks	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	23,644	88.31	2,130	7.96	840	3.14	141	0.53	-	-	20	0.07
Zone 1	8,878	99.06	42	0.47	42	0.47	-	-	-	-	-	-
Jikawo	2,780	100.00	-	-	-	-	-	-	-	-	-	-
Itang	3,816	100.00	-	-	-	-	-	-	-	-	-	-
Gambella	2,282	96.45	42	1.78	42	1.78	-	-	-	-	-	-
Zone 2	14,767	82.90	2,088	11.72	798	4.48	141	0.79	-	-	20	0.11
Abobo	3,302	90.32	290	7.93	54	1.48	5	0.14	-	-	5	0.14
Jor	450	38.07	708	59.90	24	2.03	-	-	-	-	-	-
Gog	2,674	100.00	-	-	-	-	-	-	-	-	-	-
Godare	8,341	80.96	1,090	10.58	720	6.99	136	1.32	-	-	15	0.15

Table 8.16B:- Number of Crop Holders that Owned Sprayer (hand operated) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Sprayer		One Sprayer		Two Sprayers		Three Sprayers		Four Sprayers		Five and above Sprayers	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	26,612	99.39	140	0.52	14	0.05	-	-	-	-	9	0.03
Zone 1	8,901	99.32	61	0.68	-	-	-	-	-	-	-	-
Jikawo	2,780	100.00	-	-	-	-	-	-	-	-	-	-
Itang	3,804	99.69	12	0.31	-	-	-	-	-	-	-	-
Gambella	2,317	97.93	49	2.07	-	-	-	-	-	-	-	-
Zone 2	17,713	99.43	78	0.44	14	0.08	-	-	-	-	9	0.05
Abobo	3,632	99.34	19	0.52	5	0.14	-	-	-	-	-	-
Jor	1,166	98.65	16	1.35	-	-	-	-	-	-	-	-
Gog	2,647	98.99	9	0.34	9	0.34	-	-	-	-	9	0.34
Godare	10,269	99.68	33	0.32	-	-	-	-	-	-	-	-

Table 8.17B:- Number of Crop Holders that Owned Wheelbarrow by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Wheelbarrow		One Wheelbarrow		Two Wheelbarrows		Three Wheelbarrows		Four Wheelbarrows		Five and above Wheelbarrows	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	26,681	99.65	94	0.35	-	-	-	-	-	-	-	-
Zone 1	8,962	100.00	-	-	-	-	-	-	-	-	-	-
Jikawo	2,780	100.00	-	-	-	-	-	-	-	-	-	-
Itang	3,816	100.00	-	-	-	-	-	-	-	-	-	-
Gambella	2,366	100.00	-	-	-	-	-	-	-	-	-	-
Zone 2	17,720	99.47	94	0.53	-	-	-	-	-	-	-	-
Abobo	3,590	98.19	66	1.81	-	-	-	-	-	-	-	-
Jor	1,182	100.00	-	-	-	-	-	-	-	-	-	-
Gog	2,674	100.00	-	-	-	-	-	-	-	-	-	-
Godare	10,275	99.74	27	0.26	-	-	-	-	-	-	-	-

Table 8.18B:- Number of Crop Holders that Owned Ox (Specifically for ploughing) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Ox		One Ox		Two Oxen		Three Oxen		Four Oxen		Five and above Oxen	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	25,561	95.47	673	2.51	476	1.78	24	0.09	29	0.11	12	0.04
Zone 1	8,955	99.92	-	-	-	-	-	-	7	0.08	-	-
Jikawo	2,780	100.00	-	-	-	-	-	-	-	-	-	-
Itang	3,816	100.00	-	-	-	-	-	-	-	-	-	-
Gambella	2,359	99.70	-	-	-	-	-	-	7	0.30	-	-
Zone 2	16,607	93.22	673	3.78	476	2.67	24	0.13	22	0.12	12	0.07
Abobo	2,802	76.64	442	12.09	354	9.68	24	0.66	22	0.60	12	0.33
Jor	1,182	100.00	-	-	-	-	-	-	-	-	-	-
Gog	2,663	99.59	-	-	11	0.41	-	-	-	-	-	-
Godare	9,960	96.68	231	2.24	111	1.08	-	-	-	-	-	-

Table 8.19B:- Number of Crop Holders that Owned Cattle (For threshing or transportation) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Cattle		One Cattle		Two Cattle		Three Cattle		Four Cattle		Five and above Cattle	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	25,643	95.77	615	2.30	443	1.65	29	0.11	29	0.11	16	0.06
Zone 1	8,955	99.92	-	-	-	-	-	-	7	0.08	-	-
Jikawo	2,780	100.00	-	-	-	-	-	-	-	-	-	-
Itang	3,816	100.00	-	-	-	-	-	-	-	-	-	-
Gambella	2,359	99.70	-	-	-	-	-	-	7	0.30	-	-
Zone 2	16,689	93.68	615	3.45	443	2.49	29	0.16	22	0.12	16	0.09
Abobo	2,860	78.23	383	10.48	346	9.46	29	0.79	22	0.60	16	0.44
Jor	1,182	100.00	-	-	-	-	-	-	-	-	-	-
Gog	2,674	100.00	-	-	-	-	-	-	-	-	-	-
Godare	9,974	96.82	231	2.24	97	0.94	-	-	-	-	-	-

Table 8.20B:- Number of Crop Holders that Owned Horse (For threshing or transportation) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Horse		One Horse		Two Horses		Three Horses		Four Horses		Five and above Horses	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	26,463	98.83	312	1.17	-	-	-	-	-	-	-	-
Zone 1	8,962	100.00	-	-	-	-	-	-	-	-	-	-
Jikawo	2,780	100.00	-	-	-	-	-	-	-	-	-	-
Itang	3,816	100.00	-	-	-	-	-	-	-	-	-	-
Gambella	2,366	100.00	-	-	-	-	-	-	-	-	-	-
Zone 2	17,502	98.25	312	1.75	-	-	-	-	-	-	-	-
Abobo	3,656	100.00	-	-	-	-	-	-	-	-	-	-
Jor	1,182	100.00	-	-	-	-	-	-	-	-	-	-
Gog	2,674	100.00	-	-	-	-	-	-	-	-	-	-
Godare	9,990	96.97	312	3.03	-	-	-	-	-	-	-	-

Table 8.21B:- Number of Crop Holders that Owned Local Storage 'Debignit' by Geographic area.

Geographic area	Number of Crop holders that owned											
	No 'Debignit'		One 'Debignit'		Two 'Debignits'		Three 'Debignits'		Four 'Debignits'		Five and above 'Debignits'	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	26,586	99.29	132	0.49	57	0.21	-	-	-	-	-	-
Zone 1	8,944	99.80	4	0.04	14	0.16	-	-	-	-	-	-
Jikawo	2,766	99.50	-	-	14	0.50	-	-	-	-	-	-
Itang	3,812	99.90	4	0.10	-	-	-	-	-	-	-	-
Gambella	2,366	100.00	-	-	-	-	-	-	-	-	-	-
Zone 2	17,643	99.04	128	0.72	43	0.24	-	-	-	-	-	-
Abobo	3,656	100.00	-	-	-	-	-	-	-	-	-	-
Jor	1,103	93.32	50	4.23	29	2.45	-	-	-	-	-	-
Gog	2,667	99.74	7	0.26	-	-	-	-	-	-	-	-
Godare	10,217	99.17	71	0.69	14	0.14	-	-	-	-	-	-

Table 8.22B:- Number of Crop Holders that Owned Local Storage 'Gottera' by Geographic area.

Geographic area	Number of Crop holders that owned											
	No 'Gottera'		One 'Gottera'		Two 'Gudguads'		Three 'Gudguads'		Four 'Gudguads'		Five and above 'Gudguads'	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	8,542	31.90	12,568	46.94	4,199	15.68	1,062	3.97	358	1.34	46	0.17
Zone 1	1,586	17.70	4,906	54.74	1,874	20.91	444	4.95	122	1.36	30	0.33
Jikawo	125	4.50	1,164	41.87	1,050	37.77	321	11.55	101	3.63	19	0.68
Itang	520	13.63	2,408	63.10	739	19.37	118	3.09	21	0.55	10	0.26
Gambella	941	39.77	1,334	56.38	85	3.59	6	0.25	-	-	-	-
Zone 2	6,959	39.06	7,661	43.01	2,325	13.05	617	3.46	236	1.32	16	0.09
Abobo	1,248	34.14	2,135	58.40	247	6.76	26	0.71	-	-	-	-
Jor	182	15.40	783	66.24	213	18.02	4	0.34	-	-	-	-
Gog	934	34.93	1,333	49.85	348	13.01	32	1.20	27	1.01	-	-
Godare	4,595	44.60	3,409	33.09	1,517	14.73	555	5.39	210	2.04	16	0.16

Table 8.23B:- Number of Crop Holders that Owned Modern Storage by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Modern Storage		One Modern Storage		Two Modern Storages		Three Modern Storages		Four Modern Storages		Five and above Modern Storages	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Gambella Region	26,686	99.67	89	0.33	-	-	-	-	-	-	-	-
Zone 1	8,935	99.70	27	0.30	-	-	-	-	-	-	-	-
Jikawo	2,769	99.60	11	0.40	-	-	-	-	-	-	-	-
Itang	3,805	99.71	11	0.29	-	-	-	-	-	-	-	-
Gambella	2,361	99.79	5	0.21	-	-	-	-	-	-	-	-
Zone 2	17,752	99.65	62	0.35	-	-	-	-	-	-	-	-
Abobo	3,633	99.37	23	0.63	-	-	-	-	-	-	-	-
Jor	1,182	100.00	-	-	-	-	-	-	-	-	-	-
Gog	2,648	99.03	26	0.97	-	-	-	-	-	-	-	-
Godare	10,288	99.86	14	0.14	-	-	-	-	-	-	-	-

ANNEX TABLE PRESENTING ESTIMATES, STANDARD ERRORS AND COEFFICIENTS OF VARIATION FOR SELECTED FARM IMPLEMENT VARIABLES

Annex Tables 8.1-8.3

ANNEX TABLE 8.1: - Standard Errors and Coefficient of Variation For the Number of Holders Reporting, Quantity Reported and Total Value, for Private Holdings, Regional

Implements, Equipment, Farm animals and Storage facilities	Number of Holders			Number of Implements, Equipment, Farm animals and Storages			Total Value		
	Reporting	S.E	C.V	Reported	S.E	C.V	(Birr)	S.E	C.V
Used for Clearing Land									
Axes	17,932	617.94	3.45	21,575	905.63	4.20	346,336	1,436,437.15	4.15
'Gejeras'	23,406	685.11	2.93	32,632	1,113.68	3.41	629,730	3,113,437.52	4.94
Shovels	2,856	245.07	8.58	3,029	256.33	8.46	38,939	371,343.32	9.54
Used for Cultivation									
Hoes	17,999	658.79	3.66	27,316	1,216.87	4.45	189,871	922,828.54	4.86
'Mekeskeshas'	182	51.15	28.07	226	63.24	27.92	1,047	32,775.05	31.31
Pick Axes	1,640	267.54	16.31	1,907	363.09	19.04	27,540	604,891.76	21.96
Tractors	-	-	-	-	-	-	-	-	-
Parts for traditional Plough									
'Degers'	1,217	203.43	16.71	1,537	259.68	16.89	5,406	87,392.08	16.16
'Erfes' (Handle)	1,197	201.20	16.81	1,449	250.52	17.28	2,530	39,962.75	15.79
Plough-Beams.	1,260	216.32	17.17	1,656	341.38	20.61	13,744	229,298.26	16.68
Plough -Tips (Metal)	1,211	201.64	16.65	1,324	218.85	16.53	23,998	412,358.73	17.18
'Wegel' -Tips	1,205	205.05	17.02	1,327	222.69	16.78	7,944	132,831.77	16.72
Yokes	1,234	205.29	16.64	1,359	225.48	16.59	8,193	132,603.65	16.18
Used for Harvesting									
Sickles	12,291	591.54	4.81	16,369	975.93	5.96	140,517	897,898.43	6.39
Used for Threshing									
Hay-Forks (Metal)	*	*	*	*	*	*	*	*	*
Hay-Forks (Wood)	55	23.31	42.35	95	42.63	44.70	*	*	*
Threshing Sticks	3,132	459.41	14.67	4,376	661.97	15.13	4,331	84,964.20	19.62
Winnowers (Metal)	-	-	-	-	-	-	-	-	-
Winnowers (Wood)	*	*	*	*	*	*	*	*	*
Other Farm Equipment									
Carts (Hauling)	*	*	*	*	*	*	*	*	*
Sprayers (Hand Operated)	162	43.79	27.00	211	64.33	30.48	1,503	42,431.10	28.24
Sprayers (Power Operated)	-	-	-	-	-	-	-	-	-
Tying Tools	-	-	-	-	-	-	-	-	-
Wheelbarrows	94	45.00	48.05	94	45.00	48.05	*	*	*
Animals Used for Ploughing									
Asses	-	-	-	-	-	-	-	-	-
Camels	-	-	-	-	-	-	-	-	-
Horses	-	-	-	-	-	-	-	-	-
Mules	-	-	-	-	-	-	-	-	-
Oxen	1,215	204.77	16.86	1,878	315.19	16.78	756,855	13,408,510.32	17.72
AnimalsUsed for Threshing or Transportation									
Asses	*	*	*	*	*	*	*	*	*
Camels	-	-	-	-	-	-	-	-	-
Cattle	1,132	195.41	17.26	1,849	307.53	16.63	710,988	12,619,191.42	17.75
Horses	312	109.93	35.21	312	109.93	35.21	158,822	5,288,131.76	33.30
Mules	-	-	-	-	-	-	-	-	-
Storage Structure									
'Debignits'	189	68.98	36.56	246	89.10	36.28	3,579	155,845.83	43.54
'Gotteras'	18,233	770.10	4.22	25,848	1,368.72	5.30	523,634	2,682,207.70	5.12
'Gudguads'	*	*	*	*	*	*	*	*	*
Modern Storages	89	26.00	29.15	89	26.00	29.15	2,585	78,279.49	30.29

ANNEX TABLE 8.2:- Standard Errors and Coefficient of Variation For the Number of Holders Reporting, Quantity Reported and Total Value, for Private Holdings, Zone 1.

Implements, Equipment, Farm animals and Storage facilities	Number of Holders			Number of Implements, Equipment, Farm animals and Storages			Total Value		
	Reporting	S.E	C.V	Reported	S.E	C.V	(Birr)	S.E	C.V
Used for Clearing Land									
Axes	5,719	326.11	5.70	7,873	658.13	8.36	86,436	722,527.31	8.36
'Gejeras'	8,098	348.12	4.30	12,317	714.37	5.80	109,327	745,581.74	6.82
Shovels	576	88.63	15.39	714	111.47	15.62	7,490	123,431.68	16.48
Used for Cultivation									
Hoes	8,397	342.45	4.08	14,704	965.47	6.57	97,175	610,557.04	6.28
'Mekeskeshas'	*	*	*	*	*	*	*	*	*
Pick Axes	320	131.43	41.09	*	*	*	5,066	251,170.07	49.58
Tractors	-	-	-	-	-	-	-	-	-
Parts for traditional Plough									
'Degers'	*	*	*	*	*	*	*	*	*
'Erfes' (Handle)	*	*	*	*	*	*	*	*	*
Plough-Beams.	*	*	*	*	*	*	*	*	*
Plough -Tips (Metal)	*	*	*	*	*	*	*	*	*
'Wegel' -Tips	*	*	*	*	*	*	*	*	*
Yokes	*	*	*	*	*	*	*	*	*
Used for Harvesting									
Sickles	5,879	329.97	5.61	8,286	713.29	8.61	66,351	606,306.49	9.14
Used for Threshing									
Hay-Forks (Metal)	*	*	*	*	*	*	*	*	*
Hay-Forks (Wood)	-	-	-	-	-	-	-	-	-
Threshing Sticks	*	*	*	*	*	*	*	*	*
Winnowers (Metal)	-	-	-	-	-	-	-	-	-
Winnowers (Wood)	-	-	-	-	-	-	-	-	-
Other Farm Equipment									
Carts (Hauling)	-	-	-	-	-	-	-	-	-
Sprayers (Hand Operated)	61	26.67	43.39	61	26.67	43.39	587	24,459.82	41.67
Sprayers (Power Operated)	-	-	-	-	-	-	-	-	-
Tying Tools	-	-	-	-	-	-	-	-	-
Wheelbarrows	-	-	-	-	-	-	-	-	-
Animals Used for Ploughing									
Asses	-	-	-	-	-	-	-	-	-
Camels	-	-	-	-	-	-	-	-	-
Horses	-	-	-	-	-	-	-	-	-
Mules	-	-	-	-	-	-	-	-	-
Oxen	*	*	*	*	*	*	*	*	*
AnimalsUsed for Threshing or Transportation									
Asses	-	-	-	-	-	-	-	-	-
Camels	-	-	-	-	-	-	-	-	-
Cattle	*	*	*	*	*	*	*	*	*
Horses	-	-	-	-	-	-	-	-	-
Mules	-	-	-	-	-	-	-	-	-
Storage Structure									
'Debignits'	*	*	*	*	*	*	*	*	*
'Gotteras'	7,377	363.55	4.93	10,658	696.74	6.54	192,507	1,552,172.28	8.06
'Gudguads'	*	*	*	*	*	*	*	*	*
Modern Storages	27	12.90	48.30	27	12.90	48.30	*	*	*

ANNEX TABLE 8.3:- Standard Errors and Coefficient of Variation For the Number of Holders Reporting, Quantity Reported and Total Value, for Private Holdings, Zone 2.

Implements, Equipment, Farm animals and Storage facilities	Number of Holders			Number of Implements, Equipment, Farm animals and Storages			Total Value		
	Reporting	S.E	C.V	Reported	S.E	C.V	(Birr)	S.E	C.V
Used for Clearing Land									
Axes	12,212	524.88	4.30	13,702	622.12	4.54	259,900	1,241,493.44	4.78
'Gejeras'	15,308	590.08	3.85	20,316	854.38	4.21	520,403	3,022,846.51	5.81
Shovels	2,280	228.48	10.02	2,315	230.83	9.97	31,449	350,229.18	11.14
Used for Cultivation									
Hoes	9,602	562.79	5.86	12,613	740.71	5.87	92,696	691,977.32	7.46
'Mekeskeshas'	160	49.31	30.75	197	59.90	30.44	698	22,936.09	32.85
Pick Axes	1,321	233.03	17.65	1,386	252.64	18.23	22,474	550,279.60	24.48
Tractors	-	-	-	-	-	-	-	-	-
Parts for traditional Plough									
'Degers'	1,210	203.28	16.80	1,509	257.82	17.08	5,350	87,171.38	16.29
'Erfes' (Handle)	1,190	201.06	16.90	1,435	250.04	17.42	2,460	39,202.34	15.93
Plough-Beams.	1,253	216.18	17.26	1,642	341.03	20.77	13,576	228,540.93	16.83
Plough -Tips (Metal)	1,204	201.49	16.74	1,310	218.30	16.66	23,858	412,066.66	17.27
'Wegel' -Tips	1,198	204.91	17.11	1,313	222.15	16.92	7,846	132,386.90	16.87
Yokes	1,227	205.14	16.73	1,345	224.94	16.72	8,053	131,692.58	16.35
Used for Harvesting									
Sickles	6,412	490.95	7.66	8,083	666.08	8.24	74,166	662,279.43	8.93
Used for Threshing									
Hay-Forks (Metal)	*	*	*	*	*	*	*	*	*
Hay-Forks (Wood)	55	23.31	42.35	95	42.63	44.70	*	*	*
Threshing Sticks	3,048	454.73	14.92	4,250	654.64	15.40	4,205	84,393.83	20.07
Winnowers (Metal)	-	-	-	-	-	-	-	-	-
Winnowers (Wood)	*	*	*	*	*	*	*	*	*
Other Farm Equipment									
Carts (Hauling)	*	*	*	*	*	*	*	*	*
Sprayers (Hand Operated)	101	34.73	34.48	150	58.54	39.13	916	34,671.53	37.87
Sprayers (Power Operated)	-	-	-	-	-	-	-	-	-
Tying Tools	-	-	-	-	-	-	-	-	-
Wheelbarrows	94	45.00	48.05	94	45.00	48.05	*	*	*
Animals Used for Ploughing									
Asses	-	-	-	-	-	-	-	-	-
Camels	-	-	-	-	-	-	-	-	-
Horses	-	-	-	-	-	-	-	-	-
Mules	-	-	-	-	-	-	-	-	-
Oxen	1,208	204.63	16.95	1,850	313.65	16.95	742,835	13,318,417.25	17.93
AnimalsUsed for Threshing									
Asses	*	*	*	*	*	*	*	*	*
Camels	-	-	-	-	-	-	-	-	-
Cattle	1,125	195.25	17.36	1,821	305.96	16.80	696,968	12,523,421.30	17.97
Horses	312	109.93	35.21	312	109.93	35.21	158,822	5,288,131.76	33.30
Mules	-	-	-	-	-	-	-	-	-
Storage Structure									
'Debignits'	171	67.52	39.40	215	84.52	39.36	3,233	153,260.84	47.41
'Gotteras'	10,856	678.89	6.25	15,190	1,178.11	7.76	331,127	2,187,464.13	6.61
'Gudguads'	*	*	*	*	*	*	*	*	*
Modern Storages	62	22.57	36.12	62	22.57	36.12	1,766	60,140.51	34.06

APPENDIXES

APPENDI X I - Estimation Procedures of Totals , Ratios and Sampling Errors

APPENDIX II - Number of EAs and Agricultural Households Sampled and Covered by Wereda

APPENDIX III - Census Questionnaires

APPENDIX I:

Estimation Procedures of Totals, Ratios and Sampling Errors

The following formulas were used to estimate total land under specific crop, production and yield of specific crop, and totals (for other variables) in a stratum (Wereda).

1. Estimation of Total Area of Land under Specific Crop:

$$\hat{A}_h = \sum_{i=1}^{n_h} W_{hi} a_{hi}$$

in which, $W_{hi} = \frac{M_h H_{hi}}{n_h m_{hi} h_{hi}}$ is the basic weight

Where:

h represents the stratum

n_h is the total number of sample EAs successfully covered in the h^{th} stratum.

M_h is the measure of size of the h^{th} stratum as obtained from the sampling frame.

m_{hi} is the measure of size of the i^{th} sample EA in the h^{th} stratum obtained from the sampling frame.

H_{hi} is the total number of agricultural households of the i^{th} sample EA in the h^{th} stratum.

h_{hi} is number of sample agricultural households successfully covered in the i^{th} sample EA in the h^{th} stratum.

a_{hi} is the sample total of values of area in the i^{th} EA in the h^{th} stratum under a specific crop.

$\hat{A}_h$ is estimate of total area under specific crop in the h^{th} stratum.

2. Estimation of Total Production:

$$\hat{P}_h = \sum_{i=1}^{n_h} W_{hi} P_{hi}$$

in which, $P_{hi} = a_{hi} * \bar{Y}_{hi}$

Where, $\bar{Y}_{hi}$ is average yield per square meter of a specific crop in the i^{th} EA in the h^{th} stratum as defined in the table below for different crops.

Crop	Formula for $\overline{Y}_{hi}$
Cereals, pulses, oilseeds, chat and coffee	$\overline{Y}_{hi}=\frac{Y_{hi}}{16C_{hi}}$
Pineapple	$\overline{Y}_{hi}=\frac{Y_{hi}}{4C_{hi}}$
Root-crops and vegetables (broadcast type), and sugar cane	$\overline{Y}_{hi}=\frac{Y_{hi}}{C_{hi}}$
Root-crops and vegetables (row type)	$\overline{Y}_{hi}=\frac{Y_{hi}}{d_{hi}*C_{hi}}$
Other permanent crops	$\overline{Y}_{hi}=\frac{Y_{hi}}{b_{hi}*C_{hi}}$

Where, d_{hi} is average sample area of root crop or vegetable (row type) used for crop-cutting in the i^{th} EA in the h^{th} stratum, or $d_{hi}=\frac{r}{n-1}$

r is distance measured from Row 1 to Row n in meter.

n is number of rows ($2 \le n \le 5$).

b_{hi} is average area of a fruit bearing tree in the i^{th} EA in the h^{th} stratum.

Y_{hi} is sampled total of production of a specific crop from defined area of land for crop cutting of crop in the i^{th} EA in the h^{th} stratum.

C_{hi} is number of crop cutting of a specific crop in the i^{th} EA in the h^{th} stratum.

$\overline{Y}_{hi}$ is average yield per square meter of a specific crop in the i^{th} EA in the h^{th} stratum.

P_{hi} is estimate of total production of a specific crop in the i^{th} EA in the h^{th} stratum.

$\hat{P}_h$ is estimate of total production quantity of a specific crop in the h^{th} stratum.

3. Estimate of Yield of a Specific Crop in Stratum h is given by:

$$\hat{Y}_h=\frac{\hat{P}_h}{\hat{A}_h}$$

4. Estimation of Totals (Livestock, Agricultural practices, etc.)

$$\hat{y}_h=\sum_{i=1}^{m_h}\frac{M_hH_{hi}}{n_hh_{hi}}\hat{y}_{hi}$$

5. Sampling Variance of Estimates:

Sampling variance of estimate of stratum total of area, production and yield for a specific crop, and totals for other variables are estimated by the following formulas, respectively.

$$Var(\hat{A}_h)=(1-f_h)\frac{n_h}{n_h-1}\sum_{i=1}^{n_h}\left(\hat{A}_{hi}-\frac{\hat{A}_h}{n_h}\right)^2+f_h\sum_{i=1}^{n_h}(1-f_{hi})\left(\frac{h_{hi}}{h_{hi}-1}\right)\sum_{j=1}^{h_{hi}}\left(\hat{A}_{hij}-\frac{\hat{A}_{hi}}{h_{hi}}\right)^2$$

$$Var(\hat{P}_h)=(1-f_h)\frac{n_h}{n_h-1}\sum_{i=1}^{n_h}\left(\hat{p}_{hi}-\frac{\hat{p}_h}{n_h}\right)^2+f_h\sum_{i=1}^{n_h}(1-f_{hi})\left(\frac{h_{hi}}{h_{hi}-1}\right)\sum_{j=1}^{h_{hi}}\left(\hat{P}_{hij}-\frac{\hat{P}_{hi}}{h_{hi}}\right)^2$$

$$Var(\hat{Y}_h)=\frac{1}{\hat{A}_h^2}[Var(\hat{P}_h)+\hat{Y}_h^2Var(\hat{A}_h)-2\hat{Y}_hCov(\hat{P}_h,\hat{A}_h)]$$

Where, $Cov(\hat{P}_h,\hat{A}_h)=(1-f_h)\frac{n_h}{n_h-1}\sum_{i=1}^{n_h}(\hat{A}_{hi}-\frac{\hat{A}_h}{n_h})(\hat{P}_{hi}-\frac{\hat{P}_h}{n_h})$

$$+f_h\sum_{i=1}^{n_h}(1-f_{hi})\left(\frac{h_{hi}}{h_{hi}-1}\right)\sum_{j=1}^{h_{hi}}\left(\hat{A}_{hij}-\frac{\hat{A}_{hi}}{h_{hi}}\right)\left(\hat{P}_{hij}-\frac{\hat{P}_{hi}}{h_{hi}}\right).$$

$$Var(\hat{y}_h)=(1-f_h)\frac{n_h}{n_h-1}\sum_{i=1}^{n_h}\left(\hat{y}_{hi}-\frac{\hat{y}_h}{n_h}\right)^2+f_h\sum_{i=1}^{n_h}(1-f_{hi})\left(\frac{h_{hi}}{h_{hi}-1}\right)\sum_{j=1}^{h_{hi}}\left(\hat{y}_{hij}-\frac{\hat{y}_{hi}}{h_{hi}}\right)^2$$

f_h = average first stage probability of selection of EAs within Wereda h.

$f_{hi}=\frac{h_{hi}}{H_{hi}}$ = average second stage probability of selection within the i^{th} sample EA in Wereda h.

Since all strata are independent, the total variance at zonal and regional is computed by aggregating the result obtained at wereda level, i.e.

$$Var(\hat{Y})=\sum_h^L Var(\hat{Y}_h), Var(\hat{P})=\sum_h^L Var(\hat{P}_h) \text{ and } Var(\hat{A})=\sum_h^L Var(\hat{A}_h)$$

Where, L is the number of strata (Weredas).

In estimating the sampling variance by the above formula, selection of EAs within a stratum is assumed to be with replacement. By so doing the variance estimate may be slightly over estimated but it greatly simplifies the estimation procedure.

6. Coefficient of Variation (CV) of Estimates:

Coefficient of Variation (CV), in percentage, of estimate of stratum total of area, production and yield for a specific crop (other totals) are given respectively by:

$$CV(\hat{A}_h)=\frac{\sqrt{Var(\hat{A}_h)}}{\hat{A}_h}*100$$

$$CV(\hat{P}_h)=\frac{\sqrt{Var(\hat{P}_h)}}{\hat{P}_h}*100$$

$$CV(\hat{Y}_h)=\frac{\sqrt{Var(\hat{Y}_h)}}{\hat{Y}_h}*100$$

7. Ninety-five percent confidence interval (CI) of stratum total is:

$$\hat{Y}_h \pm 1.96 * S.E(\hat{Y}_h)$$

Where, $S.E(\hat{Y}_h)=\sqrt{Var(\hat{Y}_h)}$

APPENDIX II

NUMBER OF EAs AND AGRICULTURAL HOUSEHOLDS SAMPLED AND COVERED BY WEREDA (**RURAL**)

ZONE	WEREDA	EAs		HOUSEHOLDS	
		SAMPLED	COVERED	SAMPLED	COVERED
ZONE 1	JIKAWO	25	21	750	613
	ITANG	25	25	750	736
	GAMBELLA	15	14	450	399
	ZONE TOTAL	**65**	**60**	**1950**	**1748**
ZONE 2	ABOBO	24	19	720	566
	JOR	14	6	420	180
	GOG	13	11	390	330
	GODARE	25	25	750	728
	DIMA*	*	*	*	*
	ZONE TOTAL	**76**	**61**	**2280**	**1804**
	REGION TOTAL	**141**	**121**	**4230**	**3552**

NUMBER OF EAs AND AGRICULTURAL HOUSEHOLDS SAMPLED AND COVERED BY WEREDA (**URBAN**)

ZONE	WEREDA	EAs		HOUSEHOLDS	
		SAMPLED	COVERED	SAMPLED	COVERED
	ITANG	3	3	90	90
	GAMBELLA	10	10	300	300
	ZONE TOTAL	**13**	**13**	**390**	**390**
	GOG	2	2	90	90
	GODARE	4	4	120	120
	DIMA	2	2	40	40
	ZONE TOTAL	**8**	**8**	**250**	**250**
	REGION TOTAL	**21**	**21**	**640**	**640**

* Majority of the wereda residents were engaged in off-farm activities, therefore, data were collected subjectively on a few items within two weeks period.

APPENDIX III

Rural

FORM EASE -R- 94/2

Ethiopian Agricultural Sample Enmeration- Socio Economic characteristics of Population in Agricultural Households - 2001 /2002 (1994 E.C.)

PART I- IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7
Region	Zone	Wereda		Farmers' Association	Enumeration Area	Household ID Number

PART II - DEMOGRAPHIC CHARACTERISTICS OF EACH MEMBER OF THE AGRICULTURAL HOUSEHOLD (STARTING WITH THE HEAD OF THE HOUSEHOLD)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
								5 YEARS AND ABOVE		10 YEARS AND ABOVE			
SR. NO.	FULL NAME	IS MEMEBER OF THE HOUSEHOLD A HOLDER Yes =1 No =2	If Column 3, Code 1 HOLDER ID	TYPE OF HOLDING CROP =1 LIVESTOCK =2 BOTH =3	SEX MALE = 1 FEMALE = 2	RELATION TO THE HEAD OF HOUSEHOLD	AGE (IN COMP-LETED YEARS)	EDUCATIONAL ATTAINMENT (Highest Grade Completed)	MARITAL STATUS NEVER MARRIED = 1 CURRENTLY MARRIED= 2 DIVORCED = 3 WIDOWED = 4	WERE YOU ENGAGED IN ECONOMIC ACTIVITY DURING THE LAST 12 MONTHS? Yes =1 No =2	IF NOT ENGAGED (IN COL. 11 COD2 ECOMOMIC ACTIVITY WHAT WAS THE MAIN REASON? STUDENT =1 HOME MAKERS =2 HANDICAP =3 OLD AGE/PENSION =4 OTHERS =5	IF ENGAGED IN ECONOMIC ACTIVITY WHAT WAS THE MAJOR ACTIVITY? FULLY AGRICULTURE = 1 PARTLY AGRICULTURE = 2 Fully in others =3	IF IN COLUMN 13, CODE 1 OR 2, EMPLOYMENT STATUS EMPLOYER = 1 OWN-ACCOUNT WORKER = 2 EMPLOYEE = 3 UNPAID FAMILY WORKER = 4 OTHERS =5
		code		code		Code		Code	Code	Code	Code	Code	Code
0	1												
0	2												
0	3												
0	4												
0	5												
0	6												
0	7												
0	8												
0	9												
1	0												

Head	= 1
Spouse	= 2
Son/Daughter of head & spouse	= 3
Son/Daughter of head	= 4
Son/Daughter of spouse	= 5
Mother/Father of head/spouse	= 6
Sister/Brother of head/spouse	= 7
Other relatives	= 8
Non relatives	= 9

Illiterate	= 1
Informal Education	= 2
Grade 1 Completed	= 3
Grade 2 Completed	= 4
Grade 3 Coinpleted	= 5
Grade 4 Completed	= 6
Grade 5 Completed	= 7
Grade 6 Completed	= 8
Grade 7 Completed	= 9
Grade 8 Completed	= 10
Grade 9 Completed	= 11
Grade 10 Completed	= 12
Grade 11 Completed	= 13
Grade 12 Completed	= 14
Grade 12 +	= 15

Form EASE-94/3A

RURAL

Ethiopian Agricultural Sample Enumeration

List of Fields Under Temporary Crops (Including Vegetables and Root Crops) and Agricultural Practices (Mehere Season) - 2001/02 (1994 E.C.)

Part 1- IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7	8	9	10	11
Region	zone	Wereda	Farmers Association	Enumeratio Areas	Household Number		Holder Name	Age	Sex male →1 Female →2	Type of Holding Crop → 1 Livestack → 2 Both → 3

Part II - Area Under Temporary Crops and Agricultural Practice

1	2	3	4	5	6
Sr. No.	Questions	Parcel No / Field No. / crop name code	Parcel No. / filed NO. / crop name code	Parcel No. / filed NO. / crop name code	Parcel No. / filed NO. / crop name code
0 1	Type of Holding Private → 1 Others → 3 Rnted /contract → 2				
0 2	Crop Area in local unit	Name code Area	Name code Area	Name code Area	Name code Area
0 3	Have the field been included in the extention Package program Yes → 1 No → 2				
0 4	Was the field Irrigated? Yes → 1 No → 2				
0 5	Variety of seeds used Improved → 1 Indignores → 2				
0 6	(For Cereals,Pulses and Oil seeds only) If indiginous seed was used, What was the total quantity	Kg. Gram	Kg. Gram	Kg. Gram	Kg. Gram
0 7	(For Cereals,Pulses and Oil seeds only) If Improved seed was used, what was the total quantity	Kg. Gram	Kg. Gram	Kg. Gram	Kg. Gram
0 8	(For Cereals,Pulses and Oil seeds only) If Improved seed was used what was the cost /price	Birr cent	Birr cent	Birr cent	Birr cent
0 9	Was the crop Damaged Yes → 1 No → 2				
1 0	If yes, what was the major cause of damage	Reason code	Reason code	Reason code	Reason code
1 1	Percentage of damage				
1 2	Any control/protection measure taken for crop damage? Yes → 1 No → 2				
1 3	If yes, what Type of measure? Chemical → 1 Both → 3 Non chemical → 2				
1 4	If chemical Insecticide → 1 1&3 → 5 Herbicide → 2 2&3 → 6 Fungicide → 3 All → 7 1&2 → 4				
1 5	Was the field fertilized? Yes → 1 No → 2				
1 6	If fertilized what type ? Natural → 1 Bothe → 3 Chemical → 2				
1 7	One main reason for not using chemical fertilizer	Reason Code	Reason Code	Reason	Reason Code
1 8	If chemical fertilizer used 18.1 Type Urea → 1 Both → 3 Dap → 2				
	18.2 Quantity in K.g	Kg. Gram	Kg. Gram	Kg. Gram	Kg. Gram
1 9	If natural fertilizer used mainly What type? Manure → 1 Both → 3 compost → 2 Others → 4 / If others specify/ →				

RURAL

Ethiopian Agricultural Sample Enumeration

Form EASE-94/3B

List of Fields Under Permanent Crops and their Agricultural Practices (Mehere Season) - 2001/02 (1994 E.C.)

Part 1 IDENTICATION PARTICULARS

1	2	3	4	5	6	7	8	9	10	11
Region	Zone	Wereda	Farmers' Association	Enumeration Areas	Household Number	Holder Number	Holder's Name	Age	Sex: male → 1, Female → 2	Type of Holding: crop → 1, Livestock → 2, Both → 3

Part II - Area Under Permanent Crops and Agricultural Practice

1	2	3	4	5	6
	Question	parcel No / Field No / Crop Name (code)	parcel No / Field No / Crop Name (code)	parcel No / Field No / Crop Name (code)	parcel No / Field No / Crop Name (code)
01	Type of Holding: Private → 1, Others → 3; Rented/ contract → 2				
02	Crop Area in Local unit	Name / Area	Name / Code / Area	Name / Code / Area	Name / Code / Area
03	Has the field been included in the extention package program: Yes → 1, No → 2				
04	Total number of trees in the field. (Excluding Coffe,Chat,Pineapple,Sugar-cane)	Quantity	Quantity	Quantity	Quantity
05	Number of trees of fruit bearing age (Excluding Coffe,Chat,Pineapple,Sugar-cane)	Quantity	Quantity	Quantity	Quantity
06	Was the field Irrigated: Yes → 1, No → 2				
07	Variety of seeds used: Improve → 1, Indiginous → 2				
08	Was the crop Damaged: Yes → 1, No → 2				
09	If yes, what was the major cause of damage	Reason (code)	Reason (code)	Reason (code)	Reason (code)
10	Persontage of Damage				
11	Any control /proventina measure taken for crop Damage: Yes → 1, No → 2				
12	Chemical → 1, Non chemical → 2, Both → 3				
13	If chemica: Incectide → 1, Herbicid → 2, Fungicids → 3, 1&2 → 4, 1&3 → 5, 2&3 → 6, All → 7				
14	Was the field fertilized: Yes → 1, No → 2				
15	If fertilized what type? Natural → 1, Chemical → 2, Both → 3				
16	Reason for not using chemical fertilizer	Reason (Code)	Reason (Code)	Reason (Code)	Reason (Code)
17	If chemical (comercial) fertilizer used: 17.1 Type: Urea → 1, Dap → 2, Both → 3				
	17.2 Quantity in Kg.	Kg. Gram	Kg. am	Kg. Gram	Kg. Gram
18	If natural fertilizer used mainly what type? Manure → 1, Compost → 2, Both → 3, Others → 4; /If others specify/ →				

RURAL

Ethiopian Agricultural Sample Enumeration
List of Fields Under Mixed Crops and their Agricultural Practices
(Mehere Season) - 2001/02 (1994 E.C.)

Form EASE-94/3c

Part 1- IDENTIFICATION PARTICULARS

1 Region	2 Zone	3 Wereda	4 Farmers' Association	5 Enumeration Areas	6 Household Number	7 Holder Number	8 Holders' Name	9 Age	10 Sex (male → 1, Femal → 2)	11 Type of Holding (Crop → 1, Livestock → 2, Bothe → 3)

Part II - Area Under Mixed Crops and Agricultural Practice

1	2	Questions	3	4
			Parcel No. / Field No.	Parcel No. / Field No.
			Crop Name / code	Corp Name / code
0	1	Type of Holding Private → 1 Others → 3 Rented/contract → 2		
0	2	Total mixed corp area in local unit	Name of Local Unit / code / Area	Name of Local Unit / code / Area
0	3	Was the field been included in the extention pakage program Yes → 1 No → 2		
0	4	Area in percentag share for Each crop		
0	5	Number of trees for permanent crop (Excluding Coffee, Chat, Pinapple, Sugar-cane)	Quantity	Quantity
0	6	Number of trees of fruit of permanent crop (Excluding Coffee, Chat, Pinapple, Sugar-cane)	Quantity	Quantity
0	7	was the field Irrigated yes → 1 No → 2		
0	8	Variety of seeds used Improved → 1 Indiginous → 2		
0	9	If Indignous seed was used what was the quantity (for Cereals, Pulses & Oilseeds only)	Kg. / Gram	Kg. / Gram
1	0	If Improved seed was used, what was the quantity (for Cereals, Pulses & Oilseeds only)	Kg. / Gram	Kg. / Gram
1	1	If Improved seed was used what was the cost/price (for Cereals, Pulses & Oilseeds only)	Birr / sent	Birr / sent
1	2	was the crop Damaged Yes → 1 No → 2		
1	3	If, yes, what was the major cause of Damage	Reason / Code	Reason / Code
1	4	percentage of Damage		
1	5	Any control/ preventive measure Taken for crop damage → 1 → 2		
1	6	If yes, what type of measure Chemical → 1 Both → 3 Non-chemical → 2		
1	7	If chemical Insecticide Insecticide → 1 1&3 → 5 Herbicide → 2 2&3 → 6 Fungicide → 3 All → 7 1&2 → 4		
1	8	Was the field fertilized yes → 1 No → 2		
1	9	If fertilized what type? Natural → 1 Both → 3 Chemical → 2		
2	0	One main Reson for not using Chemical fertilizer	Reason / Code	Reason / Code
2	1	If chemical fertilizer used 21.1 Type Urea → 1 Both → 3 Dap → 2		
		21.2 Quantity in kg.	Kg. / Gram	Kg. / Gram
2	2	If natural fertilizer used mainly what type Manure → 1 Both → 3 Compost → 2 Others → 4 / If others specify/		

RURAL

Form EASE -94/3D

Ethiopian Agricultural Sample Enumeration
List of Fields Under Other Land Use (Fields not occupied by any type of Crop)
(Mehere Season) - 2001/02 (1994 E.C.)

part I- IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7	8	9	10	11
Region	Zone	Wereda	Farmer's Association	Enumeration Areas	Household Nubber	Holder Number	Holder's Name	Age	Sex male → 1 Female → 2	Type of Holding Crop → 1 Crop → 2 Crop → 3

Part II - Other Land UTILIZATION and Local Area Measurment units

1	2	3	4	5	6	7	8	9	10
Sr. NO.	Parcel	Land Use	Type of Land use	code	Type of owner ship Private → 1 Rented/contrat → 2 Other → 3	code	Area in Local unit Local unit NAME	code	Area
01									
02									
03									
04									
05									
06									
07									
08									
09									
10									

From EASE 94/4

Rural

Ethiopian Agricultral Sample Enumeration
Assessment of Crop Conditions - 2001/02 (1994 E.C.)

NOTE:- This Form should be Filled Out For Mixed Crops According to their Type in Pure Stands

Part I - Identification Particulars

1	2	3	4	5	6
Region	Zone	Wereda	Farmers' Association	Enumeration Area	Crop Name

Part II - Assessment of Crop Conditions (For Meher Season)

1	2	3	4	5	6	7	8	9		10	11
					Crop Productivity Compared to Last Year						
Sr. No.	Name of Holder	Household ID Number	Holder ID Number	Number of Fields	Increase =1 Equal / No change =2 Decrease =3	If Increase Quantity in Percent	If Decrease: Quantity In Percent	If Decrease: One Major Reason for Decrease	Code	Change In Percent	Remarks
01											
02											
03											
04											
05											
06											
07											
08											
09											
10											
11											
12											
13											
14											
15											
16											
17											
18											

FORM EASE-94/5

Rural

Ethiopian Agricultural Sample Enumeration
Area under Crop Fields and Other Land Uses
(1994 E.C)

Part 1: Identification Particular

1	2	3	4	5	6	7	8
Kilil	Zone	Wereda	FA	EA	Household ID NO	Holder ID.No.	Name of Holder

9	10	11	12	13	14		15		16
Parcel No.	Field No.	The Field or other land used Field Under Temp/Veg/Root Crops → 1 Permanent → 2 Mixed → 3 Other land use → 4 cod	SR. No.	Name of Crop or Type of Land use	If in col.11 code 1,2 or 3 Quantity of prod. In Local unit Identification particulars code	Name	Code	Quantity	Area in Percentage share for each Crop (If in Col. 11 Code 3)
			1						
			2						
			3						

Part II. Area Measurement Result

1		2	3		4	5	
The field or other land use Date of measurement		Area in Sq.m.	Area in Local Units Name of Local Area Unit	code	Area	Reason if area Measurment not conducted	Code
Date	Month						

Part III. Bearing and Distances of the Measured Area

Side ID	A-B	B-C	C -	D -	E -	F-	G-
Bearing							
Distanse of							
Side ID	**H -**	**I -**	**J -**	**K -**	**L -**	**M-**	**N-**
Bearing							
Distances of							
Side ID	**O -**	**P-**	**Q-**	**R-**	**S-**	**T-**	**U-**
Bearing							
Distance of							

Rural

FORM EASE-R-94/6

Ethiopian Agricultural Sample Enumeration
List and Selection of Crop Fields - 2001/02 (1994 E.C.)

Part I- Identification Particulars

1	2	3	4	5	6	7	8	9	10	9
Region	Zone	Wereda	Farmers Association	Enumeration Area	Household ID Number	Holder ID Number	Holder Name	Age	Sex Male =1 Female =2	Type of Holding Crop =1 Livestock =2 Both =3

Part II- Selection of Fields for and Crop Cutting Experiment

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Serial No. of		Type of Crop Temporary =1 Vegetable/ Root =2 Permanent =3 Mixed =4	Crop Name*	Name of Crops																			
Parcel	Field		CODE	FIELD No.	SL.FIEL No.	FIELD No.	SL.FIEL No.	FIELD No.	SL.FIELD No.	FIEL No.	SL.FIEL No.	FIELD No.	SL.FIELD No.	FIELD No.	SL.FIEL No.	FIELD No.	SL.FIEL No.	FIEL No.	SL.FIEL No.	FIELD No.	SL.FIEL No.	FIELD No.	SL.FIELD No.

*NOTE:- * ALL FIELDS UNDER ANY TYPE OF CROP SHOULD BE LISTED*

Rural

Form EASE-R- 94/7A

Ethiopian Agricultural Sample Enumeration
Crop Cutting Results - Temporary Crops 2001/02 (1994 E.C.)
(Peasant Holdings)

Part I - Identification particulars

1	2	3	4	5	6	7	8	9	10	11
Region	Zone	Wereda	Farmers Association	Enumeration Area	Household ID Number	Holder ID Number	Name of Holder	Age	Sex Male =1 Female =2	Type of Holding Crop = 1 Livestock = 2 Both = 3

Part II - Details of Crop Cutting (For Temporary Crops only) (Excluding Vegetables and Root Crops)

1	2	3	4	5	6	7	8	9	10	11
Serial No. Of		Crop Name	Date of Harvest	Fresh Weight	Date of Recording Dry Weight	Dry Weight	Was Crop Damaged? Yes =1 No =2	If yes, Reason for Damage	Percentage Damaged	Type of Crop Stand Pure =1 Mixed =2
Parcel	Field	Code	Day / Month	Kg. / Grams	Day / Month	Kg. / Grams		Code		

Rural

Form EASE-R- 94/7B

Ethiopian Agricultural Sample Enumeration
Crop Cutting Results - Vegetables and Root Crops - 2001/02 - (1994 E.C)
(Peasant Holding)

PART I - IDENTIFICATION PARTICULARS

1	2	3	4	5	*	7	8	9	10	11
Region	Zone	Wereda	Farmers' Association	Enumeration Area	Household I Number	Holder ID Number	Name of Holder	Age	Sex Male =1 Female =2	Type of Holding Crop = 1 Livestock = 2 Both = 3

PART II - DETAILS OF CROP CUTTING OF PLOT PERPARATION (FOR VEGETABLES AND ROOT CROPS)

1	2	3	4	5	6	7	8	9	10	11	12	13
					For Rows only			For Broad Cast only				
					Selected Random Rows		Random Distance in Meter for the Selected Rows from Starting Point					
Ser. No.	Parcel No.	Field No.	Crop Name / Code	Planting Pattern Rows =1 Broad cast=2	Serial N0	Distance in meter		Largest Field Side in meter	Random Distance in Meter for the Largest Side from Starting Point	Shortest Side Distance in Meter	From starting point to the center of the field: Shortest Side Random Distance in Meter	From starting point to the center of the field: Shortest Side Bearing
0 1												
0 2												
0 3												
0 4												
0 5												
0 6												
0 7												
0 8												
0 9												
1 0												

PART III - CROP CUTTING RESULT (FOR VEGETABLES AND ROOT CROPS)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
					For Rows Only			From 1m x 1m (for Broad cast) or 1m x 2 Rows (for Rows) Plot No. of Fruits and Quantity Harvested							
					Distance Between five or Below five Rows		Plant Category A = 1 Catatory B = 2	First Visit		Second Visit		Third visit		Grand Total	
Line No.	Parcel No.	Field No.	Crop Name / Code	Planting Pattern Row =1 Broad cast=2	No. of Rows	Total distance in Meter	Code	No. of Fruits Quantity	Weight in Kg.	No. of Fruits Quantity	Weight in Kg.	No. of Fruits Quantity	Weight in Kg.	No. of Fruits Quantity	Weight in Kg.
0 1															
0 2															
0 3															
0 4															
0 5															
0 6															
0 7															
0 8															
0 9															
1 0															

Form EASE -R- 94/7C

Ethiopian Agricultural Sample Enumeration
Crop Cutting Results - Permanent Crops 2001/02 (1994 E.C.)

Part I- Identification Particulars

1	2	3	4	5	6	7	8	9	10	11
Region	Zone	Wereda	Farmers' Association	Enumeration Area	Household ID Number	Holder ID Number	Name of Holder	Age	Sex Male =1 Female =2	Type of Holding Crop = 1 Livestock = 2 Both = 3

Part II- Details of Crop-Cutting (For Permanent Crops) (Excluding Coffee, Chat and Gesho)

1	2	3		4	5	6		7	8	9		10	11	12		13	14	15		16	17	18		19	20	
Serial No. Of		Fruit Type Picked		FIRST VISIT				SECOND VISIT				THIRD VISIT				FOURTH VISIT				FIFTH VISIT				TOTAL		
				Date	Number	Weight		Date	Number	Weight		Date	Number	Weight		Date	Number	Weight		Date	Number	Weight		Number	Weight	
Parcel	Field		Code			Kg.	Gm.			Kg.	Gm.			Kg.	Gm.			Kg.	Gm.			Kg.	Gm.		Kg.	Gm.
		Orange	47																							
		Banana	42																							
		Lemon	44																							
		Papaya	48																							
		Mango	46																							
		Guava	65																							
		Avocado	84																							
		Sugar cane	76																							
		Pineapple	49																							

PART III- DETAILS OF CROP-CUTTING FOR COFFEE, CHAT AND GESHO

1	2	3		4	5	6	7	8	9	10	11	12	13	14
SERIAL No. OF		FRUIT / TWIGS PICKED		NUMBER OF TREES PICKED	WEIGHT OF COFFEE FRUITS DRIED AND BEANS (KG)									
					FIRST VISIT DATE / /		SECOND VISIT DATE / /		THIRD VISIT DATE / /		FOURTH VISIT DATE / /		TOTAL	
					DATE WEIGHED / /		DATE WEIGHED / /		DATE WEIGHED / /		DATE WEIGHED / /			
					FRUITS	BEANS	FRUITS	BEANS	FRUITS	BEANS	FRUITS	BEANS	FRUITS	BEANS
PARCE	FIELD		CODE		KG. GRAMS	KG. GRAMS	KG. GRAMS	KG. GRAMS	KG. GRAMS	KG. GRAMS	KG. GRAMS	KG. GRAMS	KG. GRAMS	KG. GRAMS
		COFFEE	72											
					WEIGHT OF FRESH AND DRY TWIGS (KG)									
					FIRST VISIT		SECOND VISIT		THIRD VISIT		FOURTH VISIT		TOTAL	
					DATE / /	DATE / /	DATE / /	DATE / /	DATE / /	DATE / /	DATE / /	DATE / /		
					FRESH	DRY	FRESH	DRY	FRESH	DRY	FRESH	DRY	FRESH	DRY
		GESHO	75											
					Date / /		Date / /		Date / /		Date / /		Date / /	
		CHAT	71											

Rural

Form EASE-94/8

Ethiopian Agricultural Sample Enumeration
Livestock and Honey Production-2001/2002 (1994 E.C)

PART I - Idetification Particulars

1	2	3	4	5	6	7	8	9	10	11
REGION	ZONE	WEREDA	FARMERS' ASSOCIATION	ENUMERATION AREA	HOUSEHOLD ID. No	HOLDER ID. No	HOLDER'S NAME	Age	Sex Male=1 Female=2	TYPE OF HOLDING CROP = 1 LIVESTOCK = 2 BOTH = 3

PART II-LIVESTOCK, BEEHIVES AND LIVESTOCK PRODUCTS

Question No I- Did you have livestock, And/or beehives on February 8, 2002?

Yes → 1 Complete questions below ☐
No → 2 Complet question No II

Number of Cattle in Age & Purpose on February 8/2002

	None	Total	Male	Femal
1. Cattle of all ages on February 8,2002		1	2	3
a. Cattle < 6 months		4	5	6
b. Cattle 6 months & <1 years old		7	8	9
c. Cattle 1 year to <3 years old		10	11	12
d. Cattle 3 years to < 10 years		13	14	15
(1) Beef Cattle (for meat production purpose)		16	17	18
(2) For breeding purpose		19	20	21
(3) Dairy cows		22		23
(4) Cows gave milk for the last 12 months		24		25
(5) Draft Cattle (for work purpose)		26	27	28
(6) Cattle for other purposes		29	30	31
e. Cattle 10 years and older		32	33	34
f. Grand Total		35	36	37
1. Total Local breed		38	39	40
2. Total Exotic		41	42	43
3. Total Hybrid		44	45	46

Number of Sheep in Age & Purpose on February 8/2002

		None	Total	Male	Female
2. SHEEP of all ages on February 8, 2002			47	48	49
a. Sheep < 6 months			50	51	52
b. Sheep 6 months & < 1 years old			53	54	55
c. Sheep 1 year to < 2 years old			56	57	58
d. Sheep 2 years and older			59	60	61
(1) Sheep for meat (slaughter purpose)			62	63	64
(2) Sheep for wool only			65	66	67
(3) Sheep for breeding purpose only			68	69	70
(4) Sheep for other purposes			71	72	73
e. Grand Total			74	75	76
1. Total Local breed			77	78	79
2. Total Exotic			80	81	82
3. Total Hybrid			83	84	85

Number of Goats in Age & Purpose on February 8/2002

		None	Total	Male	Female
3. GOATS of all ages on February 8, 2002			86	87	88
a. Goats < 6 months			89	90	91
b. Goats 6 months & < 1 year old			92	93	94
c. Goats 1 year to < 2 years old			95	96	97
d. Goats 2 years and older			98	99	100
(1) Goats for meat (slaughter purpose)			101	102	103
(2) Dairy Goats			104		105
(3) Goats for breeding purpose only			106	107	108
(4) Goats for other purposes			109	110	111
e. Grand Total			112	113	114
1. Total Local breed			115	116	117
2. Total Exotic			118	119	120
3. Total Hybrid			121	122	123

Number of Pigs by age & purpose on February 8, 2002

	None	Total	Male	Female
4. Total Pigs		124	125	126
a. below 6 months		127	128	129
b. 6 months & above		130	131	132
b.1. For meat Purpose		133	134	135
b.2. Pigs for other purpose		136	137	138

Number of Horses, Asses, Mules & Camels in Age and Purpose (Feb. 9, 2001-Feb. 8, 2002)

	None	Total	Male	Female
5. HORSES of all ages		139	140	141
a. Horses <3 years old		142	143	144
b. Horses 3 Years and older		145	146	147
b1) Horses used primarily for draft purpose		148	149	150
b2) Horses for Transportation		151	152	153
b3) Horses for other purpose		154	155	156
6. MULES of all ages		157	158	159
a. Mules <3 years old		160	161	162
b. Mules 3 years older		163	164	165
b1) Mules used primarily for draft purpose		166	167	168
b2) Mules for Transportation purposes		169	170	171
b3) Mules for Other Purpose		172	173	174
7. ASSES of all ages		175	176	177
a. Asses <3 years old		178	179	180
b. Asses 3 years and older		181	182	183
b1) Asses used for draft purpose		184	185	186
b2) Asses for Transportation purposes.		187	188	189
b3) Asses for Other Purpose		190	191	192
8. CAMELS of all ages		193	194	195
a. Camels <4 years old		196	197	198
b. Camels 4 years and older		199	200	201
b1) Camels for slaughter		202	203	204
b2) Camels used for draft purpose		205	206	207
b3) Camels for milk purpose		208		209
b4) Camels for Transportation purposes		210	211	212
b5) Camels for other purposes		213	214	215

CHICKENS

	None		
9. CHICKENS Total on February 8, 2002		216	
a. Laying hens (over 20 weeks old)		217	
b. Non-laying hens (over 20 weeks old)		218	
c. Cocks - males (over 20 weeks old)		219	
d. Cockerels (8 weeks to 20 weeks old)		220	
e. Pullets (8 weeks to 20 weeks old)		221	
f. Chicks (below 8 weeks old)		222	

Question No II: Did you have livestock, chickens, and/or beehives for the last 12 months (Feb. 9, 2001-Feb.8,2002)?

Yes ⟶ 1 Complet question below ☐

No ⟶ 2 Complet question No. 11 'c' and 'g' only

	None		
10. HONEY BEE COLONIES on February 8, 2002		223	
a. Traditinal beehives		224	
b. Intermediate beehives		225	
c. Modern beehives		226	

MILK, EGG AND HONEY PRODUCTION FOR THE LAST 12 MONTHS (Feb. 9, 2001-Feb. 8, 2002)

	None		
11. Dairy cows & camels			
a. Dairy cows gave milk		227	
b. Lactation period of cows (in months)		228	
c. Average milking month in a caw (traditional)		229	
d. Milk production - per day per dairy cow in litres		230	
e. Dairy camels gave milk		231	
f. Lactation period of camels (in months)		232	
g. Average milking month in a camel (traditional)		233	
h. Milk production - per day per camel in litres		234	

	None		
12. Egg production - per hen per clutch			
'In nearest hole number of eggs		235	
13. Average number of clutches (in days)		236	

14. Honey production per beehive per year (Feb. 9, 2001 - Feb. 8, 2002) in Kg.

	None		
a. Average honey production from traditional beehive per season per beehive		237	
Frequency of production per year per beehive.		238	
b. Average honey production from intermediate beehive per season per beehive		239	
Frequency of production per year per beehive.		240	
c. Average honey production from modern beehive per season per beehive		241	
Frequency of production per year per beehive.		242	

15. Livestock diseases & treatment Feb. 9, 2001-Feb. 8,2002)

1	2	3	4	5	6	7			8
Sr. No.	Type of **Livestock**	Total Vaccinated	Total Affected	Total Treated	Total Died	Major cause of death	Code 271	Code 272	Remark
1	Cattle								
2	Sheep								
3	Goats								
4	Equines								
5	Camels								
6	Pigs								
7	Chickens								

16. Source of Livestock feed

1	2		3		4
Sr. No.	TYPE OF FEED	Code	USE YES = 1 NO = 2	Code	IF YES, PERCENT
1	Natural grazing	1			
2	Crop Residue	2			
3	Improved pasture	3			
4	Hay	4			
6	Oil seed(noug cake)	5			
7	Other	6			

Rural

Form EASE -R- 94/9

Ethiopian Agricultural Sample Enumeration
Use of Crop, Livestock and Products - 2000/01 (1994 E.C.)
(Peasant Holding)

Job ID	1	2	3

Part I - Identification Particulars

1	2	3	4	5	6	7	8	9	10	11
Region	Zone	Wereda	Farmers' Association	Enumeration Area	Household ID. No.	Holder ID No.	Name of Holder	Age	Sex Male =1 Female =2	Type of Holding Crop =1 Livestock =2 Both =3

Part II - Crop Usage Proportions (Percentages)

1	2		3	4	5	6	7	8	9
Sr. No.	Name of Crop	Code	Proportions of Total Product For Household Consumption	Seed	Sale*	Wages in Kind	Animal Feed	Other (Gifts ...)	Total
0 1									
0 2									
0 3									
0 4									
0 5									
0 6									
0 7									
0 8									
0 9									
1 0									
1 1									
1 2									
1 3									
1 4									
1 5									

Part III - Livestock Product Usage Proportions (Percentages)

1	2		3	4	5	6	7
SR. No.	Name of Livestock & Livestock Products	Code	Proportions in Percentage Household Consumptio	Sale*	Wages in Kind	Others (Gifts ...)	Total
0 1							
0 2							
0 3							
0 4							
0 5							
0 6							
0 7							
0 8							
0 9							
1 0							
1 1							
1 2							
1 3							
1 4							
1 5							

*For sale includes the part of products that the holder sold for purchase of agricultural inputs, family clothings, ... etc.

Form NASE 94/10

Ethiopian Agricultural Sample Enumeration
Miscellaneous Questions - 2001/02 (1994 E.C.)

PART I- IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7	8	9	10	11
Region	Zone	Wereda	Farmers' Association	Enumeration Area	Household ID No.	Holder ID No.	Name of Holder	Age	Sex Male =1 Female =2	Type of Holding Crop =1 Livestock =2 Both =3

PART II - MISCELLANEOUS QUESTIONS

Q. No					Code
1.	Do you practice crop rotation on your holding? Yes = 1 No = 2				
2.	Do you practice burning of soil to increase fertility of the soil on your holding? Yes = 1 No = 2				
3.	If practice irrigation, what is the source of irrigation water? River = 1 Lake = 2 Pond = 3 Others =4 Not Used = 5				
4.	Have you used hired labour on you holding during this agricultural year? (last 12 months) Yes = 1 No = 2				
5.	How many persons were engaged on the holding other than the holder ? (Last 12 /mths)	Number Male	Female	Total	
	5.1 permanent paid workers (full time)				
	5.2 Temporary (seasonal paid workers)				
	5.3 Unpaid family workers				
	5.4 partners (share holders paid/ unpaid)				
	5.5 Total persons engaged at any time of the year				
6.	Which ploughing practice do you use on your holding? 6.1 Hand dug = 1 6.2 Oxen /horse driven /pulling = 2 6.3 Mechanized /Tractor = 3 6.4 Both hand dug & oxen/ Horse driven = 4 6.5 Both Oxen/Horse driven & Mechanized = 5				
7.	What method do you practice to, preserve soil against degradation or erosion? Terracing = 1 Water catchment = 2 Afforestation = 3 Ploughing along the contour = 4 Others /Specify/ = 5 Do not practice = 6				
8.	Have you ever been included in the extension package program? Yes = 1 No = 2 ERR				
9.	If yes in 8, which extension package? Rain abundant areas extension package = 1 Rain shortage areas extension package = 2 Post harvest technology " " = 3 Economically important crops " " = 4 Livestock development " " = 5 Any two of the above = 6				

Q. No		Code
10.	If the answer is 6 in 9, specify	
11.	If Yes in 8, when? Specify	
12.	What percentage of your holding is under the extension package/ (excluding livestock)	
13.	For which crop are you useing the extension package? specify	
14.	If No in 8, why? specify	
15.	Are you beneficiary of Credit facilities for agricultural activities Yes =1 No = 2	
16	Advisory services Yes = 1 No = 2	
17	Where do you get chemical fertilizer? Government Enterprise =1 Private Enterprise =2 Private Seller =3 Others (Specify) =4 Not Purchased =5	
18	How much do you buy 50 kg Urea?	Birr / Cent
19	How much do you buy 50 kg Dap?	Birr / Cent
20	How far do you go to Purchase Fertilizer?	kilo meter
21	How much time do man & women spend in the household on each of the following agricultural activities? use the codes given below the table*.	Male / Female
	21.1 Tilling	
	21.2 Sowing	
	21.3 Weeding	
	21.4 Harvesting	
	21.5 Feeding /Treating	
	21.6 Milking	
	21.7 Marketing of agricultural products	

* Not Participated = 1
One fourth of the time (1/4) = 2
One half of the time (1/2) = 3
Three fourth of the time (3/4) = 4
Full time = 5
Not applicable = 6

Rural

Form EASE-R- 94/11

Ethiopian Agricultural Sampe Enumeration
Farm Implements, Work Animals And Storage Facilities - 2001/02 (1994 E.C.)

PART I- IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7	8	9	10	11
Region	Zone	Wereda	Farmers' Association	Enumeration Area	Household ID No.	Holder ID No.	Name of Holder	Age	Sex Male =1 Female =2	Type of Holding Crop =1 Livestock =2 Both =3

PART II- FARM IMPLEMENTS, WORK ANIMALS, AND STORAGE FACILITIES

2.1 Farming Implements

1	2		3	4		5		6	7	8	
Line No.	Name of Implement	Code	Number Owned	Replacement Value (cost per unit) Birr	Ct.	Total Value Birr	Ct.	Average Age of Service (years)	Do you rent Farm Implements? Yes =1 No =2	If Yes,enter Rate /day Birr	Ct.
01	Axe	01									
02	"Gejera"	02									
03	Hoe	04									
04	Shovel	05									
05	Pick axe	03									
06	Plow beam	06									
07	Yoke	07									
08	" Deger"	08									
09	Plow tip (Metal)	09									
10	"Wagel" tip	10									
11	"Erfe" (handle)	11									
12	Harrow	12									
13	Sprayer (hand operated)	17									
14	Reaper (sickle)	19									
15	Trashing stick	20									
16	Rake (all wood)	23									
17	Rake (any Metal)	24									
18	Winnower (wood)	25									
19	Winnower (Metal)	26									
20	Wheelbarrow	27									
21	Carts (hauling)	28									
22	Other (specify _____)										
23	Other (specify _____)										
24	Other (specify _____)										
25	Other (specify _____)										

2.2 Work Animals (including those used for transport)

1	2		3	4		5		6	7	8	
Line No.	Name of animal	Code	Number owned	Replacement Value (Cost Per Animal) Birr	Ct.	Total Value Birr	Ct.	Average age of animal? (Years)	Do you rent work Animals? Yes=1 No=2	If yes rate per day Birr	Ct.
26	Oxen (all including cows)	42									
27	Donkeys	43									
28	Horses	44									
29	Mules	45									
30	Camels	46									
31	Other (specify _____)										
32	Other (specify _____)										
33	Other (specify _____)										
34	Other (specify _____)										

2.3 Work Animals used specifically for plowing

35	Oxen for plowing	42									
36	Other for plowing										
37	Other (specify)										
38	Other (specify)										
39	Other (specify)										

2.4 Storage Facilities (Buildings)

1	2		3	4		5		6	7	8	
Line No.	Storage facilities	Code	Number owned	Replacement Value (cost per building) Birr	Ct.	Total Value Birr	Ct.	Average storage capacity of buildings? (in Quintals)	Do you rent storage facilities? Yes =1 No =2	if yes, enter rate per month Birr	Ct.
40	Modern buildings	32									
41	" Gottera"	33									
42	" Debegnet"	34									
43	Under ground	35									
44	Other (specify _____)										
45	Other (specify _____)										
46	Other (specify _____)										
47	Other (specify _____)										

Note :- *Sack, 'Silicha', 'Akumada', Plastic sack etc not used as storage facilities*

Form EASE-R-94/12A

RURAL

Ethiopian Agricultural Sample Enumeration

List of Fields Under Temporary Crops (Including Vegetables and Root Crops) and Agricultural Practices (Belg Season) - 2001/02 (1994 E.C.)

Part 1- IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7	8	9	10	11
Region	zone	Wereda	Farmers Association	Enumeratio Areas	Household Number	Holder Number	Holder Name	Age	Sex male → 1 Female → 2	Type of Holding Crop → 1 Livestock → 2 Both → 3

Part II - Area Under Temporary Crops and Agricultural Practice

1	2	3	4	5	6
Sr. No.	Questions	Parcel No / Field No. / crop name / code	Parcel No. / filed NO. / crop name / code	Parcel No. / filed NO. / crop name / code	Parcel No. / filed NO. / crop name / code
01	Type of Holding Private → 1 Others → 3 Rnted /contract → 2				
02	Field Area in local unit	Local Unit / code / Area	Local Unit / code / Area	Local Unit / code / Area	Local Unit / code / Area
03	Production in Local Unit	Local Unit / code / Area	Local Unit / Code / Area	Local Unit / code / Area	Local Unit / code / Area
04	Have the field been included in the extention Package program Yes → 1 No → 2				
05	Was the field Irrigated? Yes → 1 No → 2				
06	Variety of seeds used Improved → 1 Indignores → 2				
07	(For Cereals,Pulses and Oil seeds only) If indiginous seed was used, What was the total quantity	Kg. / Gram	Kg. / Gram	Kg. / Gram	Kg. / Gram
08	(For Cereals,Pulses and Oil seeds only) If Improved seed was used, what was the total quantity	Kg. / Gram	Kg. / Gram	Kg. / Gram	Kg. / Gram
09	(For Cereals,Pulses and Oil seeds only) If Improved seed was used what was the cost /price	Birr / cent	Birr / cent	Birr / cent	Birr / cent
10	Was the crop Damaged Yes → 1 No → 2				
11	If yes, what was the major cause of damage	Reason / code	Reason / code	Reason / code	Reason / code
12	Percentage of damage				
13	Any control/protection measure taken for crop damage? Yes → 1 No → 2				
14	If yes, what Type of measure? Chemical → 1 Both → 3 Non chemical → 2				
15	If chemical Insecticide → 1 1&3 → 5 Herbicide → 2 2&3 → 6 Fungicide → 3 All → 7 1&2 → 4				
16	Was the field fertilized? Yes → 1 No → 2				
17	If fertilized what type ? Natural → 1 Bothe → 3 Chemical → 2				
18	One main reason for not using chemical fertilizer	Reason / Code	Reason / Code	Reason	Reason / Code
19	If chemical fertilizer used 19.1 Type Urea → 1 Both → 3 Dap → 2				
	19.2 Quantity in K.g	Kg. / Gram	Kg. / Gram	Kg. / Gram	Kg. / Gram
20	Manure → 1 Both → 3 compost → 2 Others → 4 / If others specify/ →				

RURAL

Ethiopian Agricultural Sample Enumeration

Form EASE-R-94/12B

List of Fields Under Mixed Crops and their Agricultural Practices (Belg Season) - 2001/02 (1994 E.C.)

Part 1- IDENTIFICATION PARTICULARS

1 Region	2 Zone	3 Wereda	4 Farmers' Association	5 Enumeration Areas	6 Household Number	7 Holder Number	8 Holders' Name	9 Age	10 Sex (male → 1, Femal → 2)	11 Type of Holding (Crop → 1, Livestock → 2, Bothe → 3)

Part II - Area Under Mixed Crops and Agricultural Practice

1	2 Questions	3 Parcel No. / Field No. — Crop Name / code	3 Corp Name / code	3 Crop Name / code	4 Parcel No. / Field No. — Corp Name / code	4 Corp Name / code	4 Corp Name / code
01	Type of Holding (Private → 1, Rented/contract → 2, Others → 3)						
02	Have the field been included in the extention pakage program (Yes → 1, No → 2)						
03	Total Mixed Crop Area in Local Unit	Name of Local Unit / code / Area			Name of Local Unit / code / Area		
04	Production in Local Unit	Production Unit (Local Unit, Code) / Quantity			Production Unit (Local Unit, Code) / Quantity		
05	Percentage shere of Area	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity
06	was the field Irrigated (yes → 1, No → 2)						
07	Variety of seeds used (Improved → 1, Indiginous → 2)						
08	If Indignous seed was used what was (for Cereals, Pulses & Oilseeds) the quantity	Kg. / Gram	Kg. / Gram	Kg. / Gram	Kg. / Gram	Kg. / Gram	Kg. / Gram
09	If Improved seed was used, (for Cereals, Pulses & Oilseeds) what was the quantity	Kg. / Gram	Kg. / Gram	Kg. / Gram	Kg. / Gram	Kg. / Gram	Kg. / Gram
10	If Improved seed was used (for Cereals, Pulses & Oilseeds) what was the cost/price	Birr / Cent	Birr / Cent	Birr / Cent	Birr / Cent	Birr / Cent	Birr / Cent
11	was the crop Damaged (Yes → 1, No → 2)						
12	If, yes, what was the major cause of Damage	Reason / Code	Reason / Code	Reason / Code	Reason / Code	Reason / Code	Reason / Code
13	percentage of Damage						
14	Any control/ preventive measure Taken for crop damage (→ 1, → 2)						
15	If yes, what type of measure (Chemical → 1, Non-chemical → 2, Both → 3)						
16	If chemical in 16, (Insecticid → 1, Herbicide → 2, Fungicide → 3, 1&2 → 4, 1&3 → 5, 2&3 → 6, All → 7)						
17	Was the field fertilized (yes → 1, No → 2)						
18	If fertilized what type? (Natural → 1, Chemical → 2, Both → 3)						
19	One main Reson for not using Chemical fertilizer	Reason / Code			Reason / Code		
20	If chemical fertilizer used — 20.1 Type (Urea → 1, Dap → 2, Both → 3)						
	20.2 Quantity in Kilo gram	Kg. / Gram			Kg. / Gram		
21	If natural fertilizer used mainly what type ? (Manure → 1, Compost → 2, Both → 3, Others → 4) / If others specify/						

URBAN

FORM EASE -U- 94/2

Agricultural Households Demographic Characteristics - 2001 /2002 (1994 E.C.)

PART I- IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7	8
REGION	ZONE	WEREDA	TOWN	HIGHER/WEREDA	KEBELE	ENUMERATIO AREA	HOUSEHOLD ID NO.

PART II - DEMOGRAPHIC CHARACTERISTICS OF EACH MEMBER OF THE AGRICULTURAL HOUSEHOLD (STARTING WITH THE HEAD OF THE HOUSEHOLD)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
								5 YEARS AND ABOVE		10 YEARS AND ABOVE			
SR. NO.	FULL NAME	IS MEMEBER OF THE HOUSEHOLD A HOLDER Yes =1 No =2 code	HOLDER ID	TYPE OF HOLDING CROP =1 LIVESTOCK =2 BOTH =3 code	SEX MALE = 1 FEMALE = 2 Code	RELATION TO THE HEAD OF HOUSEHOLD Code	AGE (IN COMP-LETED YEARS)	EDUCATIONAL ATTAINMENT (Highest Grade Completed) Code	MARITAL STATUS NEVER MARRIED = 1 CURRENTLY MARRIED= 2 DIVORCED = 3 WIDOWED = 4 Code	WERE YOU ENGAGED IN ECONOMIC ACTIVITY DURING THE LAST 12 MONTHS? Yes =1 No =2 Code	IF NOT ENGAGED (IN COL. 11 COD2) ECOMOMIC ACTIVITY WHAT WAS THE MAIN REASON? STUDENT =1 HOME MAKERS =2 HANDICAP =3 OLD AGE/PENSION =4 OTHERS =5 Code	IF ENGAGED IN ECONOMIC ACTIVITY WHAT WAS THE MAJOR ACTIVITY? FULLY AGRICULTURE = 1 PARTLY AGRICULTURE = 2 Fully in others =3 Code	IF IN COLUMN 13, CODE 1 OR 2, EMPLOYMENT STATUS EMPLOYER = 1 OWN-ACCOUNT WORKER = 2 EMPLOYEE =3 UNPAID FAMILY WORKER = 4 OTHERS =5 Code
0	1												
0	2												
0	3												
0	4												
0	5												
0	6												
0	7												
0	8												
0	9												
1	0												

Head	= 1
Spouse	= 2
Son/Daughter of head & spouse	= 3
Son/Daughter of head	= 4
Son/Daughter of spouse	= 5
Mother/Father of head/spouse	= 6
Sister/Brother of head/spouse	= 7
Other relatives	= 8
Non relatives	= 9

Illiterate	= 1
Informal Education	= 2
Grade 1 Completed	= 3
Grade 2 Completed	= 4
Grade 3 Completed	= 5
Grade 4 Completed	= 6
Grade 5 Completed	= 7
Grade 6 Completed	= 8
Grade 7 Completed	= 9
Grade 8 Completed	= 10
Grade 9 Completed	= 11
Grade 10 Completed	= 12
Grade 11 Completed	= 13
Grade 12 Completed	= 14
Grade 12 +	= 15

FORM EASE-U-94/3

URBAN

ETHIOPIAN AGRICULTURAL SAMPLE ENUMERATION

LIST OF FIELDS UNDER TEMPORARY AND PERMANENT CROPS AND AGRICULTURAL PRACTICES- MEHER SEASON

2001/02 (1994 E.C)

PART I-IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7	8	9	10	11	12	13	14
REGION	ZONE	WEREDA	TOWN	HIGHER/ WEREDA	KEBELE	ENUMERATION AREA	HOUSEHOLD ID. NUMBER	HOLDER ID. NUMBER	HOLDER'S NAME	AGE	SEX M→1 F→2	TYPE OF HOLDING CROP → 1 LIVESTOCK →2 BOTH → 3	DID YOU PRODUCE CROP IN BELG SEASON YES → 1 NO → 2

PART II- AREA UNDER TEMPORARY CROPS AND AGRICULTURAL PRACTICES

1	2	3	4	5	Use of Agricultural Inputs 6	7	8	9	10	11	12	13	14	15	16	17
						Use of fertilizer		Use of Irrigation				If column 12 is blank			If column 15 is blank	
Parcel Number	Field Number	Name of crops	Type of Tenure Own → 1 Rented→ 2 Others → 3	Location of field in Urban Boundary Within→ 1 Outside→ 2	Type of seeds used Improved seed→ 1 Local seed→ 2	Did you use Fertilizer Yes → 1 No → 2	If yes in column 7 Type of fertilizer Natural→ 1 Chemical→ 2 Both → 3	Did you apply Irrigation Yes →1 No →2	If yes in Column 9 Source of water River → 1 Lake → 2 Pool → 3 Pipe water→ 4 Others → 5	Did you use pesticides Yes → 1 No → 2	Field Area in Square Meters	Area in local units Name of Local Units	Area	Production in kilograms	Production In Local units Name of Local units	Quantity
			CODE									code			Code	

Continued

PART III- AREA UNDER PERMANENT CROPS AND AGRICULTURAL PRACTICES

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
				Use of Agricultural Inputs														
			Type of Tenure	Location of field in Urban Boundary		Use of fertilizer		Use of Irrigation			Number of Trees			If column 14 is blank			If column 17 is blank	
Parcel Number	Field Number	Name of crops	Own → 1 Rented → 2 Others → 3	Within → 1 Outside → 2	Type of seeds used Improved seed → 1 Local seed → 2	Did you use Fertilizer Yes → 1 No → 2	If yes in column 7 Type of fertilizer Natural → 1 Chemical → 2 Both → 3	Did you apply Irrigation Yes → 1 No → 2	If yes in Column 9 Source of water River → 1 Lake → 2 Pool → 3 Pipe water → 4 Others → 5	Did you use pesticides Yes → 1 No → 2	Total trees	Fruit bearing	Field Area In square Meters	Area in local units		Production in kilograms	Production In Local units	
														Name of Local Units	Area		Name of Local units	Quantity
			CODE											code				Code