Federal Democratic Republic Of Ethiopia

CENTRAL AGRICULTURAL CENSUS COMMISSION

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

Results for Somali 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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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 Somali Region is the twelfth 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 Somali 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, 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 Somali 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.

Somali is a regional state with an estimated population of 4.002 million in July 2003. For administrative purposes, the Region is divided into nine zones and 50 weredas. Agriculture, particularly livestock raring is the dominant activity in the region and biggest employer of the economically active population. The holders in the Region are characterized by either being agro-pasturalits or semi-agro-pasturalists, mostly private peasant holdings, traditional farming and low level of literacy among the holders.

The Somali 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 / Kebeles 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, Somali Regional State consists of nine zones; and 50 weredas weredas. The rural (sedentary) parts of region have a total of 669 EAs while the urban parts (in sedentary weredas) have a total of 220 EAs.

In the nine zones of the region, 8 sedentary weredas that are found in three zones were covered in the census. In these weredas 170 rural and 117 urban EAs were sampled but the number of EAs which were completed and found to be acceptable for tabulation amounted to 165 in rural areas and 115 in urban areas. The remaining 7 EAs were not covered due to various reasons. With respect to ultimate sampling units (agricultural households), it was planned to cover 5,100 agricultural households in rural areas and 2,936 in urban areas but about 4,789 rural and 2,919 urban agricultural households were actually covered. Based on the results of the census, in the rural parts of the region, the coverage rate of sampled EAs was 97.1 percent and the response rate of sampled agricultural households was 93.9 percent. In the urban areas, the coverage rate was 98.3 percent and the response rate was. 99.4 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 **SOMALI** REGION

Zone	Somali Region				EAs Covered	
	Total		Covered			
	Wereda	Town	Wereda	Town	Rural	Urban
Shinile	2	3	2	3	19	15
Jijiga	3	6	3	6	75	73
Liben	3	5	3	5	71	27
Total	8	14	8	14	165	115

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 Somali 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, 115 EAs in the 14 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 Jijiga 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 Somali Region has share of 188 enumerators, where 24 of them were held as reserves. For undertaking the census in the urban parts of the region 117 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 Somali Region, a total of 36 supervisors and 188 enumerators were involved and various field equipment were given to these field staff. The equipment used include, 5 field vehicles, 167 programmable calculators, 200 field compasses, 200 measuring tapes, 200 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 Jijiga 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.

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* 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

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

- 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 Somali Region, the editing, coding and verification of the filled-in forms in general took about 5.7 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 2.8 working days, while that of the filled-in forms on farm implements, demographic characteristics, Belg season and the urban forms took around 2.9 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 Somali 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 5.1 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 THE POPULATION IN 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 a 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 sedentary 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 Variation (C.V.) for some relevant variables.

The sample enumeration in Somali Region covers only 3 zones out of the total 9 zones in the region. The 3 zones included in the enumeration are Shinile, Jijiga and Liben. Most part of the rural areas of the other zones of the region have a pattern of nomadic settlement and due to this and other reasons it was not convenient to cover them under the conventional method of enumeration. Even in the rural areas of the 3 zones only localities with sedentary inhabitants were included in the sample enumeration. Therefore, the results presented in this report should be interpreted as representing only the sedentary parts of the region. For full coverage of the live stock population in the nomadic areas of the region the Central Statstical Authourity is in the process of devising other methods of data collection.

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

In this section, the size and age-sex composition of the sedentary population in agricultural households of Somali 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 sedentary areas of Somali 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 622,562. Of the total population in agricultural households, 561,107 are residing in rural areas and the remaining 61,455 that is, only 9.9 percent of the population in agricultural households is residing in urban areas.

The enumeration results show that there were 113,910 agricultural holders in the region, making up 18.3 percent of the total population residing in agricultural households. Further breakdown of the agricultural holders by type of holding is presented in Summary Table III.2. Accordingly, holders practicing crop and livestock farms constitute the largest proportion (71%) of total holders. Holders practicing crop only farms make up 11% while those practicing livestock only are about 18% of total holders.

Summary Table III.1 Size of the Population in Agricultural Households by Sex, 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	622,562	100	113,910	18.3	508,652	81.7
Male	326,721	100	95,081	29.1	231,641	70.9
Female	295,840	100	18,829	6.4	277,012	93.6
Rural						
Both Sexes	561,107	100	103,092	18.4	458,015	81.6
Male	295,214	100	87,769	29.7	207,446	70.3
Female	265,893	100	15,324	5.8	250,569	94.2
Urban						
Both Sexes	61,455	100	10,817	17.6	50,637	82.4
Male	31,507	100	7,312	23.2	24,195	76.8
Female	29,947	100	3,505	11.7	26,442	88.3

The enumeration result further shows that the proportion of holders among the males to be significantly higher than their female counterparts. In the rural and the urban areas, the proportion of the holders among the males is about five times and two 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 in the sedentary areas of Jijiga and Liben Zones, combination of crop and live stock is the dominant type of holdings, the dominancy being more pronounced for Jijiga Zone

(78.8Percent). The majority of the population in agricultural households of Shinile Zone holds livestock only. On the other hand, exclusive crop farming is more common (12.1 percent) in Jijiga Zone and least common (5.6 percent) in Shinile Zone. The general observation also reflects livestock husbandry as the predominant major source of livelihood for the sedentary population.

Summary Table III.2 Size of 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	113,910	100	12,100	10.6	20,464	18.0	81,346	71.4
Male	95,081	100	9,655	10.2	13,634	14.3	71,792	75.5
Female	18,829	100	2,445	13.0	6,829	36.3	9,554	50.7
Rural								
Both Sexes	103,092	100	10,940	10.6	12,932	12.5	79,220	76.8
Male	87,769	100	8,769	10.0	8,843	10.1	70,156	79.9
Female	15,324	100	2,171	14.2	4,089	26.7	9,064	59.1
Urban								
Both Sexes	10,817	100	1,160	10.7	7,532	69.6	2,126	19.7
Male	7,312	100	885	12.1	4,791	65.5	1,636	22.4
Female	3,505	100	274	7.8	2,741	78.2	490	14.0

Summary Table III.3 Distribution of Population in Agricultural Households by Zone Holding Status, Type of Holding and 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
Somali Region	Rural + Urban	622,562	113,910	100	10.6	18.0	71.4
	Rural	561,107	103,092	100	10.6	12.5	76.8
	Urban	61,455	10,817	100	10.7	69.6	19.7
Shinile	Rural + Urban	27,528	6,053	100	5.6	50.9	43.6
	Rural	21,408	4,810	100	6.4	43.5	50.1
	Urban	6,120	1,244	100	2.3	79.3	18.2
Jijiga	Rural + Urban	444,272	81,372	100	12.1	9.1	78.8
	Rural	403,394	74,368	100	11.8	4.1	84.1
	Urban	40,878	7,004	100	15.4	61.3	23.3
Liben	Rural + Urban	150,762	26,484	100	7.2	37.8	55.0
	Rural	136,305	23,914	100	7.8	32.4	59.8
	Urban	14,457	2,570	100	2.1	87.5	10.4

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, 57.1 percent and 55.3 percent of rural and urban population in agricultural households are under 18 years of age, while those persons aged 60 years and above constitute 3.9 Percent in rural and 4.4 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). As can be observed from Figure III.2 the age pyramid began to narrow at the base (0-4 years) and this is possibly due to decline of fertility. The chance of being holder becomes significant after age 25 and gets its peak at age group 30-39 years for males at age group 40-49 years among females (see Figure III.3)

The age pattern observed at regional level among total holders reveals that less than 6 percent and 5 percent of the young under age 25 years practicing crop only and crop and livestock agriculture, respectively. In the case of persons who are engaged in livestock only, the involvement of the young population who are under age 25 years (9.4 percent) is not as large as one would expect.

Figure III.1 Distribution of Population of Agricultural Households by Sex and Age in Single Year (Urban + Rural)

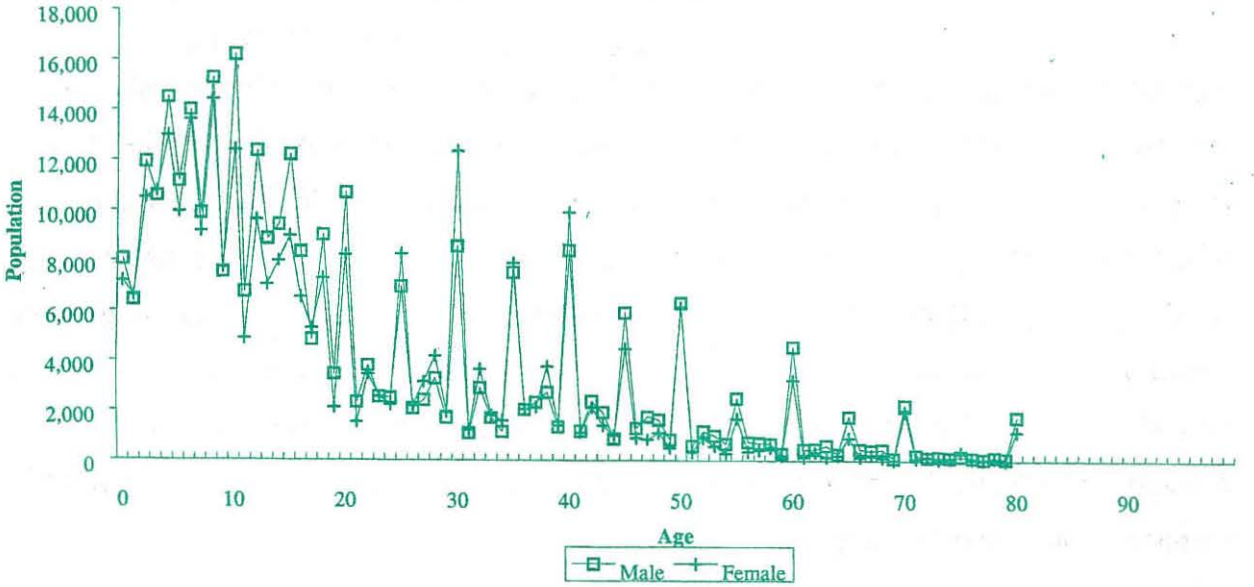


Figure III.2 Age-Sex Distribution of Population in Agricultural Households (urban + rural)

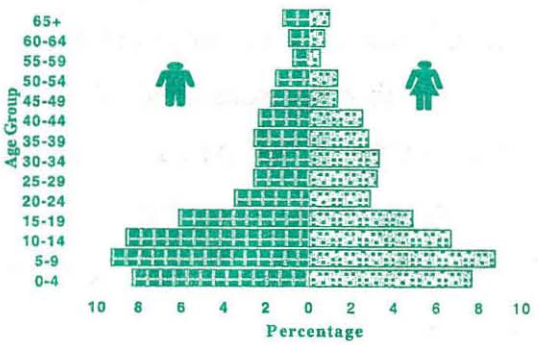
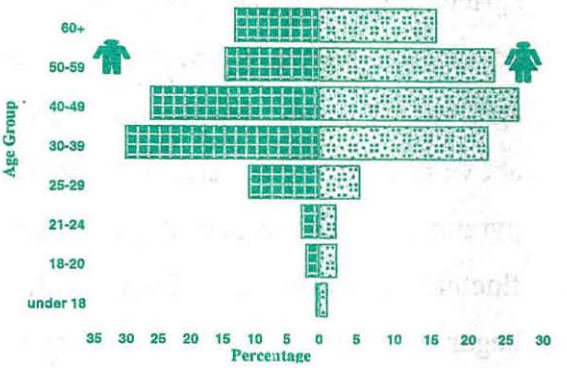


Figure III.3 Age-Sex Distribution of Population of Agricultural Holders (urban + rural)



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 Agricultural HHs	Total Holders	Holders by Type of Holding			Total Population in Agricultural HHs	Total Holders	Holders by Type of Holding			Total Population in Agricultural 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	622,562	113,910	12,100	20,464	81,346	561,107	103,092	10,940	12,932	79,220	61,455	10,817	1,160	7,532	2,126
	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Under 18	56.9	0.6	*	2.7	0.1	57.1	0.6	*	3.5	0.1	55.3	1.1	*	1.5	-
18 - 20	6.6	2.0	2.8	3.6	1.5	6.4	2.1	2.9	4.7	1.6	7.9	1.5	1.6	1.7	0.6
21 - 24	3.4	2.6	2.9	3.1	2.4	3.3	2.7	2.9	3.8	2.5	3.9	1.9	3.1	2.0	0.8
25 - 29	5.8	10.0	13.5	7.3	10.2	5.9	10.4	14.2	8.1	10.3	5.2	5.8	7.1	5.8	5.0
30 - 39	11.1	28.9	29.2	25.8	29.6	11.2	29.3	29.7	25.9	29.8	10.2	24.6	25.0	25.5	21.2
40 - 49	8.0	26.3	18.5	24.1	28.0	8.0	26.1	17.5	22.0	27.9	8.2	28.6	28.0	27.6	32.3
50 - 59	4.2	16.1	18.8	16.9	15.5	4.2	15.7	18.7	16.4	15.2	4.8	19.4	19.3	17.8	25.1
60+	3.9	13.5	13.6	16.5	12.7	3.9	13.1	13.4	15.7	12.6	4.4	17.1	15.6	18.0	14.9
Male															
All Ages	326,721	95,081	9,655	13,634	71,792	295,214	87,769	8,769	8,843	70,156	31,507	7,312	885	4,791	1,636
	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Under 18	57.7	0.5	*	2.5	0.1	57.8	0.4	*	3.1	0.1	57.2	1.0	*	1.4	-
18 - 20	7.1	2.0	3.1	3.1	1.6	6.9	2.0	3.2	3.8	1.6	8.6	1.4	1.5	1.7	*
21 - 24	3.4	2.7	3.2	3.1	2.5	3.4	2.7	3.1	3.8	2.6	4.0	1.9	3.7	2.0	0.9
25 - 29	5.0	10.9	16.5	7.2	10.8	5.1	11.3	17.5	8.1	11.0	4.1	5.6	7.3	5.5	5.0
30 - 39	9.6	30.1	30.3	26.9	30.7	9.8	30.5	30.6	27.6	30.9	7.8	24.7	27.3	25.4	21.3
40 - 49	8.1	26.2	18.1	24.7	27.6	8.0	25.9	16.9	22.7	27.5	8.2	29.5	30.4	28.4	32.4
50 - 59	4.5	14.6	15.7	15.4	14.3	4.4	14.2	15.6	14.3	14.0	5.2	19.0	16.7	17.6	24.5
60+	4.5	13.1	12.6	17.1	12.4	4.5	12.8	12.6	16.6	12.4	4.9	16.8	12.8	18.0	15.6
Female															
All Ages	295,840	18,829	2,445	6,829	9,554	265,893	15,324	2,171	4,089	9,064	29,947	3,505	274	2,741	490
	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Under 18	56.1	1.1	*	2.2	-	56.4	1.0	*	2.8	-	53.3	1.1	-	1.5	-
18 - 20	6.0	2.4	*	4.6	1.2	5.8	2.6	*	6.6	1.1	7.1	1.7	2.2	1.6	1.6
21 - 24	3.3	2.3	*	3.1	1.8	3.3	2.4	*	3.7	1.9	3.9	1.9	*	2.2	*
25 - 29	6.7	5.5	1.4	7.5	5.0	6.7	5.3	*	8.2	5.0	6.3	6.2	6.2	6.4	5.1
30 - 39	12.8	22.7	24.9	23.6	21.4	12.8	22.3	25.9	22.2	21.5	12.8	24.4	17.5	25.7	20.8
40 - 49	7.9	26.8	20.0	22.9	31.3	7.9	26.8	19.9	20.6	31.3	8.3	26.6	20.4	26.2	31.8
50 - 59	3.9	23.6	30.8	19.5	24.7	3.9	24.4	31.1	20.4	24.6	4.4	20.3	27.7	18.3	27.3
60+	3.3	15.7	17.7	16.6	14.5	3.2	15.2	16.8	15.7	14.6	3.8	17.8	25.2	18.0	12.4
Sex Ratio	110.4	505.0	394.9	199.6	751.4	111.0	572.8	403.9	216.3	774.0	105.2	208.6	323.0	174.8	333.9

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 sedentary population in agricultural households by holding status and type of holding for the region are calculated and presented at the bottom of Summary Table III.4. In a population where there is no sex selective migration, the overall 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 Somali Region, the overall sex ratio is found to be 110.4, showing excess of males over females. The situation holds true in both rural and urban areas, however, the result in rural areas shows a sex ratio of 111.0 which is relatively higher than that in urban areas (105.2).

The table further shows a sex ratio of 505.0 for agricultural holders. That is, for every 100 female holders there are 505 male holders. The excess of male holders over female holders is extremely large among those practicing crop and livestock agriculture. The pattern observed at regional level appears true in both urban and rural areas with urban holders showing relatively lower sex ratios for all types of holdings.

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 in the sedentary areas of the region 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 110,856 agricultural households in Somali Region. These households all together accommodate 622,562 persons, resulting in average household size of 5.6 persons per agricultural household. Regarding the distribution of persons per household, the data in the table shows that, the majority of households have 6-9 persons (42.7 percent) followed by those with 4-5 persons (30.4 percent) and 2-3 persons (17.3 percent). Single person households and households with 10 and more persons each comprise about 3 percent and 7 percent, respectively.

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 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	622,562	110,856	100	2.8	17.3	30.4	42.7	6.9	5.6
Male Head	541,369	92,622	100	1.8	15.0	29.7	45.8	7.7	5.8
Female Head	81,193	18,235	100	8.1	29.0	33.8	26.7	2.6	4.5
Rural									
Total	561,107	100,099	100	2.6	17.3	30.6	42.7	6.7	5.6
Male Head	495,236	85,002	100	1.7	15.1	30.0	45.8	7.5	5.8
Female Head	65,871	15,097	100	8.2	30.1	34.3	25.4	2.1	4.4
Urban									
Total	61,455	10,758	100	4.2	16.8	28.3	42.1	8.5	5.7
Male Head	46,132	7,620	100	2.9	14.0	27.1	46.0	10.0	6.1
Female Head	15,322	3,138	100	7.5	23.7	31.2	32.7	4.9	4.9

Average household size for agricultural households in urban areas is slightly higher than that in 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 person. In rural and urban areas, about 8.2 percent and 7.5 percent of female-headed agricultural households are occupied by women living alone, respectively.

As presented in Summary Table III.6, Liben Zone has relatively higher average household size, closely followed by Jijiga Zone, while the lowest average household size was observed in Shinile Zone (4.6). Similar pattern holds true in rural areas. In urban areas, Jijiga Zone registered the highest average household size, very closely followed by Liben Zone.

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
Somali Region	5.6	5.8	4.5	5.6	5.8	4.4	5.7	6.1	4.9
Shinile	4.6	5.0	3.6	4.5	4.8	3.5	4.9	5.5	3.9
Jijiga	5.6	5.8	4.3	5.5	5.8	4.1	5.9	6.2	5.2
Liben	6.0	6.2	5.1	6.0	6.3	5.1	5.7	6.0	4.7

3 SOCIO-ECONOMIC CHARACTERISTICS OF THE POPULALTION IN AGRICULTURAL HOUSEHOLDS

In addition, the 2001/2002 Ethiopian Agricultural Sample Enumeration has collected some basic social and economic characteristics of the sedentary 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 the sedentary areas of the Somali Region. Among both the males and the females the majority of the population in agricultural households are the children of heads (60.6 percent). Next to children of heads are the heads (17.8 percent) and the spouses (13.9 percent). The proportion of heads among the males 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 breadwinner in the household as well as the one who merely bear responsibility.

The overwhelming majority of both male and female holders (96.9 percent, and 93.4 percent, respectively) are heads of households and this dominancy of heads of households is highly pronounced in the crop and livestock, holding. Children and spouses have no noticeable contribution among all types of holding and this phenomenon holds true in both rural and urban areas.

3.2 Marital Status

This section presents the level and pattern of marital status of the population in the agricultural households in the sedentary areas of the Somali 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.

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	622,562	113,910	12,100	20,464	81,346	561,107	103,092	10,940	12,932	79,220	61,455	10,817	1,160	7,532	2,126
Head	17.8	96.3	88.8	90.5	98.8	17.8	96.5	87.8	88.9	98.9	17.5	94.6	98.7	93.3	96.9
Spouse	13.9	0.9	0.2	3.7	0.3	14.1	0.6	*	3.5	*	12.4	3.4	0.7	4.0	2.7
Children	60.6	1.2	2.2	3.2	0.5	60.4	1.1	2.4	3.8	0.5	62.5	1.6	*	2.2	*
Mother/Father	1.7	0.2	*	*	*	1.8	0.2	*	*	*	0.8	*	-	*	0.1
Sister/Brother	2.8	0.8	3.8	1.4	0.2	2.9	0.9	4.2	2.1	0.2	1.8	0.2	0.2	0.2	-
Other Relatives	3.0	*	3.6	*	*	2.8	*	*	*	*	4.5	0.2	0.2	0.3	*
Non-Relative	0.3	*	-	*	-	0.3	*	-	*	-	0.7	-	-	-	-
Male															
All Persons	326,721	95,081	9,655	13,634	71,792	295,214	87,769	8,769	8,843	70,156	31,507	7,312	885	4,791	1,636
Head	28.3	96.9	87.3	92.9	98.9	28.8	96.8	86.1	90.5	98.9	24.2	98.0	99.1	97.4	99.3
Spouse	0.7	0.2	*	*	0.1	0.6	0.2	*	*	*	1.8	0.1	*	*	0.2
Children	63.6	1.2	2.3	3.5	0.6	63.3	1.1	2.5	4.2	0.6	66.5	1.5	*	2.2	*
Mother/Father	0.6	*	*	*	*	0.6	*	*	*	*	0.3	*	-	-	0.2
Sister/Brother	3.2	0.9	4.8	1.6	*	3.3	1.0	5.2	*	*	2.0	0.1	0.2	0.1	-
Other Relatives	3.2	*	4.5	*	*	3.0	*	*	*	*	4.8	0.2	0.2	0.3	*
Non-Relative	0.4	*	-	*	-	0.4	*	-	*	-	0.5	-	-	-	-
Female															
All Persons	295,840	18,829	2,445	6,829	9,554	265,893	15,324	2,171	4,089	9,064	29,947	3,505	274	2,741	490
Head	6.2	93.4	94.9	85.7	98.5	5.7	94.7	94.6	85.3	99.0	10.5	87.5	97.8	86.2	89.2
Spouse	28.5	4.4	*	10.0	*	29.0	3.0	*	9.3	*	23.5	10.2	*	10.9	10.8
Children	57.2	1.1	*	2.6	-	57.1	1.0	*	2.9	-	58.2	1.7	-	2.1	-
Mother/Father	2.9	*	*	*	*	3.1	*	*	*	*	1.3	*	-	*	-
Sister/Brother	2.4	0.4	-	1.0	*	2.5	0.5	-	1.5	*	1.6	0.3	-	0.3	-
Other Relatives	2.7	*	-	*	-	2.5	-	-	-	-	4.0	0.3	-	0.4	-
Non-Relative	0.2	-	-	-	-	0.1	-	-	-	-	0.9	-	-	-	-

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, 44 percent 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 little less than half (47.9 percent), while 8.0 percent have dissolved their marriage due to divorce or the death of the spouse. The data further show 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 over whelming majority (78.6 percent) were in marital union at the time of the census.

About 96.3 percent and 71.8 percent of the young (aged 10-17 years) female population in agricultural households, and the holders, respectively are single, indicating late start of marriage in the region's female population. 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 one percent for each of the males and 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 Somali 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	410,112	217,275	192,837	47.9	55.1	39.8	44.2	41.2	47.5	2.1	1.5	2.7	5.7	2.1	9.8
10 - 17	141,952	79,115	62,837	97.8	99.0	96.3	2.0	0.8	3.4	0.1	*	0.2	*	*	-
18 - 29	98,134	50,879	47,255	54.6	75.0	32.8	42.3	22.5	63.6	2.4	1.9	2.9	0.6	0.6	0.5
30 - 49	119,240	57,782	61,457	3.0	5.1	1.0	86.6	88.1	85.2	3.8	3.2	4.4	6.6	3.6	9.5
50+	50,787	29,498	21,289	1.1	1.2	1.0	66.1	89.8	33.3	3.0	1.7	5.0	29.4	7.0	60.5
Holders															
All Ages	113,826	95,056	18,771	5.6	6.2	2.2	78.6	88.5	28.8	3.8	2.0	13.1	11.9	3.2	55.8
10 - 17	560	418	142	92.3	99.3	71.8	*	0.7	*	-	-	-	-	-	-
18 - 29	16,682	14,765	1,916	24.8	26.5	11.6	69.9	70.7	63.8	3.7	1.9	17.0	1.6	0.8	7.6
30 - 49	62,850	53,537	9,313	2.1	2.3	0.6	83.6	92.0	35.5	4.4	2.3	16.6	9.9	3.4	47.3
50+	33,735	26,336	7,399	1.1	1.2	*	74.8	92.6	11.4	2.8	1.4	8.0	21.0	4.4	80.1

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	367,753	195,745	172,008	47.4	54.6	39.1	44.8	41.6	48.5	2.0	1.6	2.6	5.7	2.1	9.8
10 - 17	127,048	71,064	55,985	97.8	99.1	96.2	2.0	0.7	3.5	0.1	*	0.2	*	*	-
18 - 29	87,700	45,616	42,084	53.0	73.9	30.4	44.0	23.5	66.3	2.3	2.0	2.7	0.6	0.6	0.5
30 - 49	107,891	52,758	55,134	2.7	4.6	0.8	87.1	88.4	85.9	3.7	3.3	4.2	6.5	3.7	9.1
50+	45,113	26,307	18,806	1.1	1.2	*	66.1	89.9	32.8	2.8	1.5	4.6	29.7	7.0	61.3
Holders															
All Ages	103,009	87,744	15,265	5.7	6.3	2.0	79.3	88.3	27.3	3.6	2.0	13.0	11.3	3.2	57.7
10 - 17	449	347	102	91.1	100.0	60.8	*	-	*	-	-	-	-	-	-
18 - 29	15,687	14,114	1,573	25.1	26.7	10.7	69.8	70.4	64.0	3.5	2.0	17.2	1.6	0.9	8.0
30 - 49	57,094	49,568	7,526	2.0	2.3	0.6	84.3	92.0	33.6	4.3	2.4	16.9	9.4	3.4	49.0
50+	29,779	23,714	6,065	1.1	1.3	*	75.8	92.6	9.9	2.5	1.3	7.3	20.2	4.4	82.3

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	42,359	21,530	20,829	52.7	59.3	45.9	38.3	37.1	39.6	2.6	1.4	4.0	6.1	1.9	10.4
10 - 17	14,904	8,052	6,852	97.4	97.6	97.2	2.0	1.8	2.3	*	-	0.1	-	-	-
18 - 29	10,434	5,263	5,171	68.1	83.9	52.0	28.0	14.4	41.8	3.3	1.2	5.4	0.5	0.4	0.7
30 - 49	11,348	5,024	6,324	5.9	9.3	3.1	81.6	84.8	79.0	4.3	2.6	5.6	8.3	3.2	12.3
50+	5,673	3,191	2,482	1.0	1.1	0.8	65.9	88.4	37.0	5.0	3.0	7.5	27.8	7.2	54.4
Holders															
All Ages	10,817	7,312	3,505	4.4	4.9	3.3	72.1	89.8	35.3	5.6	1.8	13.7	17.7	3.3	47.8
10 - 17	111	71	40	97.3	95.8	100.0	2.7	4.2	-	-	-	-	-	-	-
18 – 29	994	651	344	20.2	22.6	15.7	71.8	76.3	62.8	6.1	0.9	16.0	1.8	-	5.2
30 – 49	5,756	3,969	1,787	2.5	3.3	0.8	76.7	91.6	43.7	6.1	1.9	15.3	14.7	3.3	40.1
50+	3,956	2,622	1,334	0.6	0.6	0.4	67.5	92.7	17.9	5.1	1.9	11.4	26.6	4.3	70.4

**Percentages of persons who do not state 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 completed and response were classified as non formal education and grades completed in the formal 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/socially 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 sedentary areas of Somali 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 25.6 percent of the population in the agricultural households of Somali Region to be literate. The literacy level among the urban dwellers (55.3 percent) is

about two and half times higher than that of rural areas (22.2 percent). The census result also shows that, relatively, more males than females to be literate in both rural and urban areas. For instance, in rural areas 33.9 percent of males against 9 percent of females were literate.

About 16.6 percent and 17.1 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 4.7 percent and 23.7 percent of the population in agricultural households of the rural and urban areas, respectively. On the other hand, very small proportion (only 0.9 percent) of the population in the rural areas of agricultural households and a relatively higher proportion (14.4 percent) of the population in the urban agricultural households have attained an educational level of above primary school.

The proportions of literates show some variation among the agricultural holders and non-holders. In urban areas in particular, non holders are more literate than holders among both the males and female. On the other hand, those who are livestock only holders are slightly better off in terms of level of education than those engaged in crop only and crop and livestock agriculture.

With respect to the proportion of literates, population in agricultural households of Liben Zone has the highest level (34.5 percent) and the advantage of Liben Zone in this regard is registered for both members other than holders and agricultural holders (see Summary Table III.10). In Liben and Shinile Zones crop only holders are more literate than the other types of holdings, while those engaged in livestock only agriculture are more literate in Jijiga Zone.

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 Household	Non-Holders	All Holders	Type of Holding		
				Crop Only	Livestock Only	Crop & Livestock
Rural + Urban						
Male + Female						
Total	410,112	296,286	113,826	12,062	20,419	81,346
	100	100	100	100	100	100
Illiterate	74.4	75.7	70.9	67.5	64.6	73.0
Non-Formal	16.6	14.6	22.0	24.3	22.1	21.7
Primary	6.7	7.5	4.6	5.4	7.4	3.8
Above Primary	2.3	2.3	2.5	2.8	5.9	1.6
Male						
Total	217,275	122,219	95,056	9,655	13,610	71,792
	100	100	100	100	100	100
Illiterate	62.6	59.1	67.1	60.2	54.0	70.5
Non-Formal	24.5	23.9	25.2	29.7	29.5	23.8
Primary	9.6	13.2	5.0	6.6	8.8	4.1
Above Primary	3.3	3.8	2.8	3.4	7.7	1.7
Female						
Total	192,837	174,067	18,771	2,407	6,810	9,554
	100	100	100	100	100	100
Illiterate	87.6	87.3	90.4	96.8	85.7	92.1
Non-Formal	7.8	8.0	6.1	2.6	7.4	6.0
Primary	3.5	3.5	2.6	-	4.7	1.6
Above Primary	1.2	1.2	1.0	-	2.2	-
Rural						
Male + Female						
Total	367,753	264,744	103,009	10,902	12,887	79,220
	100	100	100	100	100	100
Illiterate	77.8	79.9	72.3	68.6	68.8	73.4
Non-Formal	16.6	14.3	22.4	25.0	24.6	21.6
Primary	4.7	5.1	3.9	4.8	4.8	3.7
Above Primary	0.9	0.7	1.4	1.6	1.8	1.3
Male						
Total	195,745	108,001	87,744	8,769	8,819	70,156
	100	100	100	100	100	100
Illiterate	66.1	64.0	68.8	61.6	58.9	71.0
Non-Formal	25.0	24.8	25.3	30.4	32.7	23.7
Primary	7.4	9.9	4.4	6.0	5.9	4.0
Above Primary	1.4	1.3	1.6	2.0	2.5	1.4

Summary Table III.9 (Cont'd)

Level of Education and Sex	Total Population in Agricultural Household	Non-Holders	All Holders	Type of Holding		
				Crop Only	Livestock Only	Crop & Livestock
Female						
Total	172,008	156,743	15,265	2,132	4,069	9,064
	100	100	100	100	100	100
Illiterate	91.0	90.8	92.7	97.5	90.3	92.6
Non-Formal	7.0	7.1	5.6	2.6	7.0	5.7
Primary	1.7	1.8	1.5	-	-	1.5
Above Primary	0.3	0.3	-	-	-	-
Urban						
Male + Female						
Total	42,359	31,542	10,817	1,160	7,532	2,126
	100	100	100	100	100	100
Illiterate	44.7	40.4	57.2	57.2	57.4	56.3
Non-Formal	17.1	16.5	19.0	17.9	17.8	23.6
Primary	23.7	28.1	11.0	10.7	12.0	7.5
Above Primary	14.4	15.0	12.9	14.1	12.8	12.6
Male						
Total	21,530	14,218	7,312	885	4,791	1,636
	100	100	100	100	100	100
Illiterate	30.4	22.3	46.0	46.4	45.1	48.6
Non-Formal	19.5	17.0	24.2	22.7	23.4	27.1
Primary	29.6	38.2	12.8	12.9	14.3	8.6
Above Primary	20.6	22.4	17.0	18.1	17.2	15.7
Female						
Total	20,829	17,324	3,505	274	2,741	490
	100	100	100	100	100	100
Illiterate	59.5	55.3	80.4	92.7	78.8	82.2
Non-Formal	14.7	16.1	8.2	2.6	8.1	11.8
Primary	17.6	19.7	7.2	-	8.2	3.9
Above Primary	8.1	8.9	4.3	-	5.0	2.0

Summary Table III.10 Proportion Literate Among Population in Agricultural House-holds Aged 10 Years and Over by Holding Status, Type of Holding, Zone and Place of Residence

Zones	Place of Residence	Total Population in Agricultural HHs	Total Holders	Type of Holding			Members Other than Holders
				Crop Only	Livestock Only	Crop and Livestock	
Somali Region							
	Rural + urban	25.6	29.1	32.5	35.4	27.0	24.3
	Rural	22.2	27.7	31.4	31.2	26.6	20.1
	Urban	55.3	42.8	42.7	42.6	43.7	59.6
Shinile							
	Rural + urban	17.3	14.8	25.3	15.5	12.6	18.4
	Rural	15.3	14.7	25.4	16.2	12.0	15.5
	Urban	24.3	15.0	24.1	13.9	18.9	28.1
Jijiga							
	Rural + urban	23.3	25.5	28.9	37.7	23.5	22.4
	Rural	19.1	23.5	27.3	21.4	23.0	17.4
	Urban	61.9	46.9	42.2	49.4	43.5	66.7
Liben							
	Rural + urban	34.5	43.5	51.9	39.9	44.9	31.1
	Rural	32.8	43.3	51.6	39.2	44.5	29.0
	Urban	49.4	45.2	64.2	42.4	65.5	50.9

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 sedentary 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 Somali Region classified by sex, age group and work status is presented in Summary Table III.11. According to the census result, out of the total 410,113 persons aged 10 years and over who are members of the agricultural households in the region, 65.6 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 substantially higher than that of females, that is, 86.4 percent of the males against 42.1 percent among the females were engaged in productive activity during the 12 months prior to the survey date.

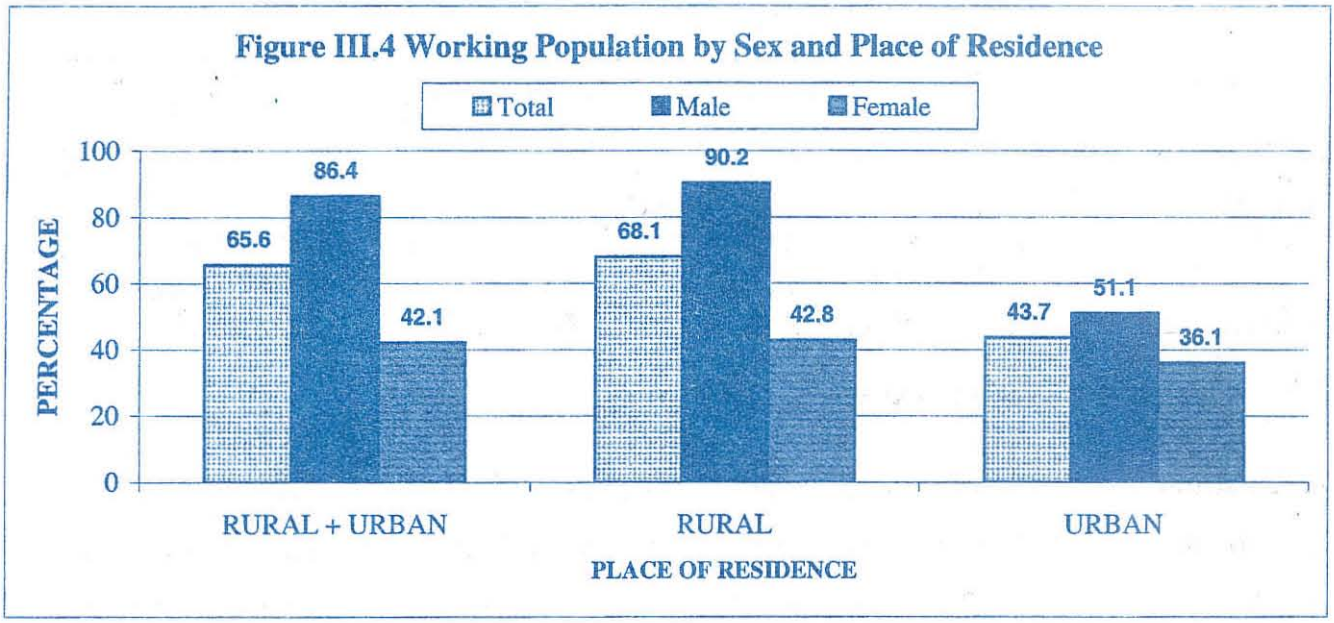
Consistent with previous surveys, engagement in productive activity is higher in the rural areas than that of the urban areas of the region. In rural areas more than two-thirds of the agricultural population was working during most of the 12 months prior to the survey date. Whereas, the working persons in urban areas constituted about 43.7 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 wide range of gender disparity in rural areas (see Figure III.4).

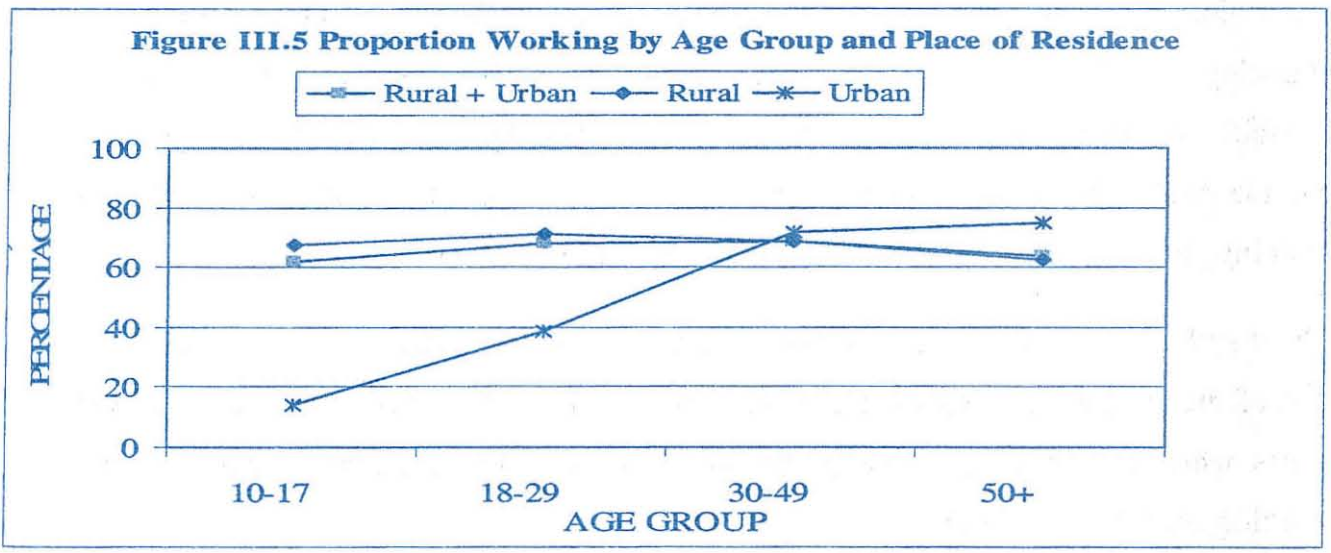
As can be seen from Figure III.5 engagement in productive activity is highest for persons of middle age (30 -49 years). As expected, the proportion working is lowest for the children aged 10-17 years. This phenomenon holds true for both the males and the females in rural as well as in urban areas. One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

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

Percent Not Working	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	%		
Total												
All Ages	410,112	100	65.6	34.3	367,753	100	68.1	31.8	42,359	100	43.7	56.1
10-17	141,952	100	61.8	38.0	127,048	100	67.4	32.5	14,904	100	14.2	85.2
18-29	98,104	100	67.9	32.1	87,700	100	71.3	28.6	10,434	100	38.6	61.4
30-49	119,240	100	68.8	31.2	107,891	100	68.6	31.4	11,348	100	71.5	28.5
50+	50,787	100	63.9	35.8	45,113	100	62.5	37.1	5,673	100	75.0	24.9
Male												
All Ages	217,275	100	86.4	13.5	195,745	100	90.2	9.7	21,530	100	51.0	48.7
10-17	79,115	100	75.1	24.7	71,064	100	81.9	18.0	8,052	100	15.1	84.3
18-29	50,876	100	90.6	9.4	45,616	100	95.8	4.2	5,263	100	45.5	54.5
30-49	57,782	100	98.3	1.7	52,758	100	98.9	1.1	5,024	100	92.1	7.9
50+	29,407	100	86.0	14.0	26,307	100	85.7	14.0	3,191	100	86.3	13.6
Female												
All Ages	192,837	100	42.1	57.8	172,008	100	42.8	57.1	20,829	100	36.1	63.7
10-17	62,837	100	45.0	54.8	55,985	100	48.9	51.0	6,852	100	13.2	86.3
18-29	47,228	100	43.4	56.6	42,084	100	44.8	55.1	5,171	100	31.5	68.4
30-49	61,457	100	41.1	58.9	55,134	100	39.5	60.5	6,324	100	55.2	44.8
50+	21,205	100	33.7	66.3	18,806	100	30.1	69.5	2,482	100	60.4	39.5

*Percentages of persons who do not state their Work Status are not shown in the table.





Summary Table III.12 presents the proportion of working population in agricultural households by zone, place of residence and sex. The levels of engagement in productive activity show some variation between zones. In both rural and urban areas, the highest proportion engaged in productive activity (81.9 percent, and 52.6 percent) is registered for Shinile Zone followed by Liben Zone (70.6 Percent, and 50.5 percent). In all the zones males have higher engagement level than females, the gap being wider for rural of Jijiga Zone and for urban of Jijiga and Liben Zones.

Summary Table III.12 Proportion of Population in Agricultural Households Aged 10 Years and Over 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
Somali Region	65.6	86.5	42.1	68.1	90.3	42.9	43.8	51.2	36.2
Shinile	75.0	82.7	68.4	81.9	90.5	73.4	52.6	54.5	50.7
Jijiga	63.9	88.0	36.4	66.5	92.1	36.8	40.3	48.2	32.0
Liben	68.5	82.4	53.6	70.6	85.0	54.9	50.5	58.7	41.8

3.5 Reason for Not Working

The distribution of non-working population in agricultural households of the sedentary areas of the Somali Region 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 87.1 percent (70.3%+16.8%). Disability or illness, and old age have very little contribution. The patterns, in the urban and the rural areas are not similar, where home makers constituting the majority of non-working population in rural areas while students dominating in urban areas.

The distribution of reasons for not working among the male population is different from that of the females. Students make up the majority (58.7 percent) among non-working males while homemaking is the single most important (84.6 percent) reason for not working among the females.

The pattern of reason for not working varies as age increases. Home makers make up the majority (59.1 percent) of non working population aged 10-17 years, followed by students (35.1 percent). Homemakers and being a student are important reasons among those aged 18-29 years, home making leading with very wide gap. Again homemakers constitute the overwhelming majority (94.5 percent) of non-working population aged 30-49 years, while old age/pension together with home making are the major reason for not working among those aged 50 years and above.

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

Back ground Variables	Reason for not Working					
	Total not Working	Student	Home Maker	Disabled /ill	Old Age/ Pension	Others
All Persons	140,851	16.8	70.3	1.5	7.3	4.1
Place of Residence						
Rural	117,103	10.2	76.9	1.7	8.0	3.1
Urban	23,747	49.2	37.6	0.7	3.4	9.1
Sex						
Male	29,402	58.7	16.3	3.2	11.0	10.8
Female	111,449	5.8	84.6	1.1	6.3	2.3
Age						
10-17	54,008	35.1	59.1	1.2	*	4.4
18 - 29	31,518	14.2	81.2	0.8	*	3.7
30 - 49	37,163	0.4	94.5	1.0	0.8	3.3
50+	18,162	*	35.2	5.0	53.8	5.6
Zones						
Shinile	4,722	24.5	49.6	1.3	11.8	12.6
Jijiga	105,501	14.3	72.7	1.6	7.7	3.7
Liben	30,628	24.3	65.3	1.5	5.0	4.0

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 of the sedentary areas of the Somali Region 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 about 74 percent of the population in agricultural households aged 10 years and over was engaged in fully agricultural activities, while only about 22 percent of the population was engaged in partially agricultural activities. The proportion of population engaged only in non-agricultural activities was small, amounting to 4.1 percent. In line with the expectations, in urban areas the proportion engaged in fully agricultural activities is less than those who engaged in partial or non agricultural activities.

Similar pattern of type of occupation was observed among the males and the females, with higher proportion of females than males engaged in partial agricultural and non-agricultural activities. Also there is little variation by age in the type of occupation. All the zones have similar distribution of type of occupation for the population in agricultural households. Liben Zone depicted substantially higher proportion of non-agricultural population.

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

Back ground Variables	Total Working		Fully Agricultural	Partially Agricultural	Non Agricultural
	No.	%			
All Persons	268,841	100	74.1	21.8	4.1
Place of Residence					
Rural	250,328	100	76.4	20.8	2.7
Urban	18,513	100	43.3	34.3	22.4
Sex					
Male	187,639	100	82.3	15.0	2.7
Female	81,202	100	55.3	37.3	7.4
Age					
10 - 17	87,728	100	71.6	25.8	2.6
18 - 29	66,586	100	70.4	22.9	6.8
30 - 49	82,077	100	76.4	19.4	4.2
50+	32,450	100	83.1	14.5	2.3
Zones					
Shinile	14,466	100	81.7	14.9	3.4
Jijiga	187,297	100	75.8	21.2	3.0
Liben	67,077	100	67.9	24.9	7.3

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, unpaid family workers constituted the highest proportion (58.2 percent) of the sedentary population in agricultural households who are engaged in agricultural activities.

About 40.4 percent of the working population were own account workers working in their farms alone or with the help of family members but with out hiring labor. The proportion who hires others in farm is about one percent, showing the low capacity of the region's agricultural industry to create employment opportunity for non-holders. On the other hand, only 0.7 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

Place of Residence Age/Sex	Total Engaged in Agricultural Activities		Employer	Own Account Worker	Employee	Unpaid Family Worker	Others
	No	%					
All Persons							
Place of Residence	257,847	100	0.7	40.4	0.7	58.2	*
Rural	243,480	100	0.6	38.5	0.7	60.1	-
Urban	14,367	100	1.3	72.0	0.7	25.9	*
Sex							
Male	182,646	100	0.7	49.2	0.9	49.2	-
Female	75,201	100	0.7	18.9	0.3	80.1	*
Age							
10-17	85,420	100	*	0.6	1.1	98.1	-
18 - 29	62,088	100	0.4	24.5	0.9	74.2	*
30 - 49	78,644	100	1.0	76.2	0.3	22.5	-
50+	31,694	100	1.8	90.0	0.1	8.1	-
Zones							
Shinile	13,975	100	0.9	40.1	1.1	58.0	-
Jijiga	181,660	100	0.6	41.1	0.8	57.5	-
Liben	62,212	100	0.7	38.4	0.4	60.5	*

The situations in urban and rural areas are different, where the tendency to work for the family without payment is less common in urban areas. Also, being employer is relatively higher in the urban areas than the rural areas. The overwhelming majority (80 percent) of female respondents in agricultural households who are engaged in agricultural activities are unpaid family workers while self-employment (own account) is relatively the common type of employment status (49.2 percent) among males, showing the dominance of males over females 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
Somali Region												
Rural + Urban	622,562	47.5	508,652	55.0	113,910	17.0	12,100	20.0	20,464	33.0	81,346	12.0
Rural	561,107	47.4	458,015	55.0	103,092	15.0	10,940	20.0	12,932	32.0	79,220	11.0
Urban	61,455	48.7	50,637	52.0	10,817	32.0	1,160	24.0	7,532	36.0	2,126	23.0
Shinile Zone												
Rural + Urban	27,528	50.1	21,475	57.0	6,053	27.0	336	19.0	3,079	38.0	2,638	15.0
Rural	21,408	49.7	16,599	57.0	4,810	23.0	307	18.0	2,092	34.0	2,411	14.0
Urban	6,120	51.3	4,876	54.0	1,244	41.0	29	28.0	987	46.0	227	20.0
Shinile Wereda												
Rural + Urban	14,601	50.9	11,429	56.0	3,172	32.0	70	17.0	2,305	37.0	796	20.0
Rural	8,481	50.7	6,553	58.0	1,928	27.0	41	*	1,317	30.0	569	19.0
Urban	6,120	51.3	4,876	54.0	1,244	41.0	29	28.0	987	46.0	227	20.0
Erer Wereda												
Rural + Urban	12,927	49.1	10,045	57.0	2,882	21.0	266	19.0	774	41.0	1,842	12.0
Rural	12,927	49.1	10,045	57.0	2,882	21.0	266	19.0	774	41.0	1,842	12.0
Urban	-	-	-	-	-	-	-	-	-	-	-	-
Jijiga Zone												
Rural + Urban	444,272	47.3	362,900	55.0	81,372	14.0	9,850	20.0	7,376	37.0	64,146	10.0
Rural	403,394	47.2	329,026	55.0	74,368	12.0	8,772	20.0	3,081	35.0	62,515	10.0
Urban	40,878	48.8	33,875	52.0	7,004	33.0	1,078	25.0	4,295	39.0	1,631	25.0
Jijiga Wereda												
Rural + Urban	202,962	47.6	162,856	56.0	40,106	14.0	7,476	21.0	3,321	49.0	29,309	8.0
Rural	186,006	47.5	148,922	56.0	37,084	12.0	7,058	21.0	1,095	64.0	28,931	8.0
Urban	16,956	48.8	13,934	52.0	3,022	35.0	418	13.0	2,225	42.0	378	21.0
Teferi Ber Wereda												
Rural + Urban	130,975	46.4	108,289	54.0	22,686	12.0	1,635	17.0	1,424	22.0	19,627	11.0
Rural	120,087	46.3	99,203	54.0	20,884	11.0	1,281	14.0	725	*	18,877	11.0
Urban	10,888	47.8	9,086	52.0	1,802	28.0	354	31.0	699	36.0	750	19.0

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
Kebri Beyah Wereda												
Rural + Urban	110,335	47.8	91,755	54.0	18,580	15.0	739	21.0	2,631	31.0	15,210	12.0
Rural	97,301	47.6	80,900	55.0	16,401	12.0	433	*	1,261	*	14,706	11.0
Urban	13,034	49.4	10,855	52.0	2,179	36.0	305	33.0	1,370	35.0	503	38.0
Liben Zone												
Rural + Urban	150,762	47.7	124,278	53.0	26,484	23.0	1,914	20.0	10,009	29.0	14,561	19.0
Rural	136,305	47.7	112,391	53.0	23,914	22.0	1,861	20.0	7,759	30.0	14,294	19.0
Urban	14,457	47.6	11,887	52.0	2,570	26.0	53	-	2,250	28.0	267	13.0
Filtu Wereda												
Rural + Urban	38,666	46.1	32,412	51.0	6,254	19.0	214	21.0	2,003	28.0	4,037	14.0
Rural	38,375	46.1	32,161	51.0	6,214	19.0	213	21.0	1,966	28.0	4,035	14.0
Urban	291	42.3	251	44.0	40	30.0	1	-	37	32.0	2	-
Dolo Odo Wereda												
Rural + Urban	60,889	47.7	49,507	53.0	11,382	25.0	413	*	5,950	31.0	5,019	19.0
Rural	46,723	47.7	37,870	53.0	8,852	25.0	361	*	3,737	33.0	4,754	19.0
Urban	14,166	47.7	11,636	53.0	2,530	26.0	52	-	2,213	28.0	265	13.0
Moyale Wereda												
Rural + Urban	51,207	49.0	42,359	55.0	8,848	23.0	1,287	24.0	2,056	25.0	5,505	21.0
Rural	51,207	49.0	42,359	55.0	8,848	23.0	1,287	24.0	2,056	25.0	5,505	21.0
Urban	-	-	-	-	-	-	-	-	-	-	-	-

Table 3.2 Average Household Size of Zones and Weredas 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
Somali Region	5.6	5.8	4.5	5.6	5.8	4.4	5.7	6.1	4.9
Shinile Zone	4.6	5.0	3.6	4.5	4.8	3.5	4.9	5.5	3.9
Shinile Wereda	4.6	5.0	3.6	4.4	4.8	3.3	4.9	5.5	3.9
Erer Wereda	4.6	4.9	3.5	4.6	4.9	3.5	-	-	-
Jijiga Zone	5.6	5.8	4.3	5.5	5.8	4.1	5.9	6.2	5.2
Jijiga Wereda	5.3	5.5	3.8	5.2	5.5	3.5	5.7	6.0	5.0
Teferi Ber Wereda	5.8	5.9	4.7	5.8	5.9	4.5	6.1	6.3	5.5
Kebri Beyah Wereda	5.9	6.1	4.9	5.9	6.1	4.7	6.0	6.3	5.2
Liben Zone	6.0	6.2	5.1	6.0	6.3	5.1	5.7	6.0	4.7
Filtu Wereda	6.2	6.5	5.2	6.2	6.5	5.2	7.3	7.2	7.4
Dolo Odo Wereda	5.8	6.2	4.8	5.9	6.2	4.8	5.6	6.0	4.6
Moyale Wereda	6.0	6.2	5.4	6.0	6.2	5.4	-	-	-

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
Somali Region															
Rural + Urban	410,112	217,275	192,837	47.9	55.1	39.8	44.2	41.2	47.5	2.1	1.5	2.7	5.7	2.1	9.8
Rural	367,753	195,745	172,008	47.4	54.6	39.1	44.8	41.6	48.5	2.0	1.6	2.6	5.7	2.1	9.8
Urban	42,359	21,530	20,829	52.7	59.3	45.9	38.3	37.1	39.6	2.6	1.4	4.0	6.1	1.9	10.4
Shinile Zone															
Rural + Urban	19,279	9,516	9,763	44.6	51.9	37.5	45.8	43.9	47.5	1.1	1.0	1.3	8.0	2.2	13.7
Rural	15,038	7,449	7,590	43.7	50.6	36.9	46.7	44.9	48.4	1.2	1.2	1.3	7.8	2.2	13.4
Urban	4,241	2,068	2,173	47.8	56.2	39.8	42.5	40.7	44.2	0.9	0.5	1.2	8.7	2.4	14.8
Shinile Wereda															
Rural + Urban	10,223	4,935	5,288	45.9	52.7	39.6	44.4	42.5	46.0	1.1	0.9	1.2	7.8	2.0	13.2
Rural	5,982	2,868	3,115	44.6	50.2	39.4	45.7	43.8	47.3	1.2	*	1.2	7.1	1.7	12.1
Urban	4,241	2,068	2,173	47.8	56.2	39.8	42.5	40.7	44.2	0.9	0.5	1.2	8.7	2.4	14.8
Erer Wereda															
Rural + Urban	9,056	4,581	4,475	43.1	50.9	35.2	47.3	45.5	49.2	1.2	1.1	1.4	8.3	2.5	14.2
Rural	9,056	4,581	4,475	43.1	50.9	35.2	47.3	45.5	49.2	1.2	1.1	1.4	8.3	2.5	14.2
Urban	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jijiga Zone															
Rural + Urban	292,977	156,658	136,318	47.1	54.0	39.1	44.5	41.7	47.7	2.1	1.8	2.5	6.2	2.4	10.6
Rural	264,440	142,094	122,346	46.3	53.4	38.1	45.4	42.3	48.9	2.1	1.8	2.4	6.2	2.5	10.6
Urban	28,537	14,565	13,972	54.3	60.5	47.7	36.6	35.7	37.6	2.5	1.4	3.6	6.4	2.0	10.9
Jijiga Wereda															
Rural + Urban	131,339	69,859	61,480	43.0	50.7	34.2	47.0	44.3	50.0	2.4	2.2	2.7	7.6	2.8	13.1
Rural	118,624	63,374	55,250	41.7	49.6	32.8	48.4	45.5	51.7	2.3	2.2	2.5	7.5	2.7	13.1
Urban	12,715	6,485	6,230	54.5	61.7	47.1	33.8	33.0	34.7	3.3	1.7	4.9	8.1	3.2	13.3

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
Teferi Ber Wereda															
Rural + Urban	88,908	48,524	40,384	50.4	56.8	42.6	42.5	39.0	46.8	2.1	1.9	2.4	4.9	2.3	8.1
Rural	81,671	44,702	36,970	50.0	56.5	42.1	42.8	39.2	47.2	2.1	1.9	2.4	5.0	2.4	8.1
Urban	7,237	3,822	3,415	54.9	60.8	48.3	38.9	36.2	41.9	1.8	1.5	2.2	4.2	1.1	7.5
Kebri Beyah Wereda															
Rural + Urban	72,729	38,276	34,454	50.5	56.6	43.6	42.5	40.4	44.8	1.6	1.0	2.3	5.4	1.9	9.2
Rural	64,145	34,018	30,127	50.1	56.4	43.0	43.0	40.5	45.8	1.6	1.0	2.2	5.3	2.0	9.1
Urban	8,585	4,258	4,327	53.3	58.5	48.1	38.9	39.4	38.4	1.9	0.9	3.0	5.6	1.1	10.0
Liben Zone															
Rural + Urban	97,856	51,100	46,756	51.1	58.9	42.6	42.8	39.1	46.9	2.2	0.9	3.7	3.7	1.0	6.7
Rural	88,275	46,203	42,072	51.2	59.1	42.4	43.0	39.1	47.3	2.0	0.8	3.4	3.7	1.0	6.7
Urban	9,581	4,897	4,684	50.5	57.1	43.5	41.4	39.7	43.2	3.8	1.6	6.1	4.0	1.3	6.8
Filtu Wereda															
Rural + Urban	24,941	13,519	11,422	54.0	60.7	46.0	41.6	37.7	46.3	1.8	0.7	3.1	2.6	0.9	4.5
Rural	24,767	13,423	11,344	54.0	60.7	46.0	41.6	37.7	46.3	1.8	0.7	3.1	2.6	0.9	4.5
Urban	174	96	78	55.2	62.5	46.2	41.4	36.5	47.4	1.7	1.0	2.6	1.7	-	3.8
Dolo Odo Wereda															
Rural + Urban	40,868	21,269	19,599	51.8	59.7	43.2	40.9	37.7	44.4	2.8	0.9	4.8	4.3	1.5	7.3
Rural	31,461	16,468	14,993	52.2	60.5	43.1	40.8	37.1	44.8	2.4	0.7	4.4	4.3	1.6	7.4
Urban	9,407	4,801	4,606	50.4	57.0	43.5	41.4	39.8	43.1	3.8	1.6	6.2	4.0	1.3	6.9
Moyale Wereda															
Rural + Urban	32,047	16,312	15,735	48.0	56.4	39.3	46.2	42.2	50.4	1.8	1.0	2.6	3.9	0.3	7.6
Rural	32,047	16,312	15,735	48.0	56.4	39.3	46.2	42.2	50.4	1.8	1.0	2.6	3.9	0.3	7.6
Urban	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Geographic Area	Rural + Urban			Rural			Urban		
	Both Sex	Male	Female	Both Sex	Male	Female	Both Sex	Male	Female
Somali Region	25.6	37.4	12.4	22.2	33.9	9.0	55.3	69.6	40.5
Shinile Zone	17.2	26.6	8.1	15.3	23.1	7.6	24.3	39.4	9.9
Shinile Wereda	18.2	29.7	7.5	13.8	22.7	5.7	24.3	39.4	9.9
Erer Wereda	16.2	23.3	8.9	16.2	23.3	8.9	-	-	-
Jijiga Zone	23.3	33.4	11.6	19.1	29.1	7.4	61.9	75.0	48.2
Jijiga Wereda	23.1	34.3	10.2	18.0	29.4	4.9	70.1	82.3	57.5
Teferi Ber Wereda	19.8	27.8	10.2	16.8	24.4	7.7	53.0	67.5	36.8
Kebri Beyah Wereda	27.9	38.8	15.8	24.0	34.8	11.7	57.1	70.6	43.9
Liben Zone	34.5	51.7	15.6	32.8	50.2	13.8	49.4	66.4	31.6
Filtu Wereda	27.9	42.5	10.6	27.6	42.2	10.3	63.8	77.1	47.4
Dolo Odo Wereda	32.5	48.7	14.8	27.5	43.6	9.8	49.1	66.2	31.3
Moyale Wereda	42.1	63.3	20.2	42.1	63.3	20.2	-	-	-

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			
	No	% Female	No	% Female	No	% Female	No	% Female	No	% Female	No	% Female	No	% Female	No	% Female
Somali Region	268,841	30.2	140,851	79.1	23,681	27.1	99,026	95.2	2,176	56.8	10,221	68.3	5,747	44.8	421	44.2
Shinile Zone	14,466	46.1	4,722	65.4	1,159	27.4	2,343	92.2	63	-	560	75.5	597	28.3	-	-
Shinile Wereda	7,396	50.4	2,736	56.9	850	24.2	1,025	93.0	32	-	281	78.6	549	29.1	-	-
Erer Wereda	7,070	41.7	1,986	76.9	309	35.9	1,319	91.5	31	*	279	72.4	48	-	*	*
Jijiga Zone	187,297	26.4	105,501	82.2	15,083	28.5	76,697	96.5	1,653	62.0	8,139	67.4	3,929	47.8	179	58.7
Jijiga Wereda	74,353	18.6	56,911	83.6	6,970	31.7	42,317	96.9	665	61.2	4,745	63.4	2,214	42.7	-	-
Teferi Ber Wereda	65,131	34.2	23,725	76.1	4,984	22.6	15,493	95.8	673	68.1	1,588	64.2	987	62.5	-	-
Kebri Beyah Wereda	47,813	28.0	24,865	84.7	3,129	30.5	18,887	96.2	316	50.6	1,806	80.7	728	43.1	-	-
Liben Zone	67,077	37.3	30,628	70.8	7,440	24.4	19,985	90.4	461	41.9	1,522	70.0	1,221	43.4	150	53.3
Filtu Wereda	19,268	39.3	5,640	68.2	1,606	24.2	3,478	91.3	108	42.6	298	54.0	150	50.7	34	-
Dolo Odo Wereda	28,892	39.1	11,896	69.4	2,679	27.7	7,857	87.9	236	35.2	489	64.8	636	31.4	79	-
Moyale Wereda	18,918	32.5	13,092	73.1	3,155	21.8	8,651	92.2	116	56.0	735	80.1	435	58.4	-	-

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
Somali Region																		
Rural + Urban	622,562	17,909	3	508,652	14,965	3	113,910	3,639	3	12,100	1,911	16	20,464	1,097	5	81,346	2,571	3
Rural	561,107	17,901	3	458,015	14,956	3	103,092	3,639	4	10,940	1,910	17	12,932	1,089	8	79,220	2,569	3
Urban	61,455	546	1	50,637	528	1	10,817	58	1	1,160	67	6	7,532	136	2	2,126	100	5
Shinile Zone																		
Rural + Urban	27,528	1,617	6	21,475	1,257	6	6,053	372	6	336	43	13	3,079	391	13	2,638	128	5
Rural	21,408	1,613	8	16,599	1,252	8	4,810	372	8	307	43	14	2,092	391	19	2,411	127	5
Urban	6,120	118	2	4,876	118	2	1,244	3	-	29	6	22	987	16	2	227	16	7
Shinile Wereda																		
Rural + Urban	14,601	1,594	11	11,429	1,228	11	3,172	372	12	70	20	28	2,305	388	17	796	116	15
Rural	8,481	1,590	19	6,553	1,223	19	1,928	372	19	41	19	45	1,317	387	29	569	115	20
Urban	6,120	118	2	4,876	118	2	1,244	3	-	29	6	22	987	16	2	227	16	7
Erer Wereda																		
Rural + Urban	12,927	272	2	10,045	268	3	2,882	19	1	266	38	14	774	51	7	1,842	55	3
Rural	12,927	272	2	10,045	268	3	2,882	19	1	266	38	14	774	51	7	1,842	55	3
Urban	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jijiga Zone																		
Rural + Urban	444,272	15,688	4	362,900	13,072	4	81,372	3,346	4	9,850	1,897	19	7,376	604	8	64,146	2,399	4
Rural	403,394	15,682	4	329,026	13,064	4	74,368	3,346	5	8,772	1,896	22	3,081	594	19	62,515	2,397	4
Urban	40,878	434	1	33,875	434	1	7,004	4	-	1,078	64	6	4,295	114	3	1,631	85	5
Jijiga Wereda																		
Rural + Urban	202,962	9,678	5	162,856	7,563	5	40,106	2,816	7	7,476	1,833	25	3,321	338	10	29,309	1,608	5
Rural	186,006	9,677	5	148,922	7,562	5	37,084	2,816	8	7,058	1,833	26	1,095	337	31	28,931	1,608	6
Urban	16,956	111	1	13,934	111	1	3,022	1	-	418	17	4	2,225	21	1	378	17	5

Annex Table 3.1 (Cont'd)

Geography Area	Total Agricultural Population			All Non-Holders			Agricultural Holders											
							All Holders			Type of Holdings								
										Crop Only			Livestock only			Crop & Livestock		
	Total	SE	CV	Total	SE	CV	Total	SE	CV	Total	SE	CV	Total	SE	CV	Total	SE	CV
Teferi Ber Wereda																		
Rural + Urban	130,975	10,065	8	108,289	8,562	8	22,686	1,568	7	1,635	468	29	1,424	196	14	19,627	1,571	8
Rural	120,087	10,064	8	99,203	8,561	9	20,884	1,568	8	1,281	467	36	725	195	27	18,877	1,571	8
Urban	10,888	115	1	9,086	115	1	1,802	2	-	354	18	5	699	23	3	750	24	3
Kebri Beyah Wereda																		
Rural + Urban	110,335	7,153	6	91,755	6,354	7	18,580	899	5	739	146	20	2,631	461	18	15,210	836	6
Rural	97,301	7,142	7	80,900	6,341	8	16,401	899	5	433	133	31	1,261	448	36	14,706	832	6
Urban	13,034	404	3	10,855	404	4	2,179	3	-	305	59	19	1,370	110	8	503	80	16
Liben Zone																		
Rural + Urban	150,762	8,486	6	124,278	7,177	6	26,484	1,382	5	1,914	225	12	10,009	828	8	14,561	917	6
Rural	136,305	8,480	6	112,391	7,172	6	23,914	1,380	6	1,861	225	12	7,759	825	11	14,294	916	6
Urban	14,457	310	2	11,887	275	2	2,570	58	2	53	18	34	2,250	72	3	267	50	19
Filtu Wereda																		
Rural + Urban	38,666	3,732	10	32,412	3,194	10	6,254	562	9	214	60	28	2,003	356	18	4,037	351	9
Rural	38,375	3,732	10	32,161	3,194	10	6,214	562	9	213	60	28	1,966	356	18	4,035	351	9
Urban	291	-	-	251	-	-	40	-	-	1	-	-	37	-	-	2	-	-
Dolo Odo Wereda																		
Rural + Urban	60,889	5,734	9	49,507	4,821	10	11,382	980	9	413	106	26	5,950	630	11	5,019	650	13
Rural	46,723	5,725	12	37,870	4,813	13	8,852	979	11	361	104	29	3,737	626	17	4,754	648	14
Urban	14,166	310	2	11,636	275	2	2,530	58	2	52	18	35	2,213	72	3	265	50	19
Moyale Wereda																		
Rural + Urban	51,207	5,020	10	42,359	4,251	10	8,848	795	9	1,287	190	15	2,056	403	20	5,505	543	10
Rural	51,207	5,020	10	42,359	4,251	10	8,848	795	9	1,287	190	15	2,056	403	20	5,505	543	10
Urban	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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 Somali Region. However, the census covers only Shinile and Erer weredas from Shinile zone; Jijiga, Teferi Ber and Kebri Beyah weredas from Jijiga zone and Filtu, Dolo Odo and Moyale weredas from Liben zone. 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 that are covered by the census. Hence, tables providing these data at zonal and wereda levels are also presented in Statistical Tables 4.1-4.53. 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, and

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 the aforementioned zones and weredas of Somali Region that are covered by the census was estimated to be about 104,839. Out of the total holders those who are engaged in crop production, livestock and both crop and livestock production were estimated to be about 10,995 (10.5%), 18,050 (17.2%) and 75,793 (72.3%), respectively. In general, most of agricultural holders (29.0%) had a total size of land holdings that ranges from 0.51to 1.00 hectare and followed by 25.9% of the total holders with area size of holding that fall between 0.10 and 0.50 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 0.51 to 1.00 hectare (33.3% for " crop only"), less than 0.1 hectare (55.8% for "livestock only") and 0.51 to 1.00 hectare (31.6% for mixed crop and livestock production), respectively (See Summary Table IV.1 and Figure IV.1).

In rural areas of the above mentioned zones and weredas of Somali Region that are covered by the census, the total number of agricultural holders were estimated to be 101,554 (96.9%) and this total is composed of holders engaged in crop production (9.7%), livestock (17.8%) and holders that are engaged in crop and livestock production (72.5%). In general, the majority of agricultural holders (29.1%) had a total size of land holdings that ranges from 0.51 to 1.00 hectare, followed by size of land holdings that fall within 0.10 to 0.50 hectare (25.5%). Similarly, agricultural holders that are involved in crop, livestock and crop and livestock production are estimated to have an area size of holdings that ranges from 0.51 to 1.00 hectare (34.4%" for crop only"), bolow 0.1 hectare (52.9% " for livestock

only") and 0.51 to 1.00 hectare (31.8% " for crop and livestock production"), respectively) (For details refer to Summary Table IV.1).

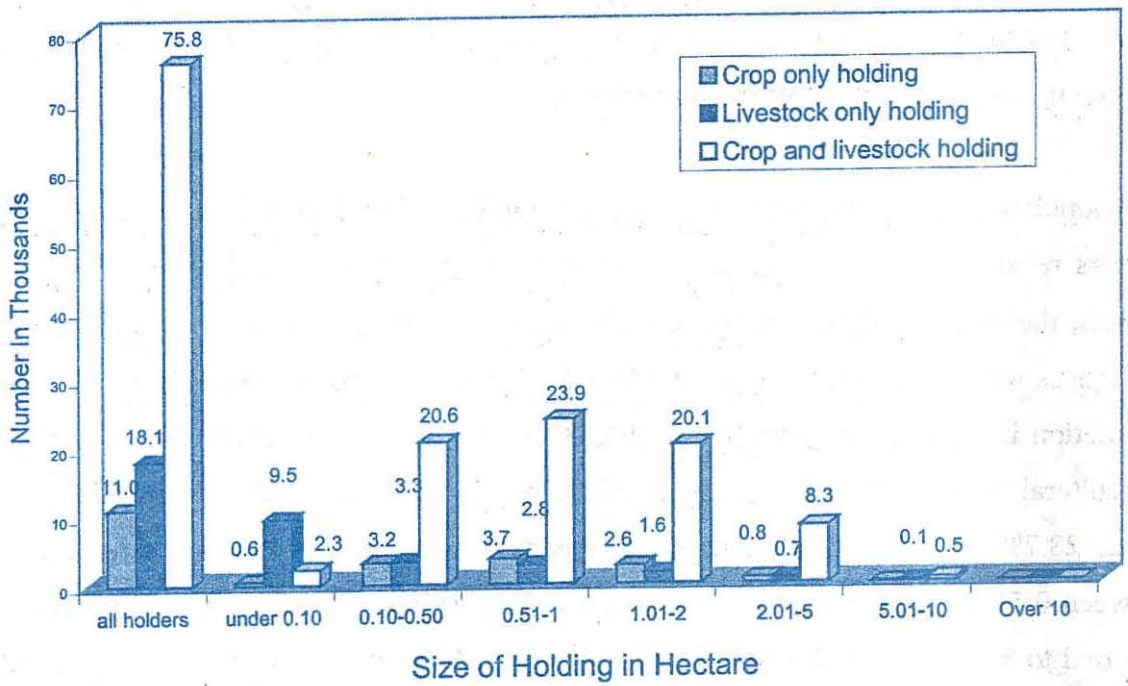
Summary Table IV.1: Distribution Of Agricultural Holders By Type And Size Of Holdings In Rural And Urban Areas And Zones, For Private Holdings

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	104839	12369	27158	30358	24364	9717	847	*
Percent..	100	11.8	25.9	29.0	23.2	9.3	0.8	*
Crop only holding	10995	575	3196	3659	2629	756	*	0
Percent..	10.5	5.2	29.1	33.3	23.9	6.9	*	0.0
Livestock only holding	18050	9540	3315	2773	1597	694	131	0
Percent..	17.2	52.9	18.4	15.4	8.8	3.8	0.7	0.0
Crop and livestock	75793	2254	20646	23926	20137	8267	536	*
Percent..	72.3	3.0	27.2	31.6	26.6	10.9	0.7	*
RURAL								
All holders	101554	11621	25930	29579	23951	9610	836	*
Percent..	96.9	11.4	25.5	29.1	23.6	9.5	0.8	*
Crop only holding	9836	304	2713	3382	2528	735	*	0
Percent..	9.7	3.1	27.6	34.4	25.7	7.5	*	0.0
Livestock only holding	18050	9540	3315	2773	1597	694	131	0
Percent..	17.8	52.9	18.4	15.4	8.9	3.8	0.7	0.0
Crop and livestock	73668	1777	19902	23424	19826	8181	533	*
Percent..	72.5	2.4	27.0	31.8	26.9	11.1	0.7	*
URBAN								
All holders	3285	748	1227	779	412	107	11	0
Percent..	3.1	22.8	37.4	23.7	12.5	3.3	0.3	0.0
Crop only holding	1160	271	483	277	101	21	7	0
Percent..	35.3	23.4	41.6	23.9	8.7	1.8	0.6	0.0
Crop and livestock	2126	478	744	502	312	86	*	0
Percent..	64.7	22.5	35.0	23.6	14.7	4.1	*	0.0
SHINILE								
All holders	5054	2353	1612	738	350	0	0	0
Percent..	4.8	46.6	31.9	14.6	6.9	0.0	0.0	0.0
Crop only holding	292	38	198	46	*	0	0	0
Percent..	5.8	13.0	67.8	15.8	*	0.0	0.0	0.0
Livestock only holding	2124	2116	*	*	0	0	0	0
Percent..	42.0	99.6	*	*	0.0	0.0	0.0	0.0
Crop and livestock	2638	198	1410	689	340	0	0	0
Percent..	52.2	7.5	53.5	26.1	12.9	0.0	0.0	0.0
JIJIGA								
All holders	76585	3147	19165	24510	20864	8216	657	*
Percent..	73.1	4.1	25.0	32.0	27.2	10.7	0.9	*
Crop only holding	9811	316	2687	3385	2544	700	*	0
Percent..	12.8	3.2	27.4	34.5	25.9	7.1	*	0.0
Livestock only holding	2630	1427	383	486	192	89	*	0
Percent..	3.4	54.3	14.6	18.5	7.3	3.4	*	0.0
Crop and livestock	64144	1404	16096	20640	18129	7427	423	*
Percent..	83.76	2.19	25.09	32.18	28.26	11.58	0.66	*
LIBEN								
All holders	23200	6870	6380	5110	3150	1501	190	0
Percent..	22.1	29.6	27.5	22.0	13.6	6.5	0.8	0.0
Crop only holding	892	221	311	229	76	*	0	0
Percent..	3.8	24.8	34.9	25.7	8.5	*	0.0	0.0
Livestock only holding	13296	5996	2929	2283	1406	606	77	0
Percent..	57.3	45.1	22.0	17.2	10.6	4.6	0.6	0.0
Crop and livestock	9012	652	3140	2598	1668	840	113	0
Percent..	38.8	7.2	34.8	28.8	18.5	9.3	1.3	0.0

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

On the other hand, in urban areas of those eight weredas in the three zones of the Somali Region that are covered by the census, 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 3,285 agricultural holders (3.1%) are reported in the urban areas of the region that are covered by the census. Of this total, 35.3 percent are only crop growing holders while the remaining 64.7 percent are practicing both crop and livestock production. Most of the holders (37.4%) in the urban areas had a land holding that falls between 0.10 and 0.50 hectare. Among the total 1,160 (35.3%) crop-producing holders, 41.6% were holders with a holding size of 0.10 to 0.50 hectare, followed by those between 0.51 and 1.00 hectare (23.9%). Furthermore, among holders who are engaged in crop and livestock production, the highest number is also reported with holding size of 0.10 to 0.50 hectare (35.0%) followed by 0.51 to 1.00 hectare (23.6%)(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 those three zones of the region that are covered by the census, the largest number of agricultural holders was found in Jijiga Zone (73.1%), followed by Liben Zone (22.1%). Similarly, with regard to the type of farming activities, most of agricultural holders who are involved in "crop only" production (9,811) and "crop and livestock" production (64,144) have both reported in Jijiga Zone with corresponding highest number of holders with a size of holding that ranges from 0.51 to 1.00 hectare for both. On the other hand, the highest number of agricultural holders (13,296) that are engaged in "livestock only" production activities were found in Liben Zone with corresponding highest number of holders having an area size of holding of below 0.1 hectare (45.1%). Moreover, across the areas that are covered by the census, most of the agricultural holders that are engaged in livestock farming had a size of land holdings of bolow 0.1 hectare (For details, refer to Summary Table IV.1).

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 for those areas that are covered by the census were estimated to be about 580,935. The results also indicate that out of the total population in agricultural households, 104,839 were agricultural holders found in 103,384 agricultural households that have reported land holding. As shown in Summary Table IV.2, about 28.7% of agricultural households reported to have an estimated land area size between 0.51 and 1.00 hectare. This is followed by 25.7% of agricultural households who reported to have an area size of between 0.10 and 0.50 hectare and about 23.2% to have a land area size that fall between 1.01 to 2.00 hectares.

Summary 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

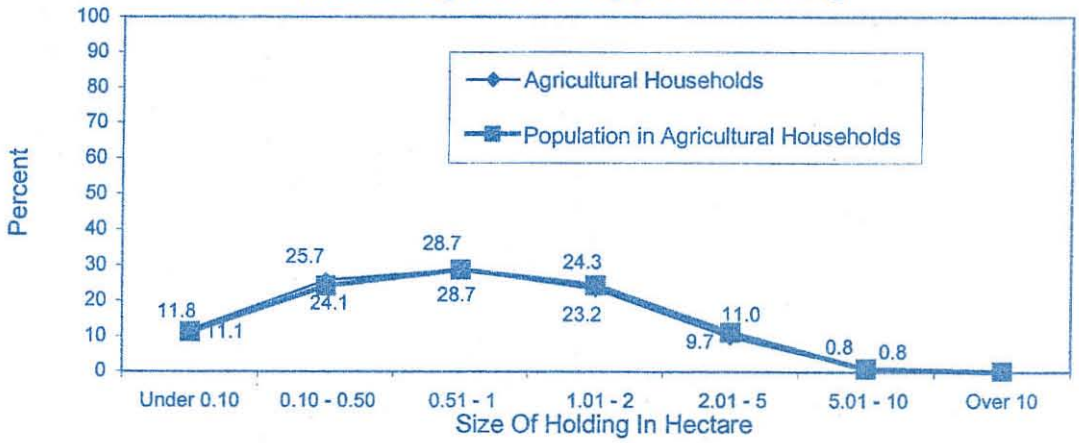
Items	Size of Holding (Hectares)							
	All Holdings	Under 0.1	0.1-0.50	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	over 10
RURAL + URBAN								
Agricultural households.....	103384	12206	26573	29698	24011	10023	847	*
Percent..	100	11.8	25.7	28.7	23.2	9.7	0.8	*
Population in Agricultural Households	580935	64522	140041	166666	141178	63724	4599	*
Percent..	100	11.1	24.1	28.7	24.3	11.0	0.8	*
Average members per household....	5.62	5.29	5.27	5.61	5.88	6.36	5.43	*
RURAL								
Agricultural households.....	100099	11458	25346	28919	23599	9916	836	*
Percent..	100.0	11.5	25.3	28.9	23.6	9.9	0.8	*
Population in Agricultural Households	561107	60425	132651	161884	138389	63004	4549	*
Percent..	100.0	10.8	23.6	28.9	24.7	11.2	0.8	*
Average members per household....	5.61	5.27	5.23	5.60	5.86	6.35	5.44	*
URBAN								
Agricultural households.....	3285	748	1227	779	412	107	11	0
Percent..	3.2	22.8	37.4	23.7	12.5	3.3	0.3	0.0
Population in Agricultural Households	19827	4097	7390	4781	2789	720	*	0
Percent..	3.4	20.7	37.3	24.1	14.1	3.6	*	0.0
Average members per household....	6.04	5.48	6.02	6.14	6.77	6.73	*	-
SHINILE								
Agricultural households.....	5024	2353	1570	743	358	0	0	0
Percent..	4.9	46.8	31.3	14.8	7.1	0.0	0.0	0.0
Population in Agricultural Households	22727	9648	7148	3746	2185	0	0	0
Percent..	3.9	42.5	31.5	16.5	9.6	0.0	0.0	0.0
Average members per household....	4.52	4.1	4.55	5.04	6.1	-	-	-
JIJIGA								
Agricultural households.....	75435	3103	18747	23914	20468	8521	657	*
Percent..	73.0	4.1	24.9	31.7	27.1	11.3	0.9	*
Population in Agricultural Households	419988	16534	96790	132214	117783	53254	3209	*
Percent..	72.3	3.9	23.1	31.5	28.0	12.7	0.8	*
Average members per household....	5.57	5.33	5.16	5.53	5.75	6.25	4.88	*
LIBEN								
Agricultural households.....	22925	6750	6256	5042	3185	1503	190	0
Percent..	22.2	29.4	27.3	22.0	13.9	6.6	0.8	0.0
Population in Agricultural Households	138220	38340	36103	30706	21210	10470	1390	0
Percent..	23.8	27.7	26.1	22.2	15.4	7.6	1.0	0.0
Average members per household....	6.03	5.68	5.77	6.09	6.66	6.97	7.32	-

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.*

The data also indicated that the average household size for the areas that are covered by the census was estimated to be 5.62 persons or 562 members per 100 agricultural households. Furthermore, the largest average household size (6.36 persons) was reported for those households with an average area size of holding of 2.01 to 5.00 hectares. Hence, the census result shows that there is a general trend of increase in size of land holdings with an increase in the average household size (See Summary Table IV.2 and Figure IV.2).

In the rural areas of the region that are covered by the census, the total (561,107) population is reported to be in 100,099 agricultural households. About 28.9 percent of the agricultural households are operating on the land area size that ranges from 0.51 to 1.00 hectare. An insignificant numbers of households (0.8%) are reported to operate on an average land holding of 5.01 to 10.00 hectares. As can be observed in Summary Table IV.2, in general as the land area size increases the average household size also increases. Also the average household size in the rural areas of the region is estimated to be 5.61 persons.

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



The contribution of the urban areas to the total agricultural households and population in agricultural households is estimated to be 3.2% and 3.4%, respectively. Unlike the rural areas of the region, about 22.8% of urban agricultural households are reported to operate on land area size of under 0.10 hectare. Furthermore, the average household size of urban areas is 6.04 persons which is higher than that reported in the rural areas (See Summary Table IV.2).

As the data in Summary Table IV.2 shows, the average household size in Liben Zone is higher than those in the other zones of Somali Region that are covered by the census. The relationship between the average household sizes across different size of land holding is almost similar in all zones of the region that are covered by the census. That is, in general 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, and
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 97,834 hectares, in the covered areas of the region. This area is composed of 98.1% of the rural holdings and 1.9% of the urban holdings. Of this land, area under temporary crops accounted for 61,974 hectares (63.4%); land under permanent crops estimated to be 8,116 hectares (8.3%); grazing land amount to be 12,317 hectares (12.6%); fallow land is reported to be 13,413 hectares (13.7%); and land for other uses is estimated to be 1,910 hectares (2.0%). The result for woodland is unreliable, hence, not given here.

The census result indicated that out of the total estimated holders (104,839) most of them (100,990) used their holding for other land purposes which is followed by 84,271 holders who had used their holding to cultivate temporary crops. It was also reported that 36,009 holders used their land for cultivating permanent crops and 26,917 holders left their land as fallow during the census year. On the other hand, the number of holders that reported grazing and woodland account for about 20,997 and 364, respectively. In general, the total average size of land holding per holder was estimated to be 0.93 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 0.74 hectare and followed by grazing land, which is about 0.59 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 96,000 hectares contributing 98.1% to the total land area. Out of this total land area, the highest (62.7%) and lowest (2.0%) proportions of areas were used for cultivating temporary crops and for other purposes, respectively. The average size of land holding was estimated to be 0.95 hectare per holder. Moreover, the highest average size of land holding per holder was reported as area under temporary crops (0.74 hectare), followed by grazing land, which is about 0.59 hectare (See Summary Table IV.3).

On the other hand, in urban private holdings, the total land area under both temporary and permanent crops was estimated to be 1,834 hectares contributing 1.9% to the total land area. Out of which temporary crops accounted for 1,776 (96.8%) hectares and permanent crops accounted for 57 (3.1%) hectares. From the census data one can observ that the majority of urban holders in the aforementioned zones and weredas of Somali Region that are covered by the census tend to use most of their land for growing temporary crops (3,197), which is followed by permanent crops (292).

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 0.56 hectare and 0.2 hectare, respectively (See Summary Table IV.3).

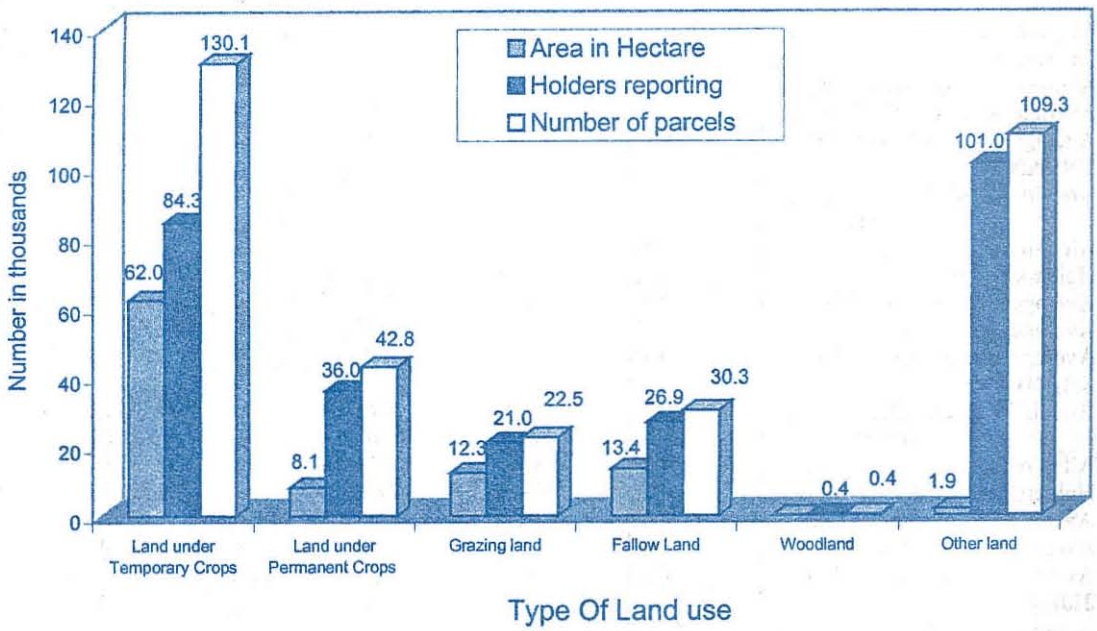
Summary Table IV.3. Distribution of Area and Holders by Type of Land Use in Rural And Urban Areas And Zones, For Private Holdings

Items	Land Area Under						
	Total Number	Temporary Crops	Permanent Crops	Grazing	Fallow Land	Woodland	Other Land
RURAL + URBAN							
Area in hectares(ha).....	97834	61974	8116	12317	13413	*	1910
Percent..	100	63.4	8.3	12.6	13.7	*	2.0
All parcels.....	255312	130096	42781	22505	30326	364	109302
Holders reporting.....	104839	84271	36009	20997	26917	364	100990
Average area per holder (ha)	0.93	0.74	0.23	0.59	0.5	*	0.02
Average parcels per holder	2	2	1	1	1	1	1
Average area per parcel (ha).....	0.38	0.48	0.19	0.55	0.44	*	0.02
RURAL							
Area in hectares(ha).....	96000	60198	8059	12317	13413	*	1910
Percent..	98.1	62.7	8.4	12.8	14.0	*	2.0
All parcels.....	251543	126514	42476	22505	30326	364	109302
Holders reporting.....	101554	81074	35717	20997	26917	364	100990
Average area per holder (ha)	0.95	0.74	0.23	0.59	0.5	*	0.02
Average parcels per holder	2	2	1	1	1	1	1
Average area per parcel (ha).....	0.38	0.48	0.19	0.55	0.44	*	0.02
URBAN							
Area in hectares(ha).....	1834	1776	57				
Percent..	1.9	96.8	3.1				
All parcels.....	3769	3582	305				
Holders reporting.....	3285	3197	292				
Average area per holder (ha)	0.56	0.56	0.2				
Average parcels per holder	1	1	1				
Average area per parcel (ha).....	0.49	0.5	0.19				
SHINILE							
Area in hectares(ha).....	1502	917	294	91	108	*	91
Percent..	1.5	61.1	19.6	6.1	7.2	*	6.1
All parcels.....	8490	3367	1813	372	921	*	4834
Holders reporting.....	5054	2768	1399	372	851	*	4768
Average area per holder (ha)	0.3	0.33	0.21	0.24	0.13	*	0.02
Average parcels per holder	2	1	1	1	1	*	1
Average area per parcel (ha).....	0.18	0.27	0.16	0.24	0.12	*	0.02
JIJIGA							
Area in hectares(ha).....	80903	57241	7670	8782	5802	*	1358
Percent..	82.7	70.8	9.5	10.9	7.2	*	1.7
All parcels.....	201771	116355	38656	17175	15029	*	77924
Holders reporting.....	76585	72358	32331	15808	14268	*	73530
Average area per holder (ha)	1.06	0.79	0.24	0.56	0.41	*	0.02
Average parcels per holder	3	2	1	1	1	*	1
Average area per parcel (ha).....	0.4	0.49	0.2	0.51	0.39	*	0.02
LIBEN							
Area in hectares(ha).....	15429	3817	*	3444	7504	51	461
Percent..	15.8	24.7	*	22.3	48.6	0.3	3.0
All parcels.....	45050	10373	2311	4957	14376	158	26545
Holders reporting.....	23200	9145	2279	4817	11798	158	22692
Average area per holder (ha)	0.67	0.42	*	0.71	0.64	0.32	0.02
Average parcels per holder	2	1	1	1	1	1	1
Average area per parcel (ha).....	0.34	0.37	*	0.69	0.52	0.32	0.02

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

Of the total land area recorded in the three zones of the Somali Region that are covered by the census, the largest area is contributed by Jijiga Zone (82.7%), followed by Liben Zone (15.8%). In Shinile and Jijiga Zones of the region, over 60 percent of the land use was allotted to the cultivation of temporary crops. On the other hand, grazing land and Fallow land were more exercised in Liben Zone than in the other zones of the region that are covered by the census. However, land under permanent crops was relatively larger in Jijiga Zone of the region. The average size of area per holder varies from 0.3 hectares in Shinile Zone to 1.06 hectares in Jijiga Zone.

Figure IV.3: Distribution of Area, Holders and Parcels by Type of Land Use, for Private Holdings



4.2. Land Fragmentation By Size Of Holding

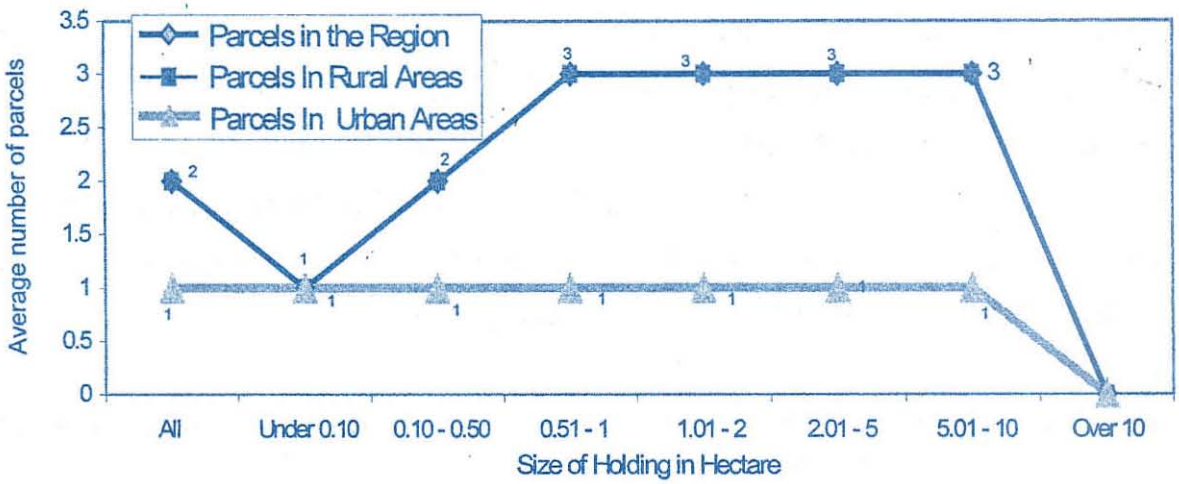
Providing information on land fragmentation is important to show how farmers waste their valuable working time, energy and other resources when the number of parcels is many and very far apart from one another. Taking this into consideration in the 2001/2002 EASE, data on number of parcels was collected for private holding in rural and urban areas of the region that are covered by the census. Accordingly, the census result indicates that 255,312 parcels were estimated under the total land holdings in the covered areas of the region, which constituted 98.5% of rural holdings and 1.5% 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 0.51 to 1.00 hectare (30.7%) and 5.01 to 10 hectares (1.0%), respectively. Generally, temporary and permanent crops were cultivated on 130,096 parcels and 42,781 parcels, respectively. Moreover, grazing land, fallow land, woodland and land for other purpose were found on 22,505 parcels, 30,326 parcels, 364 parcels and 109,302 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 0.38 hectare and two parcels, respectively (See Summary Table IV.3, Summary Table IV.4 and Figure IV.4).

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	255312	14717	59547	78264	70648	29629	2455	*
Percent..	100	5.8	23.3	30.7	27.7	11.6	1.0	*
All holders	104839	12369	27158	30358	24364	9717	847	*
All area in hectare	97834	335	8423	22123	34295	27277	5063	*
Average parcels per holder	2	1	2	3	3	3	3	*
Average area per parcels	0.38	0.02	0.14	0.28	0.49	0.92	2.06	*
RURAL								
All parcels	251543	13937	58220	77318	70084	29488	2444	*
Percent..	98.5	5.5	23.2	30.7	27.9	11.7	1.0	*
All holders	101554	11621	25930	29579	23951	9610	836	*
All area in hectare	96000	299	8065	21578	33752	26989	4999	*
Average parcels per holder..	2	1	2	3	3	3	3	*
Average area per parcels	0.38	0.02	0.14	0.28	0.48	0.92	2.05	*
URBAN								
All parcels	3769	780	1327	945	564	141	11	0
Percent..	1.5	20.7	35.2	25.1	3.7	0.3	0.0	0.0
All holders	3285	748	1227	779	412	107	11	0
All area in hectare	1834	36	358	546	543	288	64	0
Average parcels per holder..	1	1	1	1	1	1	1	-
Average area per parcels	0.49	0.05	0.27	0.58	0.96	2.04	5.82	-

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 0.38 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 one while the average size of land area per parcel is 0.49 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 Jijiga Zone, followed by Liben Zone with corresponding estimated number of 201,771 (79.0%) parcels and 45,050 (17.6%) parcels, respectively. The average number of parcels per holder in Liben and Jijiga Zones of the region was estimated to be two and three, respectively (See Summary Table IV.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 covered areas of the region was estimated to be 70,090 hectares, which consisted of 97.4% in rural and 2.6% in urban areas of private holdings. Out of the total cropland, area under temporary crops accounted to 88.4% and the remaining was the share of permanent crops. Considering the area under temporary crops, cereals, followed by pulses, accounted for 94.8% and 2.3%, respectively and covered the highest proportion of the land area under temporary crops. Of all the area under permanent crops, chat crops took the largest area, which accounts for 7,636 hectares (94.1%) and the smallest was area under sugare cane. Among the total holders in the covered areas of the region who grows temporary crops (84,271), the largest number of holders (83,393) was cultivating cereals followed by holders (13,476) producing puls crops. Similarly, among all holders (36,009) that are involved in growing permanent crops, the highest number (32,371) are growing chat crops while the lowest number of holders (117) are cultivating sugare cane. The overall average cropland area per holder in the covered areas of the region was estimated to be 0.81 hectare while area under temporary and permanent crops was estimated to be 0.74 and 0.23 hectare, respectively. (See Summary Table IV.5 and Figure IV.5).

In rural areas, temporary and permanent crops contribute about 88.2% and 11.8%, for private holdings, respectively. Out of the total area under temporary crops, the largest cultivated area was under cereal crops, followed by pulses, which contribute about 57,041 hectares (94.8%) and 1,351 hectares (2.2%), respectively. The numbers of holders producing these crops were estimated to be about 80,265 and 13,239 with corresponding average size of land area per holder of about 0.71 hectare and 0.10 hectare, respectively. (For details, refer to Summary Table IV.5).

In urban areas, the total cropland area is estimated to be 1,834 hectares, of which temporary crops and permanent crops accounted for 96.9% and 3.1%, for private holdings, respectively. Considering the total areas under temporary crops, cereals accounted for 1,684 hectares (94.8%) and the corresponding holders that cultivated cereal crops are estimated to

be 3,127. Among land under permanent crops, chat crops took the highest cultivated area i.e., 40 hectares (70.2%) and operated by 198 holders (See Summary Table IV.5).

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	70090		86789	0.81
All temporary crops	61974	100.0	84271	0.74
Cereals	58725	94.8	83393	0.7
Pulses	1409	2.3	13476	0.1
Oilseeds	502	0.8	6497	0.08
Vegetables	106	0.2	2057	0.05
Root crops	714	1.2	10456	0.07
Other temporary	519	0.8	2793	0.19
All permanent crops	8116	100.0	36009	0.23
Fruit crops	438	5.4	4659	0.09
Chat	7636	94.1	32371	0.24
Coffee	*	*	*	*
Hops (Gesho)	*	*	*	*
Enset	2	0.0	*	*
Sugar cane	1	0.0	117	0.01
Other permanent	*	*	146	*
RURAL				
All cropland	68257		83503	0.82
All temporary crops	60198	100.0	81074	0.74
Cereals	57041	94.8	80265	0.71
Pulses	1351	2.2	13239	0.1
Oilseeds	493	0.8	6482	0.08
Vegetables	97	0.2	1918	0.05
Root crops	697	1.2	10375	0.07
Other temporary	519	0.9	2793	0.19
All permanent crops	8059	100.0	35717	0.23
Fruit crops	423	5.3	4569	0.09
Chat	7596	94.3	32173	0.24
Coffee	*	*	*	*
Hops (Gesho)	*	*	*	*
Enset	*	*	*	*
Sugar cane	1	0.0	112	0.01
Other permanent	*	*	146	*
URBAN				
All cropland	1834		3285	0.56
All temporary crops	1776	100.0	3197	0.56
Cereals	1684	94.8	3127	0.54
Pulses	57	3.2	237	0.24
Oilseeds	*	*	16	*
Vegetables	10	0.6	139	0.07
Root crops	17	1.0	81	0.21
Other temporary	0	0.0	0	-
All permanent crops	57	100.0	292	0.2
Fruit crops	15	26.3	89	0.17
Chat	40	70.2	198	0.2
Coffee	2	3.5	13	0.15
Hops(Gesho)	0	0.0	0	-
Enset	1	1.8	4	0.25
Sugar cane	0	0.0	5	0
Other permanent	0	0.0	0	-

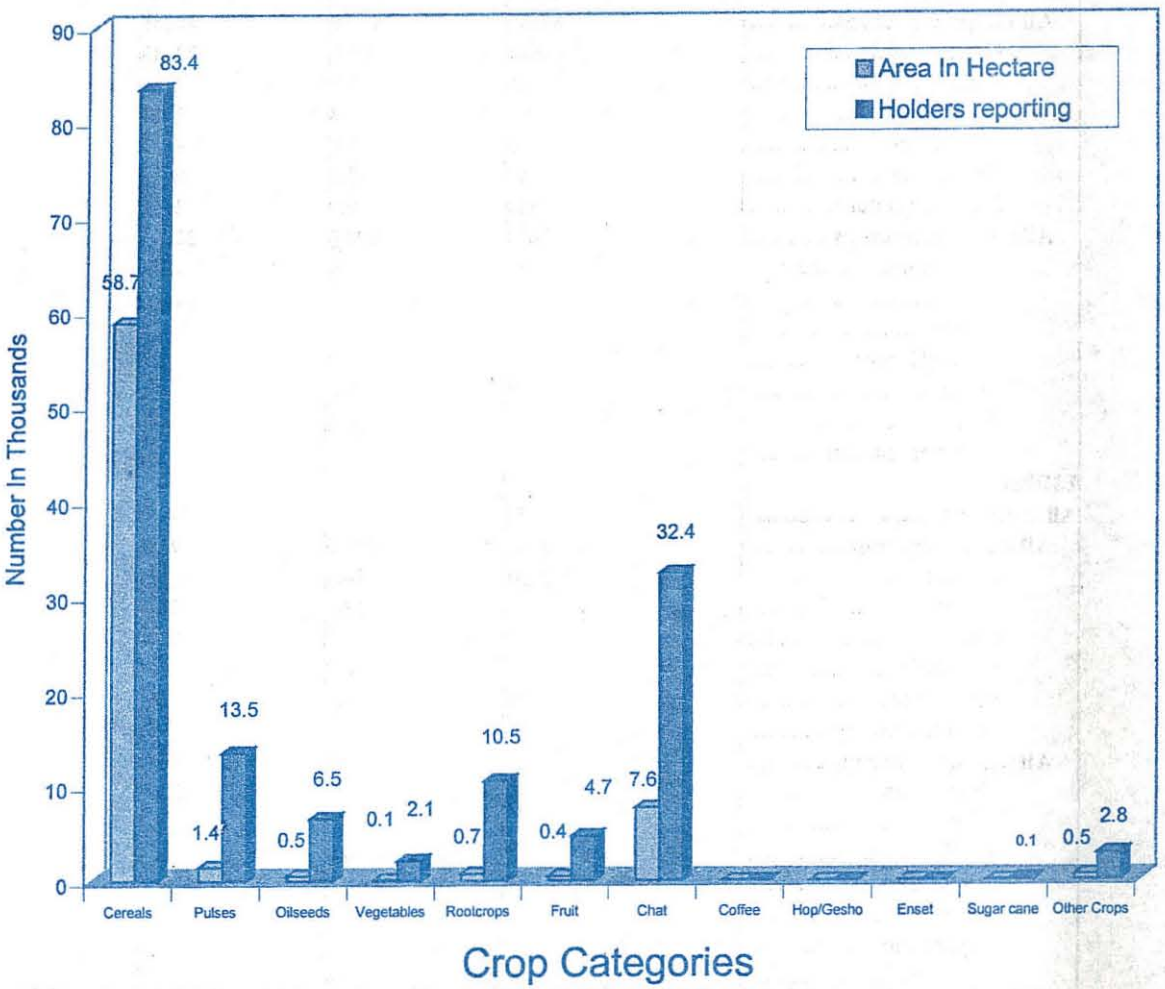
Summary Table IV.5 (continued)

Crop Categories	Area in Hectare		Holders Reporting	Average Area per Holder(in Hectare)
	Number	Percent		
SHINILE				
All cropland	1211		2929	0.41
All temporary crops	917	100.0	2768	0.33
Cereals	881	96.1	2701	0.33
Pulses	*	*	*	*
Oilseeds	*	*	*	*
Vegetables	13	1.4	390	0.03
Root crops	20	2.2	350	0.06
Other temporary	*	*	*	*
All permanent crops	294	100.0	1399	0.21
Fruit crops	208	70.8	1193	0.17
Chat	81	27.6	121	0.67
Coffee	4	1.4	*	*
Hops (Gesho)	0	0.0	0	-
Enset	*	*	*	*
Sugar cane	*	*	41	*
Other permanent	*	*	*	*
JIJIGA				
All cropland	64910		73955	0.88
All temporary crops	57241	100.0	72358	0.79
Cereals	54613	95.4	72140	0.76
Pulses	635	1.1	7312	0.09
Oilseeds	480	0.8	6425	0.07
Vegetables	29	0.1	1145	0.03
Root crops	654	1.1	9816	0.07
Other temporary	519	0.9	2779	0.19
All permanent crops	7670	100.0	32331	0.24
Fruit crops	31	0.4	1051	0.03
Chat	7555	98.5	31602	0.24
Coffee	*	*	*	*
Hops (Gesho)	*	*	*	*
Enset	1	0.0	4	0.25
Sugar cane	0	0.0	5	0
Other permanent	*	*	133	*
LIBEN				
All cropland	3969		9904	0.4
All temporary crops	3817	100.0	9145	0.42
Cereals	3231	84.7	8552	0.38
Pulses	497	13.0	3924	0.13
Oilseeds	*	*	9262	*
Vegetables	28	0.7	254	0.11
Root crops	40	1.1	290	0.14
Other temporary	0	0.0	0	-
All permanent crops	*	*	2279	*
Fruit crops	*	*	2263	*
Chat	*	*	*	*
Coffee	0	0.0	0	-
Hops (Gesho)	0	0.0	0	-
Enset	0	0.0	0	-
Sugar cane	*	*	0	*
Other permanent	0	0.0	0	-

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

The highest average area under temporary crops was reported as 0.79 hectares per holder in Jijiga Zone, followed by Liben Zone, which was 0.42 hectare per holder. The largest permanent cropland area was also estimated in Jijiga Zone, followed by Shinile Zone, which is estimated as 7,670 hectares and 294 hectares, respectively. Out of the total areas under permanent crops in Jijiga Zone, chat crops covered about 98.5% of the area, followed by fruit crops that covered an area of 31 (0.4%) hectares.

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



5.2. Cropland Area Under Belg Season

The census result indicated that in the rural private holdings about 8,015 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 16,769. Of the total temporary cropland area, cereals took the highest share of the cultivated area (91.9%). The overall average area per holder during Belg season was estimated at 0.48 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	8015	100.0	16769	0.48
Cereals	7366	91.9	16389	0.45
Pulses	504	6.3	3881	0.13
Oilseeds	*	*	*	*
Vegetables	8	0.1	171	0.05
Root crops	*	*	670	*
Other temporary crops	0	0.0	0	-

***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 (97,834 hectares), land owned by the operators accounted for 96,106 hectares (98.2%), land rented from other person accounted for 330 hectares (0.3%) and land obtained from other system was estimated to be 1,397 hectares (1.4%) in the areas that are covered by the census. Of the total holders (104,839) in the covered areas of the region, 104,257 holders owned the land they operated, while 1,307 holders operated the land by rental agreement and 5,081 holders used the land in other system of tenure. The average size of area per holder by type of tenure is estimated to be 0.92 hectare (for land owned), 0.25 hectare (for rented land) and 0.27 hectare (other tenure). (Refer Summary Table IV.7 and Figure IV.6).

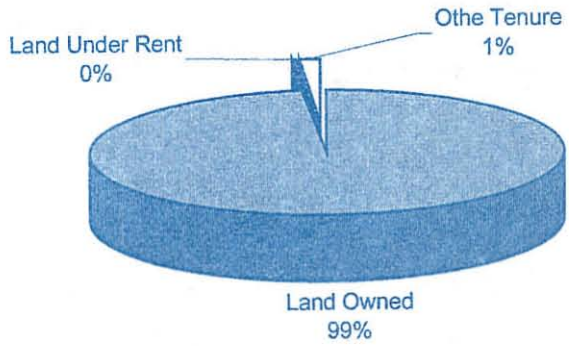
Summary Table IV.7: Distribution of Land Area and Holders by Tenure Systems In Rural And Urban Areas and Zones, For Private Holdings

Items	All Number	Type of Land Tenure Systems		
		Land Owned	Land Rented	Other Tenure
RURAL + URBAN				
All area in hectare	97834	96106	330	1397
Percent	100	98.2	0.3	1.4
All holder	104839	104257	1307	5081
Average area per holder	0.93	0.92	0.25	0.27
RURAL				
All area in hectare	96000	94340	275	1385
Percent	98.1	98.3	0.3	1.4
All holder	101554	101120	1158	5054
Average area per holder	0.95	0.93	0.24	0.27
URBAN				
All area in hectare	1834	1766	55	12
Percent	1.9	96.3	3.0	0.7
All holder	3285	3137	149	27
Average area per holder	0.56	0.56	0.37	0.44
SHINILE				
All area in hectare	1502	1414	11	78
Percent	1.5	94.1	0.7	5.2
All holder	5054	4998	76	221
Average area per	0.3	0.28	0.14	0.35
JIJIGA				
All area in hectare	80903	79965	248	*
Percent	82.7	98.8	0.3	*
All holder	76585	76413	855	2192
Average area per holder	1.06	1.05	0.29	*
LIBEN				
All area in hectare	15429	14727	72	630
Percent	15.8	95.5	0.5	4.1
All holder	23200	22845	376	2668
Average area per holder	0.67	0.64	0.19	0.24

***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.*

Similarly in rural private holdings, of the total area (96,000 hectares), most of land area was accounted to the title of ownership, which is estimated to be 94,340 hectares (98.3%) and operated by 101,120 holders. The average size of land area per holder under land owned, land rented and land for other tenure system are 0.93, 0.24 and 0.27 hectares, respectively (See Summary Table IV.7).

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



In urban private holdings, the tenure system is a bit different in which the proportion of land owned is 96.3% and that of rented land is 3.0%. On the other hand, the average size of land holding by type of tenure is estimated to be about 0.56 hectare, 0.37 hectare and 0.44 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, which is 0.37 hectare, is higher than that reported in rural areas with 0.24 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 all zones the proportion of owned land was the highest. The proportion of rented land in Jijiga Zone was 248 hectares (75.2% of total rented land area) and this percentage was relatively much higher compared to other zones that are covered by the census.

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	104839	12369	27158	30358	24364	9717	847	*
Crop Only	10995	575	3196	3659	2629	756	*	-
Livestock Only	18050	9540	3315	2773	1597	694	131	-
Crop and Livestock	75793	2254	20646	23926	20137	8267	536	*

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	101554	11621	25930	29579	23951	9610	836	*
Crop Only	9836	304	2713	3382	2528	735	*	-
Livestock Only	18050	9540	3315	2773	1597	694	131	-
Crop and Livestock	73668	1777	19902	23424	19826	8181	533	*

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	3285	748	1227	779	412	107	11	-
Crop Only	1160	271	483	277	101	21	7	-
Crop and Livestock	2126	478	744	502	312	86	*	-

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
Somali Region	104839	12369	27158	30358	24364	9717	847	*
Shinile	5054	2353	1612	738	350	-	-	-
Shinile	2184	1503	471	134	77	-	-	-
Erer	2869	850	1142	605	273	-	-	-
Jijiga	76585	3147	19165	24510	20864	8216	657	*
Jijiga	37412	1417	9137	12279	10305	4006	*	-
Teferi Ber	21963	768	6350	7256	5286	2125	178	-
Kebri Beyah	17209	961	3678	4975	5274	2086	211	*
Liben	23200	6870	6380	5110	3150	1501	190	-
Filtu	6195	2173	1545	1462	886	129	-	-
Dolo Odo	8438	2766	2803	1600	825	360	84	-
Moyale	8568	1931	2032	2048	1439	1012	106	-

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
Somali Region	101554	11621	25930	29579	23951	9610	836	*
Shinile	4797	2252	1513	688	344	-	-	-
Shinile	1928	1401	372	84	71	-	-	-
Erer	2869	850	1142	605	273	-	-	-
Jijiga	73876	2608	18141	23819	20496	8137	649	*
Jijiga	36616	1260	8872	12031	10207	3985	*	-
Teferi Ber	20860	713	5898	6893	5101	2076	178	-
Kebri Beyah	16401	635	3370	4895	5188	2076	211	*
Liben	22880	6761	6276	5072	3112	1473	187	-
Filtu	6192	2171	1544	1462	886	129	-	-
Dolo Odo	8120	2659	2700	1562	787	332	80	-
Moyale	8568	1931	2032	2048	1439	1012	106	-

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
Somali Region	3285	748	1227	779	412	107	11	-
Shinile	256	101	99	50	*	-	-	-
Shinile	256	101	99	50	*	-	-	-
Jijiga	2709	539	1024	691	368	79	7	-
Jijiga	796	157	265	248	97	21	7	-
Teferi Ber	1104	55	452	362	185	49	-	-
Kebri Beyah	809	326	307	80	86	*	-	-
Liben	320	108	104	38	38	28	*	-
Filtu	3	2	1	-	-	-	-	-
Dolo Odo	317	106	103	38	38	28	*	-

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
Somali Region	10995	575	3196	3659	2629	756	*	-
Shinile	292	38	198	46	*	-	-	-
Shinile	33	16	8	*	*	-	-	-
Erer	259	22	190	40	*	-	-	-
Jijiga	9811	316	2687	3385	2544	700	*	-
Jijiga	7438	160	2012	2681	1862	584	*	-
Teferi Ber	1635	31	460	545	485	*	*	-
Kebri Beyah	739	125	215	158	196	*	-	-
Liben	892	221	311	229	76	*	-	-
Filtu	91	1	32	36	*	-	-	-
Dolo Odo	283	28	174	*	*	*	-	-
Moyale	518	192	105	140	*	*	-	-

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
Somali Region	9836	304	2713	3382	2528	735	*	-
Shinile	262	22	190	44	*	-	-	-
Shinile	*	-	-	*	-	-	-	-
Erer	259	22	190	40	*	-	-	-
Jijiga	8734	*	2228	3122	2452	683	*	-
Jijiga	7019	*	1864	2554	1823	573	*	-
Teferi Ber	1281	-	281	435	455	*	*	-
Kebri Beyah	433	-	84	134	174	*	-	-
Liben	839	207	295	216	69	*	-	-
Filtu	90	-	32	36	*	-	-	-
Dolo Odo	231	*	157	*	*	-	-	-
Moyale	518	192	105	140	*	*	-	-

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
Somali Region	1160	271	483	277	101	21	7	-
Shinile	29	16	8	*	*	-	-	-
Shinile	29	16	8	*	*	-	-	-
Jijiga	1078	241	458	262	91	18	7	-
Jijiga	418	84	148	127	40	11	7	-
Teferi Ber	354	31	179	111	30	*	-	-
Kebri Beyah	305	125	131	25	21	*	-	-
Liben	53	*	17	*	*	*	-	-
Filtu	1	1	-	-	-	-	-	-
Dolo Odo	52	*	17	*	*	*	-	-

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 ctares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 – 5.00	5.01 - 10	Over 10
Somali Region	18050	9540	3315	2773	1597	694	131	-
Shinile	2124	2116	*	*	-	-	-	-
Shinile	1368	1360	*	*	-	-	-	-
Erer	756	756	-	-	-	-	-	-
Jijiga	2630	1427	383	486	192	89	*	-
Jijiga	670	344	-	*	*	-	-	-
Teferi Ber	736	524	*	*	*	*	*	-
Kebri Beyah	1224	559	*	173	*	*	*	-
Liben	13296	5996	2929	2283	1406	606	77	-
Filtu	3972	2125	757	636	421	34	-	-
Dolo Odo	4678	2551	1247	574	217	*	*	-
Moyale	4645	1320	925	1073	768	499	61	-

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 ctares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 – 5.00	5.01 - 10	Over 10
Somali Region	75793	2254	20646	23926	20137	8267	536	*
Shinile	2638	198	1410	689	340	-	-	-
Shinile	783	126	459	124	74	-	-	-
Erer	1855	72	952	565	266	-	-	-
Jijiga	64144	1404	16096	20640	18129	7427	423	*
Jijiga	29305	913	7125	9338	8377	3422	*	-
Teferi Ber	19592	213	5800	6658	4768	2035	117	-
Kebri Beyah	15246	277	3171	4643	4983	1970	175	*
Liben	9012	652	3140	2598	1668	840	113	-
Filtu	2132	*	756	790	443	95	-	-
Dolo Odo	3476	186	1382	973	583	284	68	-
Moyale	3404	419	1002	834	642	461	*	-

TABLE 4.5.1 RURAL HOLDINGS

Geographic Area	All Number	Number of holders under Crop and Livestock holdings by size of holding (Inectares)						
		Under 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 – 5.00	5.01 - 10	Over 10
Somali Region	73668	1777	19902	23424	19826	8181	533	*
Shinile	2410	113	1319	641	337	-	-	-
Shinile	556	41	368	76	71	-	-	-
Erer	1855	72	952	565	266	-	-	-
Jijiga	62512	1105	15530	20211	17852	7366	423	*
Jijiga	28927	840	7008	9217	8320	3412	*	-
Teferi Ber	18842	189	5526	6406	4614	1990	117	-
Kebri Beyah	14743	76	2995	4588	4919	1964	175	*
Liben	8745	558	3053	2573	1636	815	110	-
Filtu	2130	*	755	790	443	95	-	-
Dolo Odo	3211	93	1295	948	551	259	65	-
Moyale	3404	419	1002	834	642	461	*	-

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
Somali Region	2126	478	744	502	312	86	*	-
Shinile	227	85	91	48	*	-	-	-
Shinile	227	85	91	48	*	-	-	-
Jijiga	1631	298	566	429	277	61	-	-
Jijiga	378	73	117	121	58	10	-	-
Teferi Ber	750	24	273	252	155	46	-	-
Kebri Beyah	503	201	176	56	65	*	-	-
Liben	267	95	87	*	32	25	*	-
Filtu	2	1	1	-	-	-	-	-
Dolo Odo	265	94	86	*	32	25	*	-

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.....	580935	103384	2746	17826	31524	44269	7019
Under 0.10 Hectare.....	64522	12206	567	2392	3854	4876	516
0.10 – 0.50 Hectare.....	140041	26573	937	5081	9005	10412	1137
0.51 – 1.00 Hectare.....	166666	29698	831	4783	9664	12523	1897
1.01 – 2.00 Hectares.....	141178	24011	359	3826	6838	10893	2095
2.01 – 5.00 Hectares.....	63724	10023	*	1536	1942	5189	1312
5.01 – 10.00 Hectares....	4599	847	7	*	220	350	*
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	561107	100099	2650	17349	30656	42751	6693
Under 0.10 Hectare	60425	11458	551	2265	3609	4554	479
0.10 – 0.50 Hectare	132651	25346	892	4900	8689	9854	1011
0.51 – 1.00 Hectare	161884	28919	815	4656	9491	12134	1823
1.01 – 2.00 Hectares	138389	23599	348	3792	6745	10685	2028
2.01 – 5.00 Hectares	63004	9916	*	1530	1901	5149	1293
5.01 – 10.00 Hectares	4549	836	-	*	220	350	*
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	19827	3285	96	477	868	1518	326
Under 0.10 Hectare	4097	748	16	128	245	322	37
0.10 – 0.50 Hectare	7390	1227	46	182	316	559	126
0.51 – 1.00 Hectare	4781	779	15	127	173	389	74
1.01 – 2.00 Hectares	2789	412	11	34	93	208	67
2.01 – 5.00 Hectares	720	107	-	*	41	41	19
5.01 – 10.00 Hectares	*	11	7	-	-	-	*
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
Somali Region	580935	64522	140041	166666	141178	63724	4599	*
Shinile	22727	9648	7148	3746	2185	-	-	-
Shinile	9800	6315	2288	674	524	-	-	-
Erer	12927	3333	4860	3073	1661	-	-	-
Jijiga	419988	16534	96790	132214	117783	53254	3209	*
Jijiga	190700	7041	42819	59948	53165	26743	*	-
Teferi Ber	127094	4473	34388	43345	31311	12510	1068	-
Kebri Beyah	102193	5020	19584	28921	33307	14001	1156	*
Liben	138220	38340	36103	30706	21210	10470	1390	-
Filtu	38402	12364	9764	9358	6071	845	-	-
Dolo Odo	48611	15700	13954	9547	5922	2859	629	-
Moyale	51207	10277	12385	11800	9217	6766	762	-

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
Somali Region	561107	60425	132651	161884	138389	63004	4549	*
Shinile	21408	9161	6654	3442	2150	-	-	-
Shinile	8481	5828	1794	370	*	-	-	-
Erer	12927	3333	4860	3073	1661	-	-	-
Jijiga	403394	13613	90489	127883	115294	52709	3201	*
Jijiga	186006	6238	41285	58418	52503	26585	*	-
Teferi Ber	120087	4172	31492	41065	30089	12201	1068	-
Kebri Beyah	97301	3203	17713	28400	32703	13922	1156	*
Liben	136305	37651	35507	30559	20944	10296	1348	-
Filtu	38375	12347	9754	9358	6071	845	-	-
Dolo Odo	46723	15027	13368	9400	5657	2684	586	-
Moyale	51207	10277	12385	11800	9217	6766	762	-

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.
Somali Region	19827	4097	7390	4781	2789	720	*	-
Shinile	1319	487	494	304	*	-	-	-
Shinile	1319	487	494	304	*	-	-	-
Jijiga	16594	2921	6301	4331	2488	545	7	-
Jijiga	4694	803	1534	1530	661	158	7	-
Teferi Ber	7007	301	2896	2280	1222	309	-	-
Kebri Beyah	4892	1817	1871	521	604	*	-	-
Liben	1915	689	596	147	266	174	*	-
Filtu	27	17	10	-	-	-	-	-
Dolo Odo	1888	672	586	147	266	174	*	-

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
Somali Region	103384	12206	26573	29698	24011	10023	847	*
Shinile	5024	2353	1570	743	358	-	-	-
Shinile	2184	1503	471	134	77	-	-	-
Erer	2840	850	1100	609	281	-	-	-
Jijiga	75435	3103	18747	23914	20468	8521	657	*
Jijiga	36292	1373	8749	11683	9938	4281	*	-
Teferi Ber	21933	768	6321	7256	5256	2155	178	-
Kebri Beyah	17209	961	3678	4975	5274	2086	211	*
Liben	22925	6750	6256	5042	3185	1503	190	-
Filtu	6166	2153	1536	1462	886	129	-	-
Dolo Odo	8251	2691	2719	1536	873	348	84	-
Moyale	8509	1906	2001	2044	1426	1025	106	-

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
Somali Region	100099	11458	25346	28919	23599	9916	836	*
Shinile	4768	2252	1471	692	352	-	-	-
Shinile	1928	1401	372	84	71	-	-	-
Erer	2840	850	1100	609	281	-	-	-
Jijiga	72726	2564	17723	23223	20100	8442	649	*
Jijiga	35496	1216	8484	11435	9841	4259	*	-
Teferi Ber	20830	713	5868	6893	5071	2106	178	-
Kebri Beyah	16401	635	3370	4895	5188	2076	211	*
Liben	22605	6642	6152	5004	3147	1475	187	-
Filtu	6163	2151	1535	1462	886	129	-	-
Dolo Odo	7934	2585	2616	1498	835	320	80	-
Moyale	8509	1906	2001	2044	1426	1025	106	-

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
Somali Region	3285	748	1227	779	412	107	11	-
Shinile	256	101	99	50	*	-	-	-
Shinile	256	101	99	50	*	-	-	-
Jijiga	2709	539	1024	691	368	79	7	-
Jijiga	796	157	265	248	97	21	7	-
Teferi Ber	1104	55	452	362	185	49	-	-
Kebri Beyah	809	326	307	80	86	*	-	-
Liben	320	108	104	38	38	28	*	-
Filtu	3	2	1	-	-	-	-	-
Dolo Odo	317	106	103	38	38	28	*	-

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
Somali Region	2746	567	937	831	359	*	7	-
Shinile	309	246	59	*	-	-	-	-
Shinile	187	160	23	*	-	-	-	-
Erer	122	86	36	-	-	-	-	-
Jijiga	2079	143	809	741	335	*	7	-
Jijiga	1016	*	387	442	*	-	7	-
Teferi Ber	684	*	286	174	161	*	-	-
Kebri Beyah	379	*	*	*	*	*	-	-
Liben	358	178	69	86	*	-	-	-
Filtu	110	36	50	*	*	-	-	-
Dolo Odo	137	113	*	*	-	-	-	-
Moyale	110	30	*	*	*	-	-	-

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
Somali Region	2650	551	892	815	348	*	-	-
Shinile	300	246	50	*	-	-	-	-
Shinile	178	160	*	*	-	-	-	-
Erer	122	86	36	-	-	-	-	-
Jijiga	1996	126	776	726	324	*	-	-
Jijiga	984	*	375	434	*	-	-	-
Teferi Ber	657	*	277	167	154	*	-	-
Kebri Beyah	355	*	*	*	*	*	-	-
Liben	354	178	66	86	*	-	-	-
Filtu	110	36	50	*	*	-	-	-
Dolo Odo	134	113	*	*	-	-	-	-
Moyale	110	30	*	*	*	-	-	-

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
Somali Region	96	16	46	15	11	-	7	-
Shinile	9	-	9	-	-	-	-	-
Shinile	9	-	9	-	-	-	-	-
Jijiga	83	16	33	15	11	-	7	-
Jijiga	31	-	12	8	4	-	7	-
Teferi Ber	28	4	9	7	7	-	-	-
Kebri Beyah	24	*	*	-	-	-	-	-
Liben	*	-	*	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	-	*	-	-	-	-	-

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
Somali Region	17826	2392	5081	4783	3826	1536	*	-
Shinile	1395	703	451	205	36	-	-	-
Shinile	616	447	126	27	*	-	-	-
Erer	779	255	325	178	*	-	-	-
Jijiga	13106	571	3656	3909	3342	1422	*	-
Jijiga	7592	*	2045	2288	2171	681	*	-
Teferi Ber	2837	*	726	1012	558	428	*	-
Kebri Beyah	2676	199	885	608	614	313	*	-
Liben	3325	1119	974	669	448	115	-	-
Filtu	582	235	92	147	88	*	-	-
Dolo Odo	1561	488	681	290	91	*	-	-
Moyale	1182	396	201	232	268	*	-	-

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
Somali Region	17349	2265	4900	4656	3792	1530	*	-
Shinile	1330	671	430	196	33	-	-	-
Shinile	550	416	104	*	*	-	-	-
Erer	779	255	325	178	*	-	-	-
Jijiga	12756	486	3521	3813	3311	1418	*	-
Jijiga	7471	*	1984	2244	2163	681	*	-
Teferi Ber	2745	*	701	969	544	425	*	-
Kebri Beyah	2540	*	837	599	605	313	*	-
Liben	3263	1107	949	648	448	111	-	-
Filtu	582	235	92	147	88	*	-	-
Dolo Odo	1499	477	656	268	91	*	-	-
Moyale	1182	396	201	232	268	*	-	-

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
Somali Region	477	128	182	127	34	*	-	-
Shinile	66	31	22	10	*	-	-	-
Shinile	66	31	22	10	*	-	-	-
Jijiga	349	85	134	96	31	*	-	-
Jijiga	121	9	61	44	8	-	-	-
Teferi Ber	92	6	25	43	14	*	-	-
Kebri Beyah	136	69	49	*	*	-	-	-
Liben	63	12	26	*	-	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	63	12	26	*	-	*	-	-

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
Somali Region	31524	3854	9005	9664	6838	1942	220	-
Shinile	1801	832	573	276	119	-	-	-
Shinile	671	474	131	53	*	-	-	-
Erer	1129	358	441	223	106	-	-	-
Jijiga	23294	860	6551	7940	6106	1635	201	-
Jijiga	12003	504	3124	4614	2916	779	*	-
Teferi Ber	6528	156	2310	1662	1782	557	*	-
Kebri Beyah	4763	200	1117	1663	1408	300	*	-
Liben	6429	2162	1882	1448	612	307	*	-
Filtu	1790	820	422	382	144	*	-	-
Dolo Odo	2131	741	883	259	182	47	*	-
Moyale	2508	601	577	807	286	238	-	-

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
Somali Region	30656	3609	8689	9491	6745	1901	220	-
Shinile	1729	802	547	260	119	-	-	-
Shinile	600	444	106	37	*	-	-	-
Erer	1129	358	441	223	106	-	-	-
Jijiga	22578	680	6279	7789	6023	1606	201	-
Jijiga	11752	404	3057	4558	2896	771	*	-
Teferi Ber	6231	143	2168	1587	1738	535	*	-
Kebri Beyah	4595	*	1054	1645	1390	300	*	-
Liben	6349	2127	1863	1442	602	295	*	-
Filtu	1790	820	422	382	144	*	-	-
Dolo Odo	2051	706	865	253	172	*	*	-
Moyale	2508	601	577	807	286	238	-	-

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
Somali Region	868	245	316	173	93	41	-	-
Shinile	72	30	25	16	-	-	-	-
Shinile	72	30	25	16	-	-	-	-
Jijiga	716	181	272	150	83	30	-	-
Jijiga	251	100	67	56	20	7	-	-
Teferi Ber	297	13	142	76	44	22	-	-
Kebri Beyah	168	68	63	*	18	-	-	-
Liben	81	34	18	*	10	12	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	81	34	18	*	10	12	-	-

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
Somali Region	44269	4876	10412	12523	10893	5189	350	*
Shinile	1461	558	484	229	189	-	-	-
Shinile	677	411	188	42	*	-	-	-
Erer	784	147	296	187	154	-	-	-
Jijiga	32024	1420	6990	9959	9068	4371	190	*
Jijiga	13876	517	2885	3878	4214	2317	*	-
Teferi Ber	10476	433	2826	3862	2265	992	99	-
Kebri Beyah	7672	470	1279	2219	2590	1062	*	*
Liben	10784	2897	2938	2335	1635	818	161	-
Filtu	3132	951	796	758	547	79	-	-
Dolo Odo	3616	1144	1026	766	446	173	62	-
Moyale	4037	802	1116	811	643	566	99	-

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
Somali Region	42751	4554	9854	12134	10685	5149	350	*
Shinile	1362	518	445	213	187	-	-	-
Shinile	577	371	148	*	*	-	-	-
Erer	784	147	296	187	154	-	-	-
Jijiga	30749	1188	6524	9596	8886	4340	190	*
Jijiga	13580	473	2796	3773	4165	2309	*	-
Teferi Ber	9906	401	2605	3650	2175	975	99	-
Kebri Beyah	7263	*	1123	2173	2546	1056	*	*
Liben	10640	2848	2886	2325	1612	808	161	-
Filtu	3130	949	796	758	547	79	-	-
Dolo Odo	3474	1097	973	756	423	163	62	-
Moyale	4037	802	1116	811	643	566	99	-

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
Somali Region	1518	322	559	389	208	41	-	-
Shinile	99	40	40	17	*	-	-	-
Shinile	99	40	40	17	*	-	-	-
Jijiga	1275	233	466	363	182	31	-	-
Jijiga	296	44	90	105	49	8	-	-
Teferi Ber	571	32	221	212	90	17	-	-
Kebri Beyah	409	157	156	47	44	*	-	-
Liben	144	49	53	10	*	10	-	-
Filtu	2	2	-	-	-	-	-	-
Dolo Odo	142	47	53	10	*	10	-	-

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
Somali Region	7019	516	1137	1897	2095	1312	*	-
Shinile	58	*	*	28	*	-	-	-
Shinile	33	*	*	8	*	-	-	-
Erer	24	*	-	*	-	-	-	-
Jijiga	4932	109	741	1365	1616	1049	*	-
Jijiga	1805	*	308	461	499	504	-	-
Teferi Ber	1407	*	173	545	490	160	-	-
Kebri Beyah	1720	35	261	360	627	385	*	-
Liben	2029	394	393	504	465	263	*	-
Filtu	552	110	177	168	89	*	-	-
Dolo Odo	806	205	111	214	154	118	*	-
Moyale	672	78	105	121	223	138	*	-

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
Somali Region	6693	479	1011	1823	2028	1293	*	-
Shinile	47	*	-	*	*	-	-	-
Shinile	23	*	-	-	*	-	-	-
Erer	24	*	-	*	-	-	-	-
Jijiga	4647	*	623	1300	1555	1033	*	-
Jijiga	1709	*	272	425	483	498	-	-
Teferi Ber	1291	*	117	521	460	153	-	-
Kebri Beyah	1648	*	233	354	612	382	*	-
Liben	1999	380	388	504	460	260	*	-
Filtu	551	110	176	168	89	*	-	-
Dolo Odo	777	*	108	214	148	114	-	-
Moyale	672	78	105	121	223	138	*	-

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
Somali Region	326	37	126	74	67	19	*	-
Shinile	11	-	*	8	-	-	-	-
Shinile	11	-	*	8	-	-	-	-
Jijiga	285	24	119	66	61	15	-	-
Jijiga	97	4	36	35	16	6	-	-
Teferi Ber	116	-	56	24	30	*	-	-
Kebri Beyah	72	20	27	*	*	*	-	-
Liben	30	13	*	-	*	*	*	-
Filtu	1	-	1	-	-	-	-	-
Dolo Odo	29	13	*	-	*	*	*	-

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	104839	97834	255312
Land Under Temporary Crops	84271	61974	130096
Land Under Permanent Crops	36009	8116	42781
Grazing Land	20997	12317	22505
Fallow Land	26917	13413	30326
Woodland	364	*	364
All Other Land	100990	1910	109302
Holdings Under 0.10 Hectares Sizes			
All	12369	335	14717
Land Under Temporary Crops	2542	122	2653
Land Under Permanent Crops	1033	22	1039
Grazing Land	*	*	*
Fallow Land	672	28	755
Woodland	*	*	*
All Other Land	11566	157	12148
Holdings Of 0.10-0.50 Hectares Sizes			
All	27158	8423	59547
Land Under Temporary Crops	22663	5599	28256
Land Under Permanent Crops	9012	945	9835
Grazing Land	2498	409	2510
Fallow Land	5666	1116	6026
Woodland	*	*	*
All Other Land	25695	354	26936
Holdings Of 0.51-1.00 Hectares Sizes			
All	30358	22123	78264
Land Under Temporary Crops	27034	15102	42061
Land Under Permanent Crops	11820	2293	14552
Grazing Land	5312	1407	5428
Fallow Land	7920	2745	8771
Woodland	65	*	65
All Other Land	29316	568	32080
Holdings Of 1.01-2.00 Hectares Sizes			
All	24364	34295	70648
Land Under Temporary Crops	22392	23089	39307
Land Under Permanent Crops	9903	3126	12447
Grazing Land	7606	3184	8093
Fallow Land	7823	4289	8818
Woodland	*	*	*
All Other Land	23942	583	26754
Holdings Of 2.01-5.00 Hectares Sizes			
All	9717	27277	29629
Land Under Temporary Crops	8917	16256	16618
Land Under Permanent Crops	3902	1503	4567
Grazing Land	4806	5365	5488
Fallow Land	4297	3867	5261
Woodland	*	*	*
All Other Land	9610	227	10471
Holdings Of 5.01-10.00 Hectares			
All	847	5063	2455
Land Under Temporary Crops	697	1707	1175
Land Under Permanent Crops	*	227	*
Grazing Land	552	1883	*
Fallow Land	514	1216	670
Woodland	*	*	*
All Other Land	836	21	887
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	101554	96000	251543
Land Under Temporary Crops	81074	60198	126514
Land Under Permanent Crops	35717	8059	42476
Grazing Land	20997	12317	22505
Fallow Land	26917	13413	30326
Woodland	364	*	364
All Other Land	100990	1910	109302
Holdings Under 0.10 Hectares Sizes			
All	11621	299	13937
Land Under Temporary Crops	1860	88	1947
Land Under Permanent Crops	944	21	950
Grazing Land	*	*	*
Fallow Land	672	28	755
Woodland	*	*	*
All Other Land	11566	157	12148
Holdings Of 0.10-0.50 Hectares Sizes			
All	25930	8065	58220
Land Under Temporary Crops	21450	5248	26968
Land Under Permanent Crops	8971	938	9787
Grazing Land	2498	409	2510
Fallow Land	5666	1116	6026
Woodland	*	*	*
All Other Land	25695	354	26936
Holdings Of 0.51-1.00 Hectares Sizes			
All	29579	21578	77318
Land Under Temporary Crops	26259	14575	41148
Land Under Permanent Crops	11742	2275	14474
Grazing Land	5312	1407	5428
Fallow Land	7920	2745	8771
Woodland	65	*	65
All Other Land	29316	568	32080
Holdings Of 1.01-2.00 Hectares Sizes			
All	23951	33752	70084
Land Under Temporary Crops	21984	22566	38769
Land Under Permanent Crops	9851	3107	12396
Grazing Land	7606	3184	8093
Fallow Land	7823	4289	8818
Woodland	*	*	*
All Other Land	23942	583	26754
Holdings Of 2.01-5.00 Hectares Sizes			
All	9610	26989	29488
Land Under Temporary Crops	8810	15979	16493
Land Under Permanent Crops	3869	1491	4529
Grazing Land	4806	5365	5488
Fallow Land	4297	3867	5261
Woodland	*	*	*
All Other Land	9610	227	10471
Holdings Of 5.01-10.00 Hectares			
All	836	4999	2444
Land Under Temporary Crops	686	1643	1164
Land Under Permanent Crops	*	227	*
Grazing Land	552	1883	*
Fallow Land	514	1216	670
Woodland	*	*	*
All Other Land	836	21	887
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	3285	1834	3769
Land Under Temporary Crops	3197	1776	3582
Land Under Permanent Crops	292	57	305
Holdings Under 0.10 Hectares Sizes			
All	748	36	780
Land Under Temporary Crops	683	35	706
Land Under Permanent Crops	89	1	89
Holdings Of 0.10-0.50 Hectares Sizes			
All	1227	358	1327
Land Under Temporary Crops	1213	351	1289
Land Under Permanent Crops	41	7	48
Holdings Of 0.51-1.00 Hectares Sizes			
All	779	546	945
Land Under Temporary Crops	775	528	913
Land Under Permanent Crops	78	18	78
Holdings Of 1.01-2.00 Hectares Sizes			
All	412	543	564
Land Under Temporary Crops	408	523	538
Land Under Permanent Crops	52	20	52
Holdings Of 2.01-5.00 Hectares Sizes			
All	107	288	141
Land Under Temporary Crops	107	276	126
Land Under Permanent Crops	33	12	39
Holdings Of 5.01-10.00 Hectares			
All	11	64	11
Land Under Temporary Crops	11	64	11
Land Under Permanent Crops	-	-	-
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
Somali Region	104839	97834	0.3	8.6	22.6	35.1	27.9	5.2	0.3	255312	5.8	23.3	30.7	27.7	11.6	1	-
Shinile	5054	1502	3	31.7	35.2	30.1	-	-	-	8490	28.9	38.6	20.4	12.1	-	-	-
Shinile	2184	359	7.3	35.4	25	32.2	-	-	-	2779	55.9	29.9	8.5	5.7	-	-	-
Erer	2869	1143	1.7	30.5	38.4	29.5	-	-	-	5712	15.8	42.8	26.2	15.2	-	-	-
Jijiga	76585	80903	0.2	7.4	22.2	36.4	28.7	4.7	0.4	201771	2.1	21.5	32.1	30.4	12.9	1	-
Jijiga	37412	39369	0.2	7	22.9	37.2	28.9	3.8	-	112786	2	20.2	33.4	31.2	12.6	0.7	-
Teferi Ber	21963	21703	0.1	9.2	24.6	33.9	27.5	4.7	-	49007	2.1	26.7	32.2	26.2	11.9	0.9	-
Kebri Beyah	17209	19830	0.2	6.3	18.5	37.7	29.5	6.4	1.6	39978	2.7	19	28.2	33.4	15	1.7	0.1
Liben	23200	15429	1.1	12.7	23.3	28.2	26.5	8.2	-	45050	17.8	28.5	26.3	18.2	8.2	1.2	-
Filtu	6195	3103	1.3	17.4	33.5	37.6	10.2	-	-	11718	20.6	27.1	28.4	21	3	-	-
Dolo Odo	8438	4708	1.2	17.1	23.1	24.4	22.9	11.3	-	15533	19	37.9	22	13.6	5.8	1.7	-
Moyale	8568	7618	0.9	8.1	19.4	26.8	35.3	9.6	-	17800	14.8	21.2	28.6	20.3	13.6	1.5	-

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
Somali Region	101554	96000	0.3	8.4	22.5	35.2	28.1	5.2	0.3	251543	5.5	23.2	30.7	27.9	11.7	1	-
Shinile	4797	1432	2.8	31.5	34.5	31.2	-	-	-	8206	28.6	38.7	20.3	12.4	-	-	-
Shinile	1928	289	7.4	35.5	19.2	37.8	-	-	-	2494	58	29.3	6.8	6	-	-	-
Erer	2869	1143	1.7	30.5	38.4	29.5	-	-	-	5712	15.8	42.8	26.2	15.2	-	-	-
Jijiga	73876	79354	0.1	7.2	22.1	36.6	29	4.7	0.4	198612	1.9	21.3	32.2	30.7	13	1	-
Jijiga	36616	38886	0.2	6.9	22.7	37.4	29.1	3.8	-	111751	1.8	20.1	33.4	31.4	12.6	0.7	-
Teferi Ber	20860	20947	0.1	8.9	24.3	34	27.9	4.9	-	47759	2	26.4	32.2	26.4	12.1	1	-
Kebri Beyah	16401	19520	0.1	5.9	18.4	37.6	29.8	6.5	1.6	39102	1.9	18.6	28.6	33.8	15.3	1.7	0.1
Liben	22880	15214	1.1	12.7	23.5	28.3	26.3	8.2	-	44725	17.6	28.5	26.4	18.2	8.1	1.2	-
Filtu	6192	3102	1.3	17.4	33.5	37.6	10.2	-	-	11715	20.6	27.1	28.4	21	3	-	-
Dolo Odo	8120	4494	1.2	17.4	23.7	24.3	22.1	11.4	-	15210	18.7	38	22.2	13.6	5.8	1.8	-
Moyale	8568	7618	0.9	8.1	19.4	26.8	35.3	9.6	-	17800	14.8	21.2	28.6	20.3	13.6	1.5	-

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
Somali Region	3285	1834	1.9	19.5	29.8	29.6	15.7	3.5	-	3769	20.7	35.2	25.1	15	3.7	0.3	-
Shinile	256	70	7.1	34.9	48.8	9.2	-	-	-	285	37.2	35.7	24	3.1	-	-	-
Shinile	256	70	7.1	34.9	48.8	9.2	-	-	-	285	37.2	35.7	24	3.1	-	-	-
Jijiga	2709	1549	1.7	19.9	31.4	31.2	13	2.8	-	3159	17.9	35.5	26.6	16.2	3.6	0.2	-
Jijiga	796	484	0.8	16	35.9	25.2	13	9	-	1035	16.4	31.9	32.1	14.8	4.1	0.7	-
Teferi Ber	1104	756	0.1	19.6	33.4	31.3	15.7	-	-	1248	5.6	37.9	32.7	19.1	4.7	-	-
Kebri Beyah	809	310	7	26.7	19.6	40.4	6.3	-	-	876	37.3	36.5	11.2	13.7	1.4	-	-
Liben	320	214	1.9	11.8	11.7	24.6	40.7	9.4	-	326	33.3	32	11.7	13.4	8.6	1.1	-
Filtu	3	-	47.8	52.2	-	-	-	-	-	3	66.7	33.3	-	-	-	-	-
Dolo Odo	317	214	1.8	11.8	11.7	24.7	40.7	9.4	-	323	33	32	11.8	13.5	8.7	1.1	-

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
Somali Region	84271	61974	0.2	9	24.4	37.3	26.2	2.8	0.2	130096	2	21.7	32.3	30.2	12.8	0.9	-
Shinile	2768	917	1.1	33.6	37.4	27.9	-	-	-	3367	6.4	49.6	28.8	15.4	-	-	-
Shinile	813	230	3.1	42.5	30.2	24.3	-	-	-	871	16.9	55.7	17.5	10	-	-	-
Erer	1954	687	0.5	30.6	39.8	29.1	-	-	-	2496	2.7	47.4	32.7	17.2	-	-	-
Jijiga	72358	57241	0.1	7.9	23.8	38	27.2	2.8	0.2	116355	1.4	19.9	32.9	31.5	13.4	0.9	-
Jijiga	36250	27798	0.2	7.1	23.9	39.6	27.3	1.9	-	72986	1.5	18.5	34.1	32	13.3	0.7	-
Teferi Ber	20800	17130	-	9.6	26.4	36	25.6	2.3	-	24481	0.7	25.3	33.4	27.4	12.3	0.9	-
Kebri Beyah	15308	12313	0.2	7.4	20	37.3	28.9	5.4	0.8	18887	2.1	18.4	27.5	34.8	15.6	1.5	0.1
Liben	9145	3817	0.9	19.7	29.6	28	18.7	3.2	-	10373	7.7	33.2	27.3	21	9.4	1.4	-
Filtu	2223	1607	0.2	18.5	34	34.4	12.8	-	-	2642	1.8	30.1	33.9	28.6	5.5	-	-
Dolo Odo	3315	1310	0.7	21.5	28	21.5	20.7	7.7	-	3768	5.3	40.5	25.9	18.2	8	2	-
Moyale	3608	900	2.2	19	23.9	26.1	26.5	2.3	-	3964	14	28.2	24.2	18.7	13.4	1.6	-

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
Somali Region	81074	60198	0.2	8.7	24.2	37.5	26.5	2.7	0.2	126514	1.5	21.3	32.5	30.6	13	0.9	-
Shinile	2514	848	0.6	33.4	36.5	29.4	-	-	-	3089	3.5	50.8	29.3	16.5	-	-	-
Shinile	560	161	1.3	45.6	22.4	30.7	-	-	-	593	6.9	65.1	14.8	13.2	-	-	-
Erer	1954	687	0.5	30.6	39.8	29.1	-	-	-	2496	2.7	47.4	32.7	17.2	-	-	-
Jijiga	69734	55744	0.1	7.6	23.6	38.2	27.5	2.8	0.2	113376	1	19.5	33	31.9	13.7	0.9	-
Jijiga	35535	27354	0.2	7	23.7	39.8	27.6	1.8	-	72116	1.3	18.3	34.1	32.2	13.4	0.7	-
Teferi Ber	19697	16387	-	9.2	26.1	36.3	26.1	2.4	-	23243	0.5	24.6	33.5	27.8	12.7	1	-
Kebri Beyah	14503	12004	-	6.9	20	37.2	29.5	5.6	0.8	18018	0.4	17.5	28.3	35.8	16.3	1.5	0.1
Liben	8825	3605	0.8	20.1	30.6	28.2	17.4	2.8	-	10048	6.9	33.2	27.8	21.3	9.5	1.4	-
Filtu	2220	1606	0.2	18.5	34	34.4	12.8	-	-	2639	1.8	30.1	33.9	28.7	5.5	-	-
Dolo Odo	2997	1099	0.5	23.4	31.1	21	16.8	7.4	-	3445	2.7	41.3	27.3	18.6	8	2.1	-
Moyale	3608	900	2.2	19	23.9	26.1	26.5	2.3	-	3964	14	28.2	24.2	18.7	13.4	1.6	-

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
Somali Region	3197	1776	2	19.8	29.7	29.4	15.6	3.6	-	3582	19.7	36	25.5	15	3.5	0.3	-
Shinile	253	69	7.3	35.1	48.3	9.4	-	-	-	278	38.1	35.5	23.3	3.1	-	-	-
Shinile	253	69	7.3	35.1	48.3	9.4	-	-	-	278	38.1	35.5	23.3	3.1	-	-	-
Jijiga	2624	1496	1.7	20.2	31.4	31.1	12.7	2.9	-	2979	16.5	36.5	27.2	16.3	3.3	0.3	-
Jijiga	714	444	0.8	16.4	36.5	24.1	12.4	9.8	-	871	11.3	34.1	35.3	15.3	3.1	0.9	-
Teferi Ber	1104	743	0.1	19.7	33.2	31.4	15.5	-	-	1239	5.7	38.2	32.7	18.8	4.7	-	-
Kebri Beyah	806	309	6.9	26.6	19.7	40.5	6.3	-	-	870	37.2	36.4	11.3	13.8	1.4	-	-
Liben	320	211	1.8	11.9	11.9	24	40.9	9.5	-	326	33.3	32	11.7	13.4	8.6	1.1	-
Filtu	3	-	47.8	52.2	-	-	-	-	-	3	66.7	33.3	-	-	-	-	-
Dolo Odo	317	211	1.7	11.8	11.9	24.1	41	9.5	-	323	33	32	11.8	13.5	8.7	1.1	-

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
Somali Region	36009	8116	0.3	11.6	28.3	38.5	18.5	2.8	-	42781	2.4	23	34	29.1	10.7	0.8	-
Shinile	1399	294	0.5	33.3	37.9	28.3	-	-	-	1813	1.5	44.4	34.1	19.9	-	-	-
Shinile	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Erer	1365	290	0.5	32.7	38.1	28.7	-	-	-	1765	1.5	43.1	34.8	20.5	-	-	-
Jijiga	32331	7670	0.2	10.8	27.8	39.5	19	2.6	-	38656	1.8	21.8	34.4	30.1	11.2	0.8	-
Jijiga	22480	4172	0.3	13.6	32.9	36.8	15.3	1.1	-	28458	2	22.9	35.9	28.7	9.9	0.7	-
Teferi Ber	4422	917	0.7	18.5	29.8	33	18	-	-	4627	2.6	30.9	33.5	24.6	8.5	-	-
Kebri Beyah	5430	2581	-	3.6	19	46	25.4	6	-	5571	0.1	8.6	27.3	42.1	20	2	-
Liben	2279	*	*	*	*	*	*	*	*	2311	14.3	26.9	28	18.9	10.6	1.3	-
Filtu	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Dolo Odo	1261	*	*	*	*	*	*	*	*	1281	3	31.9	36.9	18	7.9	2.4	-
Moyale	1011	3	60.4	7.2	7.9	4.1	20.1	-	-	1023	28.6	20.8	16.8	19.8	14	-	-

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
Somali Region	35717	8059	0.3	11.6	28.2	38.6	18.5	2.8	-	42476	2.2	23	34.1	29.2	10.7	0.8	-
Shinile	1393	293	0.5	33.3	37.8	28.5	-	-	-	1806	1.5	44.4	34	20	-	-	-
Shinile	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Erer	1365	290	0.5	32.7	38.1	28.7	-	-	-	1765	1.5	43.1	34.8	20.5	-	-	-
Jijiga	32072	7617	0.2	10.8	27.8	39.5	19	2.6	-	38384	1.6	21.8	34.4	30.2	11.2	0.8	-
Jijiga	22279	4132	0.3	13.6	32.9	36.8	15.3	1.1	-	28244	1.7	22.9	36	28.8	9.9	0.7	-
Teferi Ber	4370	904	0.7	18.6	29.6	33.2	17.9	-	-	4575	2.7	31.1	33.4	24.6	8.3	-	-
Kebri Beyah	5423	2580	-	3.6	19	46	25.4	6	-	5565	-	8.5	27.3	42.1	20	2	-
Liben	2253	*	*	*	*	*	*	*	*	2285	14.3	27.1	28.4	18.8	10.2	1.3	-
Filtu	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Dolo Odo	1235	*	*	*	*	*	*	*	*	1255	2.8	32.3	37.7	17.7	7.1	2.4	-
Moyale	1011	3	60.4	7.2	7.9	4.1	20.1	-	-	1023	28.6	20.8	16.8	19.8	14	-	-

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
Somali Region	292	57	1.5	12	31.7	34.5	20.3	-	-	305	29.1	15.8	25.5	17	12.6	-	-
Shinile	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shinile	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Jijiga	259	53	1.3	12	32.3	33.6	20.9	-	-	272	31.5	15.4	27.2	15.9	10	-	-
Jijiga	201	39	1.4	11.4	29.1	37.9	20.2	-	-	214	38.6	15.3	24	15	7.2	-	-
Teferi Ber	52	13	-	10.1	43.7	22	24.1	-	-	52	-	12.1	43.5	21.6	22.9	-	-
Kebri Beyah	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Liben	26	3	5.5	5.5	-	68.5	20.6	-	-	26	12.3	12.3	-	32.6	42.9	-	-
Filtu	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	26	3	5.5	5.5	-	68.5	20.6	-	-	26	12.3	12.3	-	32.6	42.9	-	-

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
Somali Region	20997	12317	-	3.3	11.4	25.9	43.6	15.3	0.5	22505	0.9	11.2	24.1	36	24.4	3.4	0.1
Shinile	372	91	-	15	22.9	62.1	-	-	-	372	-	39.9	33.6	26.6	-	-	-
Shinile	161	69	-	13.3	15.8	71	-	-	-	161	-	40.2	19.9	39.9	-	-	-
Erer	211	22	-	20.6	45.4	34.1	-	-	-	211	-	39.6	44	16.4	-	-	-
Jijiga	15808	8782	-	1.9	10.6	25.7	46	15	0.8	17175	1.1	8	23.5	37.8	25.9	3.6	0.2
Jijiga	9691	5175	-	1.3	9.7	25.6	47	16.4	-	11058	1.5	6.5	22.8	38.3	26.7	4.1	-
Teferi Ber	1987	1385	-	1.3	10.7	19.1	51.8	17.1	-	1987	-	7.2	25	31.7	32.9	3.3	-
Kebri Beyah	4130	2222	0.1	3.9	12.7	29.9	40.1	10.3	3	4130	0.5	12.4	24.8	39.1	20.3	2.3	0.6
Liben	4817	3444	-	6.5	13.2	25.4	38.4	16.5	-	4957	0.2	19.8	25.6	30.5	21	2.9	-
Filtu	223	63	-	21	11.1	37.3	30.7	-	-	246	-	32.5	17.6	31.3	18.7	-	-
Dolo Odo	760	370	-	17.5	14.3	27.2	14.5	26.6	-	795	-	36.1	19	37	4.9	3	-
Moyale	3834	3011	-	4.9	13.1	24.9	41.5	15.7	-	3916	0.2	15.7	27.4	29.1	24.5	3.1	-

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
Somali Region	26917	13413	0.2	8.3	20.5	32	28.8	9.1	1.1	30326	2.5	19.9	28.9	29.1	17.4	2.2	0.1
Shinile	851	108	0.1	25.2	33.8	40.9	-	-	-	921	0.7	42.1	35.9	21.3	-	-	-
Shinile	161	20	-	39.3	28.7	31.9	-	-	-	161	-	68.9	23.1	8	-	-	-
Erer	690	88	0.1	22.1	35	42.9	-	-	-	761	0.9	36.5	38.5	24.1	-	-	-
Jijiga	14268	5802	-	3.8	14.7	33.5	33.5	11.8	2.6	15029	0.5	10.9	27.8	36	22	2.7	0.2
Jijiga	6322	1466	0.2	3.4	16.6	33.8	40.3	5.7	-	6881	1.1	9.2	28.6	34.5	23.7	2.8	-
Teferi Ber	3600	1876	-	3.3	13.2	28.2	35	20.3	-	3690	-	12.5	25.5	34.6	24.5	2.9	-
Kebri Beyah	4346	2459	-	4.4	14.7	37.5	28.4	8.9	6.2	4458	-	12.1	28.5	39.4	17.3	2.2	0.6
Liben	11798	7504	0.4	11.6	24.7	30.7	25.6	7.1	-	14376	4.7	27.8	29.7	22.4	13.6	1.9	-
Filtu	1958	1277	0.4	15.2	34.5	42.9	7	-	-	2178	3.8	32.9	32.1	28.9	2.4	-	-
Dolo Odo	4111	2673	0.2	15	21.8	27	24.9	11	-	4930	2.3	40.2	26.3	20.4	8.1	2.8	-
Moyale	5729	3554	0.4	7.7	23.4	29	32.8	6.7	-	7268	6.6	18	31.2	21.7	20.7	1.9	-

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
Somali Region	364	*	*	*	*	*	*	*	*	364	13.8	11.6	18	29.6	24.4	2.7	-
Shinile	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Shinile	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Jijiga	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Jijiga	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Teferi Ber	*	*	-	-	-	-	-	-	-	*	*	*	*	*	*	*	*
Kebri Beyah	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben	158	51	2	0.1	15	15.5	48.5	18.9	-	158	31.7	4.8	41.3	9.6	6.3	6.3	-
Filtu	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Dolo Odo	*	50	-	-	15	15.9	49.7	19.4	-	*	*	*	*	*	*	*	*
Moyale	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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
Somali Region	100990	1910	8.2	18.5	29.8	30.5	11.9	1.1	-	109302	11.1	24.6	29.4	24.5	9.6	0.8	-
Shinile	4768	91	36.7	31.4	18.1	13.8	-	-	-	4834	46.9	31.1	14.4	7.6	-	-	-
Shinile	1928	37	52.6	26.5	8.2	12.7	-	-	-	1964	72.2	19.9	4.3	3.6	-	-	-
Erer	2840	55	26	34.6	24.8	14.6	-	-	-	2870	29.6	38.8	21.4	10.2	-	-	-
Jijiga	73530	1358	1.6	16.7	32.7	35.3	12.8	1	-	77924	3.4	24	32.1	28.6	11	0.8	-
Jijiga	36300	708	1.2	10.9	32.9	41	13.2	0.8	-	39972	3.3	23.2	32.9	29.1	10.9	0.7	-
Teferi Ber	20830	395	1.9	27.5	36.7	23	10	0.9	-	21366	3.3	27.9	32.6	25.3	10.1	0.8	-
Kebri Beyah	16401	256	2.6	16.2	25.7	38.2	15.7	1.6	0.1	16585	3.8	20.6	29.8	31.7	12.6	1.3	0.2
Liben	22692	461	22	21.3	23.6	19.9	11.8	1.6	-	26545	27.2	25.5	23.9	15.3	7.1	0.9	-
Filtu	6183	156	19.1	22.4	28.9	28.1	1.6	-	-	7225	31.7	23.7	25.5	16.6	2.4	-	-
Dolo Odo	7997	156	26.7	25.1	19.4	11.7	14.5	2.6	-	8236	31.9	32.5	20	9.7	4.8	1.1	-
Moyale	8513	149	19.9	16.1	22.3	19.9	19.6	2.2	-	11083	20.9	21.4	25.8	18.7	12	1.3	-

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	86789	70090	299	8751	20129	26741	13288	881	-
Temporary Crops	84271	61974	255	7574	17429	23718	12263	735	-
Grain Crops	83924	61154	242	7438	17169	23441	12144	718	-
Cereals	83393	58725	219	7014	16334	22742	11713	702	-
Barley	22426	6631	*	502	1585	2675	1848	*	-
Maize	66801	21469	145	3277	6548	7901	3305	*	-
Millet	*	*	*	*	*	*	*	-	-
Oats/'Aja'	5398	437	-	50	132	180	75	-	-
Rice	-	-	-	-	-	-	-	-	-
Sorghum	53149	21608	57	2327	6056	8366	4564	*	-
Teff	276	*	*	*	*	*	-	-	-
Wheat	29354	8504	*	852	1996	3575	1915	*	-
Pulses	13476	1409	23	279	458	406	235	*	-
Chick Peas	3740	416	-	32	*	151	88	-	-
Fenugreek	1702	57	-	*	*	35	*	-	-
Field Peas	989	89	-	*	*	16	29	-	-
Gibto	-	-	-	-	-	-	-	-	-
Haricot beans	7415	724	23	216	245	145	86	*	-
Horse beans	*	*	-	*	*	*	-	-	-
Soya beans	*	*	-	-	-	*	-	-	-
Lentils	849	84	-	*	*	*	*	-	-
Vetch	*	*	-	-	-	*	-	-	-
Other Pulses	*	*	-	*	-	-	-	-	-
Oilseeds	6497	502	*	62	136	163	134	*	-
Groundnuts	*	*	-	*	*	-	-	-	-
Linseed	5629	446	*	*	133	163	118	-	-
Neug	*	*	-	*	-	-	*	-	-
Rape seed	-	-	-	-	-	-	-	-	-
Sesame	55	*	-	*	-	-	*	*	-
Sufflower	-	-	-	-	-	-	-	-	-
Other Grains	2793	519	-	*	*	130	*	*	-
Vegetables	2057	106	*	26	33	*	*	*	-
Head Cabbage	*	*	-	*	-	-	-	-	-
Green peppers	372	14	*	3	4	*	*	-	-
Ethiopian	*	*	*	*	*	-	-	-	-
Lettuce	*	1	1	*	-	-	-	-	-
Red peppers	*	*	-	-	*	-	-	-	-
Swiss chard	*	*	*	-	-	-	-	-	-
Tomatoes	1148	68	*	15	14	*	*	*	-
Other vegetables	*	*	*	*	*	*	-	-	-
Root Crops	10456	714	*	110	227	266	93	*	-
Beetroot	*	*	-	*	-	-	-	-	-
Carrot	*	*	-	*	-	-	-	-	-
Garlic	4717	270	*	*	67	109	*	-	-
Taro/'Godere'	-	-	-	-	-	-	-	-	-
Onion	4002	239	*	26	82	85	*	*	-
Potatoes	1394	45	*	5	*	28	*	-	-
Sweet Potatoes	2177	156	*	37	*	*	-	-	-
Other root	-	-	-	-	-	-	-	-	-
Permanent Crops	36009	8116	44	1177	2700	3024	1025	*	-
Fruit crops	4659	438	12	119	138	117	*	*	-
Avocados	-	-	-	-	-	-	-	-	-
Bananas	1484	191	2	64	60	*	*	-	-
Guavas	1119	40	*	4	2	13	*	-	-
Lemons	979	35	*	12	19	4	*	-	-
Mangoes	1562	42	7	9	17	*	*	-	-
Oranges	679	55	-	18	24	10	*	-	-
Papayas	1760	61	1	8	15	*	*	*	-
Pinneapples	-	-	-	-	-	-	-	-	-
Other fruits	402	*	*	4	3	*	-	-	-
Stimulant crops	32946	7665	32	1057	2560	2897	973	*	-
Chat	32371	7636	29	1038	2554	2896	973	*	-
Coffee	*	*	*	*	6	*	-	-	-
Hops/'Gesho'	*	*	-	-	*	-	-	-	-
Other stimulants	-	-	-	-	-	-	-	-	-
Other permanent	281	*	*	1	*	*	*	-	-
Enset	*	2	-	-	-	2	-	-	-
Sugar Cane	117	1	*	*	*	*	-	-	-
Other s	146	*	*	*	*	*	*	-	-

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	83503	68257	263	8393	19584	26199	13000	818	-
Temporary Crops	81074	60198	220	7223	16902	23195	11987	671	-
Grain Crops	80787	59404	209	7092	16646	22920	11875	661	-
Cereals	80265	57041	187	6673	15815	22239	11475	652	-
Barley	22004	6512	*	493	1539	2637	1821	*	-
Maize	64766	20847	122	3131	6362	7726	3219	*	-
Millet	*	*	-	*	*	*	*	-	-
Oats/'Aja'	5358	433	-	50	130	178	75	-	-
Rice	-	-	-	-	-	-	-	-	-
Sorghum	51192	20824	48	2154	5808	8131	4466	*	-
Teff	260	*	-	*	*	*	-	-	-
Wheat	28926	8354	*	840	1961	3522	1888	*	-
Pulses	13239	1351	22	274	455	389	204	*	-
Chick Peas	3656	407	-	*	*	146	85	-	-
Fenugreek	1702	57	-	*	*	35	*	-	-
Field Peas	948	86	-	*	*	*	*	-	-
Gibto	-	-	-	-	-	-	-	-	-
Haricot beans	7269	678	22	211	244	135	58	*	-
Horse beans	*	*	-	*	*	*	-	-	-
Soya beans	*	*	-	-	-	*	-	-	-
Lentils	849	84	-	*	*	*	*	-	-
Vetch	*	*	-	-	-	*	-	-	-
Other Pulses	*	*	-	*	-	-	-	-	-
Oilseeds	6482	493	*	62	134	163	134	-	-
Groundnuts	*	*	-	*	*	-	-	-	-
Linseed	5625	445	*	*	133	163	118	-	-
Neug	*	*	-	*	-	-	*	-	-
Rape seed	-	-	-	-	-	-	-	-	-
Sesame	52	*	-	*	-	-	*	-	-
Sufflower	-	-	-	-	-	-	-	-	-
Other Grains	2793	519	-	*	*	130	*	*	-
Vegetables	1918	97	*	25	31	*	*	*	-
Head Cabbage	*	*	-	*	-	-	-	-	-
Green peppers	355	13	*	2	4	*	*	-	-
Ethiopian Cabbage	*	*	*	*	*	-	-	-	-
Lettuce	*	*	-	*	-	-	-	-	-
Red peppers	*	*	-	-	*	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Tomatoes	1054	60	*	14	13	*	*	*	-
Other vegetables	*	*	*	-	*	*	-	-	-
Root Crops	10375	697	*	106	225	265	90	*	-
Beetroot	*	*	-	*	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Garlic	4707	269	*	*	67	109	*	-	-
Taro/'Godere'	-	-	-	-	-	-	-	-	-
Onion	3947	226	-	25	81	84	*	*	-
Potatoes	1383	44	*	*	*	28	*	-	-
Sweet Potatoes	2166	154	*	*	*	*	-	-	-
Other root	-	-	-	-	-	-	-	-	-
Permanent Crops	35717	8059	43	1170	2682	3004	1013	*	-
Fruit crops	4569	423	11	118	136	*	*	*	-
Avocados	-	-	-	-	-	-	-	-	-
Bananas	1458	189	2	64	59	*	*	-	-
Guavas	1077	*	*	4	2	*	*	-	-
Lemons	963	34	*	12	18	4	-	-	-
Mangoes	1532	40	6	9	15	*	-	-	-
Oranges	679	55	-	18	24	10	*	-	-
Papayas	1742	60	1	*	15	*	*	*	-
Pinneapples	-	-	-	-	-	-	-	-	-
Other fruits	385	*	-	4	3	*	-	-	-
Stimulant crops	32742	7624	32	1051	2544	2888	962	*	-
Chat	32173	7596	29	1033	2538	2888	962	*	-
Coffee	*	*	*	*	6	*	-	-	-
Hops/'Gesho'	*	*	-	-	*	-	-	-	-
Other stimulants	-	-	-	-	-	-	-	-	-
Other permanent	271	*	*	1	*	*	*	-	-
Enset	*	*	-	-	-	*	-	-	-
Sugar Cane	112	1	*	*	*	*	-	-	-
Other s	146	*	*	*	*	*	*	-	-

TABLE 4.22.2 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	3285	1834	36	358	546	543	288	64	-
Temporary Crops	3197	1776	35	351	528	523	276	64	-
Grain Crops	3137	1750	33	346	524	521	269	57	-
Cereals	3127	1684	32	341	519	504	238	50	-
Barley	422	120	-	9	46	37	27	-	-
Maize	2036	623	23	146	186	174	87	*	-
Millet	-	-	-	-	-	-	-	-	-
Oats/'Aja'	40	4	*	*	*	*	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Sorghum	1957	784	9	173	248	235	97	22	-
Teff	16	3	-	-	2	1	-	-	-
Wheat	428	151	*	13	35	54	27	22	-
Pulses	237	57	1	5	3	17	32	-	-
Chick Peas	83	9	*	*	1	5	*	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Field Peas	41	3	*	-	1	1	1	-	-
Gibto	-	-	-	-	-	-	-	-	-
Haricot beans	146	45	1	4	*	11	*	-	-
Horse beans	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-
Other Pulses	-	-	-	-	-	-	-	-	-
Oilseeds	16	*	-	*	1	-	-	*	-
Groundnuts	8	1	-	*	1	-	-	-	-
Linseed	*	*	-	-	*	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-
Sesame	*	*	-	-	-	-	-	*	-
Sufflower	-	-	-	-	-	-	-	-	-
Other Grains	-	-	-	-	-	-	-	-	-
Vegetables	139	10	2	2	1	*	*	-	-
Head Cabbage	-	-	-	-	-	-	-	-	-
Green peppers	17	1	*	*	-	-	-	-	-
Ethiopian Cabbage	*	*	-	*	-	-	-	-	-
Lettuce	31	1	1	*	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-	-
Swiss chard	4	*	*	-	-	-	-	-	-
Tomatoes	95	8	1	*	1	*	*	-	-
Other vegetables	*	*	-	*	-	-	-	-	-
Root Crops	81	17	*	3	3	*	*	*	-
Beetroot	-	-	-	-	-	-	-	-	-
Carrot	*	*	-	*	-	-	-	-	-
Garlic	10	1	-	*	*	-	-	-	-
Taro/'Godere'	-	-	-	-	-	-	-	-	-
Onion	54	13	*	1	1	*	*	*	-
Potatoes	12	1	-	*	*	-	-	-	-
Sweet Potatoes	11	2	-	1	1	-	-	-	-
Other root	-	-	-	-	-	-	-	-	-
Permanent Crops	292	57	1	7	18	20	12	-	-
Fruit crops	89	15	1	1	2	10	*	-	-
Avocados	-	-	-	-	-	-	-	-	-
Bananas	26	2	*	-	*	*	*	-	-
Guavas	42	9	*	*	*	*	*	-	-
Lemons	15	1	*	*	*	-	*	-	-
Mangoes	30	2	*	*	*	-	*	-	-
Oranges	-	-	-	-	-	-	-	-	-
Papayas	18	1	-	*	*	*	*	-	-
Pinneapples	-	-	-	-	-	-	-	-	-
Other fruits	17	*	*	-	-	-	-	-	-
Stimulant crops	204	42	*	6	16	9	11	-	-
Chat	198	40	*	5	16	9	11	-	-
Coffee	13	2	-	1	*	-	-	-	-
Hops/'Gesho'	-	-	-	-	-	-	-	-	-
Other stimulants	-	-	-	-	-	-	-	-	-
Other permanent	9	1	-	-	-	1	-	-	-
Enset	4	1	-	-	-	1	-	-	-
Sugar Cane	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
Somali Region	86789	70090	299	8751	20129	26741	13288	881	-
Shinile	2929	1211	22	478	503	208	-	-	-
Shinile	816	234	12	122	68	*	-	-	-
Erer	2113	977	10	356	435	176	-	-	-
Jijiga	73955	64910	159	6988	18354	25659	12953	798	-
Jijiga	36743	31970	81	3185	9486	13443	5731	44	-
Teferi Ber	21227	18047	28	2308	5067	6723	3704	*	-
Kebri Beyah	15985	14894	49	1495	3800	5493	3518	538	-
Liben	9904	3969	119	1285	1272	875	335	*	-
Filtu	2223	1607	5	343	557	525	177	-	-
Dolo Odo	3759	1459	43	531	376	267	159	*	-
Moyale	3923	903	71	412	339	82	-	-	-

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
Somali Region	83503	68257	263	8393	19584	26199	13000	818	-
Shinile	2673	1140	17	453	469	202	-	-	-
Shinile	560	163	7	98	34	*	-	-	-
Erer	2113	977	10	356	435	176	-	-	-
Jijiga	71246	63361	132	6680	17867	25175	12752	755	-
Jijiga	35946	31486	77	3108	9313	13321	5668	-	-
Teferi Ber	20124	17291	27	2160	4815	6487	3585	*	-
Kebri Beyah	15176	14584	28	1413	3739	5367	3499	538	-
Liben	9584	3755	115	1260	1247	822	248	*	-
Filtu	2220	1606	5	342	557	525	177	-	-
Dolo Odo	3442	1245	39	506	351	214	*	*	-
Moyale	3923	903	71	412	339	82	-	-	-

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
Somali Region	3285	1834	36	358	546	543	288	64	-
Shinile	256	70	5	25	34	*	-	-	-
Shinile	256	70	5	25	34	*	-	-	-
Jijiga	2709	1549	27	308	486	483	201	44	-
Jijiga	796	484	4	77	173	122	63	44	-
Teferi Ber	1104	756	1	148	252	236	118	-	-
Kebri Beyah	809	310	22	83	61	125	*	-	-
Liben	320	214	4	25	25	53	87	*	-
Filtu	3	*	*	*	-	-	-	-	-
Dolo Odo	317	214	4	25	25	53	87	*	-

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
Somali Region	84271	61974	255	7574	17429	23718	12263	735	-
Shinile	2768	917	18	365	372	161	-	-	-
Shinile	813	230	12	119	67	*	-	-	-
Erer	1954	687	6	246	305	129	-	-	-
Jijiga	72358	57241	127	5954	15828	22747	11933	652	-
Jijiga	36250	27798	63	2518	7973	11838	5363	44	-
Teferi Ber	20800	17130	22	2121	4777	6450	3542	*	-
Kebri Beyah	15308	12313	41	1315	3078	4458	3028	*	-
Liben	9145	3817	110	1255	1229	810	330	*	-
Filtu	2223	1607	5	343	557	525	177	-	-
Dolo Odo	3315	1310	37	501	333	202	153	*	-
Moyale	3608	900	68	411	338	82	-	-	-

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
Somali Region	81074	60198	220	7223	16902	23195	11987	671	-
Shinile	2514	848	13	341	339	155	-	-	-
Shinile	560	161	7	95	34	*	-	-	-
Erer	1954	687	6	246	305	129	-	-	-
Jijiga	69734	55744	101	5652	15359	22281	11743	608	-
Jijiga	35535	27354	59	2445	7811	11731	5308	-	-
Teferi Ber	19697	16387	22	1975	4531	6217	3427	*	-
Kebri Beyah	14503	12004	20	1232	3017	4333	3009	*	-
Liben	8825	3605	106	1230	1204	759	243	*	-
Filtu	2220	1606	5	342	557	525	177	-	-
Dolo Odo	2997	1099	33	476	308	151	*	*	-
Moyale	3608	900	68	411	338	82	-	-	-

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
Somali Region	3197	1776	35	351	528	523	276	64	-
Shinile	253	69	5	24	33	*	-	-	-
Shinile	253	69	5	24	33	*	-	-	-
Jijiga	2624	1496	26	302	469	466	190	44	-
Jijiga	714	444	4	73	162	107	55	44	-
Teferi Ber	1104	743	1	147	247	233	115	-	-
Kebri Beyah	806	309	21	82	61	125	*	-	-
Liben	320	211	4	25	25	51	87	*	-
Filtu	3	*	*	*	-	-	-	-	-
Dolo Odo	317	211	4	25	25	51	87	*	-

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
Somali Region	83393	58725	,219	7014	16334	22742	11713	702	-
Shinile	2701	881	17	349	362	154	-	-	-
Shinile	810	229	12	118	67	*	-	-	-
Erer	1891	653	6	231	295	122	-	-	-
Jijiga	72140	54613	114	5630	14933	21837	11456	643	-
Jijiga	36064	26016	51	2321	7396	11162	5041	44	-
Teferi Ber	20773	16445	22	2006	4494	6273	3433	*	-
Kebri Beyah	15302	12153	41	1303	3043	4403	2981	*	-
Liben	8552	3231	87	1035	1039	752	258	*	-
Filtu	2204	1510	*	333	524	495	154	-	-
Dolo Odo	3169	1132	34	443	306	185	104	*	-
Moyale	3179	588	49	259	209	*	-	-	-

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
Somali Region	80265	57041	187	6673	15815	22239	11475	652	-
Shinile	2451	813	12	325	328	147	-	-	-
Shinile	560	160	7	94	34	*	-	-	-
Erer	1891	653	6	231	295	122	-	-	-
Jijiga	69566	53150	90	5334	14472	21384	11271	599	-
Jijiga	35391	25579	49	2251	7239	11055	4986	-	-
Teferi Ber	19673	15716	22	1862	4249	6046	3321	*	-
Kebri Beyah	14503	11855	20	1222	2984	4283	2963	*	-
Liben	8248	3078	84	1014	1014	707	204	*	-
Filtu	2201	1510	*	333	524	495	154	-	-
Dolo Odo	2868	980	31	422	282	141	*	*	-
Moyale	3179	588	49	259	209	*	-	-	-

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
Somali Region	3127	1684	32	341	519	504	238	50	-
Shinile	250	68	5	24	33	*	-	-	-
Shinile	250	68	5	24	33	*	-	-	-
Jijiga	2573	1463	24	296	462	453	185	44	-
Jijiga	673	437	2	71	158	107	55	44	-
Teferi Ber	1101	729	1	144	245	227	112	-	-
Kebri Beyah	800	297	21	81	59	119	*	-	-
Liben	304	153	3	21	25	44	53	*	-
Filtu	3	*	*	*	-	-	-	-	-
Dolo Odo	301	153	3	21	25	44	53	*	-

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
Somali Region	13476	1409	23	279	458	406	235	*	-
Shinile	*	*	-	*	-	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Erer	*	*	-	*	-	-	-	-	-
Jijiga	9541	911	*	85	284	348	186	*	-
Jijiga	7312	635	*	46	217	248	124	-	-
Teferi Ber	1314	170	-	*	38	55	*	-	-
Kebri Beyah	916	106	*	*	28	*	*	*	-
Liben	3924	497	23	194	174	57	49	-	-
Filtu	447	96	*	9	33	30	*	-	-
Dolo Odo	764	93	3	35	*	*	*	-	-
Moyale	2713	309	20	149	129	*	-	-	-

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
Somali Region	13239	1351	22	274	455	389	204	*	-
Shinile	*	*	-	*	-	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Erer	*	*	-	*	-	-	-	-	-
Jijiga	9386	890	*	83	281	337	181	*	-
Jijiga	7302	634	*	46	216	248	124	-	-
Teferi Ber	1228	158	-	*	37	48	*	-	-
Kebri Beyah	857	98	-	*	27	*	*	*	-
Liben	3841	461	22	191	174	52	*	-	-
Filtu	446	96	*	9	33	30	*	-	-
Dolo Odo	682	57	*	33	*	*	-	-	-
Moyale	2713	309	20	149	129	*	-	-	-

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
Somali Region	237	57	1	5	3	17	32	-	-
Shinile	-	-	-	-	-	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Jijiga	154	21	*	*	3	11	5	-	-
Jijiga	10	1	-	-	1	-	-	-	-
Teferi Ber	86	12	*	*	1	6	3	-	-
Kebri Beyah	*	*	*	*	*	*	*	-	-
Liben	83	36	*	3	*	6	*	-	-
Filtu	1	*	-	*	-	-	-	-	-
Dolo Odo	82	36	*	3	*	6	*	-	-

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
Somali Region	6497	502	*	62	136	163	134	*	-
Shinile	*	*	-	*	-	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Erer	*	*	-	*	-	-	-	-	-
Jijiga	6425	480	*	60	136	163	121	-	-
Jijiga	6109	467	*	58	127	162	120	-	-
Teferi Ber	316	*	-	*	*	*	*	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben	56	*	-	*	*	-	*	*	-
Filtu	*	*	-	-	*	-	*	-	-
Dolo Odo	34	*	-	*	-	-	*	*	-
Moyale	*	*	-	-	*	-	-	-	-

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
Somali Region	6482	493	*	62	134	163	134	-	-
Shinile	*	*	-	*	-	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Erer	*	*	-	*	-	-	-	-	-
Jijiga	6413	478	*	60	134	163	121	-	-
Jijiga	6097	465	*	58	126	162	120	-	-
Teferi Ber	316	*	-	*	*	*	*	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben	52	*	-	*	*	-	*	-	-
Filtu	*	*	-	-	*	-	*	-	-
Dolo Odo	*	*	-	*	-	-	*	-	-
Moyale	*	*	-	-	*	-	-	-	-

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
Somali Region	16	*	-	*	1	-	-	*	-
Shinile	-	-	-	-	-	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Jijiga	12	2	-	*	1	-	-	-	-
Jijiga	12	2	-	*	1	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben	*	*	-	-	-	-	-	*	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	-	-	-	-	-	*	-

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

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
Somali Region	2793	519	-	*	*	130	*	*	-
Shinile	*	*	-	*	*	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Erer	*	*	-	*	*	-	-	-	-
Jijiga	2779	519	-	*	*	130	*	*	-
Jijiga	*	*	-	-	*	*	*	-	-
Teferi Ber	2364	498	-	*	*	121	*	-	-
Kebri Beyah	*	*	-	-	-	-	-	*	-
Liben	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

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
Somali Region	2057	106	*	26	33	*	*	*	-
Shinile	390	13	*	7	5	*	-	-	-
Shinile	*	*	-	*	-	-	-	-	-
Erer	383	13	*	7	5	*	-	-	-
Jijiga	1414	64	*	7	22	*	*	-	-
Jijiga	1145	29	*	*	*	*	-	-	-
Teferi Ber	*	3	-	*	*	-	-	-	-
Kebri Beyah	212	*	*	-	*	*	*	-	-
Liben	254	28	*	12	*	*	*	*	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	234	25	*	8	*	*	*	*	-
Moyale	*	*	*	*	-	-	-	-	-

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
Somali Region	1918	97	*	25	31	*	*	*	-
Shinile	383	13	*	7	5	*	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Erer	383	13	*	7	5	*	-	-	-
Jijiga	1319	60	*	*	21	*	*	-	-
Jijiga	1096	28	*	*	*	*	-	-	-
Teferi Ber	*	*	-	*	*	-	-	-	-
Kebri Beyah	182	*	-	-	*	*	*	-	-
Liben	217	*	*	11	*	-	-	*	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	197	*	-	8	*	-	-	*	-
Moyale	*	*	*	*	-	-	-	-	-

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
Somali Region	139	10	2	2	1	*	*	-	-
Shinile	*	*	-	*	-	-	-	-	-
Shinile	*	*	-	*	-	-	-	-	-
Jijiga	95	4	1	1	*	*	*	-	-
Jijiga	49	1	1	-	*	-	-	-	-
Teferi Ber	15	1	-	1	*	-	-	-	-
Kebri Beyah	*	*	*	-	*	*	*	-	-
Liben	37	5	*	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	37	5	*	*	*	*	*	-	-

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
Somali Region	10456	714	*	110	227	266	93	*	-
Shinile	350	20	*	8	5	7	-	-	-
Shinile	*	*	-	*	-	-	-	-	-
Erer	336	19	*	7	5	7	-	-	-
Jijiga	9816	654	*	89	212	259	87	-	-
Jijiga	9576	632	*	88	207	256	*	-	-
Teferi Ber	109	2	-	1	*	*	*	-	-
Kebri Beyah	131	*	-	-	*	*	*	-	-
Liben	290	40	*	*	*	-	*	*	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	286	40	*	*	*	-	*	*	-
Moyale	*	*	*	-	-	-	-	-	-

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
Somali Region	10375	697	*	106	225	265	90	*	-
Shinile	343	20	*	7	5	7	-	-	-
Shinile	*	*	-	*	-	-	-	-	-
Erer	336	19	*	7	5	7	-	-	-
Jijiga	9771	648	*	86	210	258	86	-	-
Jijiga	9552	628	*	86	206	256	*	-	-
Teferi Ber	*	*	-	*	-	*	*	-	-
Kebri Beyah	119	*	-	-	*	*	*	-	-
Liben	*	*	*	*	*	-	*	*	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	-	*	*	-	*	*	-
Moyale	*	*	*	-	-	-	-	-	-

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
Somali Region	81	17	*	3	3	*	*	*	-
Shinile	*	*	-	*	-	-	-	-	-
Shinile	*	*	-	*	-	-	-	-	-
Jijiga	44	6	-	2	3	*	*	-	-
Jijiga	24	3	-	2	2	-	-	-	-
Teferi Ber	9	1	-	1	*	-	-	-	-
Kebri Beyah	*	*	-	-	*	*	*	-	-
Liben	30	*	*	*	-	-	*	*	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	30	*	*	*	-	-	*	*	-

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
Somali Region	36009	8116	44	1177	2700	3024	1025	*	-
Shinile	1399	294	4	112	131	47	-	-	-
Shinile	*	*	-	*	*	-	-	-	-
Erer	1365	290	4	109	130	47	-	-	-
Jijiga	32331	7670	32	1034	2525	2912	1019	*	-
Jijiga	22480	4172	18	667	1513	1605	368	-	-
Teferi Ber	4422	917	*	187	290	273	162	-	-
Kebri Beyah	5430	2581	8	181	722	1034	490	*	-
Liben	2279	*	8	*	*	*	*	*	-
Filtu	*	*	-	-	*	*	-	-	-
Dolo Odo	1261	*	*	*	*	*	*	*	-
Moyale	1011	3	*	*	*	*	-	-	-

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
Somali Region	35717	8059	43	1170	2682	3004	1013	*	-
Shinile	1393	293	4	112	130	47	-	-	-
Shinile	*	*	-	*	-	-	-	-	-
Erer	1365	290	4	109	130	47	-	-	-
Jijiga	32072	7617	31	1028	2508	2894	1008	*	-
Jijiga	22279	4132	18	662	1502	1590	360	-	-
Teferi Ber	4370	904	*	185	285	270	159	-	-
Kebri Beyah	5423	2580	8	180	722	1034	490	*	-
Liben	2253	*	8	*	*	*	*	*	-
Filtu	*	*	-	-	*	*	-	-	-
Dolo Odo	1235	*	*	*	*	*	*	*	-
Moyale	1011	3	*	*	*	*	-	-	-

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
Somali Region	292	57	1	7	18	20	12	-	-
Shinile	*	*	-	*	*	-	-	-	-
Shinile	*	*	-	*	*	-	-	-	-
Jijiga	259	53	1	6	17	18	11	-	-
Jijiga	201	39	1	5	11	15	8	-	-
Teferi Ber	52	13	-	1	6	3	3	-	-
Kebri Beyah	*	*	*	*	-	-	-	-	-
Liben	26	3	*	*	-	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	26	3	*	*	-	*	*	-	-

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
Somali Region	4659	438	12	119	138	117	*	*	-
Shinile	1193	208	3	80	91	34	-	-	-
Shinile	*	*	-	*	*	-	-	-	-
Erer	1159	204	3	77	90	34	-	-	-
Jijiga	1203	*	1	10	3	18	*	-	-
Jijiga	1051	31	1	9	*	18	*	-	-
Teferi Ber	*	*	-	1	*	-	*	-	-
Kebri Beyah	*	*	*	-	-	-	*	-	-
Liben	2263	*	8	*	*	*	*	*	-
Filtu	*	*	-	-	*	*	-	-	-
Dolo Odo	1245	*	*	*	*	*	*	*	-
Moyale	1011	3	*	*	*	*	-	-	-

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
Somali Region	4569	423	11	118	136	*	*	*	-
Shinile	1186	206	3	79	90	34	-	-	-
Shinile	*	*	-	*	-	-	-	-	-
Erer	1159	204	3	77	90	34	-	-	-
Jijiga	1146	*	-	9	*	*	*	-	-
Jijiga	1003	22	-	9	*	*	*	-	-
Teferi Ber	*	*	-	*	*	-	*	-	-
Kebri Beyah	*	*	-	-	-	-	*	-	-
Liben	2237	*	8	*	*	*	*	*	-
Filtu	*	*	-	-	*	*	-	-	-
Dolo Odo	1219	*	*	*	*	*	*	*	-
Moyale	1011	3	*	*	*	*	-	-	-

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
Somali Region	89	15	1	1	2	10	*	-	-
Shinile	*	*	-	*	*	-	-	-	-
Shinile	*	*	-	*	*	-	-	-	-
Jijiga	57	10	1	1	1	*	-	-	-
Jijiga	49	9	1	-	*	*	-	-	-
Teferi Ber	5	1	-	1	*	-	-	-	-
Kebri Beyah	*	*	*	-	-	-	-	-	-
Liben	26	3	*	*	-	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	26	3	*	*	-	*	*	-	-

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
Somali Region	32946	7665	32	1057	2560	2897	973	*	-
Shinile	831	85	*	32	40	12	-	-	-
Shinile	*	*	-	*	-	-	-	-	-
Erer	817	84	*	32	40	12	-	-	-
Jijiga	32108	7580	31	1025	2521	2885	973	*	-
Jijiga	22350	4131	18	658	1510	1578	367	-	-
Teferi Ber	4357	910	*	186	289	273	158	-	-
Kebri Beyah	5401	2539	8	181	722	1034	448	*	-
Liben	*	*	*	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	*	*	*	-	-	-	-	-	-

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
Somali Region	32742	7624	32	1051	2544	2888	962	*	-
Shinile	831	85	*	32	40	12	-	-	-
Shinile	*	*	-	*	-	-	-	-	-
Erer	817	84	*	32	40	12	-	-	-
Jijiga	31904	7539	31	1019	2505	2876	962	*	-
Jijiga	22196	4102	18	654	1499	1572	359	-	-
Teferi Ber	4310	898	*	185	284	270	155	-	-
Kebri Beyah	5398	2539	8	180	722	1034	448	*	-
Liben	*	*	*	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	*	*	*	-	-	-	-	-	-

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
Somali Region	204	42	*	6	16	9	11	-	-
Shinile	-	-	-	-	-	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Jijiga	204	42	*	6	16	9	11	-	-
Jijiga	154	29	*	5	11	6	8	-	-
Teferi Ber	47	12	-	1	5	3	3	-	-
Kebri Beyah	*	*	-	*	-	-	-	-	-
Liben	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-

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
Somali Region	32371	7636	29	1038	2554	2896	973	*	-
Shinile	762	81	*	32	37	12	-	-	-
Shinile	*	*	-	*	-	-	-	-	-
Erer	748	80	*	31	37	12	-	-	-
Jijiga	31602	7555	28	1006	2517	2885	973	*	-
Jijiga	21868	4108	15	641	1507	1578	367	-	-
Teferi Ber	4333	908	*	184	289	273	158	-	-
Kebri Beyah	5401	2539	8	181	722	1034	448	*	-
Liben	*	*	*	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	*	*	*	-	-	-	-	-	-

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
Somali Region	32173	7596	29	1033	2538	2888	962	*	-
Shinile	762	81	*	32	37	12	-	-	-
Shinile	*	*	-	*	-	-	-	-	-
Erer	748	80	*	31	37	12	-	-	-
Jijiga	31404	7516	28	1001	2502	2876	962	*	-
Jijiga	21720	4080	15	638	1496	1572	359	-	-
Teferi Ber	4286	897	*	183	284	270	155	-	-
Kebri Beyah	5398	2539	8	180	722	1034	448	*	-
Liben	*	*	*	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	*	*	*	-	-	-	-	-	-

TABLE 4.34.2 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
Somali Region	198	40	*	5	16	9	11	-	-
Shinile	-	-	-	-	-	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Jijiga	198	40	*	5	16	9	11	-	-
Jijiga	148	28	*	3	11	6	8	-	-
Teferi Ber	47	12	-	1	5	3	3	-	-
Kebri Beyah	*	*	-	*	-	-	-	-	-
Liben	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-

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
Somali Region	*	*	*	*	6	*	-	-	-
Shinile	121	4	-	1	3	*	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Erer	121	4	-	1	3	*	-	-	-
Jijiga	*	*	*	*	*	-	-	-	-
Jijiga	*	*	*	*	*	-	-	-	-
Teferi Ber	*	*	-	*	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

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
Somali Region	*	*	*	*	6	*	-	-	-
Shinile	121	4	-	1	3	*	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Erer	121	4	-	1	3	*	-	-	-
Jijiga	*	*	*	*	*	-	-	-	-
Jijiga	*	*	*	*	*	-	-	-	-
Teferi Ber	*	*	-	*	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

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
Somali Region	13	2	-	1	*	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Jijiga	13	2	-	1	*	-	-	-	-
Jijiga	13	2	-	1	*	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-

TABLE 4.36. 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
Somali Region	281	*	*	1	*	*	*	-	-
Shinile	67	2	-	*	*	*	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Erer	67	2	-	*	*	*	-	-	-
Jijiga	143	*	*	-	*	*	*	-	-
Jijiga	*	*	-	-	*	*	-	-	-
Teferi Ber	*	*	*	-	*	-	*	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben	71	*	*	*	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-	-	-
Moyale	*	*	*	-	-	-	-	-	-

TABLE 4.36.1 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
Somali Region	271	*	*	1	*	*	*	-	-
Shinile	67	2	-	*	*	*	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Erer	67	2	-	*	*	*	-	-	-
Jijiga	133	*	*	-	*	*	*	-	-
Jijiga	*	*	-	-	*	*	-	-	-
Teferi Ber	*	*	*	-	*	-	*	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben	71	*	*	*	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-	-	-
Moyale	*	*	*	-	-	-	-	-	-

TABLE 4.36.2 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
Somali Region	9	1	-	-	-	1	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Jijiga	9	1	-	-	-	1	-	-	-
Jijiga	9	1	-	-	-	1	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-

TABLE 4.37. NUMBER OF HOLDERS AND AREA OF HOLDING UNDER ENSET BY GEOGRAPHIC AREA AND SIZE OF HOLDING

URBAN HOLDINGS

Geographic Area	Holdings With Enset								
	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
Somali Region	4	1	-	-	-	1	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Jijiga	4	1	-	-	-	1	-	-	-
Jijiga	4	1	-	-	-	1	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-

TABLE 4.38. 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								
	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
Somali Region	117	1	*	*	*	*	-	-	-
Shinile	41	*	-	*	*	*	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Erer	41	1	-	*	*	*	-	-	-
Jijiga	5	-	-	-	-	-	-	-	-
Jijiga	5	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben	71	*	*	*	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-	-	-
Moyale	*	*	*	-	-	-	-	-	-

TABLE 4.38.1 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
Somali Region	112	1	*	*	*	*	-	-	-
Shinile	41	1	-	*	*	*	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Erer	41	1	-	*	*	*	-	-	-
Jijiga	-	-	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben	71	*	*	*	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-	-	-
Moyale	*	*	*	-	-	-	-	-	-

TABLE 4.38.2 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
Somali Region	5	-	-	-	-	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Jijiga	5	-	-	-	-	-	-	-	-
Jijiga	5	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-

TABLE 4.39. 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
Somali Region	146	*	*	*	*	*	*	-	-
Shinile	*	*	-	*	-	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Erer	*	*	-	*	-	-	-	-	-
Jijiga	133	*	*	-	*	*	*	-	-
Jijiga	*	*	-	-	*	*	-	-	-
Teferi Ber	*	*	*	-	*	-	*	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 4.40 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	104839	104257	1307	5081
Land Under Temporary Crops	84271	82660	881	2289
Land under Permanent Crops	36009	35676	122	338
Grazing Land	20997	20808	*	185
Fallow Land	26917	26483	*	455
Woodland	364	364	-	-
All Other Land	100990	100032	*	3080
Holdings Under 0.10 Hectares Sizes				
All	12369	12029	130	707
Land Under Temporary Crops	2542	2341	102	*
Land under Permanent Crops	1033	1033	-	-
Grazing Land	*	*	-	-
Fallow Land	672	653	*	*
Woodland	*	*	-	-
All Other Land	11566	11248	*	668
Holdings Of 0.10-0.50 Hectares Sizes				
All	27158	26987	377	1307
Land Under Temporary Crops	22663	21931	226	778
Land under Permanent Crops	9012	8876	*	*
Grazing Land	2498	2473	-	*
Fallow Land	5666	5531	*	*
Woodland	*	*	-	-
All Other Land	25695	25313	*	726
Holdings Of 0.51-1.00 Hectares Sizes				
All	30358	30327	445	1253
Land Under Temporary Crops	27034	26614	234	601
Land under Permanent Crops	11820	11693	*	140
Grazing Land	5312	5247	*	*
Fallow Land	7920	7741	*	174
Woodland	65	65	-	-
All Other Land	29316	29188	*	614
Holdings Of 1.01-2.00 Hectares Sizes				
All	24364	24347	278	1081
Land Under Temporary Crops	22392	22195	251	325
Land under Permanent Crops	9903	9836	50	*
Grazing Land	7606	7526	-	79
Fallow Land	7823	7735	*	137
Woodland	*	*	-	-
All Other Land	23942	23853	-	741
Holdings Of 2.01-5.00 Hectares Sizes				
All	9717	9695	76	*
Land Under Temporary Crops	8917	8857	*	*
Land under Permanent Crops	3902	3899	*	-
Grazing Land	4806	4787	-	*
Fallow Land	4297	4284	-	*
Woodland	*	*	-	-
All Other Land	9610	9591	*	*
Holdings Of 5.01-10.00 Hectares				
All	847	847	-	*
Land Under Temporary Crops	697	697	-	-
Land under Permanent Crops	*	*	-	-
Grazing Land	552	552	-	-
Fallow Land	514	514	-	-
Woodland	*	*	-	-
All Other Land	836	813	-	*
Holdings Over 10.00 Hectares				
All	*	*	-	-
Land Under Temporary Crops	*	*	-	-
Land under Permanent Crops	-	-	-	-
Grazing Land	*	*	-	-
Fallow Land	*	*	-	-
Woodland	-	-	-	-
All Other Land	*	*	-	-

TABLE 4.40.1 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	101554	101120	1158	5054
Land Under Temporary Crops	81074	79614	740	2263
Land under Permanent Crops	35717	35392	*	338
Grazing Land	20997	20808	*	185
Fallow Land	26917	26483	*	455
Woodland	364	364	-	-
All Other Land	100990	100032	*	3080
Holdings Under 0.10 Hectares Sizes				
All	11621	11333	78	707
Land Under Temporary Crops	1860	1710	*	*
Land under Permanent Crops	944	944	-	-
Grazing Land	*	*	-	-
Fallow Land	672	653	*	*
Woodland	*	*	-	-
All Other Land	11566	11248	*	668
Holdings Of 0.10-0.50 Hectares Sizes				
All	25930	25804	339	1296
Land Under Temporary Crops	21450	20762	188	767
Land under Permanent Crops	8971	8835	*	*
Grazing Land	2498	2473	-	*
Fallow Land	5666	5531	*	*
Woodland	*	*	-	-
All Other Land	25695	25313	*	726
Holdings Of 0.51-1.00 Hectares Sizes				
All	29579	29579	423	1239
Land Under Temporary Crops	26259	25870	212	587
Land under Permanent Crops	11742	11615	*	140
Grazing Land	5312	5247	*	*
Fallow Land	7920	7741	*	174
Woodland	65	65	-	-
All Other Land	29316	29188	*	614
Holdings Of 1.01-2.00 Hectares Sizes				
All	23951	23951	248	1079
Land Under Temporary Crops	21984	21807	225	323
Land under Permanent Crops	9851	9788	*	*
Grazing Land	7606	7526	-	79
Fallow Land	7823	7735	*	137
Woodland	*	*	-	-
All Other Land	23942	23853	-	741
Holdings Of 2.01-5.00 Hectares Sizes				
All	9610	9591	*	*
Land Under Temporary Crops	8810	8753	*	*
Land under Permanent Crops	3869	3869	-	-
Grazing Land	4806	4787	-	*
Fallow Land	4297	4284	-	*
Woodland	*	*	-	-
All Other Land	9610	9591	*	*
Holdings Of 5.01-10.00 Hectares				
All	836	836	-	*
Land Under Temporary Crops	686	686	-	-
Land under Permanent Crops	*	*	-	-
Grazing Land	552	552	-	-
Fallow Land	514	514	-	-
Woodland	*	*	-	-
All Other Land	836	813	-	*
Holdings Over 10.00 Hectares				
All	*	*	-	-
Land Under Temporary Crops	*	*	-	-
Land under Permanent Crops	-	-	-	-
Grazing Land	*	*	-	-
Fallow Land	*	*	-	-
Woodland	-	-	-	-
All Other Land	*	*	-	-

TABLE 4.40.2 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	3285	3137	149	27
Land Under Temporary Crops	3197	3045	141	27
Land under Permanent Crops	292	284	8	-
Holdings Under 0.10 Hectares Sizes				
All	748	696	52	-
Land Under Temporary Crops	683	630	52	-
Land under Permanent Crops	89	89	-	-
Holdings Of 0.10-0.50 Hectares Sizes				
All	1227	1183	38	11
Land Under Temporary Crops	1213	1169	38	11
Land under Permanent Crops	41	41	-	-
Holdings Of 0.51-1.00 Hectares Sizes				
All	779	747	22	14
Land Under Temporary Crops	775	743	22	14
Land under Permanent Crops	78	78	-	-
Holdings Of 1.01-2.00 Hectares Sizes				
All	412	396	30	*
Land Under Temporary Crops	408	388	26	*
Land under Permanent Crops	52	47	5	-
Holdings Of 2.01-5.00 Hectares Sizes				
All	107	104	*	-
Land Under Temporary Crops	107	104	*	-
Land under Permanent Crops	33	30	*	-
Holdings Of 5.01-10.00 Hectares				
All	11	11	-	-
Land Under Temporary Crops	11	11	-	-
Land under Permanent Crops	-	-	-	-
Holdings Over 10.00 Hectares				
All	-	-	-	-
Land Under Temporary Crops	-	-	-	-
Land under Permanent Crops	-	-	-	-

TABLE 4.41 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
Somali Region	104257	12029	26987	30327	24347	9695	847	*
Shinile	4998	2308	1606	736	350	-	-	-
Shinile	2170	1494	468	131	77	-	-	-
Erer	2828	814	1137	605	273	-	-	-
Jijiga	76413	3105	19074	24488	20848	8216	657	*
Jijiga	37302	1380	9090	12266	10292	4006	*	-
Teferi Ber	21902	763	6307	7247	5282	2125	178	-
Kebri Beyah	17209	961	3678	4975	5274	2086	211	*
Liben	22845	6617	6307	5103	3150	1479	190	-
Filtu	6186	2164	1545	1462	886	129	-	-
Dolo Odo	8306	2706	2740	1594	825	357	84	-
Moyale	8353	1746	2021	2048	1439	993	106	-

TABLE 4.41.1 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
Somali Region	101120	11333	25804	29579	23951	9591	836	*
Shinile	4750	2209	1509	688	344	-	-	-
Shinile	1921	1395	372	84	71	-	-	-
Erer	2828	814	1137	605	273	-	-	-
Jijiga	73768	2576	18066	23819	20496	8137	649	*
Jijiga	36548	1227	8837	12031	10207	3985	*	-
Teferi Ber	20820	713	5858	6893	5101	2076	178	-
Kebri Beyah	16401	635	3370	4895	5188	2076	211	*
Liben	22602	6549	6229	5072	3112	1454	187	-
Filtu	6183	2162	1544	1462	886	129	-	-
Dolo Odo	8066	2641	2663	1562	787	332	80	-
Moyale	8353	1746	2021	2048	1439	993	106	-

TABLE 4.41.2 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
Somali Region	3137	696	1183	747	396	104	11	-
Shinile	249	99	97	47	*	-	-	-
Shinile	249	99	97	47	*	-	-	-
Jijiga	2645	530	1008	669	352	79	7	-
Jijiga	754	153	253	235	85	21	7	-
Teferi Ber	1082	50	448	354	181	49	-	-
Kebri Beyah	809	326	307	80	86	*	-	-
Liben	244	68	78	31	38	25	*	-
Filtu	3	2	1	-	-	-	-	-
Dolo Odo	241	66	77	31	38	25	*	-

TABLE 4.42 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
Somali Region	1307	130	377	445	278	76	-	-
Shinile	76	16	*	*	*	-	-	-
Shinile	*	*	-	*	-	-	-	-
Erer	67	*	*	*	*	-	-	-
Jijiga	855	9	*	333	255	*	-	-
Jijiga	512	4	*	*	*	-	-	-
Teferi Ber	178	*	*	*	*	*	-	-
Kebri Beyah	165	-	*	*	*	*	-	-
Liben	376	105	139	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	300	69	128	*	*	*	-	-
Moyale	75	*	*	*	-	*	-	-

TABLE 4.42.1 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
Somali Region	1158	78	339	423	248	*	-	-
Shinile	74	*	*	*	*	-	-	-
Shinile	*	-	-	*	-	-	-	-
Erer	67	*	*	*	*	-	-	-
Jijiga	779	-	*	314	225	*	-	-
Jijiga	464	-	*	*	*	-	-	-
Teferi Ber	150	-	*	*	*	*	-	-
Kebri Beyah	165	-	*	*	*	*	-	-
Liben	306	65	119	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	230	*	108	*	*	*	-	-
Moyale	75	*	*	*	-	*	-	-

TABLE 4.42.2 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
Somali Region	149	52	38	22	30	*	-	-
Shinile	*	*	-	-	-	-	-	-
Shinile	*	*	-	-	-	-	-	-
Jijiga	76	9	18	19	30	-	-	-
Jijiga	49	4	16	*	20	-	-	-
Teferi Ber	28	*	2	11	10	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben	70	41	20	*	-	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	70	41	20	*	-	*	-	-

TABLE 4.43 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
Somali Region	5081	707	1307	1253	1081	*	*	-
Shinile	221	45	74	90	*	-	-	-
Shinile	101	*	*	*	*	-	-	-
Erer	121	34	*	61	-	-	-	-
Jijiga	2192	*	421	517	592	*	*	-
Jijiga	1753	*	*	377	*	*	-	-
Teferi Ber	256	-	*	84	*	*	-	-
Kebri Beyah	183	*	*	*	*	-	*	-
Liben	2668	574	812	646	476	155	*	-
Filtu	33	*	-	*	*	*	-	-
Dolo Odo	1064	128	*	276	158	*	-	-
Moyale	1570	437	330	358	311	129	*	-

TABLE 4.43.1 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
Somali Region	5054	707	1296	1239	1079	*	*	-
Shinile	216	45	72	87	*	-	-	-
Shinile	95	*	*	*	*	-	-	-
Erer	121	34	*	61	-	-	-	-
Jijiga	2180	*	419	510	590	*	*	-
Jijiga	1747	*	*	371	*	*	-	-
Teferi Ber	250	-	*	82	*	*	-	-
Kebri Beyah	183	*	*	*	*	-	*	-
Liben	2658	574	805	642	476	155	*	-
Filtu	33	*	-	*	*	*	-	-
Dolo Odo	1055	128	*	272	158	*	-	-
Moyale	1570	437	330	358	311	129	*	-

TABLE 4.43.2 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
Somali Region	27	-	11	14	*	-	-	-
Shinile	*	-	*	*	-	-	-	-
Shinile	*	-	*	*	-	-	-	-
Jijiga	12	-	*	8	*	-	-	-
Jijiga	6	-	-	6	-	-	-	-
Teferi Ber	6	-	*	2	*	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben	*	-	*	*	-	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	-	*	*	-	-	-	-

TABLE 4.44 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	97834	96106	330	1397
Land Under Temporary Crops	61974	60687	289	998
Land under Permanent Crops	8116	8031	11	74
Grazing Land	12317	12230	*	86
Fallow Land	13413	13176	*	210
Woodland	*	*	-	-
All Other Land	1910	1879	2	29
Holdings Under 0.10 Hectares Sizes				
All	335	314	5	16
Land Under Temporary Crops	122	111	4	*
Land under Permanent Crops	22	22	-	-
Grazing Land	*	*	-	-
Fallow Land	28	28	*	*
Woodland	*	*	-	-
All Other Land	157	148	*	8
Holdings Of 0.10-0.50 Hectares Sizes				
All	8423	8183	43	197
Land Under Temporary Crops	5599	5414	32	153
Land under Permanent Crops	945	931	*	*
Grazing Land	409	406	-	*
Fallow Land	1116	1084	*	*
Woodland	*	*	-	-
All Other Land	354	347	*	6
Holdings Of 0.51-1.00 Hectares Sizes				
All	22123	21720	108	296
Land Under Temporary Crops	15102	14824	82	196
Land under Permanent Crops	2293	2260	*	*
Grazing Land	1407	1380	*	*
Fallow Land	2745	2685	*	42
Woodland	*	*	-	-
All Other Land	568	562	*	6
Holdings Of 1.01-2.00 Hectares Sizes				
All	34295	33838	126	330
Land Under Temporary Crops	23089	22806	121	161
Land under Permanent Crops	3126	3087	4	*
Grazing Land	3184	3150	-	*
Fallow Land	4289	4194	*	94
Woodland	*	*	-	-
All Other Land	583	577	-	6
Holdings Of 2.01-5.00 Hectares Sizes				
All	27277	26671	*	*
Land Under Temporary Crops	16256	15725	*	*
Land under Permanent Crops	1503	1503	-	-
Grazing Land	5365	5341	-	*
Fallow Land	3867	3817	-	*
Woodland	*	*	-	-
All Other Land	227	224	*	3
Holdings Of 5.01-10.00 Hectares				
All	5063	5063	-	*
Land Under Temporary Crops	1707	1707	-	-
Land under Permanent Crops	227	227	-	-
Grazing Land	1883	1883	-	-
Fallow Land	1216	1216	-	-
Woodland	*	*	-	-
All Other Land	21	20	-	*
Holdings Over 10.00 Hectares				
All	*	*	-	-
Land Under Temporary Crops	*	*	-	-
Land under Permanent Crops	-	-	-	-
Grazing Land	*	*	-	-
Fallow Land	*	*	-	-
Woodland	-	-	-	-
All Other Land	*	*	-	-

TABLE 4.44.1 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	96000	94340	275	1385
Land Under Temporary Crops	60198	58978	234	986
Land under Permanent Crops	8059	7975	*	74
Grazing Land	12317	12230	*	86
Fallow Land	13413	13176	*	210
Woodland	*	*	-	-
All Other Land	1910	1879	2	29
Holdings Under 0.10 Hectares Sizes				
All	299	281	3	16
Land Under Temporary Crops	88	79	*	*
Land under Permanent Crops	21	21	-	-
Grazing Land	*	*	-	-
Fallow Land	28	28	*	*
Woodland	*	*	-	-
All Other Land	157	148	*	8
Holdings Of 0.10-0.50 Hectares Sizes				
All	8065	7836	34	195
Land Under Temporary Crops	5248	5074	24	150
Land under Permanent Crops	938	925	*	*
Grazing Land	409	406	-	*
Fallow Land	1116	1084	*	*
Woodland	*	*	-	-
All Other Land	354	347	*	6
Holdings Of 0.51-1.00 Hectares Sizes				
All	21578	21195	94	289
Land Under Temporary Crops	14575	14318	68	188
Land under Permanent Crops	2275	2242	*	*
Grazing Land	1407	1380	*	*
Fallow Land	2745	2685	*	42
Woodland	*	*	-	-
All Other Land	568	562	*	6
Holdings Of 1.01-2.00 Hectares Sizes				
All	33752	33321	102	328
Land Under Temporary Crops	22566	22309	*	159
Land under Permanent Crops	3107	3068	*	*
Grazing Land	3184	3150	-	*
Fallow Land	4289	4194	*	94
Woodland	*	*	-	-
All Other Land	583	577	-	6
Holdings Of 2.01-5.00 Hectares Sizes				
All	26989	26390	*	*
Land Under Temporary Crops	15979	15456	*	*
Land under Permanent Crops	1491	1491	-	-
Grazing Land	5365	5341	-	*
Fallow Land	3867	3817	-	*
Woodland	*	*	-	-
All Other Land	227	224	*	3
Holdings Of 5.01-10.00 Hectares				
All	4999	4999	-	*
Land Under Temporary Crops	1643	1643	-	-
Land under Permanent Crops	227	227	-	-
Grazing Land	1883	1883	-	-
Fallow Land	1216	1216	-	-
Woodland	*	*	-	-
All Other Land	21	20	-	*
Holdings Over 10.00 Hectares				
All	*	*	-	-
Land Under Temporary Crops	*	*	-	-
Land under Permanent Crops	-	-	-	-
Grazing Land	*	*	-	-
Fallow Land	*	*	-	-
Woodland	-	-	-	-
All Other Land	*	*	-	-

TABLE 4.44.2 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	1834	1766	55	12
Land Under Temporary Crops	1776	1710	55	12
Land under Permanent Crops	57	57	1	-
Holdings Under 0.10 Hectares Sizes				
All	36	33	2	-
Land Under Temporary Crops	35	32	2	-
Land under Permanent Crops	1	1	-	-
Holdings Of 0.10-0.50 Hectares Sizes				
All	358	347	8	2
Land Under Temporary Crops	351	340	8	2
Land under Permanent Crops	7	7	-	-
Holdings Of 0.51-1.00 Hectares Sizes				
All	546	525	14	8
Land Under Temporary Crops	528	506	14	8
Land under Permanent Crops	18	18	-	-
Holdings Of 1.01-2.00 Hectares Sizes				
All	543	517	24	*
Land Under Temporary Crops	523	498	23	*
Land under Permanent Crops	20	19	1	-
Holdings Of 2.01-5.00 Hectares Sizes				
All	288	281	*	-
Land Under Temporary Crops	276	269	*	-
Land under Permanent Crops	12	12	*	-
Holdings Of 5.01-10.00 Hectares				
All	64	64	-	-
Land Under Temporary Crops	64	64	-	-
Land under Permanent Crops	-	-	-	-
Holdings Over 10.00 Hectares				
All	-	-	-	-
Land Under Temporary Crops	-	-	-	-
Land under Permanent Crops	-	-	-	-

TABLE 4.45. 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
Somali Region	96106	314	8183	21720	33838	26671	5063	*
Shinile	1414	44	457	478	435	-	-	-
Shinile	310	26	116	71	98	-	-	-
Erer	1104	19	341	407	337	-	-	-
Jijiga	79965	121	5910	17833	29219	22767	3797	*
Jijiga	38762	70	2682	8938	14523	11042	*	-
Teferi Ber	21500	19	1993	5285	7299	5887	1016	-
Kebri Beyah	19703	32	1235	3610	7396	5838	1274	*
Liben	14727	148	1816	3408	4185	3903	1266	-
Filtu	3087	40	540	1039	1167	301	-	-
Dolo Odo	4263	49	671	950	1036	1024	533	-
Moyale	7377	60	605	1419	1981	2579	733	-

TABLE 4.45.1 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
Somali Region	94340	281	7836	21195	33321	26390	4999	*
Shinile	1346	39	433	446	428	-	-	-
Shinile	243	21	92	39	91	-	-	-
Erer	1104	19	341	407	337	-	-	-
Jijiga	78462	95	5606	17362	28761	22566	3753	*
Jijiga	38311	66	2607	8772	14422	10979	*	-
Teferi Ber	20758	18	1846	5040	7068	5769	1016	-
Kebri Beyah	19393	11	1153	3549	7271	5818	1274	*
Liben	14532	146	1797	3387	4132	3823	1246	-
Filtu	3086	40	540	1039	1167	301	-	-
Dolo Odo	4069	47	653	929	984	944	513	-
Moyale	7377	60	605	1419	1981	2579	733	-

TABLE 4.45.2 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
Somali Region	1766	33	347	525	517	281	64	-
Shinile	68	5	24	33	*	-	-	-
Shinile	68	5	24	33	*	-	-	-
Jijiga	1504	26	304	471	458	201	44	-
Jijiga	452	4	75	165	101	63	44	-
Teferi Ber	742	1	147	245	231	118	-	-
Kebri Beyah	310	22	83	61	125	*	-	-
Liben	195	2	19	*	53	80	*	-
Filtu	*	*	*	-	-	-	-	-
Dolo Odo	194	2	19	*	53	80	*	-

TABLE 4.46. 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
Somali Region	330	5	43	108	126	*	-	-
Shinile	11	*	*	*	*	-	-	-
Shinile	*	*	-	*	-	-	-	-
Erer	*	*	*	*	*	-	-	-
Jijiga	248	*	*	73	125	*	-	-
Jijiga	69	*	*	*	47	-	-	-
Teferi Ber	64	-	*	12	*	*	-	-
Kebri Beyah	*	-	*	*	*	*	-	-
Liben	72	4	25	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	70	4	25	*	*	*	-	-
Moyale	*	*	*	*	-	*	-	-

TABLE 4.46.1 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
Somali Region	275	3	34	94	102	*	-	-
Shinile	10	*	*	*	*	-	-	-
Shinile	*	-	-	*	-	-	-	-
Erer	*	*	*	*	*	-	-	-
Jijiga	208	-	*	61	101	*	-	-
Jijiga	40	-	*	*	*	-	-	-
Teferi Ber	*	-	*	*	*	*	-	-
Kebri Beyah	*	-	*	*	*	*	-	-
Liben	56	*	20	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	54	*	19	*	*	*	-	-
Moyale	*	*	*	*	-	*	-	-

TABLE 4.46.2 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
Somali Region	55	2	8	14	24	*	-	-
Shinile	*	*	-	-	-	-	-	-
Shinile	*	*	-	-	-	-	-	-
Jijiga	39	*	3	12	24	-	-	-
Jijiga	29	*	3	5	21	-	-	-
Teferi Ber	11	*	1	7	3	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben	*	*	5	*	-	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	*	5	*	-	*	-	-

TABLE 4.47. 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
Somali Region	1397	16	197	296	330	*	*	-
Shinile	78	*	16	43	*	-	-	-
Shinile	*	*	*	*	*	-	-	-
Erer	29	*	*	25	-	-	-	-
Jijiga	*	*	*	88	142	*	*	-
Jijiga	*	*	*	51	*	*	-	-
Teferi Ber	*	-	*	*	*	*	-	-
Kebri Beyah	*	*	*	*	*	-	*	-
Liben	630	10	*	166	171	164	*	-
Filtu	*	*	-	*	*	*	-	-
Dolo Odo	*	*	*	*	*	*	-	-
Moyale	239	7	10	*	*	*	*	-

TABLE 4.47.1 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
Somali Region	1385	16	195	289	328	*	*	-
Shinile	75	*	15	41	*	-	-	-
Shinile	*	*	*	*	*	-	-	-
Erer	29	*	*	25	-	-	-	-
Jijiga	*	*	*	84	139	*	*	-
Jijiga	*	*	*	48	*	*	-	-
Teferi Ber	*	-	*	*	*	*	-	-
Kebri Beyah	*	*	*	*	*	-	*	-
Liben	626	10	*	163	171	164	*	-
Filtu	*	*	-	*	*	*	-	-
Dolo Odo	*	*	*	*	*	*	-	-
Moyale	239	7	10	*	*	*	*	-

TABLE 4.47.2 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
Somali Region	12	-	2	8	*	-	-	-
Shinile	*	-	*	*	-	-	-	-
Shinile	*	-	*	*	-	-	-	-
Jijiga	6	-	*	3	*	-	-	-
Jijiga	3	-	-	3	-	-	-	-
Teferi Ber	3	-	*	1	*	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben	*	-	*	*	-	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	-	*	*	-	-	-	-

TABLE 4.48. 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 0.1	0.1 - 0.50	0.51 - 1.00	1.01 - 2.00	2.01 - 5.00	5.01 - 10	Over 10
Temporary Crops	16769	8015	172	2165	2415	2401	861	-	-
Grain Crops	16568	7874	163	2132	2374	2361	845	-	-
Cereals	16389	7366	149	2017	2194	2220	788	-	-
Barley	*	*	-	*	*	*	-	-	-
Maize	15757	6830	145	1738	2016	2161	771	-	-
Millet	-	-	-	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Sorghum	2001	515	4	272	170	52	*	-	-
Teff	-	-	-	-	-	-	-	-	-
Wheat	109	13	*	*	*	*	-	-	-
Pulses	3881	504	13	115	178	141	57	-	-
Chick Peas	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Haricot beans	3864	501	13	115	175	141	57	-	-
Horse beans	-	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-
Other Pulses	*	*	-	-	*	-	-	-	-
Oilseeds	*	*	*	*	*	*	-	-	-
Groundnuts	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-
Neug	*	*	*	*	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-	-
Sesame	*	*	-	-	*	*	-	-	-
Sufflower	-	-	-	-	-	-	-	-	-
Other Grains	-	-	-	-	-	-	-	-	-
Vegetables	171	8	1	4	-	*	-	-	-
Head Cabbage	*	*	-	*	-	-	-	-	-
Green peppers	*	*	-	*	-	-	-	-	-
Ethiopian Cabbage	*	*	*	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Tomatoes	155	6	1	2	-	*	-	-	-
Other vegetables	-	-	-	-	-	-	-	-	-
Root Crops	670	*	*	30	*	*	*	-	-
Beetroot	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-	-	-	-	-
Onion	*	*	*	9	*	*	*	-	-
Potatoes	*	*	*	-	-	-	-	-	-
Sweet Potatoes	234	26	*	21	3	-	-	-	-
Other root	-	-	-	-	-	-	-	-	-

TABLE 4.49. 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								
	Number of Holders	Size Of Holding In Hectare							
		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
Somali Region	16769	8015	172	2165	2415	2401	861	-	-
Shinile	708	124	17	82	26	-	-	-	-
Shinile	*	*	*	*	-	-	-	-	-
Erer	610	112	13	74	26	-	-	-	-
Jijiga	4604	2384	29	723	727	730	*	-	-
Jijiga	*	*	*	*	*	*	-	-	-
Teferi Ber	1117	375	*	251	*	-	-	-	-
Kebri Beyah	1840	1363	*	238	419	525	*	-	-
Liben	11457	5507	126	1360	1663	1672	686	-	-
Filtu	1794	1383	2	171	490	606	115	-	-
Dolo Odo	3386	1494	33	525	397	249	*	-	-
Moyale	6276	2630	92	665	776	817	280	-	-

TABLE 4.50. 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								
	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 - 10.00	Over 10
Somali Region	16389	7366	149	2017	2194	2220	788	-	-
Shinile	587	94	14	58	23	-	-	-	-
Shinile	*	*	*	*	-	-	-	-	-
Erer	489	83	11	50	23	-	-	-	-
Jijiga	4604	2301	*	720	678	702	*	-	-
Jijiga	*	*	*	*	*	*	-	-	-
Teferi Ber	1117	372	*	251	*	-	-	-	-
Kebri Beyah	1840	1355	*	238	412	525	*	-	-
Liben	11198	4971	110	1239	1493	1518	612	-	-
Filtu	1792	1297	2	163	470	567	94	-	-
Dolo Odo	3307	1356	30	491	358	205	*	-	-
Moyale	6100	2318	79	585	665	746	244	-	-

TABLE 4.51. 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								
	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
Somali Region	3881	504	13	115	178	141	57	-	-
Shinile	-	-	-	-	-	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga	*	*	-	-	*	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-	-
Teferi Ber	*	*	-	-	*	-	-	-	-
Kebri Beyah	*	*	-	-	*	-	-	-	-
Liben	3831	493	13	115	167	141	57	-	-
Filtu	314	86	*	7	20	38	*	-	-
Dolo Odo	790	96	*	27	*	*	*	-	-
Moyale	2727	311	12	80	111	71	*	-	-

TABLE 4.52. 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
Somali Region	171	8	1	4	-	*	-	-	-
Shinile	120	5	1	3	-	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Erer	120	5	1	3	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben	51	*	*	*	-	*	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	-	*	-	*	-	-	-
Moyale									

TABLE 4.53. 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								
		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
Somali Region	670	*	*	30	*	*	*	-	-
Shinile	183	25	*	21	3	-	-	-	-
Shinile	-	-	-	-	-	-	-	-	-
Erer	183	25	*	21	3	-	-	-	-
Jijiga	*	*	*	*	*	*	-	-	-
Jijiga	*	*	*	*	*	*	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben	139	*	*	*	-	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	139	*	*	*	-	*	*	-	-
Moyale	-	-	-	-	-	-	-	-	-

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	104839	3444	3	12369	878	7	27158	1790	7	30358	1704	6
Crop only	10995	1904	17	575	107	19	3196	450	14	3659	898	25
Livestock only	18050	1209	7	9540	785	8	3315	456	14	2773	314	11
Crop and Livestock	75792	2493	3	2254	380	17	20646	1703	8	23926	1623	7

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	24364	1878	8	9717	1444	15	847	275	32	26	26	100
Crop only	2629	638	24	756	275	36	180	132	73	-	-	-
Livestock only	1597	243	15	694	182	26	131	52	40	-	-	-
Crop and Livestock	20137	1439	7	8267	1206	15	536	158	29	26	26	100

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	101553	3442	3	11621	874	8	25930	1789	7	29579	1704	6
Crop only	9835	1903	19	304	97	32	2713	449	17	3382	897	27
Livestock only	18050	1209	7	9540	785	8	3315	456	14	2773	314	11
Crop and Livestock	73669	2491	3	1777	376	21	19902	1702	9	23424	1622	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	23951	1878	8	9610	1444	15	836	275	33	26	26	100
Crop only	2528	638	25	735	275	37	173	132	76	-	-	-
Livestock only	1597	243	15	694	182	26	131	52	40	-	-	-
Crop and Livestock	19826	1438	7	8181	1206	15	533	158	30	26	26	100

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	3284	130	4	748	85	11	1227	63	5	779	38	5
Crop only	1160	67	6	271	44	16	483	36	7	277	20	7
Livestock only	-	-	-	-	-	-	-	-	-	-	-	-
Crop and Livestock	2126	100	5	478	56	12	744	46	6	502	34	7

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	412	39	9	107	16	15	11	3	25	-	-	-
Crop only	101	14	14	21	5	26	7	1	9	-	-	-
Livestock only	-	-	-	-	-	-	-	-	-	-	-	-
Crop and Livestock	312	32	10	86	15	17	4	3	75	-	-	-

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	104839	3444	3	97834	7176	7	255312	9006	4
Land Under Temporary Crops	84271	3282	4	61974	5076	8	130096	5680	4
Land Under Permanent Crops	36009	2026	6	8116	695	9	42781	2615	6
Grazing Land	20997	2362	11	12317	2751	22	22505	2726	12
Fallow Land	26917	1862	7	13413	1128	8	30326	2122	7
Woodland	364	114	31	103	52	51	364	114	31
All Other Land	100990	3412	3	1910	133	7	109302	3669	3
Holdings Under 0.10 Hectares									
All	12369	878	7	335	31	9	14717	1137	8
Land Under Temporary Crops	2542	398	16	122	20	17	2653	434	16
Land Under Permanent Crops	1033	282	27	22	6	28	1039	283	27
Grazing Land	197	101	52	4	2	52	197	101	52
Fallow Land	672	149	22	28	6	23	755	180	24
Woodland	50	28	56	1	1	68	50	28	56
All Other Land	11566	871	8	157	14	9	12148	907	7
Holdings Of 0.10-0.50 Hectares									
All	27158	1790	7	8423	506	6	59547	4061	7
Land Under Temporary Crops	22663	1672	7	5599	375	7	28256	2295	8
Land Under Permanent Crops	9012	1371	15	945	129	14	9835	1524	16
Grazing Land	2498	401	16	409	85	21	2510	402	16
Fallow Land	5666	515	9	1116	117	11	6026	585	10
Woodland	42	25	60	1	1	91	42	25	60
All Other Land	25695	1796	7	354	32	9	26936	1853	7
Holdings Of 0.51-1.00 Hectares									
All	30358	1704	6	22123	1224	6	78264	5286	7
Land Under Temporary Crops	27034	1692	6	15102	1027	7	42061	3626	9
Land Under Permanent Crops	11820	1025	9	2293	225	10	14552	1465	10
Grazing Land	5312	680	13	1407	224	16	5428	691	13
Fallow Land	7920	657	8	2745	251	9	8771	724	8
Woodland	65	32	49	8	6	74	65	32	49
All Other Land	29316	1723	6	568	54	10	32080	1799	6
Holdings Of 1.01-2.00 Hectares									
All	24364	1878	8	34295	2798	8	70648	5464	8
Land Under Temporary Crops	22392	1855	8	23089	2364	10	39307	3465	9
Land Under Permanent Crops	9903	1093	11	3126	401	13	12447	1414	11
Grazing Land	7606	993	13	3184	498	16	8093	1043	13
Fallow Land	7823	796	10	4289	443	10	8818	892	10
Woodland	108	59	55	24	15	65	108	59	55
All Other Land	23942	1878	8	583	77	13	26754	2052	8
Holdings Of 2.01-5.00 Hectares									
All	9717	1444	15	27277	4319	16	29629	4603	16
Land Under Temporary Crops	8917	1423	16	16256	2746	17	16618	2996	18
Land Under Permanent Crops	3902	889	23	1503	304	20	4567	992	22
Grazing Land	4806	1117	23	5365	1531	29	5488	1318	24
Fallow Land	4297	735	17	3867	543	14	5261	826	16
Woodland	89	55	61	60	37	63	89	55	61
All Other Land	9610	1444	15	227	36	16	10471	1518	15
Holdings Of 5.01-10.00 Hectares									
All	847	275	32	5063	1572	31	2455	835	34
Land Under Temporary Crops	697	267	38	1707	593	35	1175	526	45
Land Under Permanent Crops	340	196	58	227	95	42	340	196	58
Grazing Land	552	262	47	1883	859	46	763	442	58
Fallow Land	514	160	31	1216	338	28	670	223	33
Woodland	10	7	66	10	6	66	10	7	66
All Other Land	836	275	33	21	7	32	887	278	31
Holdings Over 10.00 Hectares									
All	26	26	100	318	318	100	51	51	100
Land Under Temporary Crops	26	26	100	100	100	100	26	26	100
Land Under Permanent Crops	-	-	-	-	-	-	-	-	-
Grazing Land	26	26	100	66	66	100	26	26	100
Fallow Land	26	26	100	152	153	100	26	26	100
Woodland	-	-	-	-	-	-	-	-	-
All Other Land	26	26	100	-	-	100	26	26	100

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 Qf All Sizes									
All	101554	3442	3	96000	7176	7	251543	9005	4
Land Under Temporary Crops	81074	3280	4	60198	5075	8	126514	5678	4
Land Under Permanent Crops	35717	2025	6	8059	695	9	42476	2615	6
Grazing Land	20997	2362	11	12317	2751	22	22505	2726	12
Fallow Land	26917	1862	7	13413	1128	8	30326	2122	7
Woodland	364	114	31	103	52	51	364	114	31
All Other Land	100990	3412	3	1910	133	7	109302	3669	3
Holdings Under 0.10 Hectares									
All	11621	874	8	299	30	10	13937	1133	8
Land Under Temporary Crops	1860	389	21	88	20	22	1947	426	22
Land Under Permanent Crops	944	282	30	21	6	29	950	282	30
Grazing Land	197	101	52	4	2	52	197	101	52
Fallow Land	672	149	22	28	6	23	755	180	24
Woodland	50	28	56	1	1	68	50	28	56
All Other Land	11566	871	8	157	14	9	12148	907	7
Holdings Of 0.10-0.50 Hectares									
All	25930	1789	7	8065	506	6	58220	4061	7
Land Under Temporary Crops	21450	1671	8	5248	374	7	26968	2294	9
Land Under Permanent Crops	8971	1371	15	938	129	14	9787	1524	16
Grazing Land	2498	401	16	409	85	21	2510	402	16
Fallow Land	5666	515	9	1116	117	11	6026	585	10
Woodland	42	25	60	1	1	91	42	25	60
All Other Land	25695	1796	7	354	32	9	26936	1853	7
Holdings Of 0.51-1.00 Hectares									
All	29579	1704	6	21578	1224	6	77318	5286	7
Land Under Temporary Crops	26259	1692	6	14575	1027	7	41148	3625	9
Land Under Permanent Crops	11742	1025	9	2275	225	10	14474	1465	10
Grazing Land	5312	680	13	1407	224	16	5428	691	13
Fallow Land	7920	657	8	2745	251	9	8771	724	8
Woodland	65	32	49	8	6	74	65	32	49
All Other Land	29316	1723	6	568	54	10	32080	1799	6
Holdings Of 1.01-2.00 Hectares									
All	23951	1878	8	33752	2797	8	70084	5464	8
Land Under Temporary Crops	21984	1855	8	22566	2364	10	38769	3465	9
Land Under Permanent Crops	9851	1093	11	3107	401	13	12396	1414	11
Grazing Land	7606	993	13	3184	498	16	8093	1043	13
Fallow Land	7823	796	10	4289	443	10	8818	892	10
Woodland	108	59	55	24	15	65	108	59	55
All Other Land	23942	1878	8	583	77	13	26754	2052	8
Holdings Of 2.01-5.00 Hectares									
All	9610	1444	15	26989	4318	16	29488	4602	16
Land Under Temporary Crops	8810	1423	16	15979	2745	17	16493	2996	18
Land Under Permanent Crops	3869	889	23	1491	304	20	4529	992	22
Grazing Land	4806	1117	23	5365	1531	29	5488	1318	24
Fallow Land	4297	735	17	3867	543	14	5261	826	16
Woodland	89	55	61	60	37	62	89	55	61
All Other Land	9610	1444	15	227	36	16	10471	1518	15
Holdings Of 5.01-10.00 Hectares									
All	836	275	33	4999	1572	31	2444	835	34
Land Under Temporary Crops	686	267	39	1643	593	36	1164	526	45
Land Under Permanent Crops	340	196	58	227	95	42	340	196	58
Grazing Land	552	262	47	1883	859	46	763	442	58
Fallow Land	514	160	31	1216	338	28	670	223	33
Woodland	10	7	66	10	6	66	10	7	66
All Other Land	836	275	33	21	7	32	887	278	31
Holdings Over 10.00 Hectares									
All	26	26	100	318	318	100	51	51	100
Land Under Temporary Crops	26	26	100	100	100	100	26	26	100
Land Under Permanent Crops	-	-	-	-	-	-	-	-	-
Grazing Land	26	26	100	66	66	100	26	26	100
Fallow Land	26	26	100	152	153	100	26	26	100
Woodland	-	-	-	-	-	-	-	-	-
All Other Land	26	26	100	-	-	100	26	26	100

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	3285	130	4	1834	96	5	3769	146	4
Land Under Temporary Crops	3197	130	4	1776	96	5	3582	144	4
Land Under Permanent Crops	292	16	6	57	6	10	305	16	5
Holdings Under 0.10 Hectares									
All	748	85	11	36	5	15	780	85	11
Land Under Temporary Crops	683	84	12	35	5	15	706	85	12
Land Under Permanent Crops	89	7	7	1	-	24	89	7	7
Holdings Of 0.10-0.50 Hectares									
All	1227	63	5	358	17	5	1327	66	5
Land Under Temporary Crops	1213	63	5	351	17	5	1289	65	5
Land Under Permanent Crops	41	7	18	7	1	14	48	7	15
Holdings Of 0.51-1.00 Hectares									
All	779	38	5	546	29	5	945	50	5
Land Under Temporary Crops	775	38	5	528	29	5	913	49	5
Land Under Permanent Crops	78	8	11	18	3	15	78	8	11
Holdings Of 1.01-2.00 Hectares									
All	412	39	9	543	55	10	564	54	10
Land Under Temporary Crops	408	38	9	523	55	10	538	54	10
Land Under Permanent Crops	52	9	17	20	4	22	52	9	17
Holdings Of 2.01-5.00 Hectares									
All	107	16	15	288	42	15	141	21	15
Land Under Temporary Crops	107	16	15	276	42	15	126	20	16
Land Under Permanent Crops	33	6	18	12	2	21	39	6	15
Holdings Of 5.01-10.00 Hectares									
All	11	3	25	64	15	24	11	3	25
Land Under Temporary Crops	11	3	25	64	15	24	11	3	25
Land Under Permanent Crops	-	-	-	-	-	-	-	-	-
Holdings Over 10.00 Hectares									
All	-	-	-	-	-	-	-	-	-
Land Under Temporary Crops	-	-	-	-	-	-	-	-	-
Land Under Permanent Crops	-	-	-	-	-	-	-	-	-

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	104839	3445	3	104257	3440	3	1307	245	19	5081	974	19
Land Under Temporary Crops	84271	3283	4	82660	3253	4	881	165	19	2289	654	29
Land Under Permanent Crops	36009	2026	6	35676	2016	6	122	59	48	338	124	37
Grazing Land	20997	2362	11	20808	2354	11	4	4	91	185	67	36
Fallow Land	26917	1862	7	26483	1848	7	113	68	60	455	159	35
Woodland	364	114	31	364	114	31	-	-	-	-	-	-
All Other Land	100990	3412	3	100032	3420	3	312	178	57	3080	670	22
Holdings Under 0.10 Hectares												
All	12369	878	7	12029	874	7	130	36	27	707	138	20
Land Under Temporary Crops	2542	398	16	2341	396	17	102	33	33	100	52	52
Land Under Permanent Crops	1033	282	27	1033	282	27	-	-	-	-	-	-
Grazing Land	197	101	52	197	101	52	-	-	-	-	-	-
Fallow Land	672	149	22	653	149	23	5	5	91	14	8	61
Woodland	50	28	56	50	28	56	-	-	-	-	-	-
All Other Land	11566	871	8	11248	865	8	23	14	58	668	137	20
Holdings Of 0.10-0.50 Hectares												
All	27158	1790	7	26987	1790	7	377	117	31	1307	324	25
Land Under Temporary Crops	22663	1672	7	21931	1654	8	226	74	33	778	285	37
Land Under Permanent Crops	9012	1371	15	8876	1368	15	40	38	96	96	55	57
Grazing Land	2498	401	16	2473	401	16	-	-	-	25	19	77
Fallow Land	5666	515	9	5531	511	9	37	28	77	103	56	54
Woodland	42	25	60	42	25	60	-	-	-	-	-	-
All Other Land	25695	1796	7	25313	1801	7	154	96	62	726	198	27
Holdings Of 0.51-1.00 Hectares												
All	30358	1704	6	30327	1704	6	445	135	30	1253	250	20
Land Under Temporary Crops	27034	1692	6	26614	1690	6	234	86	37	601	168	28
Land Under Permanent Crops	11820	1025	9	11693	1018	9	29	27	96	140	62	44
Grazing Land	5312	680	13	5247	673	13	4	4	91	61	44	72
Fallow Land	7920	657	8	7741	646	8	59	42	72	174	83	48
Woodland	65	32	49	65	32	49	-	-	-	-	-	-
All Other Land	29316	1723	6	29188	1728	6	130	90	69	614	155	25
Holdings Of 1.01-2.00 Hectares												
All	24364	1878	8	24347	1878	8	278	94	34	1081	261	24
Land Under Temporary Crops	22392	1855	8	22195	1854	8	251	93	37	325	106	33
Land Under Permanent Crops	9903	1093	11	9836	1090	11	50	-	-	102	53	52
Grazing Land	7606	993	13	7526	991	13	-	-	-	79	38	48
Fallow Land	7823	796	10	7735	794	10	12	11	96	137	53	39
Woodland	108	59	55	108	59	55	-	-	-	-	-	-
All Other Land	23942	1878	8	23853	1876	8	-	-	-	741	239	32
Holdings Of 2.01-5.00 Hectares												
All	9717	1444	15	9695	1444	15	76	37	49	705	362	51
Land Under Temporary Crops	8917	1423	16	8857	1423	16	69	37	54	485	291	60
Land Under Permanent Crops	3902	889	23	3899	889	23	3	2	77	-	-	-
Grazing Land	4806	1117	23	4787	1117	23	-	-	-	19	19	99
Fallow Land	4297	735	17	4284	735	17	-	-	-	26	21	83
Woodland	89	55	61	89	55	61	-	-	-	-	-	-
All Other Land	9610	1444	15	9591	1444	15	4	4	91	301	153	51
Holdings Of 5.01-10.00Hectares												
All	847	275	32	847	275	32	-	-	-	29	23	82
Land Under Temporary Crops	697	267	38	697	267	38	-	-	-	-	-	-
Land Under Permanent Crops	340	196	58	340	196	58	-	-	-	-	-	-
Grazing Land	552	262	47	552	262	47	-	-	-	-	-	-
Fallow Land	514	160	31	514	160	31	-	-	-	-	-	-
Woodland	10	7	66	10	7	66	-	-	-	-	-	-
All Other Land	836	275	33	813	274	34	-	-	-	29	23	82
Holdings Over 10.00 Hectares												
All	26	26	100	26	26	100	-	-	-	-	-	-
Land Under Temporary Crops	26	26	100	26	26	100	-	-	-	-	-	-
Land Under Permanent Crops	-	-	-	-	-	-	-	-	-	-	-	-
Grazing Land	26	26	100	26	26	100	-	-	-	-	-	-
Fallow Land	26	26	100	26	26	100	-	-	-	-	-	-
Woodland	-	-	-	-	-	-	-	-	-	-	-	-
All Other Land	26	26	100	26	26	100	-	-	-	-	-	-

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	101554	3442	3	101120	3438	3	1158	243	21	5054	974	19
Land Under Temporary Crops	81074	3280	4	79614	3251	4	740	162	22	2263	654	29
Land Under Permanent Crops	35717	2025	6	35392	2016	6	114	58	51	338	124	37
Grazing Land	20997	2362	11	20808	2354	11	4	4	91	185	67	36
Fallow Land	26917	1862	7	26483	1848	7	113	68	60	455	159	35
Woodland	364	114	31	364	114	31	-	-	-	-	-	-
All Other Land	100990	3412	3	100032	3420	3	312	178	57	3080	670	22
Holdings Under 0.10 Hectares												
All	11621	874	8	11333	870	8	78	31	40	707	138	20
Land Under Temporary Crops	1860	389	21	1710	387	23	49	28	57	100	52	52
Land Under Permanent Crops	944	282	30	944	282	30	-	-	-	-	-	-
Grazing Land	197	101	52	197	101	52	-	-	-	-	-	-
Fallow Land	672	149	22	653	149	23	5	5	91	14	8	61
Woodland	50	28	56	50	28	56	-	-	-	-	-	-
All Other Land	11566	871	8	11248	865	8	23	14	58	668	137	20
Holdings Of 0.10-0.50 Hectares												
All	25930	1789	7	25804	1789	7	339	116	34	1296	324	25
Land Under Temporary Crops	21450	1671	8	20762	1653	8	188	73	39	767	285	37
Land Under Permanent Crops	8971	1371	15	8835	1368	15	40	38	96	96	55	57
Grazing Land	2498	401	16	2473	401	16	-	-	-	25	19	77
Fallow Land	5666	515	9	5531	511	9	37	28	77	103	56	54
Woodland	42	25	60	42	25	60	-	-	-	-	-	-
All Other Land	25695	1796	7	25313	1801	7	154	96	62	726	198	27
Holdings Of 0.51-1.00 Hectares												
All	29579	1704	6	29579	1704	6	423	135	32	1239	250	20
Land Under Temporary Crops	26259	1692	6	25870	1690	7	212	85	40	587	168	29
Land Under Permanent Crops	11742	1025	9	11615	1018	9	29	27	96	140	62	44
Grazing Land	5312	680	13	5247	673	13	4	4	91	61	44	72
Fallow Land	7920	657	8	7741	646	8	59	42	72	174	83	48
Woodland	65	32	49	65	32	49	-	-	-	-	-	-
All Other Land	29316	1723	6	29188	1728	6	130	90	69	614	155	25
Holdings Of 1.01-2.00 Hectares												
All	23951	1878	8	23951	1878	8	248	94	38	1079	261	24
Land Under Temporary Crops	21984	1855	8	21807	1854	9	225	93	41	323	106	33
Land Under Permanent Crops	9851	1093	11	9788	1090	11	46	36	79	102	53	52
Grazing Land	7606	993	13	7526	991	13	-	-	-	79	38	48
Fallow Land	7823	796	10	7735	794	10	12	11	96	137	53	39
Woodland	108	59	55	108	59	55	-	-	-	-	-	-
All Other Land	23942	1878	8	23853	1876	8	-	-	-	741	239	32
Holdings Of 2.01-5.00 Hectares												
All	9610	1444	15	9591	1444	15	70	37	53	705	362	51
Land Under Temporary Crops	8810	1423	16	8753	1423	16	66	37	56	485	291	60
Land Under Permanent Crops	3869	889	23	3869	889	23	-	-	-	-	-	-
Grazing Land	4806	1117	23	4787	1117	23	-	-	-	19	19	99
Fallow Land	4297	735	17	4284	735	17	-	-	-	26	21	83
Woodland	89	55	61	89	55	61	-	-	-	-	-	-
All Other Land	9610	1444	15	9591	1444	15	4	4	91	301	153	51
Holdings Of 5.01-10.00 Hectares												
All	836	275	33	836	275	33	-	-	-	29	23	82
Land Under Temporary Crops	686	267	39	686	267	39	-	-	-	-	-	-
Land Under Permanent Crops	340	196	58	340	196	58	-	-	-	-	-	-
Grazing Land	552	262	47	552	262	47	-	-	-	-	-	-
Fallow Land	514	160	31	514	160	31	-	-	-	-	-	-
Woodland	10	7	66	10	7	66	-	-	-	-	-	-
All Other Land	836	275	33	813	274	34	-	-	-	29	23	82
Holdings Over 10.00 Hectares												
All	26	26	100	26	26	100	-	-	-	-	-	-
Land Under Temporary Crops	26	26	100	26	26	100	-	-	-	-	-	-
Land Under Permanent Crops	-	-	-	-	-	-	-	-	-	-	-	-
Grazing Land	26	26	100	26	26	100	-	-	-	-	-	-
Fallow Land	26	26	100	26	26	100	-	-	-	-	-	-
Woodland	-	-	-	-	-	-	-	-	-	-	-	-
All Other Land	26	26	100	26	26	100	-	-	-	-	-	-

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	3285	140	4	3137	134	4	149	28	19	27	7	26
Land Under Temporary Crops	3197	140	4	3045	134	4	141	28	20	27	7	26
Land Under Permanent Crops	292	16	6	284	16	6	8	2	32	-	-	-
Holdings Under 0.10 Hectares												
All	748	86	12	696	84	12	52	17	33	-	-	-
Land Under Temporary Crops	683	86	13	630	84	13	52	17	33	-	-	-
Land Under Permanent Crops	89	7	7	89	7	7	-	-	-	-	-	-
Holdings Of 0.10-0.50 Hectares												
All	1227	65	5	1183	62	5	38	11	28	11	5	49
Land Under Temporary Crops	1213	65	5	1169	62	5	38	11	28	11	5	49
Land Under Permanent Crops	41	8	19	41	8	19	-	-	-	-	-	-
Holdings Of 0.51-1.00 Hectares												
All	779	39	5	747	39	5	22	5	25	14	4	31
Land Under Temporary Crops	775	39	5	743	39	5	22	5	25	14	4	31
Land Under Permanent Crops	78	8	11	78	8	11	-	-	-	-	-	-
Holdings Of 1.01-2.00 Hectares												
All	412	39	9	396	38	10	30	4	14	2	1	54
Land Under Temporary Crops	408	38	9	388	38	10	26	4	17	2	1	54
Land Under Permanent Crops	52	9	17	47	9	19	5	-	-	-	-	-
Holdings Of 2.01-5.00 Hectares												
All	107	16	15	104	15	15	6	4	63	-	-	-
Land Under Temporary Crops	107	16	15	104	15	15	3	3	102	-	-	-
Land Under Permanent Crops	33	6	17	30	5	18	3	2	77	-	-	-
Holdings Of 5.01-10.0 Hectares												
All	11	3	25	11	3	25	-	-	-	-	-	-
Land Under Temporary Crops	11	3	25	11	3	25	-	-	-	-	-	-
Land Under Permanent Crops	-	-	-	-	-	-	-	-	-	-	-	-
Holdings Over 10.00 Hectares												
All	-	-	-	-	-	-	-	-	-	-	-	-
Land Under Temporary Crops	-	-	-	-	-	-	-	-	-	-	-	-
Land Under Permanent Crops	-	-	-	-	-	-	-	-	-	-	-	-

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	97834	7176	7	'96106	7056	7	330	82	25	1397	452	32
Land Under Temporary Crops	61974	5076	8	60687	4905	8	289	78	27	998	415	42
Land Under Permanent Crops	8116	695	9	8031	690	9	11	-	-	74	31	41
Grazing Land	12317	2751	22	12230	2749	22	1	1	91	86	39	45
Fallow Land	13413	1128	8	13176	1114	8	27	21	78	210	73	35
Woodland	103	52	51	103	52	51	-	-	-	-	-	-
All Other Land	1910	133	7	1879	133	7	2	1	49	29	5	19
Holdings Under 0.10 Hectares												
All	335	31	9	314	30	10	5	2	32	16	5	33
Land Under Temporary Crops	122	20	17	111	20	18	4	2	37	7	4	63
Land Under Permanent Crops	22	6	28	22	6	28	-	-	-	-	-	-
Grazing Land	4	2	52	4	2	52	-	-	-	-	-	-
Fallow Land	28	6	23	28	6	23	-	-	91	-	-	57
Woodland	1	1	68	1	1	68	-	-	-	-	-	-
All Other Land	157	14	9	148	14	9	-	-	67	8	2	28
Holdings Of 0.10-0.50 Hectares												
All	8423	506	6	8183	503	6	43	12	29	197	81	41
Land Under Temporary Crops	5599	375	7	5414	371	7	32	10	31	153	66	43
Land Under Permanent Crops	945	129	14	931	129	14	2	2	95	11	7	58
Grazing Land	409	85	21	406	85	21	-	-	-	3	2	77
Fallow Land	1116	117	11	1084	116	11	8	6	81	24	14	56
Woodland	1	1	91	1	1	91	-	-	-	-	-	-
All Other Land	354	32	9	347	32	9	1	1	62	6	2	25
Holdings Of 0.51-1.00 Hectares												
All	22123	1224	6	21720	1215	6	108	36	33	296	89	30
Land Under Temporary Crops	15102	1027	7	14824	1021	7	82	31	38	196	60	31
Land Under Permanent Crops	2293	225	10	2260	224	10	6	5	96	28	14	52
Grazing Land	1407	224	16	1380	221	16	1	1	91	25	18	72
Fallow Land	2745	251	9	2685	245	9	18	16	88	42	19	45
Woodland	8	6	74	8	6	74	-	-	-	-	-	-
All Other Land	568	54	10	562	54	10	1	1	66	6	1	25
Holdings Of 1.01-2.00 Hectares												
All	34295	2798	8	33838	2781	8	126	50	40	330	89	27
Land Under Temporary Crops	23089	2364	10	22806	2350	10	121	49	41	161	56	34
Land Under Permanent Crops	3126	401	13	3087	398	13	4	-	-	35	19	55
Grazing Land	3184	498	16	3150	496	16	-	-	-	34	19	55
Fallow Land	4289	443	10	4194	437	10	1	1	96	94	38	41
Woodland	24	15	65	24	15	65	-	-	-	-	-	-
All Other Land	583	77	13	577	77	13	-	-	-	6	2	31
Holdings Of 2.01-5.00 Hectares												
All	27277	4319	16	26671	4222	16	49	31	63	558	318	57
Land Under Temporary Crops	16256	2746	17	15725	2598	17	49	31	63	481	312	65
Land Under Permanent Crops	1503	304	20	1503	304	20	-	-	-	-	-	-
Grazing Land	5365	1531	29	5341	1531	29	-	-	-	24	24	100
Fallow Land	3867	543	14	3817	542	14	-	-	-	50	41	83
Woodland	60	37	63	60	37	63	-	-	-	-	-	-
All Other Land	227	36	16	224	36	16	-	-	100	3	1	42
Holdings Of 5.01-10.00 Hectares												
All	5063	1572	31	5063	1572	31	-	-	-	-	-	80
Land Under Temporary Crops	1707	593	35	1707	593	35	-	-	-	-	-	-
Land Under Permanent Crops	227	95	42	227	95	42	-	-	-	-	-	-
Grazing Land	1883	859	46	1883	859	46	-	-	-	-	-	-
Fallow Land	1216	338	28	1216	338	28	-	-	-	-	-	-
Woodland	10	6	66	10	6	66	-	-	-	-	-	-
All Other Land	21	7	32	20	7	32	-	-	-	-	-	80
Holdings Over 10.00 Hectares												
All	318	318	100	318	318	100	-	-	-	-	-	-
Land Under Temporary Crops	100	100	100	100	100	100	-	-	-	-	-	-
Land Under Permanent Crops	-	-	-	-	-	-	-	-	-	-	-	-
Grazing Land	66	66	100	66	66	100	-	-	-	-	-	-
Fallow Land	152	153	100	152	153	100	-	-	-	-	-	-
Woodland	-	-	-	-	-	-	-	-	-	-	-	-
All Other Land	-	-	100	-	-	100	-	-	-	-	-	-

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	96000	7176	7	94340	7055	7	275	81	29	1385	452	33
Land Under Temporary crops	60198	5075	8	58978	4904	8	234	77	33	986	415	42
Land Under Permanent crops	8059	695	9	7975	690	9	10	6	60	74	31	41
Grazing Land	12317	2751	22	12230	2749	22	1	1	91	86	39	45
Fallow Land	13413	1128	8	13176	1114	8	27	21	77	210	73	35
Woodland	103	52	51	103	52	51	-	-	-	-	-	-
All Other Land	1910	133	7	1879	133	7	2	1	48	29	5	19
Holdings Under 0.10 Hectares												
All	299	30	10	281	30	11	3	1	48	16	5	33
Land Under Temporary crops	88	20	22	79	19	25	2	1	62	7	4	63
Land Under Permanent crops	21	6	29	21	6	29	-	-	-	-	-	-
Grazing Land	4	2	52	4	2	52	-	-	-	-	-	-
Fallow Land	28	6	23	28	6	23	-	-	91	-	-	62
Woodland	1	1	68	1	1	68	-	-	-	-	-	-
All Other Land	157	14	9	148	14	9	-	-	68	8	2	28
Holdings Of 0.10-0.50 Hectares												
All	8065	506	6	7836	503	6	34	12	36	195	81	41
Land Under Temporary crops	5248	374	7	5074	371	7	24	9	40	150	66	44
Land Under Permanent crops	938	129	14	925	129	14	2	2	96	11	7	58
Grazing Land	409	85	21	406	85	21	-	-	-	3	2	76
Fallow Land	1116	117	11	1084	116	11	8	6	81	24	14	56
Woodland	1	1	91	1	1	91	-	-	-	-	-	-
All Other Land	354	32	9	347	32	9	1	1	62	6	2	25
Holdings Of 0.51-1.00 Hectares												
All	21578	1224	6	21195	1214	6	94	36	38	289	89	31
Land Under Temporary crops	14575	1027	7	14318	1021	7	68	31	45	188	60	32
Land Under Permanent crops	2275	225	10	2242	224	10	6	5	96	28	14	52
Grazing Land	1407	224	16	1380	221	16	1	1	91	25	18	72
Fallow Land	2745	251	9	2685	245	9	18	16	88	42	19	45
Woodland	8	6	74	8	6	74	-	-	-	-	-	-
All Other Land	568	54	10	562	54	10	1	1	66	6	1	25
Holdings Of 1.01-2.00 Hectares												
All	33752	2797	8	33321	2780	8	102	50	49	328	89	27
Land Under Temporary crops	22566	2364	10	22309	2350	11	98	49	50	159	56	35
Land Under Permanent crops	3107	401	13	3068	398	13	3	3	93	35	19	55
Grazing Land	3184	498	16	3150	496	16	-	-	-	34	19	55
Fallow Land	4289	443	10	4194	437	10	1	1	96	94	38	41
Woodland	24	15	65	24	15	65	-	-	-	-	-	-
All Other Land	583	77	13	577	77	13	-	-	-	6	2	31
Holdings Of 2.01-5.00 Hectares												
All	26989	4318	16	26390	4222	16	42	30	71	558	318	57
Land Under Temporary crops	15979	2745	17	15456	2597	17	42	30	71	481	312	65
Land Under Permanent crops	1491	304	20	1491	304	20	-	-	-	-	-	-
Grazing Land	5365	1531	29	5341	1531	29	-	-	-	24	24	99
Fallow Land	3867	543	14	3817	542	14	-	-	-	50	41	83
Woodland	60	37	62	60	37	62	-	-	-	-	-	-
All Other Land	227	36	16	224	36	16	-	-	91	3	1	43
Holdings Of 5.01-10.0 Hectares												
All	4999	1572	31	4999	1572	31	-	-	-	-	-	82
Land Under Temporary crops	1643	593	36	1643	593	36	-	-	-	-	-	-
Land Under Permanent crops	227	95	42	227	95	42	-	-	-	-	-	-
Grazing Land	1883	859	46	1883	859	46	-	-	-	-	-	-
Fallow Land	1216	338	28	1216	338	28	-	-	-	-	-	-
Woodland	10	6	66	10	6	66	-	-	-	-	-	-
All Other Land	21	7	32	20	7	32	-	-	-	-	-	82
Holdings Over 10.00 Hectares												
All	318	318	100	318	318	100	-	-	-	-	-	-
Land Under Temporary crops	100	100	100	100	100	100	-	-	-	-	-	-
Land Under Permanent crops	-	-	-	-	-	-	-	-	-	-	-	-
Grazing Land	66	66	100	66	66	100	-	-	-	-	-	-
Fallow Land	152	153	100	152	153	100	-	-	-	-	-	-
Woodland	-	-	-	-	-	-	-	-	-	-	-	-
All Other Land	-	-	100	-	-	100	-	-	-	-	-	-

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	1834	98	5	1766	96	5	55	11	20	12	3	28
Land Under Temporary Crops	1776	97	5	1710	96	6	55	11	20	12	3	28
Land Under Permanent Crops	57	6	10	57	6	10	1	-	-	-	-	-
Holdings Under 0.10 Hectares												
All	36	5	15	33	5	16	2	1	39	-	-	-
Land Under Temporary Crops	35	5	15	32	5	16	2	1	39	-	-	-
Land Under Permanent Crops	1	-	24	1	-	24	-	-	-	-	-	-
Holdings Of 0.10-0.50 Hectares												
All	358	18	5	347	17	5	8	3	30	2	1	47
Land Under Temporary Crops	351	17	5	340	17	5	8	3	30	2	1	47
Land Under Permanent Crops	7	1	14	7	1	14	-	-	-	-	-	-
Holdings Of 0.51-1.00 Hectares												
All	546	29	5	525	29	6	14	3	24	8	3	40
Land Under Temporary Crops	528	29	5	506	29	6	14	3	24	8	3	40
Land Under Permanent Crops	18	3	15	18	3	15	-	-	-	-	-	-
Holdings Of 1.01-2.00 Hectares												
All	543	55	10	517	55	11	24	4	15	2	1	54
Land Under Temporary Crops	523	55	10	498	55	11	23	4	16	2	1	54
Land Under Permanent Crops	20	4	22	19	4	23	1	-	-	-	-	-
Holdings Of 2.01-5.00 Hectares												
All	288	42	15	281	42	15	7	7	102	-	-	-
Land Under Temporary Crops	276	42	15	269	42	15	7	7	102	-	-	-
Land Under Permanent Crops	12	2	21	12	2	21	-	-	77	-	-	-
Holdings Of 5.01-10.00 Hectares												
All	64	15	24	64	15	24	-	-	-	-	-	-
Land Under Temporary Crops	64	15	24	64	15	24	-	-	-	-	-	-
Land Under Permanent Crops	-	-	-	-	-	-	-	-	-	-	-	-
Holdings Over 10.00 Hectares												
All	-	-	-	-	-	-	-	-	-	-	-	-
Land Under Temporary Crops	-	-	-	-	-	-	-	-	-	-	-	-
Land Under Permanent Crops	-	-	-	-	-	-	-	-	-	-	-	-

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. In the Somali Region* Teff, barley and wheat do not figure prominently. Instead, in this region maize and sorghum are grown in greater volume.

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,

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** It should be noted that the data collection refers only to Shinele and Erer weredas of Shinele Zone, Jijiga,Teferiber and Kebribeyah weredas of Jijiga Zone and all weredas in Liben Zone of the Somali Region .*

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. Also these census data should also be presented for all the covered weredas and zones in the region. Hence,

statistical tables providing these data for the weredas and zones covered in the region are given at the end of this chapter. Moreover,Standard Errors (S.E) and Coefficient of Variation (C.V) for some selected variables are given as annex to this chapter.

2. PRODUCTION OF TEMPORARY / 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 Statistcs). 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 the Somali Region* when compared to Teff, barley and wheat produced.

Summary Tables V-1 and V-2 show that 96.48% of the regional grain crop area was devoted to cereals and 98.77% of the grain production was that of cereals. The data shows that out of the total area under grain, maize and sorghum took up 41.31% and 32.3% and the yield was 36.78% and 38.6% of the total regional grain production, respectively. The area planted to grains and the production acquired in Belg season were 11.49% and 0.80% of the total grain crop area and grain production of the region, respectively. Of the regional area under cereals, 11.53% was cropped in Belg season.

As the census result depicts, agricultural households in urban areas of the region contributed 2.56% and 1.8% of the regional grain crop area and grain production, respectively. The data also indicates that of the total area under cereals and cereal production, 2.55% and 1.92% were added by urban agricultural households, in that order.

The data in Summary Tables V-3 and V-4 indicate that in Shinele Zone, 99.83% of the zonal grain crop area was under cereals and the total production was made up of the same crops. Maize and sorghum that accounted for 16.03% and 83.81% of the area under grains, were the major crops in the zone, respectively. The zonal grain production was composed of 7.12% maize and 92.88% sorghum.

Summary Tables V-5 and V-6 show that 97.6% of the grain crop area was under cereals and 98.94% of the grain production was drawn from these crops in Jijiga zone. Maize and Sorghum were the major cereal

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* *It should be noted that the data collection refers only to Shinele and Erer weredas of Shinele Zone, Jijiga,Teferiber and Kebribeyah weredas of Jijiga Zone and all weredas in Liben Zone of the Somali Region .*

crops in the zone accounting for 35.42% and 35.33% of the zonal area under grain crops and 35.87% and 38.42% of the zonal grain production, respectively.

Table V-7 and V-8 reveal that in Liben Zone 89.03% and 93.59% of the zonal crop area and production was under cereals, respectively. Maize was the dominant crop in the zone which accounts for 81.31% and 72.8% of the area under grain crops and production of grain crops, respectively.

2.2 Pulses

Pulses 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 2.78% of the regional grain crop area was under pulses and 0.91% of the grain production consisted of the same crops. Of the regional area under grain crops, 1.79% was planted to haricot beans. The production obtained from haricot beans was only 0.35% fo the regional grain total. Of the total area under pulses in the region, the Belg season contribution was 26.29%.

In Jijiga Zone 1.58% of the grain crop area and 0.77% of the grain production were that of pulses. In this zone haricot beans was the major pulse, which took up 0.43% of the area under grain crop. The principal crop in terms of volume of production was chickpeas, that formed 0.38% of the zonal production of grains.

In Liben Zone 10.78% of the grain crop area was under pulses and 4.89% of the zonal grain production was drawn from these crops. The major pulse in terms of area in the zone was haricot beans, which shared 10.58% of the area under grain crops in the zone. Haricot beans contributed 4.89% to the zonal grain production.

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. (CSA, External Trade Statistics).

Summary Tables V-1 and V-2 indicate that only 0.74% of the regional grain crop area was under oilseeds and 0.32% of the regional grain production was that of the oil seeds. Of the total area under grain crops and grain production in Somali Region, 0.65% went for Linseed.

As shown in Tables V-5 and V-6 in Jijiga Zone 0.82% of the zonal grain crop area and 0.28% of the volume of grain production were that of oilseeds. Out of the zonal area under grain crops, Linseed took up0.76%. The same crop made up 0.2% of the zonal grain production.

The production of oilseeds in the Liben and Shinele Zones of the region are found to be insignificant.

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.

Summary Tables V-1 and V-2 show that only 0.15 % of the regional crop area is under vegetables which formed 1.39 % of the total volume of production in the region. Tomatoes took up 0.11% of the regional crop area and the same crop made up 1.16 % of the vegetable production of the region. In Shinele Zone 1.75% of the zonal crop area and 11.94% of the production in the zone were that of vegetables.

In Jijiga Zone 0.1% of the zonal crop area and 0.82% of the production were that of vegetables. Tables V-7 and V-8 reveal that only 0.03% of the zonal crop area was covered by vegetables.

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 Somali Region. As the tables show, root crops covered only 1.22% of the regional crop area and 11.14% of the production volume. Onion and garlic, shared 40.5% and 31.83% of the regional root crop area and these crops added 35.19% and 42.73% to the regional volume of root crop production respectively.

Summary Tables V-3 and V-4 indicate that in Shinele Zone vegetables contributed to 4.32% and 14.01% to the zonal crop area and production respectively.In Jijiga zone 1.22% of the regional crop area was covered by vegetables, and the same crops contributed 11.44% to the total production of the zone.

Summary Table V-8 reveals that vegetables account for 1.97% of the total production in Liben Zone.

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

SOMALI REGION

Crop	All		Rural		Urban
			Area (HA)		Area (HA)
	Area (HA)	%	Meher	Belg	Meher
All	69456		59668.44	8011.66	1775.9
Grain Crops	68501.27	100	58880.85	7870.68	1749.74
Cereals	66091.2	96.48	57040.6	7366.37	1684.23
Teff	*	*	*	-	3.26
Barley	6639.45	9.69	6511.81	*	119.5
Wheat	8517.8	12.43	8353.8	13.34	150.65
Maize	28298.95	41.31	20846.55	6829.82	622.58
Sorghum	22123.35	32.3	20824.36	515.07	783.92
Finger Millet	*	*	*	-	-
Oats/"Aja"	436.96	0.64	432.63	-	4.33
Rice	-	-	-	-	-
Pulses	1905	2.78	1346.86	500.81	57.32
Horse beans	*	*	*	-	-
Field peas	89.35	0.13	86.04	-	3.31
Haricot beans	1224.32	1.79	678.33	500.81	45.18
Chick-peas	415.76	0.61	406.93	-	8.83
Lentils	83.71	0.12	83.71	-	-
Vetch	*	*	*	-	-
Soya beans	*	*	*	-	-
Fenugreek	56.86	0.08	56.86	-	-
Gibto	-	-	-	-	-
Oilseeds	505.07	0.74	493.38	*	*
Neug	*	*	*	*	-
Linseed	445.52	0.65	445.06	-	*
Groundnuts	*	*	*	-	1.05
Sunflower	-	-	-	-	-
Sesame	*	*	*	*	*
Rapeseed	-	-	-	-	-
Vegetables	107.89	100	90.56	8.17	9.17
Lettuce	1.03	0.95	*	-	0.95
Head cabbage	8.97	8.31	*	*	-
Ethiopian cabbage	*	*	*	*	*
Tomatoes	74.43	68.99	60.42	6.48	7.53
Green peppers	13.78	12.77	13.12	*	0.53
Red peppers	*	*	*	-	-
Swiss chard	*	*	-	-	0.1
Root crops	846.83	100	697.04	*	16.98
Beetroot	*	*	*	-	-
Carrot	*	*	-	-	*
Onion	342.97	40.5	225.76	*	13.03
Potatoes	47.49	5.61	44.23	*	0.63
Garlic	269.51	31.83	268.97	-	0.54
Taro/'Godere'	-	-	-	-	-
Sweet potatoes	181.97	21.49	153.55	26	2.42

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

SOMALI REGION

Crop	All		Rural		Urban
			Production(QT)		Production (QT)
	Production(QT)	%	Meher	Belg	Meher
All	849781.6		821907.3	*	15327.52
Grain Crops	743297.1	100	723018.1	5940.42	14338.6
Cereals	734121.4	98.77	714362.1	5665.42	14093.95
Teff	261.17	0.04	*	-	49.96
Barley	58205.78	7.83	57721.28	*	467.72
Wheat	111426	14.99	109973.5	13.9	1438.66
Maize	273368.8	36.78	263447.3	3603.62	6317.97
Sorghum	286875.5	38.6	279054.3	*	5790.15
Finger Millet	-	-	-	-	-
Oats/"Aja"	3984.11	0.54	3954.6	-	29.51
Rice	-	-	-	-	-
Pulses	6778.97	0.91	6283.6	*	220.65
Horse beans	*	*	*	-	-
Field peas	*	*	*	-	5.15
Haricot beans	2572.95	0.35	2143.11	*	155.12
Chick-peas	2646.51	0.36	*	-	*
Lentils	862.73	0.12	862.73	-	-
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	189.84	0.03	189.84	-	-
Gibto	-	-	-	-	-
Oilseeds	2396.7	0.32	2372.42	*	*
Neug	-	-	-	-	-
Linseed	1409.81	0.19	1409.81	-	-
Groundnuts	*	*	*	-	6.2
Sunflower	-	-	-	-	-
Sesame	*	*	*	*	*
Rapeseed	-	-	-	-	-
Vegetables	11796.11	100	11010.63	*	343.06
Lettuce	*	*	-	-	*
Head cabbage	*	*	*	-	-
Ethiopian cabbage	*	*	*	-	*
Tomatoes	9845.26	83.46	9063.38	*	340.14
Green peppers	*	*	*	*	*
Red peppers	-	-	-	-	-
Swiss chard	-	-	-	-	-
Root crops	94688.36	100	87878.57	*	645.86
Beetroot	*	*	*	-	-
Carrot	*	*	-	-	*
Onion	33322.51	35.19	26966.71	*	386.68
Potatoes	4778.59	5.05	4644.66	*	38.83
Garlic	40463.68	42.73	40324.83	-	138.85
Taro/'Godere'	-	-	-	-	-
Sweet potatoes	15531.85	16.4	15354.78	99.73	77.35

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

SHINELE ZONE

Crop	All		Rural		Urban
			Area (HA)		Area (HA)
	Area (HA)	%	Meher	Belg	Meher
All	1040.64		847.79	123.99	68.85
Grain Crops	977.41	100	814.7	94.41	68.31
Cereals	975.76	99.83	813.04	94.41	68.31
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	156.64	16.03	61.56	93.04	2.04
Sorghum	819.12	83.81	751.48	*	66.27
Finger Millet	-	-	-	-	-
Oats/"Aja"	-	-	-	-	-
Rice	-	-	-	-	-
Pulses	*	*	*	-	-
Horse beans	-	-	-	-	-
Field peas	-	-	-	-	-
Haricot beans	*	*	*	-	-
Chick-peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	*	*	*	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Sunflower	-	-	-	-	-
Sesame	*	*	*	-	-
Rapeseed	-	-	-	-	-
Vegetables	18.26	100	13.27	4.8	*
Lettuce	-	-	-	-	-
Head cabbage	*	*	-	*	-
Ethiopian cabbage	*	*	*	-	-
Tomatoes	12.27	67.2	9.15	3.12	-
Green peppers	4.22	23.11	3.91	*	*
Red peppers	-	-	-	-	-
Swiss chard	-	-	-	-	-
Root crops	44.97	100	19.82	24.78	*
Beetroot	-	-	-	-	-
Carrot	*	*	-	-	*
Onion	*	*	*	*	-
Potatoes	-	-	-	-	-
Garlic	*	*	*	-	-
Taro/'Godere'	-	-	-	-	-
Sweet potatoes	43.33	96.35	18.97	24.36	-

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

SHINELE ZONE

Crop	All		Rural		Urban
			Production(QT)		Production (QT)
	Production(QT)	%	Meher	Belg	Meher
All	14995.79		14031.14	130.8	833.85
Grain Crops	11104.51	100	10274.61	1.98	827.92
Cereals	11104.51	100	10274.61	1.98	827.92
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	790.16	7.12	787.84	1.98	0.34
Sorghum	10314.36	92.88	9486.78	-	827.58
Finger Millet	-	-	-	-	-
Oats/"Aja"	-	-	-	-	-
Rice	-	-	-	-	-
Pulses	-	-	-	-	-
Horse beans	-	-	-	-	-
Field peas	-	-	-	-	-
Haricot beans	-	-	-	-	-
Chick-peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	-	-	-	-	-
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Sunflower	-	-	-	-	-
Sesame	-	-	-	-	-
Rapeseed	-	-	-	-	-
Vegetables	1790.34	100	1762.91	25.65	*
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	1396.92	78.03	1371.96	24.97	-
Green peppers	393.41	21.97	390.95	*	*
Red peppers	-	-	-	-	-
Swiss chard	-	-	-	-	-
Root crops	2100.95	100	1993.62	103.18	*
Beetroot	-	-	-	-	-
Carrot	*	*	-	-	*
Onion	*	*	*	*	-
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-
Sweet potatoes	1996.6	95.03	1896.87	99.73	-

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

JIJIGA ZONE

Crop	All		Rural		Urban
	Area (HA)	%	Area (HA)		Area (HA)
			Meher	Belg	Meher
All	59096.41		55219.68	2381.06	1495.67
Grain Crops	58311.87	100	54518.04	2308.03	1485.8
Cereals	56913.62	97.6	53149.93	2300.65	1463.04
Teff	*	*	*	-	3.26
Barley	6635.31	11.38	6507.67	*	119.5
Wheat	8510.37	14.59	8353.8	*	150.6
Maize	20652.37	35.42	18043.41	2105.05	503.91
Sorghum	20603.92	35.33	19740.98	*	681.44
Finger Millet	*	*	*	-	-
Oats/"Aja"	436.96	0.75	432.63	-	4.33
Rice	-	-	-	-	-
Pulses	918.54	1.58	889.92	*	21.24
Horse beans	*	*	*	-	-
Field peas	86.93	0.15	*	-	3.31
Haricot beans	250.02	0.43	233.53	*	*
Chick-peas	410.96	0.7	402.13	-	8.83
Lentils	79.79	0.14	79.79	-	-
Vetch	*	*	*	-	-
Soya beans	*	*	*	-	-
Fenugreek	56.86	0.1	56.86	-	-
Gibto	-	-	-	-	-
Oilseeds	479.71	0.82	478.19	-	1.52
Neug	*	*	*	-	-
Linseed	445.52	0.76	445.06	-	*
Groundnuts	*	*	*	-	1.05
Sunflower	-	-	-	-	-
Sesame	-	-	-	-	-
Rapeseed	-	-	-	-	-
Vegetables	57.84	100	54.01	-	3.83
Lettuce	1.03	1.78	*	-	0.95
Head cabbage	*	*	*	-	-
Ethiopian cabbage	*	*	*	-	*
Tomatoes	*	*	*	-	2.37
Green peppers	*	*	*	-	0.35
Red peppers	*	*	*	-	-
Swiss chard	*	*	-	-	0.1
Root crops	726.7	100	647.63	*	6.04
Beetroot	*	*	*	-	-
Carrot	-	-	-	-	-
Onion	271.88	37.41	199.04	*	2.45
Potatoes	47.49	6.54	44.23	*	0.63
Garlic	269.37	37.07	268.83	-	0.54
Taro/'Godere'	-	-	-	-	-
Sweet potatoes	*	*	*	-	2.42

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

JIJIGA ZONE

Crop	All		Rural		Urban
	Production(QT)		Production(QT)		Production (QT)
	Production(QT)	%	Meher	Belg	Meher
All	803977		784581.3	*	11925.94
Grain Crops	705359.1	100	692639.8	1524.62	11194.65
Cereals	697904.5	98.94	685298.6	1524.62	11081.27
Teff	261.17	0.04	*	-	49.96
Barley	58205.78	8.25	57721.28	*	467.72
Wheat	111413.7	15.8	109973.5	*	1438.36
Maize	253042.8	35.87	247546.4	1308.3	4188.17
Sorghum	270996.9	38.42	265891.7	*	4907.56
Finger Millet	-	-	-	-	-
Oats/"Aja"	3984.11	0.56	3954.6	-	29.51
Rice	-	-	-	-	-
Pulses	5465.69	0.77	5358.51	-	107.18
Horse beans	*	*	*	-	-
Field peas	*	*	*	-	5.15
Haricot beans	1259.69	0.18	1218.03	-	*
Chick-peas	2646.51	0.38	*	-	*
Lentils	862.73	0.12	862.73	-	-
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	189.84	0.03	189.84	-	-
Gibto	-	-	-	-	-
Oilseeds	1988.95	0.28	1982.75	-	6.2
Neug	-	-	-	-	-
Linseed	1409.81	0.2	1409.81	-	-
Groundnuts	*	*	*	-	6.2
Sunflower	-	-	-	-	-
Sesame	-	-	-	-	-
Rapeseed	-	-	-	-	-
Vegetables	6637.8	100	*	-	*
Lettuce	*	*	-	-	*
Head cabbage	*	*	*	-	-
Ethiopian cabbage	*	*	*	-	*
Tomatoes	*	*	*	-	*
Green peppers	*	*	*	-	*
Red peppers	-	-	-	-	-
Swiss chard	-	-	-	-	-
Root crops	91980.06	100	85527.85	*	507.11
Beetroot	*	*	*	-	-
Carrot	-	-	-	-	-
Onion	32972.05	35.85	26869.97	*	*
Potatoes	4778.59	5.2	4644.66	*	38.83
Garlic	40463.68	43.99	40324.83	-	138.85
Taro/'Godere'	-	-	-	-	-
Sweet potatoes	*	*	*	-	77.35

SUMMARY TABLE V- 7 AREA UNDER TEMPORARY CROPS BY CROP TYPE FOR PRIVATE PEASANT HOLDINGS

LIBEN ZONE

Crop	All		Rural		Urban
			Area (HA)		Area (HA)
	Area (HA)	%	Meher	Belg	Meher
All	9318.96		3600.97	5506.61	211.38
Grain Crops	9211.98	100	3548.11	5468.24	195.63
Cereals	8201.82	89.03	3077.63	4971.31	152.88
Teff	-	-	-	-	-
Barley	*	*	*	-	-
Wheat	*	*	*	*	0.05
Maize	7489.93	81.31	2741.58	4631.73	116.62
Sorghum	700.31	7.6	331.9	332.2	36.21
Finger Millet	-	-	-	-	-
Oats/"Aja"	-	-	-	-	-
Rice	-	-	-	-	-
Pulses	986.46	10.71	456.95	493.43	36.08
Horse beans	*	*	*	-	-
Field peas	2.42	0.03	2.42	-	-
Haricot beans	974.31	10.58	444.79	493.43	36.08
Chick-peas	*	*	*	-	-
Lentils	*	*	*	-	-
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	*	*	*	*	*
Neug	*	*	*	*	-
Linseed	-	-	-	-	-
Groundnuts	*	*	*	-	-
Sunflower	-	-	-	-	-
Sesame	*	*	*	*	*
Rapeseed	-	-	-	-	-
Vegetables	31.8	100	*	*	5.16
Lettuce	-	-	-	-	-
Head cabbage	*	*	*	-	-
Ethiopian cabbage	*	*	*	*	-
Tomatoes	*	*	*	*	5.16
Green peppers	*	*	*	-	-
Red peppers	-	-	-	-	-
Swiss chard	-	-	-	-	-
Root crops	*	*	*	*	*
Beetroot	-	*	-	-	-
Carrot	-	*	-	-	-
Onion	*	*	*	*	*
Potatoes	-	*	-	-	-
Garlic	-	*	-	-	-
Taro/'Godere'	-	*	-	-	-
Sweet potatoes	*	*	*	*	-

SUMMARY TABLE V- 8 PRODUCTION OF TEMPORARY CROPS BY CROP TYPE FOR PRIVATE PEASANT HOLDINGS

LIBEN ZONE

Crop	All		Rural		Urban
	Production(QT)		Production(QT)		Production (QT)
	Production(QT)	%	Meher	Belg	Meher
All	30808.79		23294.81	4946.25	2567.73
Grain Crops	26833.46	100	20103.61	4413.82	*
Cereals	25112.43	93.59	18788.85	4138.82	*
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	*	*	-	*	0.3
Maize	19535.87	72.8	15113.08	2293.33	*
Sorghum	5564.28	20.74	3675.78	*	55
Finger Millet	-	-	-	-	-
Oats/"Aja"	-	-	-	-	-
Rice	-	-	-	-	-
Pulses	1313.26	4.89	925.08	*	113.46
Horse beans	-	-	-	-	-
Field peas	-	-	-	-	-
Haricot beans	1313.26	4.89	925.08	*	113.46
Chick-peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	*	*	*	*	*
Neug	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Sunflower	-	-	-	-	-
Sesame	*	*	*	*	*
Rapeseed	-	-	-	-	-
Vegetables	*	*	*	*	*
Lettuce	-	*	-	-	-
Head cabbage	-	*	-	-	-
Ethiopian cabbage	*	*	*	-	-
Tomatoes	*	*	*	*	*
Green peppers	-	*	-	-	-
Red peppers	-	*	-	-	-
Swiss chard	-	*	-	-	-
Root crops	607.35	100	*	*	134.6
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	250.26	41.21	-	*	134.6
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro/'Godere'	-	-	-	-	-
Sweet potatoes	*	*	*	-	-

Figure V-1 Area Under Temporary Crops For Private Peasant Holdings

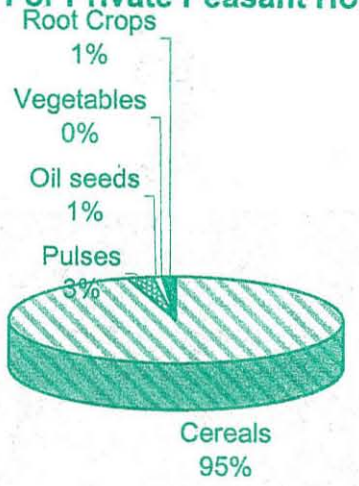


Figure V-2 Production Of Temporary Crops For Private Peasant Holdings

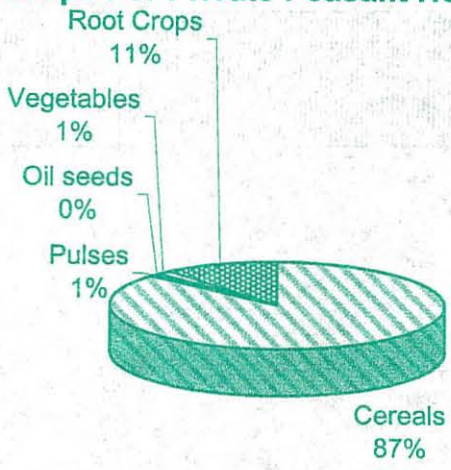
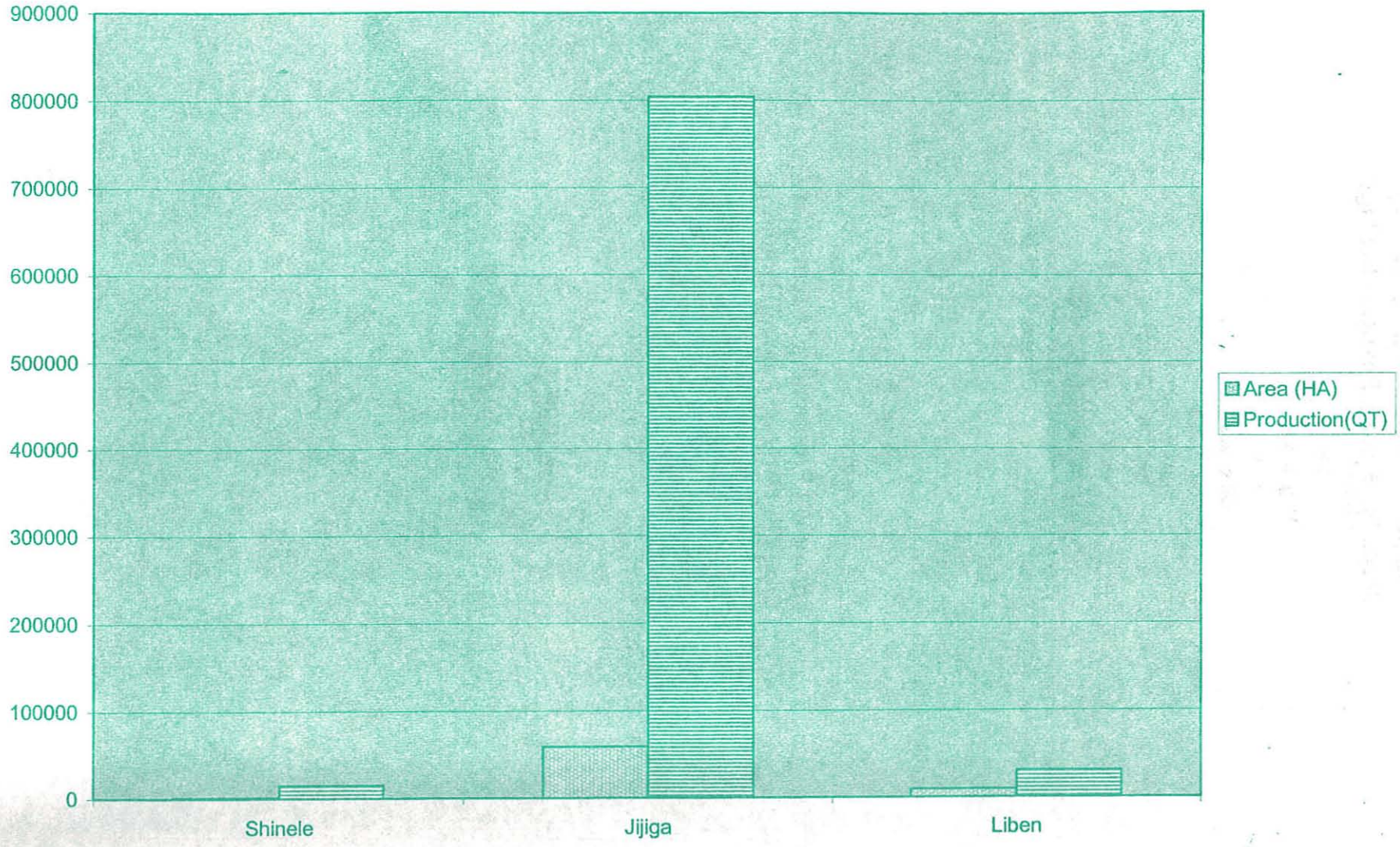


Figure V-3 Area and Production Of Temporary Crops For Private Peasant holdings



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 at 16.5 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 development of 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 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-9 shows in Somali Region about 8.1 thousand hectares of land is under permanent crops in the region. Fruit crops constituted 5.25% of the permanent crop area yielding about 34 thousand quintals of fruits. Bananas, Oranges and Papayas shared 45.08%, 13.04 % and 14.27% of the fruit crop area and bananas and oranges added 53.99% and 27.25% of the fruit production, respectively. Urban agricultural holders added 0.69% to the regional permanent crop area.

In Shinele Zone 288 hectares of land is under permanent crops of which 70.29% is under fruit crops with a recorded production of about 22,119 quintals of fruits. Thus, bananas and oranges took up 47.77% of the zonal area under fruit crop resulting in 50.1% and 41.92% of the fruit crop production, in that order.

In Jijiga zone 7,651 hectares of land is under permanent crops. The cropped area covered by fruit crops in the the zone is negligible.

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-9 shows the situation in which coffee & Hops are found in Somali Region.

The data in the table demonstrates that 94.74% of the regional permanent crop area is under stimulant crops. Of the total area under stimulant crops in the region, 99.62% is that of chat resulting in 99.96% of the volume of stimulant crop production. Chat grown by urban holders accounted for 0.54 % of the stimulant crop area and 0.54% of the production in the region.

In Shinele zone 29.5% of the zonal permanent crop area was under stimulant crops. Of the zonal stimulant crop area 95.13% was under Chat. Chat constituted 96.43% of the production of stimulant crops. Summary Table V-11 indicates that 99.08% of the zonal permanent crop area was under stimulant crops. Of the zonal stimulant crop area 99.67% was under Chat. Chat is the only crop among the stimulant crops in the zone.

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-9 sheds some light on the production of Sugar cane in Somali Region. The result indicates that only insignificant quantity of sugar cane were produced in the zone.

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

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

Somali Region

Crop type	All				Rural		Urban	
	Area in Crop (HA)	%	Production (QT)	%	Area in Crop (HA)	Production (QT)	Area in Crop (HA)	Production (QT)
All	8090.74				8034.85		55.89	
Fruit Crops	424.37	100	34027.77	100	410.07	33977.26	14.3	*
Avocados	-	-	-	-	-	-	-	-
Bananas	191.29	45.08	18371.25	53.99	189.2	18335.17	2.09	*
Guavas	40.48	9.54	189.57	0.56	*	188.61	8.75	*
Lemons	34.69	8.17	1493.22	4.39	34.14	1493.22	0.55	-
Mangoes	42	9.9	*	*	40.04	*	1.96	*
Oranges	55.35	13.04	9272.39	27.25	55.35	9272.39	-	-
Papayas	60.57	14.27	*	*	59.61	*	0.96	-
Pineapples	-	-	-	-	-	-	-	-
Stimulant Crops	7665.27	100	96876.66	100	7623.69	96349.89	41.58	526.77
Chat	7636.19	99.62	96835.93	99.96	7596.23	96309.16	39.96	526.77
Coffee	*	*	40.73	0.04	*	40.73	1.62	-
Hops	*	*	-	-	*	-	-	-
Other Permanent	1.09	100	45.75	100	1.09	45.75	-	-
Sugar cane	1.09	100	45.75	100	1.09	45.75	-	-

SUMMARY TABLE V- 10- AREA AND PRODUCTION OF PERMANENT CROPS BY CROP TYPE FOR PRIVATE PEASANT HOLDINGS

Shinele Zone

Crop type	All				Rural		Urban	
	Area in Crop (HA)	%	Production (QT)	%	Area in Crop (HA)	Production (QT)	Area in Crop (HA)	Production (QT)
All	287.53				286.07		*	
Fruit Crops	202.11	100	22118.72	100	200.65	22118.72	*	-
Avocados	-	-	-	-	-	-	-	-
Bananas	96.54	47.77	11080.83	50.1	96.19	11080.83	*	-
Guavas	2.12	1.05	-	-	2.12	-	-	-
Lemons	31.78	15.72	1459.49	6.6	31.78	1459.49	-	-
Mangoes	18.67	9.24	-	-	17.56	-	*	-
Oranges	48.13	23.81	9272.39	41.92	48.13	9272.39	-	-
Papayas	4.87	2.41	306.01	1.38	4.87	306.01	-	-
Pineapples	-	-	-	-	-	-	-	-
Stimulant Crops	84.82	100	1139.38	100	84.82	1139.38	-	-
Chat	80.69	95.13	1098.65	96.43	80.69	1098.65	-	-
Coffee	4.13	4.87	40.73	3.57	4.13	40.73	-	-
Hops	-	-	-	-	-	-	-	-
Other Permanent	*	*	45.75	100	0.6	45.75	-	-
Sugar cane	*	*	45.75	100	0.6	45.75	-	-

SUMMARY TABLE V- 11- AREA AND PRODUCTION OF PERMANENT CROPS BY CROP TYPE FOR PRIVATE PEASANT HOLDINGS

Jijiga Zone

Crop type	All				Rural		Urban	
	Area in Crop (HA)	%	Production (QT)	%	Area in Crop (HA)	Production (QT)	Area in Crop (HA)	Production (QT)
All	7650.84		*	*	7599.33		51.51	
Fruit Crops	*	*	-	-	*	*	9.93	-
Avocados	-	-	-	-	-	-	-	-
Bananas	*	*	*	*	*	-	0.02	-
Guavas	*	*	-	-	*	*	8.7	-
Lemons	*	*	-	-	*	-	0.43	-
Mangoes	*	*	-	-	*	-	0.47	-
Oranges	*	*	*	*	*	-	-	-
Papayas	24.4	*	-	-	*	*	0.3	-
Pineapples	-	-	-	100	-	-	-	-
Stimulant Crops	7580.45	100	95737.28	100	7538.87	95210.51	41.58	-
Chat	7555.49	99.67	95737.28	-	7515.53	95210.51	39.96	-
Coffee	*	*	-	-	*	-	1.62	-
Hops	*	*	-	-	*	-	-	-
Other Permanent	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-

SUMMARY TABLE V- 12- AREA AND PRODUCTION OF PERMANENT CROPS BY CROP TYPE FOR PRIVATE PEASANT HOLDINGS

Liben Zone

Crop type	All				Rural		Urban	
	Area in Crop (HA)	%	Production (QT)	%	Area in Crop (HA)	Production (QT)	Area in Crop (HA)	Production (QT)
All	*				*		2.92	
Fruit Crops	*	*	*	*	*	*	2.92	*
Avocados	-	-	-	-	-	-	-	-
Bananas	*	*	*	*	*	*	*	*
Guavas	3.95	*	82.54	*	3.9	81.58	*	*
Lemons	*	*	*	*	*	*	*	-
Mangoes	20.75	*	*	*	20.36	*	0.39	*
Oranges	*	*	-	-	*	-	-	-
Papayas	*	*	*	*	*	*	*	-
Pineapples	-	-	-	-	-	-	-	-
Stimulant Crops	*	*	-	-	*	-	-	-
Chat	*	*	-	-	*	-	-	-
Coffee	-	-	-	-	-	-	-	-
Hops	-	-	-	-	-	-	-	-
Other Permanent	*	*	-	-	*	-	-	-
Sugar cane	*	*	-	-	*	-	-	-

Figure V-4 Area Under Permanent Crops

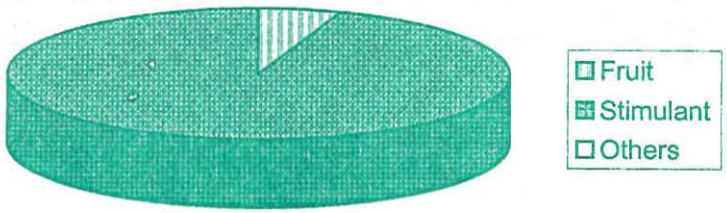


Figure V-5 Prouction Of Permanent Crops

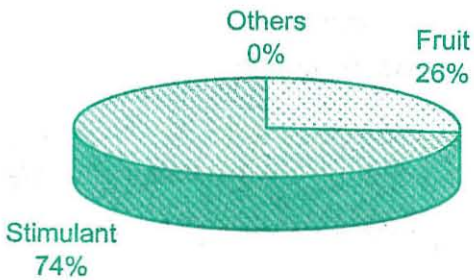
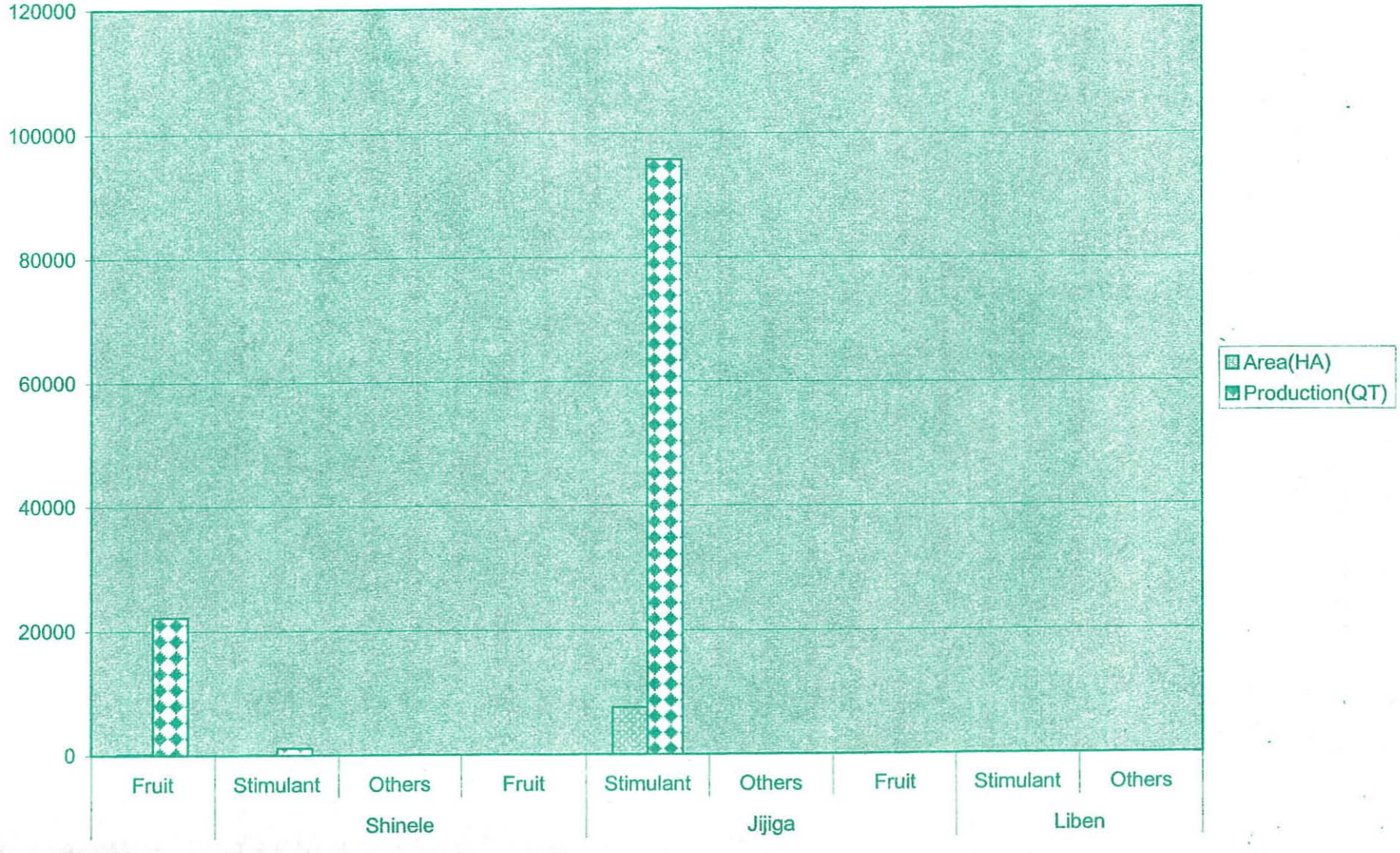


Figure V-6 Area and Production Of Permanent crops



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-13 to V-16 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-13 points out, most of the cereal crops produced were used for household consumption. In Somali Region 70% of the cereals produced were used for household consumption. Similar propoportions that are 14% were used for both sale and seed, respectively. The remaining 2% of the cereals produced was used for other purposes like wages, animal feed, etc. When the utilization is considered by crop type, it is easy to realize that between 24% and 74% of the crops in the cereals group were used for own consumption and between 10% and 65% of these crops were used for sale. Moreover, between 12% and 29% of these crops in the same group were used for seed.

As shown in Summary Table V-13, the data reveal that about 52% of pulses were used for household consumption, 29% were used for sale and 17% for seed.

The remaining 2 % of pulses were used for the purpose of paying wages, animal feed and others. Considering utilization by crop type within the pulses group, between 20% and 90% of the crops were utilized for household consumption and between 12% and 67% of the same crops in the same group were sold in 2001/02 (1994 E.C.). Moreover, between 10% and 24% of these crops in the pulses group were also used for seed in the same year.

As portrayed in Summary Table V-13,the data reveal that about 34%, 34% and 31% were used for household consumption sale and seed, respectively. Taking utilization by crop type into account, between 8% and 54% in the oilseeds category were used for household consumption, between 29% and 74% for sale and 13% and 33% for seed. It may reasonably be summed up that more of the oilseeds produced are used for household consumption.

About 36% and 60% 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 10% and 45% for household consumption, between 45% and 100% for sale, between and 1% and 3% were used for seed. For details, refer to Summary Table V-13.

About 20% of the root crops were used for household consumption, 60% were used for sale and 20% for seed. The ranges of percent utilized by crop type within the root crops category fall between 8% and 85% for consumption, 14% to 86% for sale.

About 28% of the crop was used for consumption at home and about 65% for sale. The utilization by crop type within the permanent crop group ranges between 4% and 66% for household consumption and between 25% and 94% for sale. Permanent crops are also used as cash crops like vegetables.

In Shinele Zone the percent of cereals used were 89% for household consumption, 1% for sale and 7% for seed. Crop utilization in the zone for each crop in the cereal category ranged between 88% and 93% for household consumption, 1% for sale and 7% - 8% for seed.

In Shinele Zone about 62% of the vegetables produced were sold, and about 36% were used for household consumption, and seed, respectively. The utilization of each crop in the vegetable group varied from 60% to 66% for sale, 25% - 39% for household consumption.

The data in Summary Table V-14 shows that most of the root crops produced in the zone were sold. Ablout 80% of the root crops were sold and 18 % used for consumption and 2% for seed. The utilization by crop type within this group fluctuated from 13% to 48% for household consumption, 53% - 84% for sale and between 1and 3% for seed.

Permanent crops formed the second group used as a source of cash after vegetables. As indicated in Summary Table V-14, about 85% of the permanent crops were used for sale and 11% for own consumption. The percent of usage of each permanent crop within the group varied between 60% and 96% for sale and 4% - 26% for consumption at home.

The census result reveals that in Jijiga Zone about 69% of cereals were used for household consumption, 14% for sale and about 14% for seed. The percent of utilization of each crop in the cereal category ranged between 24% and 75% for household consumption, 10% - 65% for sale and 11% - 29% for seed.

Concerning pulses about 49% of the pulses were used for household consumption, 33% for sale and 17% for seed. The percent of utilization by crop type within the pulses category were between 20% - 90% for household consumption, 12% - 67% for sale and 10% - 24% for seed.

As shown in Summary Table V-15, about 34% of the oil seeds were consumed 34% for sale and 31% for seed. The percent utilized by crop type within the oil seed category fall between 32% - 54% for consumption 29% - 35% for sale and 16% - 33% for seed.

As mentioned earlier data on the pattern of crop utilization of vegetables and root crops was collected. The result shows that about 38% of the vegetables grown were used for household consumption and 58% for sale. The percent utilized by crop type in the vegetable category varied from 10% - 59% for household consumption and 30% - 100% for sale in Jijiga Zone.

In Jijiga Zone the data show that about 20% of the root crops were used for household consumption and 20% for seed and 59% for sale. The percent utilized by crop type within the group fluctuated from 8% - 85% for household consumption and 1% - 23% for seed and 14% - 86% for sale.

For Jijiga Zone permanent crops are also second to vegetables as a source of cash as portrayed in Summary Table V-15. Thus,the data indicates that about 28% of permanent crops grown in the zone were used for household consumption and 64% for sale. The percent utilized by crop type within the permanent crops group fall between 28% - 81% for household consumption and 19% - 64% for sale.

The census result reveals that in Liben zone about 64% of cereals were used for household consumption, 11% for sale and about 13% for seed. The percent of

utilization of each crop in the cereal category ranged between 40% and 71% for household consumption, 7 - 50% for sale and 10 - 13% for seed.

Concerning pulses about 67% of these crops were used for household consumption, 11% for sale and 15% for seed. The percent of utilization by crop type within the pulses category were 67% for household consumption, 11% for sale and 15% for seed.

As shown in Summary Table V-16, the data reveals that about 8% of the oil seeds were consumed 74% for sale and 14% for seed. The percent utilized by crop type within the oil seeds category were 8% for consumption 74% for sale and 14% for seed.

As mentioned earlier data on the pattern of crop utilization of vegetables and root crops was collected. The result shows that about 23% of the vegetables grown were used for household consumption and 68% for sale. The proportions of vegetables utilized were 23% for household consumption and 68% for sale and 1% for seed in Liben Zone.

In Liben Zone the data show that about 17% of the root crops were used for household consumption and 76% for sale. The percent utilized by crop type within the group fluctuated from 15% - 56% for household consumption and 4% for seed and 29% - 70% for sale.

For Liben Zone permanent crops are also second to vegetables as a source of cash as portrayed by the data in Summary Table V-16. Thus, about 38% of permanent crops grown in the zone were used for household consumption and 52% for sale. The percent utilized by crop type within the permanent crops group fall between 15% - 54% for household consumption and 29% - 54% for sale.

SUMMARY TABLE V-13 CROP PRODUCTION AND PERCENT OF UTILIZATION ALL HOLDINGS
SOMALI REGION

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	743297.08	69.51	14.13	13.7	0.02	0.81	1.84
Cereals	734121.42	71.02	13.63	12.24	0.37	0.82	1.93
Teff	261.17	24.12	10.89	64.99	-	-	-
Barley	58205.78	59.56	14.9	20.9	0.2	0.49	3.95
Wheat	111426.01	69.69	15.17	12.71	0.62	0.14	1.66
Maize	273368.84	73.93	12.76	9.76	0.24	1.65	1.66
Sorghum	286875.52	74.19	12.1	11.17	0.45	0.39	1.7
Finger millet	-	-	-	-	-	-	-
Oats "Aja"	3984.11	57.69	28.64	12.31	0.3	0.53	0.53
Rice	-	-	-	-	-	-	-
Pulses	6778.97	52.44	16.64	29.36	0.03	1.06	0.47
Horse beans	*	90	10	-	-	-	-
Field peas	*	64.99	15.69	19.24	-	-	0.08
Haricot beans	2572.95	62.33	18.71	16.01	0.06	2.41	0.48
Chick – peas	2646.51	36.87	12.52	50.19	-	-	0.42
Lentils	862.73	63.87	24.46	11.66	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	189.84	19.68	11.81	66.74	-	-	1.77
Gibto	-	-	-	-	-	-	-
Oilseeds	2396.7	34.22	31.01	34.37	0.05	-	0.35
Neug	-	-	-	-	-	-	-
Linseed	1409.81	32.28	32.74	34.58	0.05	-	0.35
Groundnuts	*	54.47	16.42	29.11	-	-	-
Safflower	-	-	-	-	-	-	-
Sesame	*	8.34	13.61	73.7	-	-	4.35
Rapeseed	-	-	-	-	-	-	-
Vegetables	11796.11	35.63	1.05	60.21	0.03	0.01	3.07
Lettuce	*	41.22	-	58.78	-	-	-
Head cabbage	*	10	-	90	-	-	-
Ethiopian cabbage	*	-	-	100	-	-	-
Tomatoes	9845.26	36.58	0.62	60.44	0.04	0.01	2.3
Green peppers	*	45.03	3	44.81	-	-	7.16
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	94688.36	20.24	19.67	59.69	0.05	-	0.36
Beetroot	*	10	-	85.73	-	-	4.27
Carrot	*	47.5	-	52.5	-	-	-
Onion	33322.51	18.19	22.12	59.53	-	-	0.15
Potatoes	4778.59	85.04	1.12	13.84	-	-	-
Garlic	40463.68	7.96	22.51	68.96	0.11	-	0.46
Taro / Godere	-	-	-	-	-	-	-
Sweet potatoes	15531.85	83.37	0.67	13.71	-	0.29	1.97
Permanent crops	130950.19	27.74	0.68	64.85	0.34	0.09	6.3
Avocados	-	-	-	-	-	-	-
Bananas	18371.25	9.55	1.62	85.5	-	-	3.33
Guavas	189.57	66.28	-	25.48	1.51	-	6.74
Lemons	1493.22	6.11	-	93.19	0.55	-	0.15
Mangoes	*	29.92	3.53	54.03	5.93	0.48	6.12
Oranges	9272.39	6.48	2.88	88.97	-	-	1.66
Papaya s	*	53.23	-	43.12	-	1.05	2.6
Pineapples	-	-	-	-	-	-	-
Chat	96835.93	27.87	0.57	64.43	0.19	0.04	6.9
Coffee	40.73	40.4	-	59.6	-	-	-
Hops	-	-	-	-	-	-	-
Sugarcane	45.75	4.3	-	94.27	-	-	1.43

SUMMARY TABLE V-14 CROP PRODUCTION AND PERCENT OF UTILIZATION ALL HOLDINGS
SHINELE ZONE

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	11104.51	88.84	7.43	0.8	-	0.14	2.8
Cereals	11104.51	88.84	7.43	0.58	0.22	0.14	2.8
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	790.16	93.18	6.63	-	-	-	0.2
Sorghum	10314.36	87.71	7.64	0.72	0.28	0.17	3.47
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	1790.34	35.88	1.84	61.57	-	0.03	0.68
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-
Tomatoes	1396.92	39.44	0.01	60.05	-	0.04	0.46
Green peppers	393.41	24.92	7.47	66.24	-	-	1.37
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	2100.95	17.77	2.33	79.9	-	-	-
Beetroot	-	-	-	-	-	-	-
Carrot	*	47.5	-	52.5	-	-	-
Onion	*	13.77	2.64	83.59	-	-	-
Potatoes	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-
Taro / Godere	-	-	-	-	-	-	-
Sweet potatoes	1996.6	43.25	-	53.78	-	-	2.97
Permanent crops	23303.85	10.99	0.53	85.44	-	-	3.04
Avocados	-	-	-	-	-	-	-
Bananas	11080.83	6.58	-	91.61	-	-	1.81
Guavas	-	-	-	-	-	-	-
Lemons	1459.49	3.75	-	96.08	-	-	0.17
Mangoes	-	-	-	-	-	-	-
Oranges	9272.39	6.48	2.88	88.97	-	-	1.66
Papaya s	306.01	7.6	-	91.49	-	-	0.91
Pineapples	-	-	-	-	-	-	-
Chat	1098.65	25.8	-	63.83	-	-	10.37
Coffee	40.73	40.4	-	59.6	-	-	-
Hops	-	-	-	-	-	-	-
Sugarcane	45.75	4.3	-	94.27	-	-	1.43

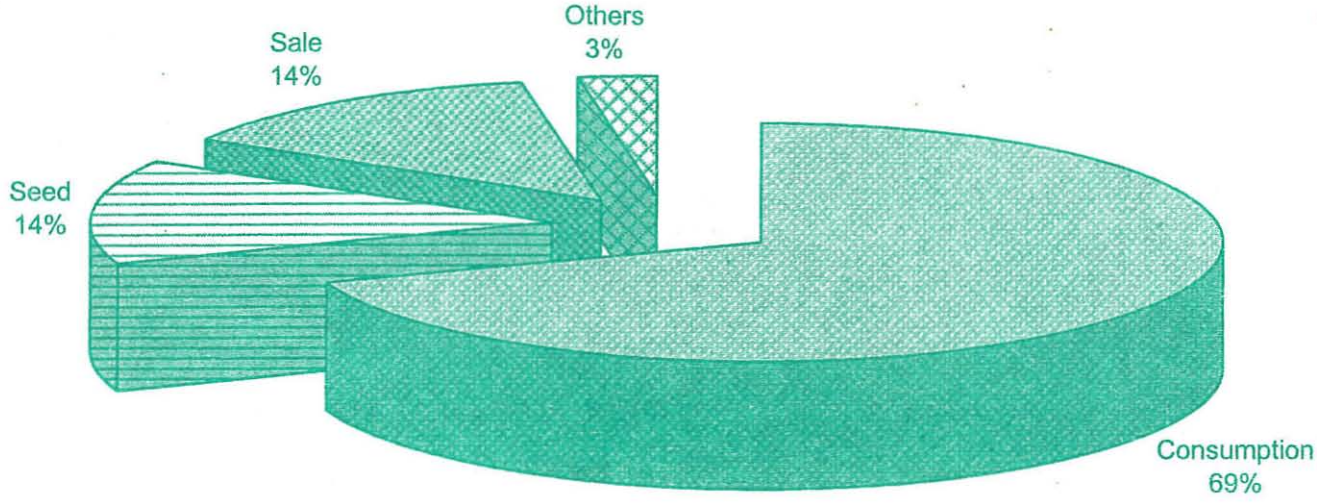
SUMMARY TABLE V-15 CROP PRODUCTION AND PERCENT OF UTILIZATION ALL HOLDINGS
JIJIGA ZONE

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	705359.12	69.44	14.34	14.07	0.01	0.36	1.78
Cereals	697904.47	71.02	13.82	12.56	0.35	0.38	1.87
Teff	261.17	24.12	10.89	64.99	-	-	-
Barley	58205.78	59.56	14.9	20.9	0.2	0.49	3.95
Wheat	111413.73	69.69	15.17	12.71	0.62	0.14	1.66
Maize	253042.82	75.16	12.86	9.72	0.16	0.54	1.55
Sorghum	270996.88	73.56	12.36	11.77	0.46	0.28	1.56
Finger millet	-	-	-	-	-	-	-
Oats "Aja"	3984.11	57.69	28.64	12.31	0.3	0.53	0.53
Rice	-	-	-	-	-	-	-
Pulses	5465.69	49.22	17.06	33.38	-	-	0.34
Horse beans	*	90	10	-	-	-	-
Field peas	*	64.99	15.69	19.24	-	-	0.08
Haricot beans	1259.69	58.96	21.44	19.49	-	-	0.11
Chick – peas	2646.51	36.87	12.52	50.19	-	-	0.42
Lentils	862.73	63.87	24.46	11.66	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	189.84	19.68	11.81	66.74	-	-	1.77
Gibto	-	-	-	-	-	-	-
Oilseeds	1988.95	34.43	31.15	34.05	0.05	-	0.32
Neug	-	-	-	-	-	-	-
Linseed	1409.81	32.28	32.74	34.58	0.05	-	0.35
Groundnuts	*	54.47	16.42	29.11	-	-	-
Safflower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Vegetables	6637.8	38.32	0.51	57.67	-	-	3.5
Lettuce	*	41.22	-	58.78	-	-	-
Head cabbage	*	10	-	90	-	-	-
Ethiopian	*	-	-	100	-	-	-
Tomatoes	*	39.44	0.84	57.99	-	-	1.73
Green peppers	*	58.5	-	30.46	-	-	11.04
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	91980.06	20.29	20	59.34	0.05	-	0.31
Beetroot	*	10	-	85.73	-	-	4.27
Carrot	-	-	-	-	-	-	-
Onion	32972.05	18.32	23.06	58.6	-	-	0.02
Potatoes	4778.59	85.04	1.12	13.84	-	-	-
Garlic	40463.68	7.96	22.51	68.96	0.11	-	0.46
Taro / Godere	-	-	-	-	-	-	-
Sweet potatoes	*	93.78	0.83	3.86	-	-	1.53
Permanent crops	96082.71	28.48	0.58	63.96	0.2	0.04	6.75
Avocados	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-
Guavas	*	78.5	-	21.5	-	-	-
Lemons	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-
Papaya s	*	81.08	-	18.92	-	-	-
Pineapples	-	-	-	-	-	-	-
Chat	95737.28	27.91	0.58	64.45	0.2	0.04	6.83
Coffee	-	-	-	-	-	-	-
Hops	-	-	-	-	-	-	-
Sugarcane	-	-	-	-	-	-	-

SUMMARY TABLE V-16 CROP PRODUCTION AND PERCENT OF UTILIZATION ALL HOLDINGS
LIBEN ZONE

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	26833.46	64.1	12.61	11.44	0.08	9.24	2.52
Cereals	25112.43	63.85	12.29	10.57	0.77	9.77	2.74
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	*	40	10	50	-	-	-
Maize	19535.87	63.1	12.57	10.93	0.85	9.99	2.56
Sorghum	5564.28	70.59	9.84	7.34	0.1	7.79	4.34
Finger millet	-	-	-	-	-	-	-
Oats "Aja"	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulses	1313.26	67.28	14.69	10.9	0.14	5.96	1.03
Horse beans	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	1313.26	67.28	14.69	10.9	0.14	5.96	1.03
Chick – peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oilseeds	*	8.34	13.61	73.7	-	-	4.35
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-
Sesame	*	8.34	13.61	73.7	-	-	4.35
Rapeseed	-	-	-	-	-	-	-
Vegetables	*	23	1.28	67.89	0.21	-	7.61
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Ethiopian	*	-	-	-	-	-	-
Tomatoes	*	23	1.28	67.89	0.21	-	7.61
Green peppers	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	607.35	17.08	1.71	75.65	-	-	5.56
Beetroot	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	250.26	17.08	1.71	75.65	-	-	5.56
Potatoes	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-
Taro / Godere	-	-	-	-	-	-	-
Sweet potatoes	*	36.87	-	52.09	-	5.28	5.77
Permanent crops	*	38.14	1.95	51.88	2.2	0.66	5.17
Avocados	-	-	-	-	-	-	-
Bananas	*	14.52	4.32	75.3	-	-	5.86
Guavas	82.54	56.36	-	28.7	2.73	-	12.21
Lemons	*	25.05	-	70	4.95	-	-
Mangoes	*	29.92	3.53	54.03	5.93	0.48	6.12
Oranges	-	-	-	-	-	-	-
Papaya s	*	54.21	-	41.33	-	1.31	3.15
Pineapples	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-
Hops	-	-	-	-	-	-	-
Sugarcane	-	-	-	-	-	-	-

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

Somali Region

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	81058	59668.44		821907.3		
Grain Crops	80771	58880.85	100	723018.1	100	
Cereals	80265	57040.6	96.87	714362.1	98.8	
Teff	260	*	*	*	*	*
Barley	22004	6511.81	11.06	57721.28	7.98	8.86
Wheat	28926	8353.8	14.19	109973.5	15.21	13.16
Maize	64766	20846.55	35.4	263447.3	36.44	12.64
Sorghum	51192	20824.36	35.37	279054.3	38.6	13.4
Finger Millet	*	*	*	-	-	-
Oats / "Aja"	5358	432.63	0.73	3954.6	0.55	9.14
Rice	-	-	-	-	-	-
Pulses	13207	1346.86	2.29	6283.6	0.87	
Horse beans	*	*	*	*	*	*
Field peas	948	86.04	0.15	*	*	*
Haricot beans	7269	678.33	1.15	2143.11	0.3	3.16
Chick – peas	3656	406.93	0.69	*	*	*
Lentils	849	83.71	0.14	862.73	0.12	10.31
Vetch	*	*	*	-	-	-
Soya beans	*	*	*	-	-	-
Fenugreek	1702	56.86	0.1	189.84	0.03	3.34
Gibto.	-	-	-	-	-	-
Oilseeds	6482	493.38	0.84	2372.42	0.33	
Neug.	*	*	*	-	-	-
Linseed	5625	445.06	0.76	1409.81	0.2	3.17
Groundnuts	*	*	*	*	*	*
Sunflower	-	-	-	-	-	-
Sesame	52	*	*	*	*	*
Rapeseed	-	-	-	-	-	-
Vegetables	1651	90.56	100	11010.63	100	
Lettuce	*	*	*	-	-	-
Head cabbage	*	*	*	*	*	*
Ethiopian cabbage	*	*	*	*	*	*
Tomatoes	1054	60.42	66.72	9063.38	82.31	150.01
Green peppers	355	13.12	14.49	*	*	*
Red peppers	*	*	*	-	-	-
Swiss chard	-	-	-	-	-	-
Root Crops	10375	697.04	100	87878.57	100	
Beetroot	*	*	*	*	*	*
Carrot	-	-	-	-	-	-
Onion	3947	225.76	32.39	26966.71	30.69	119.45
Potatoes	1383	44.23	6.35	4644.66	5.29	105.01
Garlic	4707	268.97	38.59	40324.83	45.89	149.92
Taro / "Godere"	-	-	-	-	-	-
Sweet po	2166	153.55	22.03	15354.78	17.47	100

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

RURAL HOLDINGS

Shinele Zone

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	81058	59668.44		821907.3		
Grain Crops	80771	58880.85	100	723018.1	100	
Cereals	80265	57040.6	96.87	714362.1	98.8	
Teff	260	*	*	*	*	*
Barley	22004	6511.81	11.06	57721.28	7.98	8.86
Wheat	28926	8353.8	14.19	109973.5	15.21	13.16
Maize	64766	20846.55	35.4	263447.3	36.44	12.64
Sorghum	51192	20824.36	35.37	279054.3	38.6	13.4
Finger Millet	*	*	*	-	-	-
Oats / "Aja"	5358	432.63	0.73	3954.6	0.55	9.14
Rice	-	-	-	-	-	-
Pulses	13207	1346.86	2.29	6283.6	0.87	
Horse beans	*	*	*	*	*	*
Field peas	948	86.04	0.15	*	*	*
Haricot beans	7269	678.33	1.15	2143.11	0.3	3.16
Chick – peas	3656	406.93	0.69	*	*	*
Lentils	849	83.71	0.14	862.73	0.12	10.31
Vetch	*	*	*	-	-	-
Soya beans	*	*	*	-	-	-
Fenugreek	1702	56.86	0.1	189.84	0.03	3.34
Gibto	-	-	-	-	-	-
Oilseeds	6482	493.38	0.84	2372.42	0.33	
Neug	*	*	*	-	-	-
Linseed	5625	445.06	0.76	1409.81	0.2	3.17
Groundnuts	*	*	*	*	*	*
Safflower	-	-	-	-	-	-
Sesame	52	*	*	*	*	*
Rapeseed	-	-	-	-	-	-
Vegetables	1651	90.56	100	11010.63	100	
Lettuce	*	*	*	-	-	-
Head cabbage	*	*	*	*	*	*
Ethiopian cabbage	*	*	*	*	*	*
Tomatoes	1054	60.42	66.72	9063.38	82.31	150.01
Green peppers	355	13.12	14.49	*	*	*
Red peppers	*	*	*	-	-	-
Swiss chard	-	-	-	-	-	-
Root Crops	10375	697.04	100	87878.57	100	
Beetroot	*	*	*	*	*	*
Carrot	-	-	-	-	-	-
Onion	3947	225.76	32.39	26966.71	30.69	119.45
Potatoes	1383	44.23	6.35	4644.66	5.29	105.01
Garlic	4707	268.97	38.59	40324.83	45.89	149.92
Taro / "Godere"	-	-	-	-	-	-
Sweet potatoes	2166	153.55	22.03	15354.78	17.47	100

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

RURAL HOLDINGS

Jijiga Zone

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	69734	55219.68		784581.3		
Grain Crops	69601	54518.04	100	692639.8	100	
Cereals	69566	53149.93	97.49	685298.6	98.94	
Teff	260	*	*	*	*	*
Barley	21996	6507.67	11.94	57721.28	8.33	8.87
Wheat	28922	8353.8	15.32	109973.5	15.88	13.16
Maize	56197	18043.41	33.1	247546.4	35.74	13.72
Sorghum	47616	19740.98	36.21	265891.7	38.39	13.47
Finger Millet	*	*	*	-	-	-
Oats / "Aja"	5358	432.63	0.79	3954.6	0.57	9.14
Rice	-	-	-	-	-	-
Pulses	9386	889.92	1.63	5358.51	0.77	
Horse beans	*	*	*	*	*	*
Field peas	879	*	*	*	*	*
Haricot beans	3479	233.53	0.43	1218.03	0.18	5.22
Chick – peas	3630	402.13	0.74	*	*	*
Lentils	806	79.79	0.15	862.73	0.12	10.81
Vetch	*	*	*	-	-	-
Soya beans	*	*	*	-	-	-
Fenugreek	1702	56.86	0.1	189.84	0.03	3.34
Gibto	-	-	-	-	-	-
Oilseeds	6413	478.19	0.88	1982.75	0.29	
Neug	*	*	*	-	-	-
Linseed	5625	445.06	0.82	1409.81	0.2	3.17
Groundnuts	*	*	*	*	*	*
Safflower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Vegetables	1052	54.01	100	*	*	
Lettuce	*	*	*	-	*	-
Head cabbage	*	*	*	*	*	*
Ethiopian cabbage	*	*	*	*	*	*
Tomatoes	*	*	*	*	*	*
Green peppers	219	*	*	*	*	*
Red peppers	*	*	*	-	*	-
Swiss chard	-	-	-	-	*	-
Root Crops	9771	647.63	100	85527.85	100	
Beetroot	*	*	*	*	*	*
Carrot	-	-	-	-	-	-
Onion	3721	199.04	30.73	26869.97	31.42	135
Potatoes	1383	44.23	6.83	4644.66	5.43	105.01
Garlic	4696	268.83	41.51	40324.83	47.15	150
Taro / "Godere"	-	-	-	-	-	-
Sweet potatoes	1751	*	*	*	*	*

TABLE 5.1.3 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR MEHER SEASON

RURAL HOLDINGS

Liben Zone

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	8809	3600.97		23294.81		
Grain Crops	8719	3548.11	100	20103.61	100	
Cereals	8248	3077.63	86.74	18788.85	93.46	
Teff	-	-	-	-	-	-
Barley	*	*	*	-	-	-
Wheat	*	*	*	-	-	-
Maize	7765	2741.58	77.27	15113.08	75.18	5.51
Sorghum	1268	331.9	9.35	3675.78	18.28	11.07
Finger Millet	-	-	-	-	-	-
Oats / "Aja"	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	3809	456.95	12.88	925.08	4.6	
Horse beans	*	*	*	-	-	-
Field peas	69	2.42	0.07	-	-	-
Haricot beans	3778	444.79	12.54	925.08	4.6	2.08
Chick – peas	*	*	*	-	-	-
Lentils	43	*	*	-	-	-
Vetch	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	52	*	*	*	*	
Neug	*	*	*	-	-	-
Linseed	-	-	-	-	-	-
Groundnuts	*	*	*	-	-	-
Safflower	-	-	-	-	-	-
Sesame	*	*	*	*	*	*
Rapeseed	-	-	-	-	-	-
Vegetables	217	*	*	*	*	
Lettuce	-	-	*	-	*	-
Head cabbage	*	*	*	-	*	-
Ethiopian cabbage	*	*	*	*	*	*
Tomatoes	181	*	*	*	*	*
Green peppers	*	*	*	-	*	-
Red peppers	-	-	*	-	*	-
Swiss chard	-	-	*	-	*	-
Root Crops	*	*	*	*	*	
Beetroot	-	-	*	-	*	-
Carrot	-	-	*	-	*	-
Onion	175	*	*	-	*	-
Potatoes	-	-	*	-	*	-
Garlic	-	-	*	-	*	-
Taro / "Godere"	-	-	*	-	*	-
Sweet potatoes	*	*	*	*	*	*

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
Somali.	81058	59668.44	821907.3
Shinele	2514	847.79	14031.14
Shinele . . .	560	160.86	966.98
Erer.	1954	686.93	13064.16
Jijiga.	69734	55219.68	784581.3
Jijiga. . . .	35535	27328.29	464098.6
Teferi Ber. .	19697	15889.34	128646.2
Kebri Beyah .	14503	12002.05	191836.5
Liben	8809	3600.97	23294.81
Filtu	2220	1606.33	2254.36
Dolo Odo. . .	2982	1094.41	19358.91
Moyale. . . .	3608	900.23	1681.54

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
Somali.	80771	58880.85	723018.1
Shinele	2451	814.7	10274.61
Shinele . . .	560	160.23	904.19
Erer.	1891	654.46	9370.42
Jijiga.	69601	54518.04	692639.8
Jijiga. . . .	35426	26678.51	379131.9
Teferi Ber. .	19673	15886.62	128270.8
Kebri Beyah .	14503	11952.91	185237.2
Liben	8719	3548.11	20103.61
Filtu	2220	1606.33	2254.36
Dolo Odo. . .	2908	1044.91	16186.67
Moyale. . . .	3591	896.87	1662.58

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
Somali.	80265	57040.6	714362.1
Shinele	2451	813.04	10274.61
Shinele . . .	560	160.23	904.19
Erer.	1891	652.81	9370.42
Jijiga.	69566	53149.93	685298.6
Jijiga. . . .	35391	25578.84	372695
Teferi Ber. .	19673	15715.7	127867.4
Kebri Beyah .	14503	11855.39	184736.2
Liben	8248	3077.63	18788.85
Filtu	2201	1510.17	2195.33
Dolo Odo. . .	2868	979.73	15053.36
Moyale. . . .	3179	587.72	1540.17

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	*	*
Somali.	80265	57040.6	714362.1	12.52
Shinele	2451	813.04	10274.61	12.64
Shinele . . .	560	160.23	904.19	5.64
Erer.	1891	652.81	9370.42	14.35
Jijiga.	69566	53149.93	685298.6	12.89
Jijiga. . . .	35391	25578.84	372695	14.57
Teferi Ber. .	19673	15715.7	127867.4	8.14
Kebri Beyah .	14503	11855.39	184736.2	15.58
Liben	8248	3077.63	18788.85	6.1
Filtu	2201	1510.17	2195.33	1.45
Dolo Odo. . .	2868	979.73	15053.36	15.36

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
Somali.	22004	6511.81	57721.28	8.86
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	21996	6507.67	57721.28	8.87
Jijiga. . . .	14615	4028.18	42815.61	10.63
Teferi Ber. .	6241	2282.08	11858.3	5.2
Kebri Beyah .	1141	*	*	*
Liben	*	*	-	-
Filtu	*	*	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	28926	8353.8	109973.5	13.16
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	28922	8353.8	109973.5	13.16
Jijiga. . . .	21592	5614.56	87193.94	15.53
Teferi Ber. .	5161	2032.84	14061.27	6.92
Kebri Beyah .	2169	706.41	*	*
Liben	*	*	-	-
Filtu	*	*	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	64766	20846.55	263447.3	12.64
Shinele	804	61.56	787.84	12.8
Shinele . . .	90	*	*	*
Erer.	715	55.59	718.56	12.93
Jijiga.	56197	18043.41	247546.4	13.72
Jijiga. . . .	26966	6247.2	91901.81	14.71
Teferi Ber. .	15566	4171.93	32884.91	7.88
Kebri Beyah .	13664	7624.28	122759.6	16.1
Liben	7765	2741.58	15113.08	5.51
Filtu	2028	1351.21	678.06	0.5
Dolo Odo. . .	2571	820.17	13066.52	15.93
Moyale. . . .	3166	570.21	1368.5	2.4

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
Somali.	51192	20824.36	279054.3	13.4
Shinele	2309	751.48	9486.78	12.62
Shinele . . .	556	154.26	834.91	5.41
Erer.	1753	597.22	8651.87	14.49
Jijiga.	47616	19740.98	265891.7	13.47
Jijiga. . . .	25786	9275.75	147105.3	15.86
Teferi Ber. .	16275	7139.3	68575.4	9.61
Kebri Beyah .	5554	3325.94	50210.97	15.1
Liben	1268	331.9	3675.78	11.07
Filtu	273	154.82	1517.27	9.8
Dolo Odo. . .	812	159.56	1986.84	12.45
Moyale. . . .	183	*	*	*

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
Somali.	*	*	-	-
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	-	-
Jijiga. . . .	-	-	-	-
Teferi Ber. .	*	*	-	-
Kebri Beyah .	*	*	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	5358	432.63	3954.6	9.14
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	5358	432.63	3954.6	9.14
Jijiga. . . .	4610	363.35	3467.06	9.54
Teferi Ber. .	748	69.28	487.54	7.04
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	13207	1346.86	6283.6
Shinele	*	*	-
Shinele . . .	-	-	-
Erer.	*	*	-
Jijiga.	9386	889.92	5358.51
Jijiga. . . .	7302	634.31	4476.66
Teferi Ber. .	1228	158.08	380.89
Kebri Beyah .	857	97.52	500.96
Liben	3809	456.95	925.08
Filtu	446	95.63	54.32
Dolo Odo. . .	651	52.19	748.35
Moyale. . . .	2713	309.13	122.41

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
Somali.	*	*	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	*	*
Jijiga. . . .	*	*	*	*
Teferi Ber. .	*	*	*	*
Kebri Beyah .	-	-	-	-
Liben	*	*	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	*	*	-	-

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
Somali.	948	86.04	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	879	*	*	*
Jijiga. . . .	517	*	*	*
Teferi Ber. .	324	12.79	14.88	1.16
Kebri Beyah .	*	*	*	*
Liben	69	2.42	-	-
Filtu	*	*	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	*	2.08	-	-

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
Somali.	7269	678.33	2143.11	3.16
Shinele	*	*	-	-
Shinele . . .	-	-	-	-
Erer.	*	*	-	-
Jijiga.	3479	233.53	1218.03	5.22
Jijiga. . . .	2520	133.82	713.39	5.33
Teferi Ber. .	*	*	*	*
Kebri Beyah .	771	92.22	476.18	5.16
Liben	3778	444.79	925.08	2.08
Filtu	423	86.57	54.32	0.63
Dolo Odo. . .	651	52.19	748.35	14.34
Moyale. . . .	2704	306.03	122.41	0.4

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
Somali.	3656	406.93	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	3630	402.13	*	*
Jijiga. . . .	2769	269.7	*	*
Teferi Ber. .	790	128.83	*	*
Kebri Beyah .	*	*	*	*
Liben	*	*	-	-
Filtu	*	*	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	849	83.71	862.73	10.31
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	806	79.79	862.73	10.81
Jijiga. . . .	806	79.79	862.73	10.81
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben :	43	*	-	-
Filtu	43	*	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	*	*	-	-
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	-	-
Jijiga. . . .	*	*	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	*	*	-	-
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	-	-
Jijiga. . . .	*	*	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Sómali.	1702	56.86	189.84	3.34
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	1702	56.86	189.84	3.34
Jijiga. . . .	1586	53.67	182.18	3.39
Teferi Ber. .	*	*	*	*
Kebri Beyah	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	6482	493.38	2372.42
Shinele	*	*	-
Shinele . . .	-	-	-
Erer.	*	*	-
Jijiga.	6413	478.19	1982.75
Jijiga. . . .	6097	465.36	1960.25
Teferi Ber. .	316	*	22.5
Kebri Beyah .	-	-	-
Liben	52	*	*
Filtu	*	*	*
Dolo Odo. . .	*	*	*
Moyale. . . .	*	*	-

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
Somali.	*	*	-	-
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	-	-
Jijiga. . . .	*	*	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	*	*	-	-
Filtu	-	-	-	-
Dolo Odo. . .	*	*	-	-
Moyale. . . .	-	-	-	-

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
Somali.	5625	445.06	1409.81	3.17
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	5625	445.06	1409.81	3.17
Jijiga. . . .	5308	432.23	1387.31	3.21
Teferi Ber. .	316	*	22.5	*
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	*	*	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	*	*
Jijiga. . . .	*	*	*	*
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	*	*	-	-
Filtu	*	*	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	*	*	-	-

TABLE D - 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
Somali.	52	*	*	*
Shinele	*	*	-	-
Shinele . . .	-	-	-	-
Erer.	*	*	-	-
Jijiga.	-	-	-	-
Jijiga. . . .	-	-	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	*	*	*	*
Filtu	*	*	*	*
Dolo Odo. . .	*	*	*	*
Moyale. . . .	-	-	-	-

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
Somali.	1651	90.56	11010.63
Shinele	383	13.27	1762.91
Shinele . . .	-	-	-
Erer.	383	13.27	1762.91
Jijiga.	1052	54.01	*
Jijiga. . . .	829	21.54	*
Teferi Ber. .	*	*	*
Kebri Beyah .	182	*	*
Liben	217	*	*
Filtu	-	-	-
Dolo Odo. . .	197	*	*
Moyale. . . .	*	*	*

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

RURAL HOLDINGS

LETTUCE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	*	*	-	-
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	-	-
Jijiga. . . .	*	*	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

TABLE B - 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
Somali.	*	*	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	*	*
Jijiga. . . .	*	*	*	*
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	*	*	-	-
Filtu	-	-	-	-
Dolo Odo. . .	*	*	-	-
Moyale. . . .	*	*	-	-

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

RURAL HOLDINGS

ETHIOPIAN CABAGE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	*	*	*	*
Shinele	*	*	-	-
Shinele . . .	-	-	-	-
Erer.	*	*	-	-
Jijiga.	*	*	*	*
Jijiga. . . .	*	*	*	*
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	*	*	*	*
Filtu	-	-	-	-
Dolo Odo. . .	*	*	*	*
Moyale. . . .	-	-	-	-

TABLE D- 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
Somali.	1054	60.42	9063.38	150.01
Shinele	348	9.15	1371.96	149.94
Shinele . . .	-	-	-	-
Erer.	348	9.15	1371.96	149.94
Jijiga.	*	*	*	*
Jijiga. . . .	*	*	*	*
Teferi Ber. .	*	*	*	*
Kebri Beyah .	*	*	*	*
Liben	181	*	*	*
Filtu	-	-	-	-
Dolo Odo. . .	173	*	*	*
Moyale. . . .	*	*	*	*

TABLE E - 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
Somali.	355	13.12	*	*
Shinele	101	3.91	390.95	99.99
Shinele . . .	-	-	-	-
Erer.	101	3.91	390.95	99.99
Jijiga.	219	*	*	*
Jijiga. . . .	*	*	*	*
Teferi Ber. .	-	-	-	-
Kebri Beyah .	*	*	*	*
Liben	*	*	-	-
Filtu	-	-	-	-
Dolo Odo. . .	*	*	-	-
Moyale. . . .	-	-	-	-

TABLE F - 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
Somali.	*	*	-	-
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	-	-
Jijiga. . . .	*	*	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	*	*	-
Shinele	-	-	-
Shinele . . .	-	-	-
Erer.	-	-	-
Jijiga.	*	*	-
Jijiga. . . .	*	*	-
Teferi Ber. .	-	-	-
Kebri Beyah .	-	-	-
Liben	-	-	-
Filtu	-	-	-
Dolo Odo. . .	-	-	-
Moyale. . . .	-	-	-

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
Somali.	*	*	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	*	*
Jijiga. . . .	*	*	*	*
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

TABLE B - 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
Somali.	3947	225.76	26966.71	119.45
Shinele	51	*	*	*
Shinele . . .	-	-	-	-
Erer.	51	*	*	*
Jijiga.	3721	199.04	26869.97	135
Jijiga. . . .	3602	184.59	24920.22	135
Teferi Ber. .	*	*	*	*
Kebri Beyah .	*	*	*	*
Liben	175	*	-	-
Filtu	-	-	-	-
Dolo Odo. . .	175	*	-	-
Moyale. . . .	-	-	-	-

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

RURAL HOLDINGS

POTATOES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	1383	44.23	4644.66	105.01
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	1383	44.23	4644.66	105.01
Jijiga. . . .	1333	41.45	4352.78	105.01
Teferi Ber. .	*	*	*	*
Kebri Beyah .	*	*	*	*
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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

RURAL HOLDINGS

GARLIC

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	4707	268.97	40324.83	149.92
Shinele	*	*	-	-
Shinele . . .	-	-	-	-
Erer.	*	*	-	-
Jijiga.	4696	268.83	40324.83	150
Jijiga. . . .	4666	268.42	40262.61	150
Teferi Ber. .	*	*	*	*
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

TABLE E - 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
Somali.	2166	153.55	15354.78	100
Shinele	294	18.97	1896.87	99.99
Shinele . . .	*	*	*	*
Erer.	287	18.34	1834.08	100
Jijiga.	1751	*	*	*
Jijiga. . . .	1731	*	*	*
Teferi Ber. .	-	-	-	-
Kebri Beyah .	*	*	*	*
Liben	*	*	*	*
Filtu	-	-	-	-
Dolo Odo. . .	*	*	*	*
Moyale. . . .	*	*	*	*

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

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

SOMALI Region

Crop	Holders	Area Hectares	%	Quintals	%	Production Yield QT/HA
TOTAL	16769	8011.66		*		
Grain Crop	16568	7870.68	100	5940.42	100	
Cereals	16389	7366.37	93.59	5665.42	95.37	
Teff	-	-	-	-	-	-
Barley	*	*	*	*	*	*
Wheat	109	13.34	0.17	13.9	0.23	1.04
Maize	15757	6829.82	86.78	3603.62	60.66	0.53
Sorghum	2001	515.07	6.54	*	*	*
Finger Millet	-	-	-	-	-	-
Oats/'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	3864	500.81	6.36	*	*	
Horse beans	-	-	-	-	-	-
Field peas	-	-	-	-	-	-
Haricot beans	3864	500.81	6.36	*	*	*
Chick-peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya bean	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	*	*	*	*	*	
Neug	*	*	*	-	-	-
Linseed	-	-	-	-	-	-
Groundnut	-	-	-	-	-	-
Sunflower	-	-	-	-	-	-
Sesame	*	*	*	*	*	*
Rapeseed	-	-	-	-	-	-
Vegetables	171	8.17	100	*	*	
Lettuce	-	-	-	-	*	-
Head Cabbage	*	*	*	-	*	-
Ethiopian	*	*	*	-	*	-
Tomatoes	155	6.48	79.31	*	*	*
Green pepper	*	*	*	*	*	*
Red pepper	-	-	-	-	*	-
Swiss chan	-	-	-	-	*	-
Root crops	670	*	*	*	*	
Beetroot	-	-	*	-	*	-
Carrot	-	-	*	-	*	-
Onion	*	*	*	*	*	*
Potatoes	*	*	*	*	*	*
Garlic	-	-	*	-	*	-
Taro/Godere	-	-	*	-	*	-
Sweet potatoes	234	26	*	99.73	*	3.84

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

RURAL HOLDINGS

SHINELE ZONE

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	708	123.99		130.8		
Grain Crops	587	94.41	100	1.98	100	
Cereals	587	94.41	100	1.98	100	
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	587	93.04	98.55	1.98	100	0.02
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	120	4.8	100	25.65	100	
Lettuce	-	-	-	-	-	-
Head cabbage	*	*	*	-	-	-
Ethiopian cabbage	-	-	-	-	-	-
Tomatoes	112	3.12	65	24.97	97.35	8
Green peppers	*	*	*	*	*	*
Red peppers	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-
Root Crops	183	24.78	100	103.18	100	
Beetroot	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onion	*	*	*	*	*	*
Potatoes	-	-	-	-	-	-
Garlic	-	-	-	-	-	-
Taro / 'Godere'	-	-	-	-	-	-
Sweet potatoes	170	24.36	98.31	99.73	96.66	4.09

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

RURAL HOLDINGS

JIJIGA ZONE

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	4604	2381.06		*		
Grain Crops	4604	2308.03	100	1524.62	100	
Cereals	4604	2300.65	99.68	1524.62	100	
Teff	-	-	-	-	-	-
Barley	*	*	*	*	*	*
Wheat	*	*	*	*	*	*
Maize	4448	2105.05	91.21	1308.3	85.81	0.62
Sorghum	776	*	*	*	*	*
Finger Millet	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	*	*	*	-	-	
Horse beans	-	-	-	-	-	-
Field peas	-	-	-	-	-	-
Haricot beans	*	*	*	-	-	-
Chick – peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-
Sunflower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Vegetables	-	-	-	-	-	
Lettuce	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-
Root Crops	*	*	*	*	*	
Beetroot	-	-	*	-	*	-
Carrot	-	-	*	-	*	-
Onion	*	*	*	*	*	*
Potatoes	*	*	*	*	*	*
Garlic	-	-	*	-	*	-
Taro / 'Godere'	-	-	*	-	*	-
Sweet potatoes	-	-	*	-	*	-

TABLE 5.3.3 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BELG SEASON

RURAL HOLDINGS

LIBEN ZONE

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	11457	5506.61		4946.25		
Grain Crops	11377	5468.24	100	4413.82	100	
Cereals	11198	4971.31	90.91	4138.82	93.77	
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	54	*	*	*	*	*
Maize	10722	4631.73	84.7	2293.33	51.96	0.5
Sorghum	1209	332.2	6.08	*	*	*
Finger Millet	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	3831	493.43	9.02	*	*	
Horse beans	-	-	-	-	-	-
Field peas	-	-	-	-	-	-
Haricot beans	3831	493.43	9.02	*	*	*
Chick – peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	*	*	*	*	*	
Neug	*	*	*	-	-	-
Linseed	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-
Safflower	-	-	-	-	-	-
Sesame	*	*	*	*	*	*
Rapeseed	-	-	-	-	-	-
Vegetables	51	*	*	*	*	
Lettuce	-	-	*	-	*	-
Head cabbage	-	-	*	-	*	-
Ethiopian cabbage	*	*	*	-	*	-
Tomatoes	*	*	*	*	*	*
Green peppers	-	-	*	-	*	-
Red peppers	-	-	*	-	*	-
Swiss chard	-	-	*	-	*	-
Root Crops	139	*	*	*	*	
Beetroot	-	-	*	-	*	-
Carrot	-	-	*	-	*	-
Onion	103	*	*	*	*	*
Potatoes	-	-	*	-	*	-
Garlic	-	-	*	-	*	-
Taro / 'Godere'	-	-	*	-	*	-
Sweet potatoes	*	*	*	-	*	-

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

RURAL HOLDINGS

TEMPORARY CROPS

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Somali.	16769	8011.66	-
Shinele	708	123.99	130.8
Shinele . . .	*	-	-
Erer.	610	112.47	130.36
Jijiga.	4604	2381.06	-
Jijiga. . . .	*	-	-
Teferi Ber. .	1117	371.57	-
Kebri Beyah .	1840	1362.62	706.34
Liben	11457	5506.61	4946.25
Filtu	1794	1383.2	-
Dolo Odo. . .	3386	1493.78	-
Moyale. . . .	6276	2629.62	1935.78

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
Somali.	16568	7870.68	5940.42
Shinele	587	94.41	1.98
Shinele . . .	*	*	*
Erer.	489	82.88	1.53
Jijiga.	4604	2308.03	1524.62
Jijiga. . . .	*	*	*
Teferi Ber. .	1117	371.57	*
Kebri Beyah .	1840	1362.62	706.34
Liben	11377	5468.24	4413.82
Filtu , . . .	1794	1383.2	*
Dolo Odo. . .	3307	1455.43	*
Moyale. . . .	6276	2629.61	1935.78

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

RURAL HOLDINGS

CEREALS

Geographic Area	Number of Holders	Area Hectares	Production Quintals
Somali.	16389	7366.37	5665.42
Shinele	587	94.41	1.98
Shinele . . .	*	*	*
Erer.	489	82.88	1.53
Jijiga.	4604	2300.65	1524.62
Jijiga. . . .	*	*	*
Teferi Ber. .	1117	371.57	*
Kebri Beyah .	1840	1355.24	706.34
Liben	11198	4971.31	4138.82
Filtu	1792	1296.86	*
Dolo Odo. . .	3307	1356.44	*
Moyale. . . .	6100	2318.02	1856.11

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

RURAL HOLDINGS

BARLEY

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	*	*	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	*	*
Jijiga. . . .	-	-	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	*	*	*	*
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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

RURAL HOLDINGS

WHEAT

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	109	13.34	13.9	1.04
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	*	*
Jijiga. . . .	-	-	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	*	*	*	*
Liben	54	*	*	*
Filtu	*	*	*	*
Dolo Odo. . .	-	-	-	-
Moyale. . . .	*	*	*	*

TABLE D - 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
Somali.	15757	6829.82	3603.62	0.53
Shinele	587	93.04	1.98	0.02
Shinele . . .	*	*	*	*
Erer.	489	81.52	1.53	0.02
Jijiga.	4448	2105.05	1308.3	0.62
Jijiga. . . .	*	*	*	*
Teferi Ber. .	*	*	*	*
Kebri Beyah .	1825	1339.57	686.69	0.51
Liben	10722	4631.73	2293.33	0.5
Filtu	1782	1282.04	15.9	0.01
Dolo Odo. . .	2841	1052.18	429.89	0.41
Moyale. . . .	6100	2297.51	1847.55	0.8

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

RURAL HOLDINGS

SORGHUM

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	2001	515.07	*	*
Shinele	*	*	-	-
Shinele . . .	-	-	-	-
Erer.	*	*	-	-
Jijiga.	776	*	*	*
Jijiga. . . .	-	-	-	-
Teferi Ber. .	760	*	*	*
Kebri Beyah .	*	*	*	*
Liben	1209	332.2	*	*
Filtu	39	7.75	*	*
Dolo Odo. . .	1024	304.25	*	*
Moyale. . . .	146	20.21	*	*

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
Somali.	3864	500.81	*
Shinele	-	-	-
Shinele . . .	-	-	-
Erer.	-	-	-
Jijiga.	*	*	-
Jijiga. . . .	-	-	-
Teferi Ber. .	-	-	-
Kebri Beyah .	*	*	-
Liben	3831	493.43	*
Filtu	314	86.34	*
Dolo Odo. . .	790	96.08	*
Moyale. . . .	2727	311.01	*

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
Somali.	3864	500.81	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	-	-
Jijiga. . . .	-	-	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	*	*	-	-
Liben	3831	493.43	*	*
Filtu	314	86.34	*	*
Dolo Odo. . .	790	96.08	*	*
Moyale. . . .	2727	311.01	*	*

TABLE 5.2.1.3 - 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
Somali.	*	*	*
Shinele	-	-	-
Shinele . . .	-	-	-
Erer.	-	-	-
Jijiga.	-	-	-
Jijiga. . . .	-	-	-
Teferi Ber. .	-	-	-
Kebri Beyah .	-	-	-
Liben	*	*	*
Filtu	-	-	-
Dolo Odo. . .	*	*	*
Moyale. . . .	*	*	-

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

RURAL HOLDINGS

NEUG

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	*	*	-	-
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	-	-	-	-
Jijiga. . . .	-	-	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	*	*	-	-
Filtu	-	-	-	-
Dolo Odo. . .	*	*	-	-
Moyale. . . .	*	*	-	-

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
Somali.	*	*	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	-	-	-	-
Jijiga. . . .	-	-	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	*	*	*	*
Filtu	-	-	-	-
Dolo Odo. . .	*	*	*	*
Moyale. . . .	*	*	-	-

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
Somali.	171	8.17	*
Shinele	120	4.8	25.65
Shinele . . .	-	-	-
Erer.	120	4.8	25.65
Jijiga.	-	-	-
Jijiga. . . .	-	-	-
Teferi Ber. .	-	-	-
Kebri Beyah .	-	-	-
Liben	51	*	*
Filtu	-	-	-
Dolo Odo. . .	*	*	*
Moyale. . . .	*	*	-

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

RURAL HOLDINGS

HEAD CABBAGE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	*	*	-	-
Shinele	*	*	-	-
Shinele . . .	-	-	-	-
Erer.	*	*	-	-
Jijiga.	-	-	-	-
Jijiga. . . .	-	-	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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

RURAL HOLDINGS

ETHIOPIAN CABAGE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	*	*	-	-
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	-	-	-	-
Jijiga. . . .	-	-	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	*	*	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	*	*	-	-

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

RURAL HOLDINGS

TOMATOES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	155	6.48	*	*
Shinele	112	3.12	24.97	8
Shinele . . .	-	-	-	-
Erer.	112	3.12	24.97	8
Jijiga.	-	-	-	-
Jijiga. . . .	-	-	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	*	*	*	*
Filtu	-	-	-	-
Dolo Odo. . .	*	*	*	*
Moyale. . . .	-	-	-	-

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

RURAL HOLDINGS

GREEN PEPPERS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	*	*	*	*
Shinele	*	*	*	*
Shinele . . .	-	-	-	-
Erer.	*	*	*	*
Jijiga.	-	-	-	-
Jijiga. . . .	-	-	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	670	*	*
Shinele	183	24.78	103.18
Shinele . . .	-	-	-
Erer.	183	24.78	103.18
Jijiga.	*	*	*
Jijiga. . . .	*	*	*
Teferi Ber. .	-	-	-
Kebri Beyah .	-	-	-
Liben	139	*	*
Filtu	-	-	-
Dolo Odo. . .	139	*	*
Moyale. . . .	-	-	-

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

RURAL HOLDINGS

ONION

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	*	*	*	*
Shinele	*	*	*	*
Shinele . . .	-	-	-	-
Erer.	*	*	*	*
Jijiga.	*	*	*	*
Jijiga. . . .	*	*	*	*
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	103	*	*	*
Filtu	-	-	-	-
Dolo Odo. . .	103	*	*	*
Moyale. . . .	-	-	-	-

TABLE B- 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
Somali.	*	*	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	*	*
Jijiga. . . .	*	*	*	*
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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

RURAL HOLDINGS

SWEET POTATOES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	234	26	99.73	3.84
Shinele	170	24.36	99.73	4.09
Shinele . . .	-	-	-	-
Erer.	170	24.36	99.73	4.09
Jijiga.	-	-	-	-
Jijiga. . . .	-	-	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	*	*	-	-
Filtu	-	-	-	-
Dolo Odo. . .	*	*	-	-
Moyale. . . .	-	-	-	-

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

URBAN HOLDINGS

SOMALI REGION

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	3197	1775.9		15327.52		
Grain Crops	3137	1749.74	100	14338.6	100	
Cereals	3127	1684.23	96.26	14093.95	98.29	
Teff	16	3.26	0.19	49.96	0.35	15.33
Barley	422	119.5	6.83	467.72	3.26	3.91
Wheat	428	150.65	8.61	1438.66	10.03	9.55
Maize	2036	622.58	35.58	6317.97	44.06	10.15
Sorghum	1957	783.92	44.8	5790.15	40.38	7.39
Finger Millet	-	-	-	-	-	-
Oats / 'Aja'	40	4.33	0.25	29.51	0.21	6.82
Rice	-	-	-	-	-	-
Pulses	237	57.32	3.28	220.65	1.54	
Horse beans	-	-	-	-	-	-
Field peas	41	3.31	0.19	5.15	0.04	1.56
Haricot beans	146	45.18	2.58	155.12	1.08	3.43
Chick – peas	83	8.83	0.5	*	*	*
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	16	*	*	*	*	
Neug	-	-	-	-	-	-
Linseed	*	*	*	-	-	-
Groundnuts	8	1.05	0.06	6.2	0.04	5.9
Safflower	-	-	-	-	-	-
Sesame	*	*	*	*	*	*
Rapeseed	-	-	-	-	-	-
Vegetables	136	9.17	100	343.06	100	
Lettuce	31	0.95	10.36	*	*	*
Head cabbage	-	-	-	-	-	-
Ethiopian cabbage	*	*	*	*	*	*
Tomatoes	95	7.53	82.12	340.14	99.15	45.17
Green peppers	17	0.53	5.78	*	*	*
Red peppers	-	-	-	-	-	-
Swiss chard	4	0.1	1.09	-	-	-
Root Crops	81	16.98	100	645.86	100	
Beetroot	-	-	-	-	-	-
Carrot	*	*	*	*	*	*
Onion	54	13.03	76.74	386.68	59.87	29.68
Potatoes	12	0.63	3.71	38.83	6.01	61.63
Garlic	10	0.54	3.18	138.85	21.5	257.13
Taro / 'Godere'	-	-	-	-	-	-
Sweet potatoes	11	2.42	14.25	77.35	11.98	31.96

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

URBAN HOLDINGS

SHINELE ZONE

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	253	68.85		833.85		
Grain Crops	250	68.31	100	827.92	100	
Cereals	250	68.31	100	827.92	100	
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	15	2.04	2.99	0.34	0.04	0.17
Sorghum	250	66.27	97.01	827.58	99.96	12.49
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	*	*	*	*	*	
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

JIJIGA ZONE

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	2624	1495.67		11925.94		
Grain Crops	2573	1485.8	100	11194.65	100	
Cereals	2573	1463.04	98.47	11081.27	98.99	
Teff	16	3.26	0.22	49.96	0.45	15.33
Barley	422	119.5	8.04	467.72	4.18	3.91
Wheat	427	150.6	10.14	1438.36	12.85	9.55
Maize	1746	503.91	33.92	4188.17	37.41	8.31
Sorghum	1610	681.44	45.86	4907.56	43.84	7.2
Finger Millet	-	-	-	-	-	-
Oats / 'Aja'	40	4.33	0.29	29.51	0.26	6.82
Rice	-	-	-	-	-	-
Pulses	154	21.24	1.43	107.18	0.96	
Horse beans	-	-	-	-	-	-
Field peas	41	3.31	0.22	5.15	0.05	1.56
Haricot beans	*	*	*	*	*	*
Chick – peas	83	8.83	0.59	*	*	*
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	12	1.52	0.1	6.2	0.06	
Neug	-	-	-	-	-	-
Linseed	*	*	*	-	-	-
Groundnuts	8	1.05	0.07	6.2	0.06	5.9
Safflower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Vegetables	92	3.83	100	*	*	
Lettuce	31	0.95	24.8	*	*	*
Head cabbage	-	-	-	-	*	-
Ethiopian cabbage	*	*	*	*	*	*
Tomatoes	57	2.37	61.88	*	*	*
Green peppers	10	0.35	9.14	*	*	*
Red peppers	-	-	-	-	*	-
Swiss chard	4	0.1	2.61	-	*	-
Root Crops	44	6.04	100	507.11	100	
Beetroot	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onion	25	2.45	40.56	*	*	*
Potatoes	12	0.63	10.43	38.83	7.66	61.63
Garlic	10	0.54	8.94	138.85	27.38	257.13
Taro / 'Godere'	-	-	-	-	-	-
Sweet potatoes	11	2.42	40.07	77.35	15.25	31.96

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

URBAN HOLDINGS

LIBEN ZONE

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	320	211.38		2567.73		
Grain Crops	314	195.63	100	*	*	
Cereals	304	152.88	78.15	*	*	
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	1	0.05	0.03	0.3	*	6
Maize	275	116.62	59.61	*	*	*
Sorghum	97	36.21	18.51	55	*	1.52
Finger Millet	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	83	36.08	18.44	113.46	*	
Horse beans	-	-	-	-	-	-
Field peas	-	-	-	-	-	-
Haricot beans	83	36.08	18.44	113.46	*	3.14
Chick – peas	-	-	-	-	-	-
Lentils	-	-	-	-	-	-
Vetch	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	*	*	*	*	*	
Neug	-	-	-	-	-	-
Linseed	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-
Safflower	-	-	-	-	-	-
Sesame	*	*	*	*	*	*
Rapeseed	-	-	-	-	-	-
Vegetables	37	5.16	100	*	*	
Lettuce	-	-	-	-	*	-
Head cabbage	-	-	-	-	*	-
Ethiopian cabbage	-	-	-	-	*	-
Tomatoes	37	5.16	100	*	*	*
Green peppers	-	-	-	-	*	-
Red peppers	-	-	-	-	*	-
Swiss chard	-	-	-	-	*	-
Root Crops	30	*	*	134.6	100	
Beetroot	-	-	*	-	-	-
Carrot	-	-	*	-	-	-
Onion	30	*	*	134.6	100	*
Potatoes	-	-	*	-	-	-
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
Somali.	3197	1775.9	15327.52	8.63
Shinele	253	68.85	833.85	12.11
Shinele . . .	253	68.85	833.85	12.11
Jijiga.	2624	1495.67	11925.94	7.97
Jijiga. . . .	714	444.12	4445.28	10.01
Teferi Ber. .	1104	742.24	3477.63	4.69
Kebri Beyah .	806	309.31	4003.03	12.94
Liben	320	211.38	2567.73	12.15
Filtu	3	0.23	1.58	6.87
Dolo Odo. . .	317	211.15	2566.15	12.15

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
Somali.	3137	1749.74	14338.6	8.19
Shinele	250	68.31	827.92	12.12
Shinele . . .	250	68.31	827.92	12.12
Jijiga.	2573	1485.8	11194.65	7.53
Jijiga. . . .	673	439.23	4111.13	9.36
Teferi Ber. .	1101	740.79	3419.43	4.62
Kebri Beyah .	800	305.78	3664.1	11.98
Liben	314	195.63	*	*
Filtu	3	0.23	1.58	6.87
Dolo Odo. . .	311	195.4	*	*

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
Somali.	3127	1684.23	14093.95	8.37
Shinele	250	68.31	827.92	12.12
Shinele . . .	250	68.31	827.92	12.12
Jijiga.	2573	1463.04	11081.27	7.57
Jijiga. . . .	673	436.69	4102.42	9.39
Teferi Ber. .	1101	729.24	3354	4.6
Kebri Beyah .	800	297.12	3624.86	12.2
Liben	304	152.88	*	*
Filtu	3	0.17	1.48	8.71
Dolo Odo. . .	301	152.71	*	*

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

URBAN HOLDINGS

TEFF

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	16	3.26	49.96	15.33
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	16	3.26	49.96	15.33
Jijiga. . . .	16	3.26	49.96	15.33
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-

TABLE B - 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
Somali.	422	119.5	467.72	3.91
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	422	119.5	467.72	3.91
Jijiga. . . .	135	44.77	274.48	6.13
Teferi Ber. .	278	72.29	140.49	1.94
Kebri Beyah .	*	*	*	*
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-

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

URBAN HOLDINGS

WHEAT

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	428	150.65	1438.66	9.55
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	427	150.6	1438.36	9.55
Jijiga. . . .	179	86.49	1089.14	12.59
Teferi Ber. .	215	48.34	197.72	4.09
Kebri Beyah .	33	15.77	*	*
Liben	1	0.05	0.3	6
Filtu	1	0.05	0.3	6
Dolo Odo. . .	-	-	-	-

TABLE D - 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
Somali.	2036	622.58	6317.97	10.15
Shinele	15	2.04	0.34	0.17
Shinele . . .	15	2.04	0.34	0.17
Jijiga.	1746	503.91	4188.17	8.31
Jijiga. . . .	314	90.55	988.33	10.91
Teferi Ber. .	693	210.27	*	*
Kebri Beyah .	739	203.09	2526.64	12.44
Liben	275	116.62	*	*
Filtu	2	0.12	1.18	9.83
Dolo Odo. . .	273	116.5	*	*

TABLE E - 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
Somali.	1957	783.92	5790.15	7.39
Shinele	250	66.27	827.58	12.49
Shinele . . .	250	66.27	827.58	12.49
Jijiga.	1610	681.44	4907.56	7.2
Jijiga. . . .	445	211.62	1700.51	8.04
Teferi Ber. .	1021	394.01	2313.08	5.87
Kebri Beyah .	144	75.82	*	*
Liben	97	36.21	55	1.52
Filtu	-	-	-	-
Dolo Odo. . .	97	36.21	55	1.52

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

URBAN HOLDINGS

OATS/AJA

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	40	4.33	29.51	6.82
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	40	4.33	29.51	6.82
Jijiga. . . .	-	-	-	-
Teferi Ber. .	40	4.33	29.51	6.82
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-

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
Somali.	237	57.32	220.65	3.85
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	154	21.24	107.18	5.05
Jijiga. . . .	10	1.03	2.51	2.44
Teferi Ber. .	86	11.55	*	*
Kebri Beyah .	*	*	*	*
Liben	83	36.08	113.46	3.14
Filtu	1	0.06	0.1	1.67
Dolo Odo. . .	82	36.02	113.36	3.15

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

URBAN HOLDINGS

FIELD PEAS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	41	3.31	5.15	1.56
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	41	3.31	5.15	1.56
Jijiga. . . .	6	0.62	2.4	3.87
Teferi Ber. .	35	2.7	2.75	1.02
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-

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

URBAN HOLDINGS

HARICOT BEANS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	146	45.18	155.12	3.43
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	*	*	*	*
Jijiga. . . .	-	-	-	-
Teferi Ber. .	*	*	*	*
Kebri Beyah .	*	*	*	*
Liben	83	36.08	113.46	3.14
Filtu	1	0.06	0.1	1.67
Dolo Odo. . .	82	36.02	113.36	3.15

TABLE C - 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
Somali.	83	8.83	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	83	8.83	*	*
Jijiga. . . .	10	0.41	0.11	0.27
Teferi Ber. .	74	8.41	*	*
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-

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
Somali.	16	*	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	12	1.52	6.2	4.08
Jijiga. . . .	12	1.52	6.2	4.08
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	*	*	*	*
Filtu	-	-	-	-
Dolo Odo. . .	*	*	*	*

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
Somali.	*	*	-	-
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	*	*	-	-
Jijiga. . . .	*	*	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-

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
Somali.	8	1.05	6.2	5.9
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	8	1.05	6.2	5.9
Jijiga. . . .	8	1.05	6.2	5.9
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-

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
Somali.	*	*	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	-	-	-	-
Jijiga. . . .	-	-	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	*	*	*	*
Filtu	-	-	-	-
Dolo Odo. . .	*	*	*	*

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
Somali.	136	9.17	343.06	37.41
Shinele	*	*	*	*
Shinele . . .	*	*	*	*
Jijiga.	92	3.83	*	*
Jijiga. . . .	49	1.45	52.74	36.37
Teferi Ber. .	13	0.79	*	*
Kebri Beyah .	*	*	*	*
Liben	37	5.16	*	*
Filtu	-	-	-	-
Dolo Odo. . .	37	5.16	*	*

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

URBAN HOLDINGS

LETTUCE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	31	0.95	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	31	0.95	*	*
Jijiga. . . .	28	0.89	0.08	0.09
Teferi Ber. .	*	*	*	*
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-

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

URBAN HOLDINGS

ETIOPIAN CABBAGE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	*	*	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	*	*	*	*
Jijiga. . . .	-	-	-	-
Teferi Ber. .	*	*	*	*
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-

TABLE C - 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
Somali.	95	7.53	340.14	45.17
Shinele . . .	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	57	2.37	*	*
Jijiga. . . .	17	0.41	52.66	128.44
Teferi Ber. .	10	0.37	*	*
Kebri Beyah .	*	*	*	*
Liben	37	5.16	*	*
Filtu	-	-	-	-
Dolo Odo. . .	37	5.16	*	*

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
Somali.	1683	0.01	*	*
Shinele	*	*	*	*
Shinele . . .	*	*	*	*
Jijiga.	997	*	*	*
Jijiga. . . .	400	*	-	-
Teferi Ber. .	597	*	*	*
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-

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

URBAN HOLDINGS

SWISS CHARD

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	4	0.1	-	-
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	4	0.1	-	-
Jijiga. . . .	4	0.1	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-

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
Somali.	81	16.98	645.86	38.04
Shinele	*	*	*	*
Shinele . . .	*	*	*	*
Jijiga.	44	6.04	507.11	83.96
Jijiga. . . .	24	3.43	281.42	82.05
Teferi Ber. .	9	0.67	45.47	67.87
Kebri Beyah .	*	*	*	*
Liben	30	*	134.6	*
Filtu	-	-	-	-
Dolo Odo. . .	30	*	134.6	*

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
Somali.	*	*	*	*
Shinele	*	*	*	*
Shinele . . .	*	*	*	*
Jijiga.	-	-	-	-
Jijiga. . . .	-	-	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-

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

URBAN HOLDINGS

ONIONS

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	54	13.03	386.68	29.68
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	25	2.45	*	*
Jijiga. . . .	10	0.72	74.84	103.94
Teferi Ber. .	*	*	*	*
Kebri Beyah .	*	*	*	*
Liben	30	*	134.6	*
Filtu	-	-	-	-
Dolo Odo. . .	30	*	134.6	*

TABLE C - 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
Somali.	12	0.63	38.83	61.63
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	12	0.63	38.83	61.63
Jijiga. . . .	-	-	-	-
Teferi Ber. .	9	0.36	30.29	84.14
Kebri Beyah .	*	*	*	*
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-

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

URBAN HOLDINGS

GARLIC

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	10	0.54	138.85	257.13
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	10	0.54	138.85	257.13
Jijiga. . . .	10	0.54	138.85	257.13
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-

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

URBAN HOLDINGS

SWEET POTATOES

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	11	2.42	77.35	31.96
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Jijiga.	11	2.42	77.35	31.96
Jijiga. . . .	8	2.17	67.72	31.21
Teferi Ber. .	3	0.25	9.63	38.52
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-

TABLE 5.7 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

SOMALI REGION

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	89239	69456		849781.6		
Grain Crops	88942	68501.27	100	743297.1	100	
Cereals	88739	66091.2	96.48	734121.4	98.77	
Teff	276	*	*	261.17	0.04	*
Barley	22513	6639.45	9.69	58205.78	7.83	8.77
Wheat	29463	8517.8	12.43	111426	14.99	13.08
Maize	72504	28298.95	41.31	273368.8	36.78	9.66
Sorghum	53902	22123.35	32.3	286875.5	38.6	12.97
Finger Millet	*	*	*	-	-	-
Oats / "Aja"	5398	436.96	0.64	3984.11	0.54	9.12
Rice	-	-	-	-	-	-
Pulses	15394	1905	2.78	6778.97	0.91	
Horse beans	*	*	*	*	*	*
Field peas	989	89.35	0.13	*	*	*
Haricot beans	9364	1224.32	1.79	2572.95	0.35	2.1
Chick – peas	3740	415.76	0.61	2646.51	0.36	6.37
Lentils	849	83.71	0.12	862.73	0.12	10.31
Vetch	*	*	*	-	-	-
Soya beans	*	*	*	-	-	-
Fenugreek	1702	56.86	0.08	189.84	0.03	3.34
Gibto.	-	-	-	-	-	-
Oilseeds	6587	505.07	0.74	2396.7	0.32	
Neug.	*	*	*	-	-	-
Linseed	5629	445.52	0.65	1409.81	0.19	3.16
Groundnuts	*	*	*	*	*	*
Safflower	-	-	-	-	-	-
Sesame	98	*	*	*	*	*
Rapeseed	-	-	-	-	-	-
Vegetables	1909	107.89	100	11796.11	100	
Lettuce	*	1.03	0.95	*	*	*
Head cabbage	*	8.97	8.31	*	*	*
Ethiopian cabbage	201	*	*	*	*	*
Tomatoes	1254	74.43	68.99	9845.26	83.46	132.28
Green peppers	380	13.78	12.77	*	*	*
Red peppers	*	*	*	-	-	-
Swiss chard	*	*	*	-	-	-
Root Crops	10683	846.83	100	94688.36	100	
Beetroot	*	*	*	*	*	*
Carrot	*	*	*	*	*	*
Onion	4231	342.97	40.5	33322.51	35.19	97.16
Potatoes	1477	47.49	5.61	4778.59	5.05	100.62
Garlic	4717	269.51	31.83	40463.68	42.73	150.14
Taro / "Godere"	-	-	-	-	-	-
Sweet potatoes	2305	181.97	21.49	15531.85	16.4	85.35

TABLE 5.7.1 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

SHINELE ZONE

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	2794	1040.64		14995.79		
Grain Crops	2727	977.41	100	11104.51	100	
Cereals	2727	975.76	99.83	11104.51	100	
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	1155	156.64	16.03	790.16	7.12	5.04
Sorghum	2559	819.12	83.81	10314.36	92.88	12.59
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	472	18.26	100	1790.34	100	
Lettuce	-	-	-	-	-	-
Head cabbage	*	*	*	-	-	-
Ethiopian cabbage	*	*	*	-	-	-
Tomatoes	422	12.27	67.2	1396.92	78.03	113.85
Green peppers	116	4.22	23.11	393.41	21.97	93.23
Red peppers	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-
Root Crops	435	44.97	100	2100.95	100	
Beetroot	-	-	-	-	-	-
Carrot	*	*	*	*	*	*
Onion	51	*	*	*	*	*
Potatoes	-	-	-	-	-	-
Garlic	*	*	*	-	-	-
Taro / "Godere"	-	-	-	-	-	-
Sweet potatoes	379	43.33	96.35	1996.6	95.03	46.08

TABLE 5.7.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

JIJIGA ZONE

Crop	Number of Holders	Area		Production		Yield
		Hectares	%	Quintals	%	QT / HA
TOTAL	72478	59096.41		803977		
Grain Crops	72325	58311.87	100	705359.1	100	
Cereals	72290	56913.62	97.6	697904.5	98.94	
Teff	276	*	*	261.17	0.04	*
Barley	22505	6635.31	11.38	58205.78	8.25	8.77
Wheat	29404	8510.37	14.59	111413.7	15.8	13.09
Maize	58225	20652.37	35.42	253042.8	35.87	12.25
Sorghum	49226	20603.92	35.33	270996.9	38.42	13.15
Finger Millet	*	*	*	-	-	-
Oats / "Aja"	5398	436.96	0.75	3984.11	0.56	9.12
Rice	-	-	-	-	-	-
Pulses	9573	918.54	1.58	5465.69	0.77	
Horse beans	*	*	*	*	*	*
Field peas	920	86.93	0.15	*	*	*
Haricot beans	3575	250.02	0.43	1259.69	0.18	5.04
Chick – peas	3714	410.96	0.7	2646.51	0.38	6.44
Lentils	806	79.79	0.14	862.73	0.12	10.81
Vetch	*	*	*	-	-	-
Soya beans	*	*	*	-	-	-
Fenugreek	1702	56.86	0.1	189.84	0.03	3.34
Gibto	-	-	-	-	-	-
Oilseeds	6425	479.71	0.82	1988.95	0.28	
Neug	*	*	*	-	-	-
Linseed	5629	445.52	0.76	1409.81	0.2	3.16
Groundnuts	*	*	*	*	*	*
Safflower	-	-	-	-	-	-
Sesame	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-
Vegetables	1144	57.84	100	6637.8	100	
Lettuce	*	1.03	1.78	*	*	*
Head cabbage	*	*	*	*	*	*
Ethiopian cabbage	*	*	*	*	*	*
Tomatoes	582	*	*	*	*	*
Green peppers	229	*	*	*	*	*
Red peppers	*	*	*	-	-	-
Swiss chard	*	*	*	-	-	-
Root Crops	9898	726.7	100	91980.06	100	
Beetroot	*	*	*	*	*	*
Carrot	-	-	-	-	-	-
Onion	3911	271.88	37.41	32972.05	35.85	121.27
Potatoes	1477	47.49	6.54	4778.59	5.2	100.62
Garlic	4706	269.37	37.07	40463.68	43.99	150.22
Taro / "Godere"	-	-	-	-	-	-
Sweet potatoes	1762	*	*	*	*	*

TABLE 5.7.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF TEMPORARY CROPS FOR PRIVATE PEASANT HOLDINGS FOR BOTH SEASONS

ALL HOLDINGS

LIBEN ZONE

Crop	Number of Holders	Area Hectares	%	Production Quintals	%	Yield QT / HA
TOTAL	13967	9318.96		30808.79		
Grain Crops	13890	9211.98	100	26833.46	100	
Cereals	13722	8201.82	89.03	25112.43	93.59	
Teff	-	-	-	-	-	-
Barley	*	*	*	-	-	-
Wheat	59	*	*	*	*	*
Maize	13124	7489.93	81.31	19535.87	72.8	2.61
Sorghum	2118	700.31	7.6	5564.28	20.74	7.95
Finger Millet	-	-	-	-	-	-
Oats / "Aja"	-	-	-	-	-	-
Rice	-	-	-	-	-	-
Pulses	5808	986.46	10.71	1313.26	4.89	
Horse beans	*	*	*	-	-	-
Field peas	69	2.42	0.03	-	-	-
Haricot beans	5777	974.31	10.58	1313.26	4.89	1.35
Chick – peas	*	*	*	-	-	-
Lentils	43	*	*	-	-	-
Vetch	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	-	-	-
Oilseeds	146	*	*	*	*	
Neug	*	*	*	-	-	-
Linseed	-	-	-	-	-	-
Groundnuts	*	*	*	-	-	-
Safflower	-	-	-	-	-	-
Sesame	81	*	*	*	*	*
Rapeseed	-	-	-	-	-	-
Vegetables	294	31.8	100	*	*	
Lettuce	-	-	-	-	*	-
Head cabbage	*	*	*	-	*	-
Ethiopian cabbage	*	*	*	*	*	*
Tomatoes	250	*	*	*	*	*
Green peppers	*	*	*	-	*	-
Red peppers	-	-	-	-	*	-
Swiss chard	-	-	-	-	*	-
Root Crops	350	*	*	607.35	100	
Beetroot	-	-	*	-	-	-
Carrot	-	-	*	-	-	-
Onion	269	*	*	250.26	41.21	*
Potatoes	-	-	*	-	-	-
Garlic	-	-	*	-	-	-
Taro / "Godere"	-	-	*	-	-	-
Sweet potatoes	*	*	*	*	*	*

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
Somali.	89239	69456	849781.6
Shinele	2794	1040.64	14995.79
Shinele . . .	813	241.23	1801.28
Erer.	1980	799.4	13194.51
Jijiga.	72478	59096.41	803977
Jijiga. . . .	36250	28419.27	474764.4
Teferi Ber. .	20800	17003.15	132666.8
Kebri Beyah .	15428	13673.98	196545.9
Liben	13967	9318.96	30808.79
Filtu	2910	2989.76	2385.92
Dolo Odo. . .	4551	2799.35	24805.55
Moyale. . . .	6506	3529.85	3617.32

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
Somali.	88942	68501.27	743297.1
Shinele	2727	977.41	11104.51
Shinele . . .	810	240.06	1732.56
Erer.	1917	737.35	9371.95
Jijiga.	72325	58311.87	705359.1
Jijiga. . . .	36129	27691.58	383518.4
Teferi Ber. .	20773	16998.98	132233.1
Kebri Beyah .	15422	13621.31	189607.6
Liben	13890	9211.98	26833.46
Filtu	2910	2989.76	2385.92
Dolo Odo. . .	4474	2695.74	20849.18
Moyale. . . .	6506	3526.48	3598.36

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
Somali.	88739	66091.2	734121.4
Shinele	2727	975.76	11104.51
Shinele . . .	810	240.06	1732.56
Erer.	1917	735.7	9371.95
Jijiga.	72290	56913.62	697904.5
Jijiga. . . .	36094	26589.37	377072.8
Teferi Ber. .	20773	16816.51	131764.3
Kebri Beyah .	15422	13507.75	189067.4
Liben	13722	8201.82	25112.43
Filtu	2904	2807.2	2305.04
Dolo Odo. . .	4464	2488.87	19411.11
Moyale. . . .	6354	2905.74	3396.28

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
Somali.	276	*	261.17	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	276	*	261.17	*
Jijiga. . . .	276	*	261.17	*
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	22513	6639.45	58205.78	8.77
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	22505	6635.31	58205.78	8.77
Jijiga. . . .	14749	4072.95	43090.09	10.58
Teferi Ber. .	6519	2354.37	11998.79	5.1
Kebri Beyah .	1236	*	*	*
Liben	*	*	-	-
Filtu	*	*	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	29463	8517.8	111426	13.08
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	29404	8510.37	111413.7	13.09
Jijiga. . . .	21771	5701.05	88283.08	15.49
Teferi Ber. .	5376	2081.18	14258.99	6.85
Kebri Beyah .	2258	728.14	*	*
Liben	59	*	*	*
Filtu	28	*	*	*
Dolo Odo. . .	-	-	-	-
Moyale. . . .	*	*	*	*

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
Somali.	72504	28298.95	273368.8	9.66
Shinele	1155	156.64	790.16	5.04
Shinele . . .	202	19.53	*	*
Erer.	953	137.11	720.09	5.25
Jijiga.	58225	20652.37	253042.8	12.25
Jijiga. . . .	27311	6911.58	93165.51	13.48
Teferi Ber. .	16319	4573.84	33904.35	7.41
Kebri Beyah .	14594	9166.94	125973	13.74
Liben	13124	7489.93	19535.87	2.61
Filtu	2732	2633.36	695.15	0.26
Dolo Odo. . .	4051	1988.85	15624.68	7.86
Moyale. . . .	6341	2867.72	3216.04	1.12

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
Somali.	53902	22123.35	286875.5	12.97
Shinele	2559	819.12	10314.36	12.59
Shinele . . .	806	220.53	1662.49	7.54
Erer.	1753	598.59	8651.87	14.45
Jijiga.	49226	20603.92	270996.9	13.15
Jijiga. . . .	26231	9487.37	148805.9	15.68
Teferi Ber. .	17297	7713.24	71085.15	9.22
Kebri Beyah .	5697	3403.32	51105.86	15.02
Liben	2118	700.31	5564.28	7.95
Filtu	294	162.57	1599.27	9.84
Dolo Odo. . .	1531	500.02	3786.43	7.57
Moyale. . . .	293	37.72	*	*

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
Somali.	*	*	-	-
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	-	-
Jijiga. . . .	-	-	-	-
Teferi Ber. .	*	*	-	-
Kebri Beyah .	*	*	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	5398	436.96	3984.11	9.12
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	5398	436.96	3984.11	9.12
Jijiga. . . .	4610	363.35	3467.06	9.54
Teferi Ber. .	788	73.61	517.05	7.02
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	15394	1905	6778.97
Shinele	*	*	-
Shinele . . .	-	-	-
Erer.	*	*	-
Jijiga.	9573	918.54	5465.69
Jijiga. . . .	7312	635.34	4479.17
Teferi Ber. .	1314	169.63	446.32
Kebri Beyah .	948	113.56	540.2
Liben	5808	986.46	1313.26
Filtu	660	182.03	76.17
Dolo Odo. . .	1254	184.3	1035.01
Moyale. . . .	3894	620.13	202.08

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
Somali.	*	*	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	*	*
Jijiga. . . .	*	*	*	*
Teferi Ber. .	*	*	*	*
Kebri Beyah .	-	-	-	-
Liben	*	*	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	*	*	-	-

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
Somali.	989	89.35	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	920	86.93	*	*
Jijiga. . . .	523	*	*	*
Teferi Ber. .	359	15.49	17.63	1.14
Kebri Beyah .	*	*	*	*
Liben	69	2.42	-	-
Filtu	*	*	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	*	2.08	-	-

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
Somali.	9364	1224.32	2572.95	2.1
Shinele	*	*	-	-
Shinele . . .	-	-	-	-
Erer.	*	*	-	-
Jijiga.	3575	250.02	1259.69	5.04
Jijiga. . . .	2520	133.82	713.39	5.33
Teferi Ber. .	*	*	*	*
Kebri Beyah .	862	108.26	515.42	4.76
Liben	5777	974.31	1313.26	1.35
Filtu	637	172.97	76.17	0.44
Dolo Odo. . .	1254	184.3	1035.01	5.62
Moyale. . . .	3886	617.04	202.08	0.33

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
Somali.	3740	415.76	2646.51	6.37
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	3714	410.96	2646.51	6.44
Jijiga. . . .	2779	270.11	*	*
Teferi Ber. .	864	137.24	372.24	2.71
Kebri Beyah .	*	*	*	*
Liben	*	*	-	-
Filtu	*	*	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	849	83.71	862.73	10.31
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	806	79.79	862.73	10.81
Jijiga. . . .	806	79.79	862.73	10.81
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	43	*	-	-
Filtu	43	*	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	*	*	-	-
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	-	-
Jijiga. . . .	*	*	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	*	*	-	-
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	-	-
Jijiga. . . .	*	*	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	1702	56.86	189.84	3.34
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	1702	56.86	189.84	3.34
Jijiga. . . .	1586	53.67	182.18	3.39
Teferi Ber. .	*	*	*	*
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	6587	505.07	2396.7
Shinele	*	*	-
Shinele . . .	-	-	-
Erer.	*	*	-
Jijiga.	6425	479.71	1988.95
Jijiga. . . .	6109	466.88	1966.45
Teferi Ber. .	316	*	22.5
Kebri Beyah .	-	-	-
Liben	146	*	*
Filtu	*	*	*
Dolo Odo. . .	*	*	*
Moyale. . . .	*	*	-

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
Somali.	*	*	-	-
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	-	-
Jijiga. . . .	*	*	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	*	*	-	-
Filtu	-	-	-	-
Dolo Odo. . .	*	*	-	-
Moyale. . . .	*	*	-	-

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
Somali.	5629	445.52	1409.81	3.16
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	5629	445.52	1409.81	3.16
Jijiga. . . .	5312	432.69	1387.31	3.21
Teferi Ber. .	316	*	22.5	*
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	*	*	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	*	*
Jijiga. . . .	*	*	*	*
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	*	*	-	-
Filtu	*	*	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	*	*	-	-

TABLE D - 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
Somali.	98	*	*	*
Shinele	*	*	-	-
Shinele . . .	-	-	-	-
Erer.	*	*	-	-
Jijiga.	-	-	-	-
Jijiga. . . .	-	-	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	81	*	*	*
Filtu	*	*	*	*
Dolo Odo. . .	*	*	*	*
Moyale. . . .	*	*	-	-

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
Somali.	1909	107.89	11796.11
Shinele	472	18.26	1790.34
Shinele . . .	*	*	*
Erer.	465	18.08	1788.56
Jijiga.	1144	57.84	6637.8
Jijiga. . . .	878	22.99	*
Teferi Ber. .	*	*	*
Kebri Beyah .	212	*	*
Liben	294	31.8	*
Filtu	-	-	-
Dolo Odo. . .	266	*	*
Moyale. . . .	*	*	*

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

ALL HOLDINGS

LETTUCE

Geographic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	*	1.03	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	1.03	*	*
Jijiga. . . .	*	0.97	0.08	0.08
Teferi Ber. .	*	*	*	*
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

TABLE B - 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
Somali.	*	8.97	*	*
Shinele	*	*	-	-
Shinele . . .	-	-	-	-
Erer.	*	*	-	-
Jijiga.	*	*	*	*
Jijiga. . . .	*	*	*	*
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	*	*	-	-
Filtu	-	-	-	-
Dolo Odo. . .	*	*	-	-
Moyale. . . .	*	*	-	-

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

ALL HOLDINGS

ETHIOPIAN CABBAGE

Geógraphic Area	Number of Holders	Area Hectares	Production Quintals	Yield QT / HA
Somali.	201	*	*	*
Shinele	*	*	-	-
Shinele . . .	-	-	-	-
Erer.	*	*	-	-
Jijiga.	*	*	*	*
Jijiga. . . .	*	*	*	*
Teferi Ber. .	*	*	*	*
Kebri Beyah .	-	-	-	-
Liben	*	*	*	*
Filtu	-	-	-	-
Dolo Odo. . .	*	*	*	*
Moyale. . . .	*	*	-	-

TABLE D - 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
Somali.	1254	74.43	9845.26	132.28
Shinele	422	12.27	1396.92	113.85
Shinele . . .	-	-	-	-
Erer.	422	12.27	1396.92	113.85
Jijiga.	582	*	*	*
Jijiga. . . .	*	*	*	*
Teferi Ber. .	*	*	*	*
Kebri Beyah .	*	*	*	*
Liben	250	*	*	*
Filtu	-	-	-	-
Dolo Odo. . .	243	*	*	*
Moyale. . . .	*	*	*	*

TABLE E - 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
Somali.	380	13.78	*	*
Shinele	116	4.22	393.41	93.23
Shinele . . .	*	*	*	*
Erer.	110	4.04	391.63	96.94
Jijiga.	229	*	*	*
Jijiga. . . .	*	*	*	*
Teferi Ber. .	6	0.3	*	*
Kebri Beyah .	*	*	*	*
Liben	*	*	-	-
Filtu	-	-	-	-
Dolo Odo. . .	*	*	-	-
Moyale. . . .	-	-	-	-

TABLE F - 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
Somali.	*	*	-	-
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	-	-
Jijiga. . . .	*	*	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

TABLE G - 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
Somali.	*	*	-	-
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	-	-
Jijiga. . . .	*	*	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	10683	846.83	94688.36
Shinele	435	44.97	2100.95
Shinele . . .	*	*	*
Erer.	421	43.98	2034
Jijiga.	9898	726.7	91980.06
Jijiga. . . .	9658	704.7	89275.46
Teferi Ber. .	109	1.93	201.51
Kebri Beyah .	131	*	*
Liben	350	*	607.35
Filtu	-	-	-
Dolo Odo. . .	345	*	591.7
Moyale. . . .	*	*	*

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
Somali.	*	*	*	*
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	*	*	*	*
Jijiga. . . .	*	*	*	*
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	*	*	*	*
Shinele	*	*	*	*
Shinele . . .	*	*	*	*
Erer.	-	-	-	-
Jijiga.	-	-	-	-
Jijiga. . . .	-	-	-	-
Teferi Ber. .	-	-	-	-
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	4231	342.97	33322.51	97.16
Shinele	51	*	*	*
Shinele . . .	-	-	-	-
Erer.	51	*	*	*
Jijiga.	3911	271.88	32972.05	121.27
Jijiga. . . .	3777	255.71	30845.07	120.63
Teferi Ber. .	*	*	*	*
Kebri Beyah .	*	*	*	*
Liben	269	*	250.26	*
Filtu	-	-	-	-
Dolo Odo. . .	269	*	250.26	*
Moyale. . . .	-	-	-	-

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
Somali.	1477	47.49	4778.59	100.62
Shinele	-	-	-	-
Shinele . . .	-	-	-	-
Erer.	-	-	-	-
Jijiga.	1477	47.49	4778.59	100.62
Jijiga. . . .	1415	44.08	4447.87	100.9
Teferi Ber. .	*	*	*	*
Kebri Beyah .	*	*	*	*
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

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
Somali.	4717	269.51	40463.68	150.14
Shinele	*	*	-	-
Shinele . . .	-	-	-	-
Erer.	*	*	-	-
Jijiga.	4706	269.37	40463.68	150.22
Jijiga. . . .	4676	268.96	40401.46	150.21
Teferi Ber. .	*	*	*	*
Kebri Beyah .	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo. . .	-	-	-	-
Moyale. . . .	-	-	-	-

TABLE F - 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
Somali.	2305	181.97	15531.85	85.35
Shinele	379	43.33	1996.6	46.08
Shinele . . .	*	*	*	*
Erer.	372	42.7	1933.8	45.29
Jijiga.	1762	*	*	*
Jijiga. . . .	1739	*	*	*
Teferi Ber. .	3	0.25	9.63	38.52
Kebri Beyah .	*	*	*	*
Liben	*	*	*	*
Filtu	-	-	-	-
Dolo Odo. . .	*	*	*	*
Moyale. . . .	*	*	*	*

TABLE 5.9 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS
RURAL HOLDINGS

SOMALI 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	35669	8034.85							
Fruit Crops	4421	410.07	100	515423	1257	316554	33977.26	100	
Avocados	-	-	-	-	-	-	-	-	-
Bananas			46.1					53.9	
	1458	189.2	4	345604	1827	222179	18335.17	6	96.91
Guavas	1077	*	*	*	*	10436	188.61	0.56	*
Lemons	963	34.14	8.33	17589	515	12647	1493.22	4.39	43.74
Mangoes	1532	40.04	9.76	6883	172	5787	*	*	*
Oranges								27.2	
	679	55.35	13.5	39167	708	28183	9272.39	9	167.52
Papayas			14.5						
	1742	59.61	4	*	*	37322	*	*	*
Pineapples	-	-	-	-	-	-	-	-	-
Stimulant Crops	32742	7623.69	100	48054	6	46871	96349.89	100	
Chat			99.6					99.9	
	32173	7596.23	4				96309.16	6	12.68
Coffee	*	*	*				40.73	0.04	*
Hops (Gesho)	*	*	*	*	*	*	-	-	-
Other Permanent	112	1.09	100	120	110	41	45.75	100	
Sugar Cane	112	1.09	100		110	41	45.75	100	41.97

TABLE 5.9.1- ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

RURAL HOLDINGS

SHINELE ZONE

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	1380	286.07							
Fruit Crops	1174	200.65	100	189882	946	141880	22118.72	100	
Avocados	-	-	-	-	-	-	-	-	-
Bananas	816	96.19	47.94	131201	1364	97210	11080.83	50.1	115.2
Guavas	78	2.12	1.06	847	400	840	-	-	-
Lemons	648	31.78	15.84	16344	514	11745	1459.49	6.6	45.92
Mangoes	406	17.56	8.75	2583	147	2098	-	-	-
Oranges								41.9	192.6
	633	48.13	23.99	35000	727	26692	9272.39	2	5
Papayas	186	4.87	2.43	3908	802	3295	306.01	1.38	62.84
Pineapples	-	-	-	-	-	-	-	-	-
Stimulant Crops	831	84.82	100	1240	15	906	1139.38	100	
Chat								96.4	
	762	80.69	95.13		-		1098.65	3	13.62
Coffee	121	4.13	4.87				40.73	3.57	9.86
Hops (Gesho)	-	-	-	-	-	-	-	-	-
Other Permanent	41	0.6	100	41	68	41	45.75	100	
Sugar Cane	41	0.6	100		68	41	45.75	100	76.25

TABLE 5.9.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FORPRIVATE PEASANT HOLDINGS

RURAL HOLDINGS

JIJIGA ZONE

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	32036	7599.33							
Fruit Crops	1011	*	*	*	*	*	*	*	
Avocados	-	-	-	-	-	-	-	-	-
Bananas	*	*	*	*	*	*	-	-	-
Guavas	576	*	*	*	*	*	*	*	*
Lemons	*	*	*	*	*	*	-	-	-
Mangoes	*	*	*	*	*	*	-	-	-
Oranges	*	*	*	*	*	*	-	-	-
Papayas	*	*	*	*	*	*	*	*	*
Pineapples	-	-	-	-	-	-	-	-	-
Stimulant Crops	31904	7538.87	100	46806	6	45965	95210.51	100	
Chat	31404	7515.53	99.69				95210.51	100	12.67
Coffee	*	*	*				-	-	-
Hops (Gesho)	*	*	*	*	*	*	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	
Sugar Cane	-	-	-	-	-	-	-	-	-

TABLE 5.9.3 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FORPRIVATE PEASANT HOLDINGS

RURAL HOLDINGS

LIBEN ZONE

PERMANENT CROPS	NUMBER OF HOLDERS REPORTING	AREA IN CROP (HA)	%	TOTAL NUMBER OF TREES	NUMBER OF TREES PER HECTARE	NUMBER OF TREES BEARING	PRODUCTIO N (QT)	%	YIELD (QT / HA)
ALL	2253	*							
Fruit Crops	2237	*	*	*	*	*	*	*	
Avocados	-	-	-	-	-	-	-	-	-
Bananas	468	*	*	*	*	*	*	*	*
Guavas	423	3.9	*	3192	818	1671	81.58	*	20.92
Lemons	*	*	*	*	*	*	*	*	*
Mangoes	901	20.36	*	4027	198	3511	*	*	*
Oranges	*	*	*	*	*	*	-	-	-
Papayas	1176	*	*	*	*	18053	*	*	*
Pineapples	-	-	-	-	-	-	-	-	-
Stimulant Crops	*	*	*	*	*	-	-	-	
Chat	*	*	*				-	-	-
Coffee	-	-	-				-	-	-
Hops (Gesho)	-	-	-	-	-	-	-	-	-
Other Permanent	71	*	*	79	*	-	-	-	
Sugar Cane	71	*	*	79	*	-	-	-	

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)
Somali	35669	8034.85	563596	70	363481	204040
Shinele	1380	286.07	191163	668	142827	24520.13
Shinele	28	2.59	2739	1058	1861	-
Erer	1352	283.48	188424	665	140966	24520.13
Jijiga	32036	7599.33	114631	15	73443	158729.4
Jijiga	22279	4116.49	40948	10	39927	53137.96
Teferi Ber	4334	902.49	9107	10	9061	10625.58
Kebri Beyah	5423	2580.35	64576	25	24455	94965.89
Liben	2253	149.44	257802	1725	147211	20790.41
Filtu	7	0.01	47	4700	33	0.95
Dolo Odo	1235	146.5	253051	1727	144071	20063.59
Moyale	1011	2.93	4704	1605	3107	725.87

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)
Somali	4421	410.07	515423	1257	316554	43254.55
Shinele	1174	200.65	189882	946	141880	22118.72
Shinele	28	2.12	2725	1285	1861	-
Erer	1146	198.52	187157	943	140019	22118.72
Jijiga	1011	60.47	67825	1122	27463	345.43
Jijiga	867	14.55	5356	368	5137	138.93
Teferi Ber	118	4.08	4107	1007	4085	-
Kebri Beyah	26	41.84	58362	1395	18241	206.5
Liben	2237	148.95	257716	1730	147211	20790.41
Filtu	7	0.01	47	4700	33	0.95
Dolo Odo	1219	146.06	252987	1732	144071	20063.59
Moyale	1011	2.89	4682	1620	3107	725.87

TABLE A - 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)
Somali	1458	189.2	345604	1827	222179	26025.44	137.56
Shinele	816	96.19	131201	1364	97210	11080.83	115.2
Shinele	14	0.71	1910	2690	1310	-	-
Erer	802	95.49	129291	1354	95900	11080.83	116.04
Jijiga	175	3.88	2556	659	2468	-	-
Jijiga	175	3.88	2556	659	2468	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben	468	89.13	211847	2377	122501	14944.61	167.67
Filtu	-	-	-	-	-	-	-
Dolo Odo	397	88.93	211242	2375	122058	14464.86	162.65
Moyale	71	0.2	605	3025	443	479.75	2398.75

TABLE B - 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)
Somali	1077	31.73	32751	1032	10436	188.61	5.94
Shinele	78	2.12	847	400	840	-	-
Shinele	21	0.12	98	817	91	-	-
Erer	57	1.99	749	376	749	-	-
Jijiga	576	25.71	28713	1117	7925	107.03	4.16
Jijiga	432	6.91	1133	164	1097	107.03	15.49
Teferi Ber	118	2.06	1960	951	1960	-	-
Kebri Beyah	26	16.73	25620	1531	4868	-	-
Liben	423	3.9	3192	818	1671	81.58	20.92
Filtu	-	-	-	-	-	-	-
Dolo Odo	160	2.2	1073	488	807	50.44	22.93
Moyale	263	1.7	2119	1246	864	31.15	18.32

TABLE C - 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)
Somali	963	34.14	17589	515	12647	1493.22	43.74
Shinele	648	31.78	16344	514	11745	1459.49	45.92
Shinele	-	-	-	-	-	-	-
Erer	648	31.78	16344	514	11745	1459.49	45.92
Jijiga	107	0.48	355	740	355	-	-
Jijiga	83	0.41	331	807	331	-	-
Teferi Ber	24	0.07	24	343	24	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben	208	1.88	890	473	547	33.73	17.94
Filtu	-	-	-	-	-	-	-
Dolo Odo	189	1.85	870	470	527	31.76	17.17
Moyale	20	0.03	20	667	20	1.97	65.67

TABLE D - 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)
Somali	1532	40.04	6883	172	5787	3184.34	79.53
Shinele	406	17.56	2583	147	2099	-	-
Shinele	7	0.05	35	700	35	-	-
Erer	399	17.51	2548	146	2064	-	-
Jijiga	225	2.12	273	129	178	-	-
Jijiga	225	2.12	273	129	178	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben	901	20.36	4027	198	3511	3184.34	156.4
Filtu	-	-	-	-	-	-	-
Dolo Odo	818	20.34	3932	193	3415	3184.34	156.56
Moyale	83	0.03	95	3167	95	-	-

TABLE E - 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)
Somali	679	55.35	39167	708	28183	9272.39	167.52
Shinele	633	48.13	35000	727	26692	9272.39	192.65
Shinele	28	1.24	669	540	411	-	-
Erer	606	46.89	34331	732	26280	9272.39	197.75
Jijiga	26	4.18	717	172	564	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	26	4.18	717	172	564	-	-
Liben	20	3.04	3449	1135	928	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	20	3.04	3449	1135	928	-	-
Moyale	-	-	-	-	-	-	-

TABLE F - 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)
Somali	1742	59.61	73430	1232	37322	3090.54	51.85
Shinele	186	4.87	3908	802	3295	306.01	62.84
Shinele	7	0.01	14	1400	14	-	-
Erer	179	4.86	3894	801	3281	306.01	62.97
Jijiga	379	24.1	35212	1461	15974	238.4	9.89
Jijiga	284	1.24	1063	857	1063	31.9	25.73
Teferi Ber	70	1.95	2123	1089	2101	-	-
Kebri Beyah	26	20.92	32025	1531	12810	206.5	9.87
Liben	1176	30.64	34311	1120	18053	2546.13	83.1
Filtu	7	0.01	47	4700	33	0.95	95
Dolo Odo	363	29.7	32421	1092	16335	2332.19	78.52
Moyale	806	0.93	1842	1981	1685	213	229.03

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)
Somali	32742	7623.69	48054	6	46887	160739.7
Shinele	831	84.82	1240	15	906	2355.66
Shinele	14	0.46	14	30	-	-
Erer	817	84.36	1226	15	906	2355.66
Jijiga	31904	7538.87	46806	6	45980	158384
Jijiga	22196	4101.94	35592	9	34790	52999.03
Teferi Ber	4310	898.41	5000	6	4976	10625.58
Kebri Beyah	5398	2538.52	6214	2	6214	94759.39
Liben	8	-	8	-	-	-
Filtu	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-
Moyale	8	-	8	-	-	-

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)	Production (Qt)	Yield (Qt / Ha)
Somali	32173	7596.23	160577.7	21.14
Shinele	762	80.69	2193.67	27.19
Shinele	14	0.46	-	-
Erer	748	80.23	2193.67	27.34
Jijiga	31404	7515.53	158384	21.07
Jijiga	21720	4080.23	52999.03	12.99
Teferi Ber	4286	896.78	10625.58	11.85
Kebri Beyah	5398	2538.52	94759.39	37.33
Liben	8	-	-	-
Filtu	-	-	-	-
Dolo Odo	-	-	-	-
Moyale	8	-	-	-

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)	Production (Qt)	Yield (Qt / Ha)
Somali	861	27.02	161.99	6
Shinele	121	4.13	161.99	39.22
Shinele	-	-	-	-
Erer	121	4.13	161.99	39.22
Jijiga	740	22.89	-	-
Jijiga	715	21.27	-	-
Teferi Ber	24	1.62	-	-
Kebri Beyah	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo	-	-	-	-
Moyale	-	-	-	-

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)
Somali	30	0.44	1506	3423	1506	-	-
Shinele	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga	30	0.44	1506	3423	1506	-	-
Jijiga	30	0.44	1506	3423	1506	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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)
Somali	112	1.09	120	110	41	45.75	41.97
Shinele	41	0.6	41	68	41	45.75	76.25
Shinele	-	-	-	-	-	-	-
Erer	41	0.6	41	68	41	45.75	76.25
Jijiga	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben	71	0.49	79	161	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	64	0.45	64	142	-	-	-
Moyale	8	0.04	15	375	-	-	-

TABLE B - 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)	Production (Qt)	Yield (Qt / Ha)
Somali	112	1.09	45.75	41.97
Shinele	41	0.6	45.75	76.25
Shinele	-	-	-	-
Erer	41	0.6	45.75	76.25
Jijiga	-	-	-	-
Jijiga	-	-	-	-
Teferi Ber	-	-	-	-
Kebri Beyah	-	-	-	-
Liben	71	0.49	-	-
Filtu	-	-	-	-
Dolo Odo	64	0.45	-	-
Moyale	8	0.04	-	-

TABLE 5.11 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

SOMALI 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	276	55.89							
Fruit Crops	78	14.3	100	*	*	*	*	*	
Avocados	-	-	-	-	-	-	-	-	-
Bananas	26	2.09	14.62	*	*	*	*	*	*
Guavas	42	8.75	61.19	334	38	*	*	*	*
Lemons	15	0.55	3.85	*	*	*	-	-	-
Mangoes	30	1.96	13.71	537	274	*	*	*	*
Oranges	-	-	-	-	-	-	-	-	-
Papayas	18	0.96	6.71	*	*	*	-	-	-
Pineapples	-	-	-	-	-	-	-	-	-
Stimulant Crops	204	41.58	100	4264	103	-	526.77	100	
Chat	198	39.96	96.1				526.77	100	13.18
Coffee	13	1.62	3.9				-	-	-
Hops (Gesho)	-	-	-	-	-	-	-	-	-
Other Permanent	5	-	-	-	-	-	-	-	
Sugar Cane	5	-	-		-	-	-	-	-

TABLE 5.11.1 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

SHINELE ZONE

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	*	*							
Fruit Crops	*	*	*	*	*	*	-	-	
Avocados	-	-	-	-	-	-	-	-	-
Bananas	*	*	*	*	*	*	-	-	-
Guavas	-	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-	-
Mangoes	*	*	*	*	*	*	-	-	-
Oranges	-	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-	-
Stimulant Crops	-	-	-	-	-	-	-	-	
Chat	-	-	-				-	-	-
Coffee	-	-	-				-	-	-
Hops (Gesho)	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	
Sugar Cane	-	-	-		-	-	-	-	-

TABLE 5.11.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

JIJIGA ZONE

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	243	51.51							
Fruit Crops	45	9.93	100	*	*	*	-	-	
Avocados	-	-	-	-	-	-	-	-	-
Bananas	5	0.02	0.2	5	250	5	-	-	-
Guavas	39	8.7	87.61	237	27	42	-	-	-
Lemons	9	0.43	4.33	54	126	9	-	-	-
Mangoes	9	0.47	4.73	55	117	-	-	-	-
Oranges	-	-	-	-	-	-	-	-	-
Papayas	5	0.3	3.02	*	*	*	-	-	-
Pineapples	-	-	-	-	-	-	-	-	-
Stimulant Crops	204	41.58	100	4264	103	-	526.77	100	
Chat	198	39.96	96.1				526.77	100	13.18
Coffee	13	1.62	3.9				-	-	-
Hops (Gesho)	-	-	-	-	-	-	-	-	-
Other Permanent	5	-	-	-	-	-	-	-	
Sugar Cane	5	-	-		-	-	-	-	-

TABLE 5.11.3 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

URBAN HOLDINGS

LIBEN ZONE

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	26	2.92							
Fruit Crops	26	2.92	100	*	*	*	*	*	
Avocados	-	-	-	-	-	-	-	-	-
Bananas	17	*	*	*	*	*	*	*	*
Guavas	*	*	*	*	*	*	*	*	*
Lemons	*	*	*	*	*	*	-	-	-
Mangoes	14	0.39	13.36	*	*	*	*	*	*
Oranges	-	-	-	-	-	-	-	-	-
Papayas	13	*	*	*	*	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-	-
Stimulant Crops	-	-	-	-	-	-	-	-	
Chat	-	-	-				-	-	-
Coffee	-	-	-				-	-	-
Hops (Gesho)	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-	
Sugar Cane	-	-	-		-	-	-	-	-

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)
Somali	276	55.89	11146	199	4829	2319.19
Shinele	7	1.46	190	130	60	-
Shinele	7	1.46	190	130	60	-
Jijiga	243	51.51	5058	98	480	2267.71
Jijiga	185	37.91	2894	76	32	1039.49
Teferi Ber	52	12.93	2149	166	449	1214.58
Kebri Beyah	6	0.68	15	22	-	13.64
Liben	26	2.92	5898	2020	4289	51.47
Filtu	-	-	-	-	-	-
Dolo Odo	26	2.92	5898	2020	4289	51.47

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)
Somali	78	14.3	6882	481	4829	51.47
Shinele	7	1.46	190	130	60	-
Shinele	7	1.46	190	130	60	-
Jijiga	45	9.93	793	80	480	-
Jijiga	37	8.49	178	21	32	-
Teferi Ber	5	1.3	600	462	449	-
Kebri Beyah	3	0.14	15	107	-	-
Liben	26	2.92	5898	2020	4289	51.47
Filtu	-	-	-	-	-	-
Dolo Odo	26	2.92	5898	2020	4289	51.47

TABLE A - 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)
Somali	26	2.09	5357	2563	4202	36.08	17.26
Shinele	4	0.35	26	74	26	-	-
Shinele	4	0.35	26	74	26	-	-
Jijiga	5	0.02	5	250	5	-	-
Jijiga	5	0.02	5	250	5	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben	17	1.71	5325	3114	4170	36.08	21.1
Filtu	-	-	-	-	-	-	-
Dolo Odo	17	1.71	5325	3114	4170	36.08	21.1

TABLE B - 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)
Somali	42	8.75	334	38	107	1.93	0.22
Shinele	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga	39	8.7	237	27	42	-	-
Jijiga	31	8.13	118	15	26	-	-
Teferi Ber	5	0.43	104	242	16	-	-
Kebri Beyah	3	0.14	15	107	-	-	-
Liben	3	0.05	96	1920	64	1.93	38.6
Filtu	-	-	-	-	-	-	-
Dolo Odo	3	0.05	96	1920	64	1.93	38.6

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)
Somali	15	0.55	140	255	51	-	-
Shinele	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga	9	0.43	54	126	9	-	-
Jijiga	4	0.1	12	120	-	-	-
Teferi Ber	5	0.33	42	127	9	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben	6	0.11	87	791	42	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	6	0.11	87	791	42	-	-

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)
Somali	30	1.96	537	274	46	13.47	6.87
Shinele	7	1.11	164	148	34	-	-
Shinele	7	1.11	164	148	34	-	-
Jijiga	9	0.47	55	117	-	-	-
Jijiga	6	0.23	42	183	-	-	-
Teferi Ber	3	0.23	13	57	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben	14	0.39	318	815	13	13.47	34.54
Filtu	-	-	-	-	-	-	-
Dolo Odo	14	0.39	318	815	13	13.47	34.54

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)
Somali	18	0.96	514	535	423	-	-
Shinele	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga	5	0.3	442	1473	423	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	5	0.3	442	1473	423	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben	13	0.66	73	111	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	13	0.66	73	111	-	-	-

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)
Somali	204	41.58	4264	103	-	2267.71
Shinele	-	-	-	-	-	-
Shinele	-	-	-	-	-	-
Jijiga	204	41.58	4264	103	-	2267.71
Jijiga	154	29.41	2716	92	-	1039.49
Teferi Ber	47	11.63	1548	133	-	1214.58
Kebri Beyah	3	0.54	-	-	-	13.64
Liben	-	-	-	-	-	-
Filtu	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-

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)
Somali	198	39.96	1868	47	-	2267.71	56.75
Shinele	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga	198	39.96	1868	47	-	2267.71	56.75
Jijiga	148	27.79	320	12	-	1039.49	37.41
Teferi Ber	47	11.63	1548	133	-	1214.58	104.44
Kebri Beyah	3	0.54	-	-	-	13.64	25.26
Liben	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

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)
Somali	13	1.62	2396	1479	-	-	-
Shinele	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga	13	1.62	2396	1479	-	-	-
Jijiga	13	1.62	2396	1479	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

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 5.13 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

ALL HOLDINGS

SOMALI 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	35945	8090.74							
Fruit Crops	4499	424.37	100	522305	1231	321383	34027.77	100	
Avocados	-	-	-	-	-	-	-	-	-
Bananas	1484	191.29	45.08	350961	1835	226381	18371.25	53.99	96.04
Guavas	1119	40.48	9.54	*	*	10542	189.57	0.56	4.68
Lemons	979	34.69	8.17	17729	511	12698	1493.22	4.39	43.04
Mangoes	1562	42	9.9	7419	177	5833	*	*	*
Oranges	679	55.35	13.04	39167	708	28183	9272.39	27.25	167.52
Papayas	1760	60.57	14.27	*	*	37746	*	*	*
Pineapples	-	-	-	-	-	-	-	-	-
Stimulant Crops	32946	7665.27	100	52318	7	46871	96876.66	100	
Chat	32371	7636.19	99.62				96835.93	99.96	12.68
Coffee	*	*	*				40.73	0.04	*
Hops (Gesho)	*	*	*	*	*	*	-	-	-
Other Permanent	117	1.09	100	120	110	41	45.75	100	
Sugar Cane	117	1.09	100		110	41	45.75	100	41.97

TABLE 5.13.1 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS

ALL HOLDINGS

SHINELE ZONE

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	1387	287.53							
Fruit Crops	1181	202.11	100	190072	940	141940	22118.72	100	
Avocados	-	-	-	-	-	-	-	-	-
Bananas	819	96.54	47.7 7	131227	1359	97236	11080.83	50.1	114.78
Guavas	78	2.12	1.05	847	400	840	-	-	-
Lemons	648	31.78	15.7 2	16344	514	11745	1459.49	6.6	45.92
Mangoes	412	18.67	9.24	2747	147	2132	-	-	-
Oranges	633	48.13	23.8 1	35000	727	26692	9272.39	41.9 2	192.65
Papayas	186	4.87	2.41	3908	802	3295	306.01	1.38	62.84
Pineapples	-	-	-	-	-	-	-	-	-
Stimulant Crops	831	84.82	100	1240	15	906	1139.38	100	
Chat	762	80.69	95.1 3				1098.65	96.4 3	13.62
Coffee	121	4.13	4.87				40.73	3.57	9.86
Hops (Gesho)	-	-	-	-	-	-	-	-	-
Other Permanent	41	*	*	41	*	41	45.75	100	
Sugar Cane	41	*	*		*	41	45.75	100	*

TABLE 5.13.2 - ESTIMATE OF HOLDERS, AREA, PRODUCTION AND YIELD OF PERMANENT CROPS FOR PRIVATE PEASANT HOLDINGS ALL HOLDINGS

JIJIGA ZONE

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	32279	7650.84							
Fruit Crops	1055	*	*	*	*	*	*	*	
Avocados	-	-	-	-	-	-	-	-	-
Bananas	*	*	*	*	*	*	-	-	-
Guavas	615	*	*	*	*	*	*	*	*
Lemons	*	*	*	*	*	364	-	-	-
Mangoes	*	*	*	*	*	*	-	-	-
Oranges	*	*	*	*	*	*	-	-	-
Papayas	*	24.4	*	*	*	*	*	*	*
Pineapples	-	-	-	-	-	-	-	-	-
Stimulant Crops	32108	7580.45	100	51071	7	45965	95737.28	100	
Chat	31602	7555.49	99.6 7				95737.28	100	12.67
Coffee	*	*	*				-	-	-
Hops (Gesho)	*	*	*	*	*	*	-	-	-
Other Permanent	5	-	-	-	-	-	-	-	
Sugar Cane	5	-	-		-	-	-	-	-

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)
Somali	35945	8090.74	574742	71	368295	130950.2
Shinele	1387	287.53	191353	666	142887	23303.85
Shinele	*	*	*	*	*	-
Erer	1352	283.48	188424	665	140966	23303.85
Jijiga	32279	7650.84	119689	16	73909	96082.71
Jijiga	22464	4154.4	43841	11	39959	53484.39
Teferi Ber	4386	915.42	11256	12	9509	10799.1
Kebri Beyah	5430	2581.03	*	*	*	31799.23
Liben	2279	*	*	*	*	*
Filtu	*	*	*	*	*	*
Dolo Odo	1261	*	*	*	*	*
Moyale	1011	2.93	4704	1605	3107	266.3

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)
Somali	4499	424.37	522305	1231	321383	34027.77
Shinele	1181	202.11	190072	940	141940	22118.72
Shinele	*	*	*	*	*	-
Erer	1146	198.52	187157	943	140019	22118.72
Jijiga	1055	*	*	*	*	*
Jijiga	904	23.04	*	*	*	*
Teferi Ber	*	*	*	*	*	-
Kebri Beyah	*	*	*	*	*	*
Liben	2263	*	*	*	*	*
Filtu	*	*	*	*	*	*
Dolo Odo	1245	*	*	*	*	*
Moyale	1011	2.89	4682	1620	3107	266.3

TABLE A - 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)
Somali	1484	191.29	350961	1835	226381	18371.25	96.04
Shinele	819	96.54	131227	1359	97236	11080.83	114.78
Shinele	*	*	*	*	*	-	-
Erer	802	95.49	129291	1354	95900	11080.83	116.04
Jijiga	*	*	*	*	*	-	-
Jijiga	*	*	*	*	*	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben	485	*	*	*	*	*	*
Filtu	-	-	-	-	-	-	-
Dolo Odo	413	*	*	*	*	*	*
Moyale	71	0.2	605	3025	443	20.18	100.9

TABLE B - 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)
Somali	1119	40.48	*	*	10542	189.57	4.68
Shinele	78	2.12	847	400	840	-	-
Shinele	*	*	*	*	*	-	-
Erer	57	1.99	749	376	749	-	-
Jijiga	615	*	*	*	*	*	*
Jijiga	463	15.04	1251	83	*	*	*
Teferi Ber	*	2.49	*	*	1976	-	-
Kebri Beyah	*	*	*	*	*	-	-
Liben	426	3.95	3288	832	1735	82.54	20.9
Filtu	-	-	-	-	-	-	-
Dolo Odo	163	2.25	1169	520	872	51.4	22.84
Moyale	263	*	*	*	*	*	*

TABLE C - 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)
Somali	979	34.69	17729	511	12698	1493.22	43.04
Shinele	648	31.78	16344	514	11745	1459.49	45.92
Shinele	-	-	-	-	-	-	-
Erer	648	31.78	16344	514	11745	1459.49	45.92
Jijiga	*	*	*	*	364	-	-
Jijiga	*	*	*	*	*	-	-
Teferi Ber	*	0.4	66	165	33	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben	*	*	*	*	*	*	*
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	*
Moyale	*	*	*	*	*	*	*

TABLE D - 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)
Somali	1562	42	7419	177	5833	*	*
Shinele	412	18.67	2747	147	2132	-	-
Shinele	*	*	*	*	*	-	-
Erer	399	17.51	2548	146	2064	-	-
Jijiga	*	*	*	*	*	-	-
Jijiga	*	*	*	*	*	-	-
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben	915	20.75	4345	209	3524	*	*
Filtu	-	-	-	-	-	-	-
Dolo Odo	832	20.73	4249	205	3428	*	*
Moyale	83	*	95	*	95	-	-

TABLE E - 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)
Somali	679	55.35	39167	708	28183	9272.39	167.52
Shinele	633	48.13	35000	727	26692	9272.39	192.65
Shinele	*	*	*	*	*	-	-
Erer	606	46.89	34331	732	26280	9272.39	197.75
Jijiga	*	*	*	*	*	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	*	-	-
Liben	*	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	-	-
Moyale	-	-	-	-	-	-	-

TABLE F - 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)
Somali	1760	60.57	*	*	37746	*	*
Shinele	186	4.87	3908	802	3295	306.01	62.84
Shinele	*	*	*	*	*	-	-
Erer	179	4.86	3894	801	3281	306.01	62.97
Jijiga	*	24.4	*	*	*	*	*
Jijiga	*	*	*	*	*	*	*
Teferi Ber	*	2.25	*	*	*	-	-
Kebri Beyah	*	*	*	*	*	*	*
Liben	1189	*	*	*	18053	*	*
Filtu	*	*	*	*	*	*	*
Dolo Odo	376	*	*	*	*	*	*
Moyale	806	0.93	1842	1981	1685	213	229.03

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)
Somali	32946	7665.27	52318	7	46871	96876.66
Shinele	831	84.82	1240	15	906	1139.38
Shinele	*	*	*	*	-	-
Erer	817	84.36	1226	15	906	1139.38
Jijiga	32108	7580.45	51071	7	45965	95737.28
Jijiga	22350	4131.35	38308	9	34790	53345.46
Teferi Ber	4357	910.04	6549	7	4976	10799.1
Kebri Beyah	5401	2539.06	6214	2	6199	31592.73
Liben	*	*	*	*	-	-
Filtu	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-
Moyale	*	*	*	*	-	-

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)	Production (Qt)	Yield (Qt / Ha)
Somali	32371	7636.19	96835.93	12.68
Shinele	762	80.69	1098.65	13.62
Shinele	*	*	-	-
Erer	748	80.23	1098.65	13.69
Jijiga	31602	7555.49	95737.28	12.67
Jijiga	21868	4108.02	53345.46	12.99
Teferi Ber	4333	908.41	10799.1	11.89
Kebri Beyah	5401	2539.06	31592.73	12.44
Liben	*	*	-	-
Filtu	-	-	-	-
Dolo Odo	-	-	-	-
Moyale	*	*	-	-

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)	Production (Qt)	Yield (Qt / Ha)
Somali	*	*	40.73	*
Shinele	121	4.13	40.73	9.86
Shinele	-	-	-	-
Erer	121	4.13	40.73	9.86
Jijiga	*	*	-	-
Jijiga	*	*	-	-
Teferi Ber	*	*	-	-
Kebri Beyah	-	-	-	-
Liben	-	-	-	-
Filtu	-	-	-	-
Dolo Odo	-	-	-	-
Moyale	-	-	-	-

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)
Somali	*	*	*	*	*	-	-
Shinele	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga	*	*	*	*	*	-	-
Jijiga	*	*	*	*	*	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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)
Somali	117	1.09	120	110	41	45.75
Shinele	41	*	41	*	41	45.75
Shinele	-	-	-	-	-	-
Erer	41	0.6	41	68	41	45.75
Jijiga	5	-	-	-	-	-
Jijiga	5	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-
Liben	71	*	79	*	-	-
Filtu	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-
Moyale	*	*	*	*	-	-

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)	Production (Qt)	Yield (Qt / Ha)
Somali	117	1.09	45.75	41.97
Shinele	41	*	45.75	*
Shinele	-	-	-	-
Erer	41	0.6	45.75	76.25
Jijiga	5	-	-	-
Jijiga	5	-	-	-
Teferi Ber	-	-	-	-
Kebri Beyah	-	-	-	-
Liben	71	*	-	-
Filtu	-	-	-	-
Dolo Odo	*	*	-	-
Moyale	*	*	-	-

TABLE 5.15 - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

SOMALI REGION

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	728958.5	69.4	14.26	13.72	-	0.8	1.83
Cereals	720027.5	70.93	13.75	12.23	0.36	0.81	1.92
Teff	*	22.51	10.24	67.25	-	-	-
Barley	57738.06	59.38	15	21	0.19	0.43	4
Wheat	109987.4	69.73	15.19	12.67	0.61	0.14	1.67
Maize	267050.9	73.87	12.9	9.7	0.23	1.66	1.64
Sorghum	281085.4	74.15	12.23	11.14	0.45	0.38	1.65
Finger millet	-	-	-	-	-	-	-
Oats "Aja"	3954.6	57.47	28.76	12.4	0.31	0.54	0.53
Rice	-	-	-	-	-	-	-
Pulses	6558.32	52.13	16.76	29.73	-	0.95	0.43
Horse beans	*	90	10	-	-	-	-
Field peas	*	65.52	15.63	18.85	-	-	-
Haricot beans	2417.83	62.08	19.12	16.19	-	2.18	0.44
Chick – peas	*	36.43	12.35	50.84	-	-	0.39
Lentils	862.73	63.87	24.46	11.66	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	189.84	19.68	11.81	66.74	-	-	1.77
Gibto	-	-	-	-	-	-	-
Oilseeds	2372.7	34.14	31.01	34.45	0.05	-	0.35
Neug	-	-	-	-	-	-	-
Linseed	1409.81	32.28	32.74	34.58	0.05	-	0.35
Groundnuts	*	54.08	16.46	29.46	-	-	-
Safflower	-	-	-	-	-	-	-
Sesame	*	5.02	4.98	84.98	-	-	5.02
Rapeseed	-	-	-	-	-	-	-
Vegetables	11453.05	34.77	1.08	60.89	-	0.01	3.24
Lettuce	-	-	-	-	-	-	-
Head cabbage	*	10	-	90	-	-	-
Ethiopian cabbage	*	-	-	100	-	-	-
Tomatoes	9505.12	35.14	0.6	61.85	-	0.02	2.4
Green peppers	*	46.09	3.11	43.36	-	-	7.44
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	94042.5	20.02	19.83	59.75	0.05	-	0.35
Beetroot	*	10	-	85.73	-	-	4.27
Carrot	-	-	-	-	-	-	-
Onion	32935.83	17.83	22.47	59.56	-	-	0.13
Potatoes	4739.76	85.73	0.73	13.54	-	-	-
Garlic	40324.83	7.95	22.54	68.94	0.11	-	0.46
Taro / Godere	-	-	-	-	-	-	-
Sweet potatoes	15454.5	83.48	0.67	13.59	-	0.29	1.98
Permanent crops	130372.9	27.75	0.66	64.84	0.34	0.09	6.31
Avocados	-	-	-	-	-	-	-
Bananas	18335.17	9.5	1.63	85.52	-	-	3.35
Guavas	188.61	67.09	-	24.56	1.53	-	6.82
Lemons	1493.22	6.11	-	93.19	0.55	-	0.15
Mangoes	*	30	3.56	53.98	5.97	0.48	6.01
Oranges	9272.39	6.48	2.88	88.97	-	-	1.66
Papayas	*	53.23	-	43.12	-	1.05	2.6
Pineapple	-	-	-	-	-	-	-
Chat	96309.16	27.87	0.55	64.43	0.2	0.04	6.91
Coffee	40.73	40.4	-	59.6	-	-	-
Hops	-	-	-	-	-	-	-
Sugar cane	45.75	4.3	-	94.27	-	-	1.43

TABLE 5.15.1 - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

SHINELE ZONE

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Grain Crops	10276.59	88.83	7.73	0.68	-	0.07	2.7
Cereals	10276.59	88.83	7.73	0.44	0.24	0.07	2.7
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	789.82	93.19	6.61	-	-	-	0.2
Sorghum	9486.78	87.58	8.05	0.56	0.31	0.08	3.42
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	1788.56	36.06	1.86	61.37	-	0.03	0.69
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-
Tomatoes	1396.92	39.44	0.01	60.05	-	0.04	0.46
Green peppers	391.63	25.27	7.74	65.57	-	-	1.42
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	2096.8	13.77	2.64	83.59	-	-	-
Beetroot	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	*	13.77	2.64	83.59	-	-	-
Potatoes	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-
Taro / Godere	-	-	-	-	-	-	-
Sweet potatoes	1996.6	43.25	-	53.78	-	-	2.97
Permanent crops	23303.85	10.99	0.53	85.44	-	-	3.04
Avocados	-	-	-	-	-	-	-
Bananas	11080.83	6.58	-	91.61	-	-	1.81
Guavas	-	-	-	-	-	-	-
Lemons	1459.49	3.75	-	96.08	-	-	0.17
Mangoes	-	-	-	-	-	-	-
Oranges	9272.39	6.48	2.88	88.97	-	-	1.66
Papayas	306.01	7.6	-	91.49	-	-	0.91
Pineapple	-	-	-	-	-	-	-
Chat	1098.65	25.8	-	63.83	-	-	10.37
Coffee	40.73	40.4	-	59.6	-	-	-
Hops	-	-	-	-	-	-	-
Sugar cane	45.75	4.3	-	94.27	-	-	1.43

TABLE 5.15.2 - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

JIJIGA ZONE

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	694164.5	69.36	14.45	14.08	-	0.35	1.77
Cereals	686823.2	70.97	13.92	12.54	0.34	0.37	1.86
Teff	*	22.51	10.24	67.25	-	-	-
Barley	57738.06	59.38	15	21	0.19	0.43	4
Wheat	109975.4	69.73	15.19	12.67	0.61	0.14	1.67
Maize	248854.7	75.09	13	9.68	0.15	0.55	1.53
Sorghum	266089.3	73.62	12.44	11.68	0.46	0.28	1.52
Finger millet	-	-	-	-	-	-	-
Oats "Aja"	3954.6	57.47	28.76	12.4	0.31	0.54	0.53
Rice	-	-	-	-	-	-	-
Pulses	5358.51	48.85	17.13	33.72	-	-	0.29
Horse beans	*	90	10	-	-	-	-
Field peas	*	65.52	15.63	18.85	-	-	-
Haricot beans	1218.03	58.39	21.88	19.72	-	-	-
Chick – peas	*	36.43	12.35	50.84	-	-	0.39
Lentils	862.73	63.87	24.46	11.66	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	189.84	19.68	11.81	66.74	-	-	1.77
Gibto	-	-	-	-	-	-	-
Oilseeds	1982.75	34.35	31.19	34.1	0.05	-	0.32
Neug	-	-	-	-	-	-	-
Linseed	1409.81	32.28	32.74	34.58	0.05	-	0.35
Groundnuts	*	54.08	16.46	29.46	-	-	-
Safflower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Vegetables	*	36.8	0.56	58.78	-	-	3.86
Lettuce	-	-	-	-	-	-	-
Head cabbage	*	10	-	90	-	-	-
Ethiopian cabbage	*	-	-	100	-	-	-
Tomatoes	*	36.44	0.95	60.66	-	-	1.95
Green peppers	*	60.12	-	28.38	-	-	11.5
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	91472.95	20.11	20.11	59.42	0.05	-	0.3
Beetroot	*	10	-	85.73	-	-	4.27
Carrot	-	-	-	-	-	-	-
Onion	32719.97	17.99	23.31	58.7	-	-	-
Potatoes	4739.76	85.73	0.73	13.54	-	-	-
Garlic	40324.83	7.95	22.54	68.94	0.11	-	0.46
Taro / Godere	-	-	-	-	-	-	-
Sweet potatoes	*	93.98	0.84	3.65	-	-	1.54
Permanent crops	95555.94	28.49	0.55	63.96	0.2	0.04	6.76
Avocados	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-
Guavas	*	78.5	-	21.5	-	-	-
Lemons	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-
Papayas	*	81.08	-	18.92	-	-	-
Pineapple	-	-	-	-	-	-	-
Chat	95210.51	27.92	0.56	64.45	0.2	0.04	6.84
Coffee	-	-	-	-	-	-	-
Hops	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-

TABLE 5.15.3 - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

LIBEN ZONE

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Grain Crops	24517.43	63.8	12.85	11.39	-	9.34	2.61
Cereals	22927.67	63.45	12.57	10.46	0.74	9.96	2.83
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	*	-	-	-	-	-	-
Maize	17406.41	63.03	12.74	10.71	0.81	10.1	2.62
Sorghum	5509.28	67.56	10.85	8.08	-	8.56	4.95
Finger millet	-	-	-	-	-	-	-
Oats "Aja"	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulses	1199.8	67.58	14.99	10.91	-	5.43	1.08
Horse beans	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	1199.8	67.58	14.99	10.91	-	5.43	1.08
Chick – peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oilseeds	*	5.02	4.98	84.98	-	-	5.02
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-
Sesame	*	5.02	4.98	84.98	-	-	5.02
Rapeseed	-	-	-	-	-	-	-
Vegetables	*	20.44	1.06	69.88	-	-	8.62
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Ethiopian cabbage	*	-	-	-	-	-	-
Tomatoes	*	20.44	1.06	69.88	-	-	8.62
Green peppers	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	*	13.92	-	78.11	-	-	7.97
Beetroot	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	*	13.92	-	78.11	-	-	7.97
Potatoes	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-
Taro / Godere	-	-	-	-	-	-	-
Sweet potatoes	*	36.87	-	52.09	-	5.28	5.77
Permanent crops	*	38.31	1.96	51.68	2.22	0.66	5.16
Avocados	-	-	-	-	-	-	-
Bananas	*	14.47	4.39	75.18	-	-	5.96
Guavas	81.58	57.63	-	27.1	2.79	-	12.48
Lemons	*	25.05	-	70	4.95	-	-
Mangoes	*	30	3.56	53.98	5.97	0.48	6.01
Oranges	-	-	-	-	-	-	-
Papayas	*	54.21	-	41.33	-	1.31	3.15
Pineapple	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-
Hops	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-

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
Somale Killil	728958.48	69.4	14.26	13.72	-	0.8	1.83
Shinele Zone	10276.59	88.83	7.73	0.68	-	0.07	2.7
Shinele	904.64	86.94	5.68	1.05	-	0.41	5.92
Erer	9371.95	89.09	8	0.63	-	0.02	2.27
Jijiga Zone	694164.47	69.36	14.45	14.08	-	0.35	1.77
Jijiga	379407.25	67.84	16	13.82	-	0.3	2.03
Teferi Ber	128813.71	68.19	12.36	17.33	-	0.51	1.62
Kebri Beyah	185943.5	77.96	10.93	9.97	-	0.3	0.83
Liben Zone	24517.43	63.8	12.85	11.39	-	9.34	2.61
Filtu	2384.34	65.81	13.62	17.84	-	0.44	2.29
Dolo Odo	18534.73	56.27	11.38	8.28	-	20.38	3.7
Moyale	3598.36	72.38	14.33	11.75	-	0.16	1.39

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
Somale Killil	720027.47	70.93	13.75	12.23	0.36	0.81	1.92
Shinele Zone	10276.59	88.83	7.73	0.44	0.24	0.07	2.7
Shinele	904.64	86.94	5.68	1.05	-	0.41	5.92
Erer	9371.95	89.09	8	0.35	0.28	0.02	2.27
Jijiga Zone	686823.2	70.97	13.92	12.54	0.34	0.37	1.86
Jijiga	372970.34	70.32	15.32	11.48	0.37	0.33	2.18
Teferi Ber	128410.33	68.42	12.2	16.82	0.4	0.52	1.64
Kebri Beyah	185442.54	77.76	10.94	10	0.14	0.31	0.85
Liben Zone	22927.67	63.45	12.57	10.46	0.74	9.96	2.83
Filtu	2303.56	65.63	14.03	17.3	0.41	0.45	2.18
Dolo Odo	17227.83	57.92	11.21	5.45	1.33	20.25	3.84
Moyale	3396.28	70.7	13.7	13.69	0.02	0.21	1.68

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
Somale Killil	*	22.51	10.24	67.25	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	*	22.51	10.24	67.25	-	-	-
Jijiga	*	22.51	10.24	67.25	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	57738.06	59.38	15	21	0.19	0.43	4
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	57738.06	59.38	15	21	0.19	0.43	4
Jijiga	42815.61	56.35	17.09	21.58	0.11	0.17	4.69
Teferi Ber	11858.3	66.25	9.58	20.14	0.4	1.24	2.39
Kebri Beyah	*	73.84	8.31	15.97	0.4	0.53	0.95
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	109987.35	69.73	15.19	12.67	0.61	0.14	1.67
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	109975.37	69.73	15.19	12.67	0.61	0.14	1.67
Jijiga	87193.94	69.52	16.42	11.53	0.59	0.11	1.84
Teferi Ber	14061.27	69.06	10.98	17.95	0.69	-	1.31
Kebri Beyah	*	73.99	10.2	13.86	0.6	0.93	0.41
Liben Zone	*	-	-	-	-	-	-
Filtu	*	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	*	-	-	-	-	-	-

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
Somale Killil	281085.37	74.15	12.23	11.14	0.45	0.38	1.65
Shinele Zone	9486.78	87.58	8.05	0.56	0.31	0.08	3.42
Shinele	834.91	86.71	5.74	1.07	-	0.42	6.06
Erer	8651.87	87.73	8.45	0.47	0.37	0.03	2.96
Jijiga Zone	266089.32	73.62	12.44	11.68	0.46	0.28	1.52
Jijiga	147105.34	75.71	12.77	9.03	0.46	0.27	1.75
Teferi Ber	68772.07	68.39	13.05	16.3	0.57	0.33	1.37
Kebri Beyah	50211.9	76.93	9.33	12.62	0.14	0.16	0.81
Liben Zone	5509.28	67.56	10.85	8.08	-	8.56	4.95
Filtu	1599.27	67.81	6.57	13.38	-	-	12.24
Dolo Odo	3731.43	67.25	10.45	8.2	-	9.23	4.86
Moyale	*	75	25	-	-	-	-

TABLE E - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

OATS/AJA

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somale Killil	3954.6	57.47	28.76	12.4	0.31	0.54	0.53
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	3954.6	57.47	28.76	12.4	0.31	0.54	0.53
Jijiga	3467.06	60.01	30.23	9.15	0.05	-	0.56
Teferi Ber	487.54	41.85	19.75	32.34	1.87	3.83	0.35
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	6558.32	52.13	16.76	29.73	-	0.95	0.43
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	5358.51	48.85	17.13	33.72	-	-	0.29
Jijiga	4476.66	44.09	17.22	38.34	-	-	0.35
Teferi Ber	380.89	61.47	22.23	16.3	-	-	-
Kebri Beyah	500.96	89.84	10.16	-	-	-	-
Liben Zone	1199.8	67.58	14.99	10.91	-	5.43	1.08
Filtu	76.07	67.8	9.11	19.2	-	0.33	3.55
Dolo Odo	921.65	37.3	14.53	22.07	-	24.67	1.43
Moyale	202.08	77.66	16.31	5.55	-	-	0.48

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
Somale Killil	*	90	10	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	*	90	10	-	-	-	-
Jijiga	*	90	10	-	-	-	-
Teferi Ber	*	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	*	65.52	15.63	18.85	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	*	65.52	15.63	18.85	-	-	-
Jijiga	*	59.59	13.7	26.7	-	-	-
Teferi Ber	14.88	81.31	18.69	-	-	-	-
Kebri Beyah	*	70	30	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

FENU GREEK

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somale Killil	189.84	19.68	11.81	66.74	-	-	1.77
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	189.84	19.68	11.81	66.74	-	-	1.77
Jijiga	182.18	19.71	7.21	71.03	-	-	2.04
Teferi Ber	*	19.45	41.66	38.9	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	2372.7	34.14	31.01	34.45	0.05	-	0.35
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	1982.75	34.35	31.19	34.1	0.05	-	0.32
Jijiga	1960.25	34.48	31.6	33.6	0.05	-	0.28
Teferi Ber	22.5	30.91	20.94	46.81	-	-	1.34
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	5.02	4.98	84.98	-	-	5.02
Filtu	*	-	-	-	-	-	-
Dolo Odo	*	5.02	4.98	84.98	-	-	5.02
Moyale	-	-	-	-	-	-	-

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

LINE SEED

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somale Killil	1409.81	32.28	32.74	34.58	0.05	-	0.35
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	1409.81	32.28	32.74	34.58	0.05	-	0.35
Jijiga	1387.31	32.34	33.25	34.05	0.05	-	0.31
Teferi Ber	22.5	30.91	20.94	46.81	-	-	1.34
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION
RURAL HOLDINGS

GROUND NUTS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somale Killil	*	54.08	16.46	29.46	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	*	54.08	16.46	29.46	-	-	-
Jijiga	*	54.08	16.46	29.46	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE C - 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
Somale Killil	*	5.02	4.98	84.98	-	-	5.02
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	5.02	4.98	84.98	-	-	5.02
Filtu	*	-	-	-	-	-	-
Dolo Odo	*	5.02	4.98	84.98	-	-	5.02
Moyale	-	-	-	-	-	-	-

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
Somale Killil	11453.05	34.77	1.08	60.89	-	0.01	3.24
Shinele Zone	1788.56	36.06	1.86	61.37	-	0.03	0.69
Shinele	-	-	-	-	-	-	-
Erer	1788.56	36.06	1.86	61.37	-	0.03	0.69
Jijiga Zone	*	36.8	0.56	58.78	-	-	3.86
Jijiga	*	41.36	-	54.08	-	-	4.56
Teferi Ber	*	20	20	60	-	-	-
Kebri Beyah	*	10	-	90	-	-	-
Liben Zone	*	20.44	1.06	69.88	-	-	8.62
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	20.44	1.06	69.88	-	-	8.62
Moyale	*	-	-	-	-	-	-

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
Somale Killil	*	10	-	90	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	*	10	-	90	-	-	-
Jijiga	*	10	-	90	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	*	-	-	100	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	*	-	-	100	-	-	-
Jijiga	*	-	-	100	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE C - CROP PRODUCTION AND PERCENT QF UTILIZATION
RURAL HOLDINGS

TOMATOES

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somale Killil	9505.12	35.14	0.6	61.85	-	0.02	2.4
Shinele Zone	1396.92	39.44	0.01	60.05	-	0.04	0.46
Shinele	-	-	-	-	-	-	-
Erer	1396.92	39.44	0.01	60.05	-	0.04	0.46
Jijiga Zone	*	36.44	0.95	60.66	-	-	1.95
Jijiga	*	42.03	-	55.57	-	-	2.4
Teferi Ber	*	20	20	60	-	-	-
Kebri Beyah	*	10	-	90	-	-	-
Liben Zone	*	20.44	1.06	69.88	-	-	8.62
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	20.44	1.06	69.88	-	-	8.62
Moyale	*	-	-	-	-	-	-

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
Somale Killil	9505.12	35.14	0.6	61.85	-	0.02	2.4
Shinele Zone	1396.92	39.44	0.01	60.05	-	0.04	0.46
Shinele	-	-	-	-	-	-	-
Erer	1396.92	39.44	0.01	60.05	-	0.04	0.46
Jijiga Zone	*	36.44	0.95	60.66	-	-	1.95
Jijiga	*	42.03	-	55.57	-	-	2.4
Teferi Ber	*	20	20	60	-	-	-
Kebri Beyah	*	10	-	90	-	-	-
Liben Zone	*	20.44	1.06	69.88	-	-	8.62
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	20.44	1.06	69.88	-	-	8.62
Moyale	*	-	-	-	-	-	-

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
Somale Killil	94042.5	20.02	19.83	59.75	0.05	-	0.35
Shinele Zone	2096.8	13.77	2.64	83.59	-	-	-
Shinele	*	-	-	-	-	-	-
Erer	2034	13.77	2.64	83.59	-	-	-
Jijiga Zone	91472.95	20.11	20.11	59.42	0.05	-	0.3
Jijiga	88994.04	20.15	20.34	59.15	0.05	-	0.31
Teferi Ber	*	30	10	60	-	-	-
Kebri Beyah	*	7.49	2.51	90	-	-	-
Liben Zone	*	13.92	-	78.11	-	-	7.97
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	13.92	-	78.11	-	-	7.97
Moyale	*	-	-	-	-	-	-

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
Somale Killil	*	10	-	85.73	-	-	4.27
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	*	10	-	85.73	-	-	4.27
Jijiga	*	10	-	85.73	-	-	4.27
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	32935.83	17.83	22.47	59.56	-	-	0.13
Shinele Zone	*	13.77	2.64	83.59	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	*	13.77	2.64	83.59	-	-	-
Jijiga Zone	32719.97	17.99	23.31	58.7	-	-	-
Jijiga	30770.23	18	24.06	57.94	-	-	-
Teferi Ber	*	30	10	60	-	-	-
Kebri Beyah	*	7.49	2.51	90	-	-	-
Liben Zone	*	13.92	-	78.11	-	-	7.97
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	13.92	-	78.11	-	-	7.97
Moyale	-	-	-	-	-	-	-

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
Somale Killil	4739.76	85.73	0.73	13.54	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	4739.76	85.73	0.73	13.54	-	-	-
Jijiga	4447.87	85.73	0.73	13.54	-	-	-
Teferi Ber	*	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	40324.83	7.95	22.54	68.94	0.11	-	0.46
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	40324.83	7.95	22.54	68.94	0.11	-	0.46
Jijiga	40262.61	7.95	22.54	68.94	0.11	-	0.46
Teferi Ber	*	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	15454.5	83.48	0.67	13.59	-	0.29	1.98
Shinele Zone	1996.6	43.25	-	53.78	-	-	2.97
Shinele	*	-	-	-	-	-	-
Erer	1933.8	43.25	-	53.78	-	-	2.97
Jijiga Zone	*	93.98	0.84	3.65	-	-	1.54
Jijiga	*	93.98	0.84	3.65	-	-	1.54
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-
Liben Zone	*	36.87	-	52.09	-	5.28	5.77
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	36.87	-	52.09	-	5.28	5.77
Moyale	*	-	-	-	-	-	-

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
Somale Killil	130372.91	27.75	0.66	64.84	0.34	0.09	6.31
Shinele Zone	23303.85	10.99	0.53	85.44	-	-	3.04
Shinele	-	-	-	-	-	-	-
Erer	23303.85	10.99	0.53	85.44	-	-	3.04
Jijiga Zone	95555.94	28.49	0.55	63.96	0.2	0.04	6.76
Jijiga	53137.96	25.1	0.19	67.84	0.27	0.01	6.58
Teferi Ber	10625.58	54.79	-	28.63	-	0.38	16.2
Kebri Beyah	31792.41	30.71	2.15	63.53	-	-	3.61
Liben Zone	*	38.31	1.96	51.68	2.22	0.66	5.16
Filtu	*	-	-	-	-	-	-
Dolo Odo	*	28.78	2.67	58.46	3.02	0.9	6.16
Moyale	266.3	64.51	-	33.07	-	-	2.42

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
Somale Killil	18335.17	9.5	1.63	85.52	-	-	3.35
Shinele Zone	11080.83	6.58	-	91.61	-	-	1.81
Shinele	-	-	-	-	-	-	-
Erer	11080.83	6.58	-	91.61	-	-	1.81
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	14.47	4.39	75.18	-	-	5.96
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	13.73	4.7	75.19	-	-	6.38
Moyale	20.18	25	-	75	-	-	-

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
Somale Killil	188.61	67.09	-	24.56	1.53	-	6.82
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	*	78.5	-	21.5	-	-	-
Jijiga	*	78.5	-	21.5	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	81.58	57.63	-	27.1	2.79	-	12.48
Filtu	-	-	-	-	-	-	-
Dolo Odo	50.44	58.43	-	21.9	3.59	-	16.07
Moyale	*	54.82	-	45.18	-	-	-

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
Somale Killil	1493.22	6.11	-	93.19	0.55	-	0.15
Shinele Zone	1459.49	3.75	-	96.08	-	-	0.17
Shinele	-	-	-	-	-	-	-
Erer	1459.49	3.75	-	96.08	-	-	0.17
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	25.05	-	70	4.95	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	25.05	-	70	4.95	-	-
Moyale	*	-	-	-	-	-	-

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
Somale Killil	*	30	3.56	53.98	5.97	0.48	6.01
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	30	3.56	53.98	5.97	0.48	6.01
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	30	3.56	53.98	5.97	0.48	6.01
Moyale	-	-	-	-	-	-	-

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
Somale Killil	9272.39	6.48	2.88	88.97	-	-	1.66
Shinele Zone	9272.39	6.48	2.88	88.97	-	-	1.66
Shinele	-	-	-	-	-	-	-
Erer	9272.39	6.48	2.88	88.97	-	-	1.66
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	*	53.23	-	43.12	-	1.05	2.6
Shinele Zone	306.01	7.6	-	91.49	-	-	0.91
Shinele	-	-	-	-	-	-	-
Erer	306.01	7.6	-	91.49	-	-	0.91
Jijiga Zone	*	81.08	-	18.92	-	-	-
Jijiga	*	100	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	20	-	80	-	-	-
Liben Zone	*	54.21	-	41.33	-	1.31	3.15
Filtu	*	-	-	-	-	-	-
Dolo Odo	*	33.93	-	58.91	-	3.33	3.83
Moyale	213	67.3	-	29.99	-	-	2.71

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
Somale Killil	96309.16	27.87	0.55	64.43	0.2	0.04	6.91
Shinele Zone	1098.65	25.8	-	63.83	-	-	10.37
Shinele	-	-	-	-	-	-	-
Erer	1098.65	25.8	-	63.83	-	-	10.37
Jijiga Zone	95210.51	27.92	0.56	64.45	0.2	0.04	6.84
Jijiga	52999.03	24.26	0.19	68.59	0.27	0.01	6.67
Teferi Ber	10625.58	54.79	-	28.63	-	0.38	16.2
Kebri Beyah	31585.91	30.78	2.16	63.43	-	-	3.63
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	40.73	40.4	-	59.6	-	-	-
Shinele Zone	40.73	40.4	-	59.6	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	40.73	40.4	-	59.6	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	45.75	4.3	-	94.27	-	-	1.43
Shinele Zone	45.75	4.3	-	94.27	-	-	1.43
Shinele	-	-	-	-	-	-	-
Erer	45.75	4.3	-	94.27	-	-	1.43
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 5.20 - CROP PRODUCTION AND PERCENT OF UTILIZATION
URBAN HOLDINGS

SOMALI REGION

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	14338.6	73.63	9.27	12.85	0.65	1.28	2.32
Cereals	14093.95	74.2	9.04	12.63	0.64	1.13	2.36
Teff	49.96	46.67	20	33.33	-	-	-
Barley	467.72	68.91	9.45	15.81	0.72	3.59	1.52
Wheat	1438.66	66.56	14.23	16.05	1.65	0.16	1.34
Maize	6317.97	75.81	8.28	11.85	0.49	1.26	2.3
Sorghum	5790.15	75.39	8.37	12.06	0.58	0.7	2.9
Finger millet	-	-	-	-	-	-	-
Oats "Aja"	29.51	80.54	16.52	2.95	-	-	-
Rice	-	-	-	-	-	-	-
Pulses	220.65	62.34	12.86	17.78	0.83	4.68	1.51
Horse beans	-	-	-	-	-	-	-
Field peas	5.15	54.57	16.79	26.92	-	-	1.72
Haricot beans	155.12	67.94	9.47	12.08	1.36	7.68	1.48
Chick – peas	*	53.08	18.87	26.57	-	-	1.48
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oilseeds	*	57.68	31.94	10.38	-	-	-
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Groundnuts	6.2	70	15	15	-	-	-
Safflower	-	-	-	-	-	-	-
Sesame	*	30	70	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Vegetables	343.06	45.96	0.68	52.01	0.34	-	1.01
Lettuce	*	41.22	-	58.78	-	-	-
Head cabbage	-	-	-	-	-	-	-
Ethiopian cabbage	*	-	-	100	-	-	-
Tomatoes	340.14	51.83	0.85	45.61	0.43	-	1.28
Green peppers	*	17.87	-	82.13	-	-	-
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	645.86	39.75	5.22	54.19	-	-	0.84
Beetroot	-	-	-	-	-	-	-
Carrot	*	47.5	-	52.5	-	-	-
Onion	386.68	38.65	2.32	57.65	-	-	1.37
Potatoes	38.83	35.37	29.33	35.3	-	-	-
Garlic	138.85	10	-	90	-	-	-
Taro / Godere	-	-	-	-	-	-	-
Sweet potatoes	77.35	61.7	-	38.3	-	-	-
Permanent crops	577.28	25.13	4.24	65.8	-	-	4.83
Avocados	-	-	-	-	-	-	-
Bananas	*	17.5	-	82.5	-	-	-
Guavas	*	-	-	100	-	-	-
Lemons	-	-	-	-	-	-	-
Mangoes	*	20	-	60	-	-	20
Oranges	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-
Pineapple	-	-	-	-	-	-	-
Chat	526.77	26.39	4.74	64.26	-	-	4.61
Coffee	-	-	-	-	-	-	-
Hops	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-

TABLE 5.20.1 - CROP PRODUCTION AND PERCENT OF UTILIZATION
URBAN HOLDINGS

SHINELE ZONE

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Total							
Grain Crops	827.92	88.86	4.25	2.1	-	0.91	3.88
Cereals	827.92	88.86	4.25	2.1	-	0.91	3.88
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	0.34	90.69	9.31	-	-	-	-
Sorghum	827.58	88.84	4.18	2.13	-	0.92	3.93
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	*	15	-	85	-	-	-
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-
Green peppers	*	15	-	85	-	-	-
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	*	47.5	-	52.5	-	-	-
Beetroot	-	-	-	-	-	-	-
Carrot	*	47.5	-	52.5	-	-	-
Onion	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-
Taro / Godere	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-
Permanent crops	-	-	-	-	-	-	-
Avocados	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-
Guavas	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-
Pineapple	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-
Hops	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-

TABLE 5.20.2 - CROP PRODUCTION AND PERCENT OF UTILIZATION URBAN HOLDINGS JIJIGA ZONE

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Grain Crops	11194.65	72.9	9.8	13.6	0.57	0.72	2.39
Cereals	11081.27	73.3	9.61	13.33	0.6	0.75	2.41
Teff	49.96	46.67	20	33.33	-	-	-
Barley	467.72	68.91	9.45	15.81	0.72	3.59	1.52
Wheat	1438.36	66.65	14.24	15.95	1.66	0.16	1.35
Maize	4188.17	77.4	8.37	11.06	0.27	0.39	2.51
Sorghum	4907.56	71.81	9.53	14.55	0.67	0.54	2.91
Finger millet	-	-	-	-	-	-	-
Oats "Aja"	29.51	80.54	16.52	2.95	-	-	-
Pulses	107.18	62.59	14.49	20.77	-	-	2.15
Horse beans	-	-	-	-	-	-	-
Field peas	5.15	54.57	16.79	26.92	-	-	1.72
Haricot beans	*	73.79	9.92	13.41	-	-	2.88
Chick – peas	*	53.08	18.87	26.57	-	-	1.48
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oilseeds	6.2	70	15	15	-	-	-
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Groundnuts	6.2	70	15	15	-	-	-
Rapeseed	-	-	-	-	-	-	-
Vegetables	*	53.23	-	46.77	-	-	-
Lettuce	*	41.22	-	58.78	-	-	-
Head cabbage	-	-	-	-	-	-	-
Ethiopian cabbage	*	-	-	100	-	-	-
Tomatoes	*	63	-	37	-	-	-
Green peppers	*	19.51	-	80.49	-	-	-
Root Crops	507.11	44.48	5.86	48.36	-	-	1.29
Beetroot	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	*	48.59	-	49.08	-	-	2.33
Potatoes	38.83	35.37	29.33	35.3	-	-	-
Garlic	138.85	10	-	90	-	-	-
Taro / Godere	-	-	-	-	-	-	-
Sweet potatoes	77.35	61.7	-	38.3	-	-	-
Permanent crops	526.77	26.39	4.74	64.26	-	-	4.61
Avocados	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-
Guavas	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-
Pineapple	-	-	-	-	-	-	-
Chat	526.77	26.39	4.74	64.26	-	-	4.61
Coffee	-	-	-	-	-	-	-
Hops	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-

TABLE 5.20.3 - CROP PRODUCTION AND PERCENT OF UTILIZATION URBAN HOLDINGS LIBEN ZONE

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Grain Crops	*	70.76	7.32	12.46	1.8	7.1	0.56
Cereals	*	72.88	6.24	12.94	1.64	5.63	0.67
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	0.3	40	10	50	-	-	-
Maize	*	65.11	7.72	17.23	1.98	7.01	0.95
Sorghum	55	92.08	2.62	2.11	0.85	2.34	-
Finger millet	-	-	-	-	-	-	-
Oats "Aja"	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulses	113.46	61.75	9	10.67	2.8	15.78	-
Horse beans	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	113.46	61.75	9	10.67	2.8	15.78	-
Chick – peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Oilseeds	*	30	70	-	-	-	-
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-
Sesame	*	30	70	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Vegetables	*	33.89	2.22	59.44	1.11	-	3.33
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-
Tomatoes	*	33.89	2.22	59.44	1.11	-	3.33
Green peppers	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	134.6	24.37	5.65	69.99	-	-	-
Beetroot	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	134.6	24.37	5.65	69.99	-	-	-
Potatoes	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-
Taro / Godere	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-
Permanent crops	*	14.44	-	78.9	-	-	6.66
Avocados	-	-	-	-	-	-	-
Bananas	*	17.5	-	82.5	-	-	-
Guavas	*	-	-	100	-	-	-
Lemons	-	-	-	-	-	-	-
Mangoes	*	20	-	60	-	-	20
Oranges	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-
Pineapple	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-
Hops	-	-	-	-	-	-	-
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
Somali Killil	14338.6	73.63	9.27	12.85	0.65	1.28	2.32
Shinele Zone	827.92	88.86	4.25	2.1	-	0.91	3.88
Shinele	827.92	88.86	4.25	2.1	-	0.91	3.88
Jijiga Zone	11194.65	72.9	9.8	13.6	0.57	0.72	2.39
Jijiga	4111.13	69.34	9.5	16.27	1.69	0.73	2.48
Teferi Ber	3419.43	71.28	10.85	13.91	0.22	0.91	2.83
Kebri Beyah	3664.1	80.11	8.1	10	-	0.33	1.45
Liben Zone	*	70.76	7.32	12.46	1.8	7.1	0.56
Filtu	1.58	45	7.5	47.5	-	-	-
Dolo Odo	*	71.07	7.32	12.05	1.82	7.18	0.57

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
Somali Killil	14093.95	74.2	9.04	12.63	0.64	1.13	2.36
Shinele Zone	827.92	88.86	4.25	2.1	-	0.91	3.88
Shinele	827.92	88.86	4.25	2.1	-	0.91	3.88
Jijiga Zone	11081.27	73.3	9.61	13.33	0.6	0.75	2.41
Jijiga	4102.42	69.95	9.57	15.48	1.73	0.75	2.53
Teferi Ber	3354	71.91	10.39	13.65	0.23	0.95	2.87
Kebri Beyah	3624.86	80.03	8.12	10.15	-	0.35	1.34
Liben Zone	*	72.88	6.24	12.94	1.64	5.63	0.67
Filtu	1.48	50	6.67	43.33	-	-	-
Dolo Odo	*	73.12	6.24	12.62	1.66	5.69	0.68

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

TEFF

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somali Killil	49.96	46.67	20	33.33	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	49.96	46.67	20	33.33	-	-	-
Jijiga	49.96	46.67	20	33.33	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

TABLE B - 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
Somali Killil	467.72	68.91	9.45	15.81	0.72	3.59	1.52
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	467.72	68.91	9.45	15.81	0.72	3.59	1.52
Jijiga	274.48	61.72	8.14	21.66	1.73	4.01	2.74
Teferi Ber	140.49	72.61	10.07	12.76	0.19	3.47	0.9
Kebri Beyah	*	75	12.5	12.5	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

WHEAT

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somali Killil	1438.66	66.56	14.23	16.05	1.65	0.16	1.34
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	1438.36	66.65	14.24	15.95	1.66	0.16	1.35
Jijiga	1089.14	65.41	14.26	15	3.14	-	2.19
Teferi Ber	197.72	70.32	14.3	14.27	0.15	0.39	0.57
Kebri Beyah	*	56.67	13.89	29.44	-	-	-
Liben Zone	0.3	40	10	50	-	-	-
Filtu	0.3	40	10	50	-	-	-
Dolo Odo	-	-	-	-	-	-	-

TABLE D - 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
Somali Killil	6317.97	75.81	8.28	11.85	0.49	1.26	2.3
Shinele Zone	0.34	90.69	9.31	-	-	-	-
Shinele	0.34	90.69	9.31	-	-	-	-
Jijiga Zone	4188.17	77.4	8.37	11.06	0.27	0.39	2.51
Jijiga	988.33	74.82	8.57	11.75	1.37	0.38	3.11
Teferi Ber	*	69.19	11.27	15.6	-	0.5	3.45
Kebri Beyah	2526.64	84.45	6.18	7.47	-	0.32	1.58
Liben Zone	*	65.11	7.72	17.23	1.98	7.01	0.95
Filtu	1.18	55	5	40	-	-	-
Dolo Odo	*	65.22	7.75	17	2	7.08	0.96

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
Somali Killil	5790.15	75.39	8.37	12.06	0.58	0.7	2.9
Shinele Zone	827.58	88.84	4.18	2.13	-	0.92	3.93
Shinele	827.58	88.84	4.18	2.13	-	0.92	3.93
Jijiga Zone	4907.56	71.81	9.53	14.55	0.67	0.54	2.91
Jijiga	1700.51	71.83	8.3	15.84	1.41	0.34	2.27
Teferi Ber	2313.08	73.26	8.97	13.1	0.41	0.63	3.63
Kebri Beyah	*	63.03	16.47	19.38	-	0.62	0.5
Liben Zone	55	92.08	2.62	2.11	0.85	2.34	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	55	92.08	2.62	2.11	0.85	2.34	-

TABLE D - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

OATS /AJA

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somali Killil	29.51	80.54	16.52	2.95	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	29.51	80.54	16.52	2.95	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	29.51	80.54	16.52	2.95	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

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
Somali Killil	220.65	62.34	12.86	17.78	0.83	4.68	1.51
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	107.18	62.59	14.49	20.77	-	-	2.15
Jijiga	2.51	20	-	80	-	-	-
Teferi Ber	*	55.44	22.5	20.33	-	-	1.72
Kebri Beyah	*	81.29	7.88	7.66	-	-	3.17
Liben Zone	113.46	61.75	9	10.67	2.8	15.78	-
Filtu	0.1	30	10	60	-	-	-
Dolo Odo	113.36	62.38	8.98	9.69	2.85	16.1	-

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

FIELD PEAS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somali Killil	5.15	54.57	16.79	26.92	-	-	1.72
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	5.15	54.57	16.79	26.92	-	-	1.72
Jijiga	2.4	20	-	80	-	-	-
Teferi Ber	2.75	65.87	22.28	9.57	-	-	2.28
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

HARCOT BEANS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somali Killil	155.12	67.94	9.47	12.08	1.36	7.68	1.48
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	*	73.79	9.92	13.41	-	-	2.88
Jijiga	-	-	-	-	-	-	-
Teferi Ber	*	-	30	70	-	-	-
Kebri Beyah	*	81.29	7.88	7.66	-	-	3.17
Liben Zone	113.46	61.75	9	10.67	2.8	15.78	-
Filtu	0.1	30	10	60	-	-	-
Dolo Odo	113.36	62.38	8.98	9.69	2.85	16.1	-

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

CHICK PEAS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somali Killil	*	53.08	18.87	26.57	-	-	1.48
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	*	53.08	18.87	26.57	-	-	1.48
Jijiga	0.11	20	-	80	-	-	-
Teferi Ber	*	57.92	21.64	18.74	-	-	1.7
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

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
Somali Killil	*	57.68	31.94	10.38	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	6.2	70	15	15	-	-	-
Jijiga	6.2	70	15	15	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	30	70	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	30	70	-	-	-	-

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

GROUND NUTS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somali Killil	6.2	70	15	15	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	6.2	70	15	15	-	-	-
Jijiga	6.2	70	15	15	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

TABLE B - 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
Somali Killil	*	30	70	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	30	70	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	30	70	-	-	-	-

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
Somali Killil	343.06	45.96	0.68	52.01	0.34	-	1.01
Shinele Zone	*	15	-	85	-	-	-
Shinele	*	15	-	85	-	-	-
Jijiga Zone	*	53.23	-	46.77	-	-	-
Jijiga	52.74	38.36	-	61.64	-	-	-
Teferi Ber	*	18.78	-	81.22	-	-	-
Kebri Beyah	*	80	-	20	-	-	-
Liben Zone	*	33.89	2.22	59.44	1.11	-	3.33
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	33.89	2.22	59.44	1.11	-	3.33

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

LETTUCE.

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somali Killil	*	41.22	-	58.78	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	*	41.22	-	58.78	-	-	-
Jijiga	0.08	50	-	50	-	-	-
Teferi Ber	*	30	-	70	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

TABLE B - 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
Somali Killil	*	-	-	100	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	*	-	-	100	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	*	-	-	100	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

TABLE C - 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
Somali Killil	340.14	51.83	0.85	45.61	0.43	-	1.28
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	*	63	-	37	-	-	-
Jijiga	52.66	34.29	-	65.71	-	-	-
Teferi Ber	*	22.92	-	77.08	-	-	-
Kebri Beyah	*	80	-	20	-	-	-
Liben Zone	*	33.89	2.22	59.44	1.11	-	3.33
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	33.89	2.22	59.44	1.11	-	3.33

TABLE D - 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
Somali Killil	*	17.87	-	82.13	-	-	-
Shinele Zone	*	15	-	85	-	-	-
Shinele	*	15	-	85	-	-	-
Jijiga Zone	*	19.51	-	80.49	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	*	19.51	-	80.49	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

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
Somali Killil	645.86	39.75	5.22	54.19	-	-	0.84
Shinele Zone	*	47.5	-	52.5	-	-	-
Shinele	*	47.5	-	52.5	-	-	-
Jijiga Zone	507.11	44.48	5.86	48.36	-	-	1.29
Jijiga	281.42	25.16	-	71.61	-	-	3.22
Teferi Ber	45.47	40.56	16.2	43.24	-	-	-
Kebri Beyah	*	70	5	25	-	-	-
Liben Zone	134.6	24.37	5.65	69.99	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	134.6	24.37	5.65	69.99	-	-	-

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

CARROT

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somali Killil	*	47.5	-	52.5	-	-	-
Shinele Zone	*	47.5	-	52.5	-	-	-
Shinele	*	47.5	-	52.5	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

TABLE B - 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
Somali Killil	386.68	38.65	2.32	57.65	-	-	1.37
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	*	48.59	-	49.08	-	-	2.33
Jijiga	74.84	12.94	-	81.18	-	-	5.88
Teferi Ber	*	30	-	70	-	-	-
Kebri Beyah	*	81.25	-	18.75	-	-	-
Liben Zone	134.6	24.37	5.65	69.99	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	134.6	24.37	5.65	69.99	-	-	-

TABLE C - 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
Somali Killil	38.83	35.37	29.33	35.3	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	38.83	35.37	29.33	35.3	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	30.29	40.79	31.59	27.62	-	-	-
Kebri Beyah	*	25	25	50	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

TABLE D - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

GARLIC

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somali Killil	138.85	10	-	90	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	138.85	10	-	90	-	-	-
Jijiga	138.85	10	-	90	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

TABLE E - 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
Somali Killil	77.35	61.7	-	38.3	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	77.35	61.7	-	38.3	-	-	-
Jijiga	67.72	70	-	30	-	-	-
Teferi Ber	9.63	50	-	50	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

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
Somali Killil	577.28	25.13	4.24	65.8	-	-	4.83
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	526.77	26.39	4.74	64.26	-	-	4.61
Jijiga	346.43	25.17	4.4	68.04	-	-	2.39
Teferi Ber	173.52	21.92	6.72	57.27	-	-	14.09
Kebri Beyah	*	100	-	-	-	-	-
Liben Zone	*	14.44	-	78.9	-	-	6.66
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	14.44	-	78.9	-	-	6.66

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
Somali Killil	*	17.5	-	82.5	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	17.5	-	82.5	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	17.5	-	82.5	-	-	-

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
Somali Killil	*	-	-	100	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	-	-	100	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	-	-	100	-	-	-

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
Somali Killil	-	-	-	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

TABLE D - CROP PRODUCTION AND PERCENT OF UTILIZATION

URBAN HOLDINGS

CHAT

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somali Killil	526.77	26.39	4.74	64.26	-	-	4.61
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	526.77	26.39	4.74	64.26	-	-	4.61
Jijiga	346.43	25.17	4.4	68.04	-	-	2.39
Teferi Ber	173.52	21.92	6.72	57.27	-	-	14.09
Kebri Beyah	*	100	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

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
Grain Crops	743297.08	69.51	14.13	13.7	0.02	0.81	1.84
Cereals	734121.42	71.02	13.63	12.24	0.37	0.82	1.93
Teff	261.17	24.12	10.89	64.99	-	-	-
Barley	58205.78	59.56	14.9	20.9	0.2	0.49	3.95
Wheat	111426.01	69.69	15.17	12.71	0.62	0.14	1.66
Maize	273368.84	73.93	12.76	9.76	0.24	1.65	1.66
Sorghum	286875.52	74.19	12.1	11.17	0.45	0.39	1.7
Finger millet	-	-	-	-	-	-	-
Oats "Aja"	3984.11	57.69	28.64	12.31	0.3	0.53	0.53
Pulses	6778.97	52.44	16.64	29.36	0.03	1.06	0.47
Horse beans	*	90	10	-	-	-	-
Field peas	*	64.99	15.69	19.24	-	-	0.08
Haricot beans	2572.95	62.33	18.71	16.01	0.06	2.41	0.48
Chick – peas	2646.51	36.87	12.52	50.19	-	-	0.42
Lentils	862.73	63.87	24.46	11.66	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	189.84	19.68	11.81	66.74	-	-	1.77
Oilseeds	2396.7	34.22	31.01	34.37	0.05	-	0.35
Neug	-	-	-	-	-	-	-
Linseed	1409.81	32.28	32.74	34.58	0.05	-	0.35
Groundnuts	*	54.47	16.42	29.11	-	-	-
Safflower	-	-	-	-	-	-	-
Sesame	*	8.34	13.61	73.7	-	-	4.35
Rapeseed	-	-	-	-	-	-	-
Vegetables	11796.11	35.63	1.05	60.21	0.03	0.01	3.07
Lettuce	*	41.22	-	58.78	-	-	-
Head cabbage	*	10	-	90	-	-	-
Ethiopian cabbage	*	-	-	100	-	-	-
Tomatoes	9845.26	36.58	0.62	60.44	0.04	0.01	2.3
Green peppers	*	45.03	3	44.81	-	-	7.16
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	94688.36	20.24	19.67	59.69	0.05	-	0.36
Beetroot	*	10	-	85.73	-	-	4.27
Carrot	*	47.5	-	52.5	-	-	-
Onion	33322.51	18.19	22.12	59.53	-	-	0.15
Potatoes	4778.59	85.04	1.12	13.84	-	-	-
Garlic	40463.68	7.96	22.51	68.96	0.11	-	0.46
Taro / Godere	-	-	-	-	-	-	-
Sweet potatoes	15531.85	83.37	0.67	13.71	-	0.29	1.97
Permanent crops	130950.19	27.74	0.68	64.85	0.34	0.09	6.3
Avocados	-	-	-	-	-	-	-
Bananas	18371.25	9.55	1.62	85.5	-	-	3.33
Guavas	189.57	66.28	-	25.48	1.51	-	6.74
Lemons	1493.22	6.11	-	93.19	0.55	-	0.15
Mangoes	*	29.92	3.53	54.03	5.93	0.48	6.12
Oranges	9272.39	6.48	2.88	88.97	-	-	1.66
Papayas	*	53.23	-	43.12	-	1.05	2.6
Pineapple	-	-	-	-	-	-	-
Chat	96835.93	27.87	0.57	64.43	0.19	0.04	6.9
Coffee	40.73	40.4	-	59.6	-	-	-
Hops	-	-	-	-	-	-	-
Sugar cane	45.75	4.3	-	94.27	-	-	1.43

TABLE 5.25.1 - CROP PRODUCTION AND PERCENT OF UTILIZATION ALL HOLDINGS
SHINELE ZONE

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Grain Crops	11104.51	88.84	7.43	0.8	-	0.14	2.8
Cereals	11104.51	88.84	7.43	0.58	0.22	0.14	2.8
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	790.16	93.18	6.63	-	-	-	0.2
Sorghum	10314.36	87.71	7.64	0.72	0.28	0.17	3.47
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	-	-	-	-	-	-	-
Vegetables	1790.34	35.88	1.84	61.57	-	0.03	0.68
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-
Tomatoes	1396.92	39.44	0.01	60.05	-	0.04	0.46
Green peppers	393.41	24.92	7.47	66.24	-	-	1.37
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	2100.95	17.77	2.33	79.9	-	-	-
Beetroot	-	-	-	-	-	-	-
Carrot	*	47.5	-	52.5	-	-	-
Onion	*	13.77	2.64	83.59	-	-	-
Potatoes	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-
Taro / Godere	-	-	-	-	-	-	-
Sweet potatoes	1996.6	43.25	-	53.78	-	-	2.97
Permanent crops	23303.85	10.99	0.53	85.44	-	-	3.04
Avocados	-	-	-	-	-	-	-
Bananas	11080.83	6.58	-	91.61	-	-	1.81
Guavas	-	-	-	-	-	-	-
Lemons	1459.49	3.75	-	96.08	-	-	0.17
Mangoes	-	-	-	-	-	-	-
Oranges	9272.39	6.48	2.88	88.97	-	-	1.66
Papayas	306.01	7.6	-	91.49	-	-	0.91
Pineapple	-	-	-	-	-	-	-
Chat	1098.65	25.8	-	63.83	-	-	10.37
Coffee	40.73	40.4	-	59.6	-	-	-
Hops	-	-	-	-	-	-	-
Sugar cane	45.75	4.3	-	94.27	-	-	1.43

TABLE 5.25.2 - CROP PRODUCTION AND PERCENT OF UTILIZATION ALL HOLDINGS
JIJIGA ZONE

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Grain Crops	705359.12	69.44	14.34	14.07	0.01	0.36	1.78
Cereals	697904.47	71.02	13.82	12.56	0.35	0.38	1.87
Teff	261.17	24.12	10.89	64.99	-	-	-
Barley	58205.78	59.56	14.9	20.9	0.2	0.49	3.95
Wheat	111413.73	69.69	15.17	12.71	0.62	0.14	1.66
Maize	253042.82	75.16	12.86	9.72	0.16	0.54	1.55
Sorghum	270996.88	73.56	12.36	11.77	0.46	0.28	1.56
Finger millet	-	-	-	-	-	-	-
Oats "Aja"	3984.11	57.69	28.64	12.31	0.3	0.53	0.53
Pulses	5465.69	49.22	17.06	33.38	-	-	0.34
Horse beans	*	90	10	-	-	-	-
Field peas	*	64.99	15.69	19.24	-	-	0.08
Haricot beans	1259.69	58.96	21.44	19.49	-	-	0.11
Chick – peas	2646.51	36.87	12.52	50.19	-	-	0.42
Lentils	862.73	63.87	24.46	11.66	-	-	-
Vetch	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	189.84	19.68	11.81	66.74	-	-	1.77
Gibto	-	-	-	-	-	-	-
Oilseeds	1988.95	34.43	31.15	34.05	0.05	-	0.32
Neug	-	-	-	-	-	-	-
Linseed	1409.81	32.28	32.74	34.58	0.05	-	0.35
Groundnuts	*	54.47	16.42	29.11	-	-	-
Vegetables	6637.8	38.32	0.51	57.67	-	-	3.5
Lettuce	*	41.22	-	58.78	-	-	-
Head cabbage	*	10	-	90	-	-	-
Ethiopian cabbage	*	-	-	100	-	-	-
Tomatoes	*	39.44	0.84	57.99	-	-	1.73
Green peppers	*	58.5	-	30.46	-	-	11.04
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	91980.06	20.29	20	59.34	0.05	-	0.31
Beetroot	*	10	-	85.73	-	-	4.27
Carrot	-	-	-	-	-	-	-
Onion	32972.05	18.32	23.06	58.6	-	-	0.02
Potatoes	4778.59	85.04	1.12	13.84	-	-	-
Garlic	40463.68	7.96	22.51	68.96	0.11	-	0.46
Taro / Godere	-	-	-	-	-	-	-
Sweet potatoes	*	93.78	0.83	3.86	-	-	1.53
Permanent crops	96082.71	28.48	0.58	63.96	0.2	0.04	6.75
Avocados	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-
Guavas	*	78.5	-	21.5	-	-	-
Lemons	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-
Papayas	*	81.08	-	18.92	-	-	-
Pineapple	-	-	-	-	-	-	-
Chat	95737.28	27.91	0.58	64.45	0.2	0.04	6.83
Coffee	-	-	-	-	-	-	-
Hops	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-

TABLE 5.25.3 - CROP PRODUCTION AND PERCENT OF UTILIZATION ALL HOLDINGS
LIBEN ZONE

Type of Crop	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Grain Crops	26833.46	64.1	12.61	11.44	0.08	9.24	2.52
Cereals	25112.43	63.85	12.29	10.57	0.77	9.77	2.74
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	*	40	10	50	-	-	-
Maize	19535.87	63.1	12.57	10.93	0.85	9.99	2.56
Sorghum	5564.28	70.59	9.84	7.34	0.1	7.79	4.34
Finger millet	-	-	-	-	-	-	-
Oats "Aja"	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulses	1313.26	67.28	14.69	10.9	0.14	5.96	1.03
Horse beans	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	1313.26	67.28	14.69	10.9	0.14	5.96	1.03
Chick – peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Oilseeds	*	8.34	13.61	73.7	-	-	4.35
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-
Sesame	*	8.34	13.61	73.7	-	-	4.35
Rapeseed	-	-	-	-	-	-	-
Vegetables	*	23	1.28	67.89	0.21	-	7.61
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Ethiopian cabbage	*	-	-	-	-	-	-
Tomatoes	*	23	1.28	67.89	0.21	-	7.61
Green peppers	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root Crops	607.35	17.08	1.71	75.65	-	-	5.56
Beetroot	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	250.26	17.08	1.71	75.65	-	-	5.56
Potatoes	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-
Taro / Godere	-	-	-	-	-	-	-
Sweet potatoes	*	36.87	-	52.09	-	5.28	5.77
Permanent crops	*	38.14	1.95	51.88	2.2	0.66	5.17
Avocados	-	-	-	-	-	-	-
Bananas	*	14.52	4.32	75.3	-	-	5.86
Guavas	82.54	56.36	-	28.7	2.73	-	12.21
Lemons	*	25.05	-	70	4.95	-	-
Mangoes	*	29.92	3.53	54.03	5.93	0.48	6.12
Oranges	-	-	-	-	-	-	-
Papayas	*	54.21	-	41.33	-	1.31	3.15
Pineapple	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-
Hops	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-

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
Somale Killil	743297.08	69.51	14.13	13.7	0.02	0.81	1.84
Shinele Zone	11104.51	88.84	7.43	0.8	-	0.14	2.8
Shinele	1732.56	87.78	5.06	1.51	-	0.62	5.03
Erer	9371.95	89.09	8	0.63	-	0.02	2.27
Jijiga Zone	705359.12	69.44	14.34	14.07	0.01	0.36	1.78
Jijiga	383518.38	67.86	15.94	13.85	0.02	0.3	2.04
Teferi Ber	132233.14	68.34	12.28	17.16	0.01	0.53	1.67
Kebri Beyah	189607.6	78.05	10.81	9.97	-	0.3	0.86
Liben Zone	26833.46	64.1	12.61	11.44	0.08	9.24	2.52
Filtu	2385.92	65.75	13.61	17.92	-	0.44	2.29
Dolo Odo	20849.18	57.63	11	8.62	0.17	19.17	3.41
Moyale	3598.36	72.38	14.33	11.75	-	0.16	1.39

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
Somale Killil	734121.42	71.02	13.63	12.24	0.37	0.82	1.93
Shinele Zone	11104.51	88.84	7.43	0.58	0.22	0.14	2.8
Shinele	1732.56	87.78	5.06	1.51	-	0.62	5.03
Erer	9371.95	89.09	8	0.35	0.28	0.02	2.27
Jijiga Zone	697904.47	71.02	13.82	12.56	0.35	0.38	1.87
Jijiga	377072.76	70.32	15.25	11.53	0.39	0.33	2.19
Teferi Ber	131764.33	68.59	12.12	16.67	0.39	0.54	1.7
Kebri Beyah	189067.4	77.85	10.83	10	0.14	0.31	0.87
Liben Zone	25112.43	63.85	12.29	10.57	0.77	9.77	2.74
Filtu	2305.04	65.59	14.01	17.36	0.41	0.45	2.17
Dolo Odo	19411.11	59.19	10.8	6.05	1.36	19.03	3.58
Moyale	3396.28	70.7	13.7	13.69	0.02	0.21	1.68

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
Somale Killil	261.17	24.12	10.89	64.99	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	261.17	24.12	10.89	64.99	-	-	-
Jijiga	261.17	24.12	10.89	64.99	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	58205.78	59.56	14.9	20.9	0.2	0.49	3.95
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	58205.78	59.56	14.9	20.9	0.2	0.49	3.95
Jijiga	43090.09	56.4	17.01	21.58	0.13	0.21	4.67
Teferi Ber	11998.79	66.58	9.6	19.76	0.39	1.36	2.31
Kebri Beyah	*	73.85	8.34	15.94	0.4	0.53	0.94
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

WHEAT

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somale Killil	111426.01	69.69	15.17	12.71	0.62	0.14	1.66
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	111413.73	69.69	15.17	12.71	0.62	0.14	1.66
Jijiga	88283.08	69.48	16.4	11.56	0.61	0.11	1.84
Teferi Ber	14258.99	69.11	11.09	17.83	0.67	0.01	1.29
Kebri Beyah	*	73.69	10.27	14.13	0.59	0.92	0.4
Liben Zone	*	40	10	50	-	-	-
Filtu	*	40	10	50	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	*	-	-	-	-	-	-

TABLE D - 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
Somale Killil	273368.84	73.93	12.76	9.76	0.24	1.65	1.66
Shinele Zone	790.16	93.18	6.63	-	-	-	0.2
Shinele	*	94.91	5.09	-	-	-	-
Erer	720.09	93.14	6.65	-	-	-	0.2
Jijiga Zone	253042.82	75.16	12.86	9.72	0.16	0.54	1.55
Jijiga	93165.51	75.33	13.95	7.99	0.28	0.72	1.73
Teferi Ber	33904.35	70.22	12.24	15.09	0.02	0.51	1.92
Kebri Beyah	125972.96	79.12	11.58	8.01	0.07	0.27	0.95
Liben Zone	19535.87	63.1	12.57	10.93	0.85	9.99	2.56
Filtu	695.15	65.58	14.14	17.4	0.42	0.45	2.01
Dolo Odo	15624.68	56.59	11.11	5.75	1.64	21.49	3.43
Moyale	3216.04	70.65	13.57	13.84	0.02	0.21	1.7

TABLE E - 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
Somale Killil	286875.52	74.19	12.1	11.17	0.45	0.39	1.7
Shinele Zone	10314.36	87.71	7.64	0.72	0.28	0.17	3.47
Shinele	1662.49	87.64	5.06	1.54	-	0.64	5.13
Erer	8651.87	87.73	8.45	0.47	0.37	0.03	2.96
Jijiga Zone	270996.88	73.56	12.36	11.77	0.46	0.28	1.56
Jijiga	148805.85	75.65	12.7	9.13	0.48	0.27	1.76
Teferi Ber	71085.15	68.66	12.82	16.12	0.56	0.34	1.49
Kebri Beyah	51105.86	76.59	9.5	12.79	0.14	0.17	0.8
Liben Zone	5564.28	70.59	9.84	7.34	0.1	7.79	4.34
Filtu	1599.27	67.81	6.57	13.38	-	-	12.24
Dolo Odo	3786.43	70.53	9.42	7.39	0.11	8.32	4.22
Moyale	*	75	25	-	-	-	-

TABLE F - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

OATS /AJA

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somale Killil	3984.11	57.69	28.64	12.31	0.3	0.53	0.53
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	3984.11	57.69	28.64	12.31	0.3	0.53	0.53
Jijiga	3467.06	60.01	30.23	9.15	0.05	-	0.56
Teferi Ber	517.05	44.4	19.54	30.41	1.74	3.58	0.33
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	6778.97	52.44	16.64	29.36	0.03	1.06	0.47
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	5465.69	49.22	17.06	33.38	-	-	0.34
Jijiga	4479.17	44.02	17.16	38.47	-	-	0.35
Teferi Ber	446.32	60.63	22.27	16.86	-	-	0.24
Kebri Beyah	540.2	88.71	9.86	1.01	-	-	0.42
Liben Zone	1313.26	67.28	14.69	10.9	0.14	5.96	1.03
Filtu	76.17	67.5	9.11	19.53	-	0.33	3.52
Dolo Odo	1035.01	42.2	13.45	19.65	0.56	22.99	1.15
Moyale	202.08	77.66	16.31	5.55	-	-	0.48

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
Somale Killil	*	90	10	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	*	90	10	-	-	-	-
Jijiga	*	90	10	-	-	-	-
Teferi Ber	*	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

FIELD PEAS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somale Killil	*	64.99	15.69	19.24	-	-	0.08
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	*	64.99	15.69	19.24	-	-	0.08
Jijiga	*	58.91	13.47	27.62	-	-	-
Teferi Ber	17.63	79.3	19.15	1.25	-	-	0.3
Kebri Beyah	*	70	30	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE C - 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
Somale Killil	2572.95	62.33	18.71	16.01	0.06	2.41	0.48
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	1259.69	58.96	21.44	19.49	-	-	0.11
Jijiga	713.39	52.37	23.16	24.47	-	-	-
Teferi Ber	*	-	84.98	15.02	-	-	-
Kebri Beyah	515.42	88.08	10.17	1.23	-	-	0.51
Liben Zone	1313.26	67.28	14.69	10.9	0.14	5.96	1.03
Filtu	76.17	67.5	9.11	19.53	-	0.33	3.52
Dolo Odo	1035.01	42.2	13.45	19.65	0.56	22.99	1.15
Moyale	202.08	77.66	16.31	5.55	-	-	0.48

TABLE C - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

CHICK PEAS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somale Killil	2646.51	36.87	12.52	50.19	-	-	0.42
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	2646.51	36.87	12.52	50.19	-	-	0.42
Jijiga	*	29.95	12.82	56.77	-	-	0.45
Teferi Ber	372.24	65.27	13.32	21.12	-	-	0.29
Kebri Beyah	*	100	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE D - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

LENTILS

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somale Killil	862.73	63.87	24.46	11.66	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	862.73	63.87	24.46	11.66	-	-	-
Jijiga	862.73	63.87	24.46	11.66	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE E - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

FENU GREEK

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somale Killil	189.84	19.68	11.81	66.74	-	-	1.77
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	189.84	19.68	11.81	66.74	-	-	1.77
Jijiga	182.18	19.71	7.21	71.03	-	-	2.04
Teferi Ber	*	19.45	41.66	38.9	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	2396.7	34.22	31.01	34.37	0.05	-	0.35
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	1988.95	34.43	31.15	34.05	0.05	-	0.32
Jijiga	1966.45	34.57	31.56	33.55	0.05	-	0.27
Teferi Ber	22.5	30.91	20.94	46.81	-	-	1.34
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	8.34	13.61	73.7	-	-	4.35
Filtu	*	-	-	-	-	-	-
Dolo Odo	*	8.34	13.61	73.7	-	-	4.35
Moyale	-	-	-	-	-	-	-

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
Somale Killil	1409.81	32.28	32.74	34.58	0.05	-	0.35
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	1409.81	32.28	32.74	34.58	0.05	-	0.35
Jijiga	1387.31	32.34	33.25	34.05	0.05	-	0.31
Teferi Ber	22.5	30.91	20.94	46.81	-	-	1.34
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	*	54.47	16.42	29.11	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	*	54.47	16.42	29.11	-	-	-
Jijiga	*	54.47	16.42	29.11	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somali Killil	*	8.34	13.61	73.7	-	-	4.35
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	8.34	13.61	73.7	-	-	4.35
Filtu	*	-	-	-	-	-	-
Dolo Odo	*	8.34	13.61	73.7	-	-	4.35
Moyale	-	-	-	-	-	-	-

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
Somali Killil	11796.11	35.63	1.05	60.21	0.03	0.01	3.07
Shinele Zone	1790.34	35.88	1.84	61.57	-	0.03	0.68
Shinele	*	15	-	85	-	-	-
Erer	1788.56	36.06	1.86	61.37	-	0.03	0.69
Jijiga Zone	6637.8	38.32	0.51	57.67	-	-	3.5
Jijiga	*	41.27	-	54.3	-	-	4.43
Teferi Ber	*	19.4	10.11	70.49	-	-	-
Kebri Beyah	*	29.69	-	70.31	-	-	-
Liben Zone	*	23	1.28	67.89	0.21	-	7.61
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	23	1.28	67.89	0.21	-	7.61
Moyale	*	-	-	-	-	-	-

TABLE A - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

LETTUCE

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somali Killil	*	41.22	-	58.78	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	*	41.22	-	58.78	-	-	-
Jijiga	0.08	50	-	50	-	-	-
Teferi Ber	*	30	-	70	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE B - 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
Somale Killil	*	10	-	90	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	*	10	-	90	-	-	-
Jijiga	*	10	-	90	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE C - 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
Somale Killil	*	-	-	100	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	*	-	-	100	-	-	-
Jijiga	*	-	-	100	-	-	-
Teferi Ber	*	-	-	100	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE D - 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
Somale Killil	9845.26	36.58	0.62	60.44	0.04	0.01	2.3
Shinele Zone	1396.92	39.44	0.01	60.05	-	0.04	0.46
Shinele	-	-	-	-	-	-	-
Erer	1396.92	39.44	0.01	60.05	-	0.04	0.46
Jijiga Zone	*	39.44	0.84	57.99	-	-	1.73
Jijiga	*	41.74	-	55.95	-	-	2.31
Teferi Ber	*	20.62	15.75	63.63	-	-	-
Kebri Beyah	*	35.84	-	64.16	-	-	-
Liben Zone	*	23	1.28	67.89	0.21	-	7.61
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	23	1.28	67.89	0.21	-	7.61
Moyale	*	-	-	-	-	-	-

TABLE E - 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
Somale Killil	*	45.03	3	44.81	-	-	7.16
Shinele Zone	393.41	24.92	7.47	66.24	-	-	1.37
Shinele	*	15	-	85	-	-	-
Erer	391.63	25.27	7.74	65.57	-	-	1.42
Jijiga Zone	*	58.5	-	30.46	-	-	11.04
Jijiga	*	70.98	-	15.03	-	-	13.99
Teferi Ber	*	19.51	-	80.49	-	-	-
Kebri Beyah	*	10	-	90	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	94688.36	20.24	19.67	59.69	0.05	-	0.36
Shinele Zone	2100.95	17.77	2.33	79.9	-	-	-
Shinele	*	47.5	-	52.5	-	-	-
Erer	2034	13.77	2.64	83.59	-	-	-
Jijiga Zone	91980.06	20.29	20	59.34	0.05	-	0.31
Jijiga	89275.46	20.17	20.28	59.19	0.05	-	0.32
Teferi Ber	201.51	32.23	11.31	56.46	-	-	-
Kebri Beyah	*	21.69	3.08	75.23	-	-	-
Liben Zone	607.35	17.08	1.71	75.65	-	-	5.56
Filtu	-	-	-	-	-	-	-
Dolo Odo	591.7	17.08	1.71	75.65	-	-	5.56
Moyale	*	-	-	-	-	-	-

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
Somale Killil	*	10	-	85.73	-	-	4.27
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	*	10	-	85.73	-	-	4.27
Jijiga	*	10	-	85.73	-	-	4.27
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE B - CROP PRODUCTION AND PERCENT OF UTILIZATION
ALL HOLDINGS

CARROT

Geographic Area	Total Production (Quintal)	Percent Utilized For					
		Household Consumption	Seed	Sale	Wages In kind	Animal Feed	Others
Somale Killil	*	47.5	-	52.5	-	-	-
Shinele Zone	*	47.5	-	52.5	-	-	-
Shinele	*	47.5	-	52.5	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE C - 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
Somale Killil	33322.51	18.19	22.12	59.53	-	-	0.15
Shinele Zone	*	13.77	2.64	83.59	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	*	13.77	2.64	83.59	-	-	-
Jijiga Zone	32972.05	18.32	23.06	58.6	-	-	0.02
Jijiga	30845.07	17.98	23.95	58.04	-	-	0.03
Teferi Ber	*	30	9.41	60.59	-	-	-
Kebri Beyah	*	21.54	2.03	76.43	-	-	-
Liben Zone	250.26	17.08	1.71	75.65	-	-	5.56
Filtu	-	-	-	-	-	-	-
Dolo Odo	250.26	17.08	1.71	75.65	-	-	5.56
Moyale	-	-	-	-	-	-	-

TABLE D - 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
Somale Killil	4778.59	85.04	1.12	13.84	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	4778.59	85.04	1.12	13.84	-	-	-
Jijiga	4447.87	85.73	0.73	13.54	-	-	-
Teferi Ber	*	40.79	31.59	27.62	-	-	-
Kebri Beyah	*	25	25	50	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE E - 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
Somale Killil	40463.68	7.96	22.51	68.96	0.11	-	0.46
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	40463.68	7.96	22.51	68.96	0.11	-	0.46
Jijiga	40401.46	7.96	22.51	68.96	0.11	-	0.46
Teferi Ber	*	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	15531.85	83.37	0.67	13.71	-	0.29	1.97
Shinele Zone	1996.6	43.25	-	53.78	-	-	2.97
Shinele	*	-	-	-	-	-	-
Erer	1933.8	43.25	-	53.78	-	-	2.97
Jijiga Zone	*	93.78	0.83	3.86	-	-	1.53
Jijiga	*	93.89	0.83	3.74	-	-	1.53
Teferi Ber	9.63	50	-	50	-	-	-
Kebri Beyah	*	-	-	-	-	-	-
Liben Zone	*	36.87	-	52.09	-	5.28	5.77
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	36.87	-	52.09	-	5.28	5.77
Moyale	*	-	-	-	-	-	-

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
Somale Killil	130950.19	27.74	0.68	64.85	0.34	0.09	6.3
Shinele Zone	23303.85	10.99	0.53	85.44	-	-	3.04
Shinele	-	-	-	-	-	-	-
Erer	23303.85	10.99	0.53	85.44	-	-	3.04
Jijiga Zone	96082.71	28.48	0.58	63.96	0.2	0.04	6.75
Jijiga	53484.39	25.1	0.22	67.84	0.27	0.01	6.56
Teferi Ber	10799.1	54.31	0.1	29.05	-	0.37	16.17
Kebri Beyah	31799.23	30.77	2.14	63.48	-	-	3.6
Liben Zone	*	38.14	1.95	51.88	2.2	0.66	5.17
Filtu	*	-	-	-	-	-	-
Dolo Odo	*	28.63	2.65	58.66	2.99	0.89	6.17
Moyale	266.3	64.51	-	33.07	-	-	2.42

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
Somale Killil	18371.25	9.55	1.62	85.5	-	-	3.33
Shinele Zone	11080.83	6.58	-	91.61	-	-	1.81
Shinele	-	-	-	-	-	-	-
Erer	11080.83	6.58	-	91.61	-	-	1.81
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	14.52	4.32	75.3	-	-	5.86
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	13.8	4.62	75.32	-	-	6.27
Moyale	20.18	25	-	75	-	-	-

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
Somale Killil	189.57	66.28	-	25.48	1.51	-	6.74
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	*	78.5	-	21.5	-	-	-
Jijiga	*	78.5	-	21.5	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	82.54	56.36	-	28.7	2.73	-	12.21
Filtu	-	-	-	-	-	-	-
Dolo Odo	51.4	56.79	-	24.1	3.49	-	15.62
Moyale	*	54.82	-	45.18	-	-	-

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
Somale Killil	1493.22	6.11	-	93.19	0.55	-	0.15
Shinele Zone	1459.49	3.75	-	96.08	-	-	0.17
Shinele	-	-	-	-	-	-	-
Erer	1459.49	3.75	-	96.08	-	-	0.17
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	25.05	-	70	4.95	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	25.05	-	70	4.95	-	-
Moyale	*	-	-	-	-	-	-

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
Somale Killil	*	29.92	3.53	54.03	5.93	0.48	6.12
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	29.92	3.53	54.03	5.93	0.48	6.12
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	29.92	3.53	54.03	5.93	0.48	6.12
Moyale	-	-	-	-	-	-	-

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
Somale Killil	9272.39	6.48	2.88	88.97	-	-	1.66
Shinele Zone	9272.39	6.48	2.88	88.97	-	-	1.66
Shinele	-	-	-	-	-	-	-
Erer	9272.39	6.48	2.88	88.97	-	-	1.66
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	*	53.23	-	43.12	-	1.05	2.6
Shinele Zone	306.01	7.6	-	91.49	-	-	0.91
Shinele	-	-	-	-	-	-	-
Erer	306.01	7.6	-	91.49	-	-	0.91
Jijiga Zone	*	81.08	-	18.92	-	-	-
Jijiga	*	100	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	20	-	80	-	-	-
Liben Zone	*	54.21	-	41.33	-	1.31	3.15
Filtu	*	-	-	-	-	-	-
Dolo Odo	*	33.93	-	58.91	-	3.33	3.83
Moyale	213	67.3	-	29.99	-	-	2.71

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
Somale Killil	96835.93	27.87	0.57	64.43	0.19	0.04	6.9
Shinele Zone	1098.65	25.8	-	63.83	-	-	10.37
Shinele	-	-	-	-	-	-	-
Erer	1098.65	25.8	-	63.83	-	-	10.37
Jijiga Zone	95737.28	27.91	0.58	64.45	0.2	0.04	6.83
Jijiga	53345.46	24.26	0.22	68.58	0.27	0.01	6.65
Teferi Ber	10799.1	54.31	0.1	29.05	-	0.37	16.17
Kebri Beyah	31592.73	30.84	2.16	63.38	-	-	3.63
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	40.73	40.4	-	59.6	-	-	-
Shinele Zone	40.73	40.4	-	59.6	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	40.73	40.4	-	59.6	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somale Killil	45.75	4.3	-	94.27	-	-	1.43
Shinele Zone	45.75	4.3	-	94.27	-	-	1.43
Shinele	-	-	-	-	-	-	-
Erer	45.75	4.3	-	94.27	-	-	1.43
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

ANNEX TABLES PRESENTING ESTIMATES, STANDARD ERRORS AND COEFFICIENTS OF VARIATION FOR SELECTED AREA AND PRODUCTION VARIABLES

Annex Tables 5.1-5.2

Annex Table 5.1

Estimate of Area, Production and their Standard Errors and Coefficients of Variation for Temporary Crops

All Holdings

SOMALI REGION

Crop	Holders	S.E.	C.V.	Area	S.E.	C.V	Production	S.E.	C.V.
Total	89239	3327	4	69456	539 3	8	849781.6	73300	9
Grain Crops	88942	3331	4	68501.27	529 2	8	743297.1	58543	8
Cereals	88739	3335	4	66091.2	505 8	8	734121.4	57577	8
Teff	276	125	45	53.08	35	67	261.17	118	45
Barley	22513	3524	16	6639.45	151 1	23	58205.78	11935	21
Wheat	29463	2980	10	8517.8	120 4	14	111426	15924	14
Maize	72504	3106	4	28298.95	197 2	7	273368.8	26160	10
Sorghum	53902	3155	6	22123.35	195 0	9	286875.5	28426	10
Finger millet	169	104	61	21.62	17	78	–	–	–
Oats / 'Aja'	5398	1536	28	436.96	122	28	3984.11	1016	25
Rice	–	–	–	–	–	–	–	–	–
Pulses	15394	1655	11	1905	217	11	6778.97	1630	24
Horse beans	139	96	69	14.62	9	64	42.17	29	68
Field peas	989	250	25	89.35	42	47	464.77	316	68
Haricot beans	9364	949	10	1224.32	149	12	2572.95	562	22
Chick-peas	3740	973	26	415.76	131	31	2646.51	1308	49
Lentils	849	282	33	83.71	31	37	862.73	357	41
Vetch	32	32	100	19.6	20	100	–	–	–
Soya beans	92	87	95	0.78	1	96	–	–	–
Fenugreek	1702	595	35	56.86	22	39	189.84	70	37
Gibto	–	–	–	–	–	–	–	–	–
Oilseeds	6587	2221	34	505.07	185	37	2396.7	720	30
Neug	116	71	61	4.27	4	86	–	–	–
Linseed	5629	2201	39	445.52	185	42	1409.81	539	38
Groundnuts	744	528	71	30.83	20	64	579.14	393	68
Safflower	–	–	–	–	–	–	–	–	–
Sesame	98	34	35	24.44	13	55	407.76	362	89
Rapeseed	–	–	–	–	–	–	–	–	–
Vegetables	1909	401	21	107.89	27	25	11796.11	3655	31
Lettuce	61	31	51	1.03	0	17	0.33	0	64
Head cabbage	138	75	54	8.97	4	47	465.14	328	71
Ethiopian cabbage	201	99	49	2.81	2	58	253.75	162	64
Tomatoes	1254	304	24	74.43	25	34	9845.26	3583	36
Green peppers	380	111	29	13.78	6	46	1231.63	635	52
Red peppers	77	74	96	6.77	7	97	–	–	–
Swiss chard	4	2	50	0.1	0	50	–	–	–
Root crops	10683	1758	16	846.83	198	23	94688.36	24902	26
Beet root	105	73	69	4.52	3	69	587.58	408	69
Carrot	7	4	58	0.36	0	67	4.15	3	71
Onion	4231	1220	29	342.97	129	38	33322.51	12392	37
Potatoes	1477	377	26	47.49	11	24	4778.59	1195	25
Garlic	4717	1340	28	269.51	99	37	40463.68	14919	37
Taro / 'Godere'	–	–	–	–	–	–	–	–	–
Sweet potatoes	2305	805	35	181.97	67	37	15531.85	6700	43

Annex Table 5.2

Estimates of Holders, Area, Production and their Standard Errors and Coefficients of Variations for Permanent crops

All Holdings

SOMALI REGION

Crop	Holders	S.E.	C.V.	Area	S.E	C.V	Production	S.E.	C.V.
Avocados									
Bananas									
Guavas	-	-	-	-	-	-	-	-	-
Lemons	1484	220	15	191	57	30	18371.25	5770	31
Mangoes	1119	239	21	40	18	45	189.57	69	36
Oranges	979	151	15	35	5	13	1493.22	225	15
Papayas	1562	360	23	42	11	26	1610.8	907	56
Pineapples	679	65	10	55	7	14	9272.39	1310	14
Chat	1760	341	19	61	28	46	3090.54	1598	52
Coffee	-	-	-	-	-	-	-	-	-
Hops									
Enset	32371	2013	6	7636	680	9	96835.93	13020	13
Sugar cane	874	569	65	29	18	61	40.73	13	31

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 country's 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.

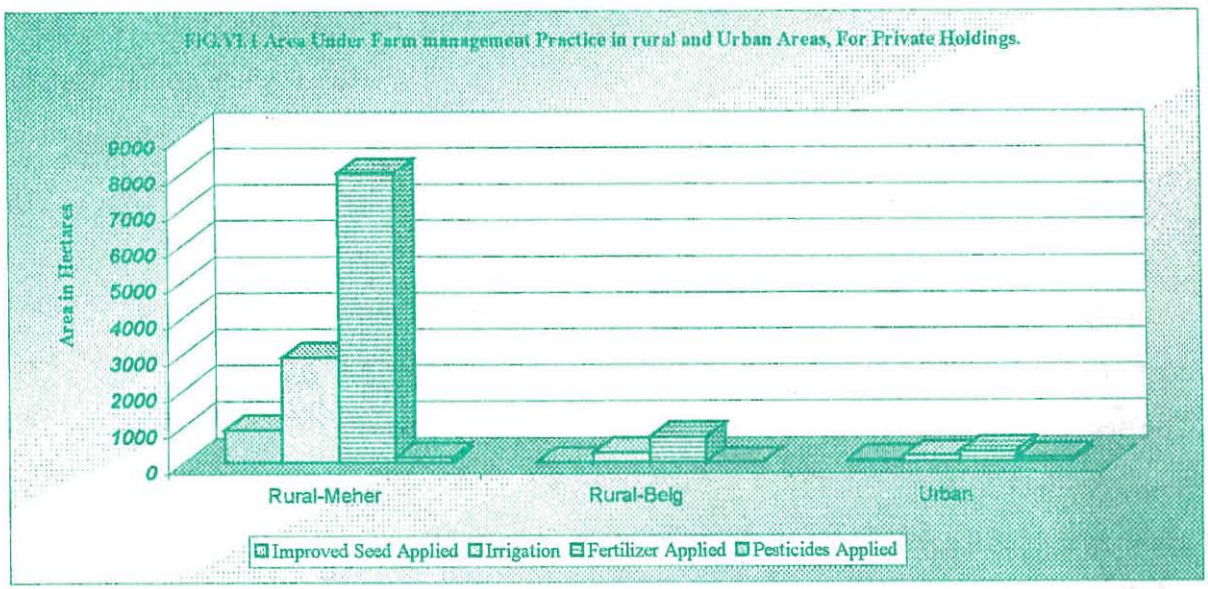
In general, this chapter deals with the agricultural census data that indicates the type of inputs applied, quantity of inputs applied, the irrigated cropland area, estimates of cropland area damage, number of holders who applied different agricultural inputs and farm management practices, and number of holders covered by extension package programs in Somali 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 Somali 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 Somali region are briefly discussed.

The census data show that Somali 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 wheat, that accounted for about 75.46% 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 grain 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 Somali region fertilizers were applied on only 8321 hectares (10.651%) of the total cultivated cropland area. Of this total area fertilized cropland, the share of rural areas was found to be 96.29%. Moreover, the proportion of total fertilized cropland areas in rural areas for Meher season was 7311 hectares (87.86%) as compared to only 701 hectares (8.42%) for Belg season. Regarding private holdings in urban areas, data are collected and presented only for Meher season i.e 310 hectares (3.73%) was reported to be fertilized cropland area. For details, refer to Summary Table VI.1 and Fig VI.1.

Furthermore, out of the total fertilized cropland areas, 80.07% were under cereals, 2.09% under pulses, 0.49% under vegetables, 0.78% under root crops, and 1.39% under fruits and 14.97 under stimulants. 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 (3204 hectares) which is about 38.50% of the total cropland area under fertilizers. The second important fertilized crop is sorghum covering 2272 hectares (27.30%) of the total cropland area under fertilizers. Chat ranks third taking up 14.95% 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 Jijiga Zone has relatively the highest share from the total fertilizer applied cropland area i.e (85.70%) as compared to Shinele and Liben zones which contributed about 2.78% and 11.54% to the total regional fertilized crop land area, respectively.

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 273 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 57.14% and 42.86%, 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 55.68 percent For details see Summary Table VI.1.

Furthermore, most of the pesticide applied land areas in the region was under cereal crops (about 72.89%) where as only 0.37% and 1.47% of the fields under vegetables and fruits were treated with pesticides. More over, out of all cropland areas on which pesticides are applied, maize and sorghum accounted for about 80 and 78 hectares, respectively. For Details, see Summary Tables VI.1 and VI.2. Moreover, Cropland 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 Jijiga zone has relatively the highest share from the total pesticides treated cropland area i.e (65.57%) as compared to Shinele and Liben zones which contributed about 5.49% and 29.30% to the regional pesticides treated cropland area, respectively.

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 78105 hectares. Of this total, only 1000 hectares (1.28% of the total crop land area) was sown with improved variety of seeds. The share of rural and urban areas was found to be 92.10 percent and 7.90 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 2.90% (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 85.90% and 4.90% of the total area under improved seeds was reported to be under cereals and pulses, respectively. While oil seeds, vegetables and other permanent crops covered the remaining area on which improved seeds are applied. 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 Jijiga zone has relatively the highest share from the total cropland area with application of improved seeds (67.10%) as compared to Shinele zone (4%) and Liben zone (28.9%).

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 3101 hectares and this accounted for about 3.97 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. Of the mentioned total irrigated cropland area, the share of rural and urban areas was to be 93.91% and 6.09%respectively. Thus there is large difference in the size of the total irrigated cropland areabetween rural urban areas (See summary Tables VI.1 and VI.2).

More over, of the total irrigated cropland areas in rural areas, the Meher season contributed 84.36% compared to 9.55% for Belg. As indicated in Summary Table VI.1, out of the total irrigated cropland area in the region 64.56% under cereals, 2.81 % under pulses, 1.74% under vegetables 4.32% under root crops, 12.71% under fruits, 13.03%under stimulants and 0.06% under other permanent crops. In both rural and urban areas, the proportion of area under irrigation for cereal crops was the the highest as compared to other crops with regard to specific crops maize at 1180, sorghum at 733 and chat at 379 hectares reported the largest area of land under irrigation. The Census data in Summary Table VI.3 indicate that irrigated cropland area was relatively highest in Liben zone (39.21%) followed by Jijiga zone 31.02% and then Shinele zone taking up 29.706% of the total regional irrigated cropland area.

3 HOLDERS APPLYING FERTILIZERS, AREA, AND QUANTITY OF FERTILIZERS APPLIED

In 2001/02 Agricultural Sample Enumeration, the total number of holders applying fertilizers in Somali regional State, is estimated to be about 17329. Of these total private holders, about 16821 holders (97.07%) were in rural and about 2.93% in urban areas. The application of fertilizers in Meher and Belg seasons for private holdings in rural areas shows a great variation, that is, 89.92% of the holders applied fertilizers in Meher season while only 9.79 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 (16244) and a total of 1546 holders' utilized chemical fertilizer. Out of the mentioned total number of holders who utilized chemical fertilizers about 422, 426 and 717 holders have applied DAP, UREA and a mixture of DAP+UREA on their farm, respectively. On the other hand in urban areas of the region only 106 holders utilized chemical fertilizers.

Among the types of fertilizers used, natural fertilizers was applied in larger cultivated cropland area, which is about 7663 hectares (That is, 92.09% of fertilized cropland area). Next to natural fertilizers, chemical fertilizers were applied on about 658 hectares of cropland area, where 589 hectares were in rural areas and the remaining 69 hectares of cropland was in urban areas of the region. In rural areas of the region 134, 167 and 289 hectares of cropland was covered by DAP, UREA and by a mixture of DAP+UREA, respectively (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 435 quintals, of which, the share of the mixture of DAP and UREA was the highest accounting for about 80.46 percent of the total quantity of chemical fertilizers applied. This is followed by DAP accounting for about 7.59 percent, while the share of UREA was insignificant (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 Jijiga zone 98.39%, while almost none is reported for Shinele and Liben zones each.

3.1 Application of Natural Fertilizers in the Rural and Urban Areas

According to the census findings, about 16244 holders in rural areas were applied natural fertilizers on 7663 hectares of cropland (comprising 92.09% of the total fertilized land area)

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..	78105	66091	1905	505	526	115	847	438	7665	*
Rural.....	76271	64407	1848	497	526	105	830	423	7624	*
Meher	68257	57041	1347	493	523	97	697	423	7624	*
Belg.....	8015	7366	501	*	*	8	*	*	*	*
Urban (Meher)	1834	1684	57	*	*	10	17	15	42	1
Improved Seeds										
Rural and Urban..	1000	859	49	*	*	*	*	*	*	*
Percent..	100	85.90	4.90	*	*	*	*	*	*	*
Rural.....	921	786	49	*	*	*	*	*	*	*
Percent..	92.10	85.34	5.32	*	*	*	*	*	*	*
Meher	892	765	44	*	*	*	*	*	*	*
Percent..	89.20	85.76	4.93	*	*	*	*	*	*	*
Belg.....	29	20	*	*	*	*	*	*	*	*
Percent..	2.90	68.97	*	*	*	*	*	*	*	*
Urban (Meher)	79	73	*	1	*	*	*	*	*	*
Percent..	7.90	92.41	*	1.27	*	*	*	*	*	*
Irrigation										
Rural and Urban..	3101	2002	87	*	*	54	134	394	404	2
Percent..	100.00	64.56	2.81	*	*	1.74	4.32	12.71	13.03	0.06
Rural.....	2912	1883	53	*	*	47	122	389	398	2
Percent..	93.91	64.66	1.82	*	*	1.61	4.19	13.36	13.67	0.07
Meher	2616	1631	49	*	*	43	88	389	398	2
Percent..	84.36	62.35	1.87	*	*	1.64	3.36	14.87	15.21	0.08
Belg.....	296	252	*	*	*	4	34	*	*	*
Percent..	9.55	85.14	*	*	*	1.35	11.49	*	*	*
Urban (Meher)	189	119	35	*	*	7	12	5	5	*
Percent..	6.09	62.96	18.52	*	*	3.70	6.35	2.65	2.65	*
Fertilizer										
Rural and Urban..	8321	6663	174	*	*	41	65	116	1246	*
Percent..	100.00	80.07	2.09	*	*	0.49	0.78	1.39	14.97	*
Rural.....	8012	6424	144	*	*	39	58	112	1227	*
Percent..	96.29	80.18	1.80	*	*	0.49	0.72	1.40	15.31	*
Meher	7311	5778	99	*	*	38	48	112	1227	*
Percent..	87.86	79.03	1.35	*	*	0.52	0.66	1.53	16.78	*
Belg.....	701	646	45	*	*	1	*	*	*	*
Percent..	8.42	92.15	6.42	*	*	0.14	*	*	*	*
Urban (Meher)	310	239	31	*	*	2	*	4	20	*
Percent..	3.73	77.10	10.00	*	*	0.65	*	1.29	6.45	*
Pesticides										
Rural and Urban..	273	199	*	*	*	1	*	4	*	*
Percent..	100.00	72.89	*	*	*	0.37	*	1.47	*	*
Rural.....	156	111	*	*	*	*	*	*	*	*
Percent..	57.14	71.15	*	*	*	*	*	*	*	*
Meher	152	108	*	*	*	*	*	*	*	*
Percent..	55.68	71.05	*	*	*	*	*	*	*	*
Belg.....	*	*	*	*	*	*	*	*	*	*
Percent..	*	*	*	*	*	*	*	*	*	*
Urban (Meher)	117	88	*	*	*	1	*	*	3	*
Percent..	42.86	75.21	*	*	*	0.85	*	*	2.56	*

Of the total cropland area on which natural fertilizers are applied, the share of Meher and Belg season in rural areas was 80.82 and 8.39 percent, respectively. Moreover, of the total land area on which natural fertilizers are applied 80.46% was under cereals, 2.17% under pulses, 0.48% under vegetables, 0.67% under root crops 0.93% under fruits and 15.18% under stimulants 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 422 holders in rural areas have applied DAP on about 134 hectares, which is about 1.61% of the total fertilized cropland area. Cropland areas under the application of DAP varied markedly from one group of crops to another, i.e., 57.46% and 17.16% of the total DAP was applied for cereals and stimulants, respectively. while the remaining was applied on pulses, vegetables, root crops and fruits crop categories. Variations with respect to specific crops are also considerable, i.e., relatively higher for Chat (For details, refer to Summary Tables VI.4 and VI.5).

Furthermore, the total quantity of DAP applied in rural areas is estimated to be about 33 quintals, which is 7.59% of the total quantity of chemical fertilizers applied. In general, the quantity of DAP applied was the highest for cereals i.e (87.88%).

3.3 Application of UREA in the Rural Areas

Since chemical fertilizers have been widely promoted, only 426 holders in rural areas have applied UREA, and the cropland areas under UREA occupied 167 hectares, which is 2.01% of the total fertilizers applied crop land area (See Summary Table VI.4 and VI.5). Cropland areas under the application of UREA varied markedly from one group of crops to another, i.e., 72.46% of the total UREA was applied for cereals. while the remaining was applied on vegetables, root crops, fruits and other permanent crop categories. Variations with respect to specific crops are also observed (For details, refer to Summary Tables VI.4 and VI.5).

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	78105	1000	1.28	3101	3.97	8321	10.65	273	0.35
Grain Crops	69027	910	1.32	2113	3.06	6852	9.93	228	0.33
Cereals	66091	859	1.3	2002	3.03	6663	10.08	199	0.3
Teff	*	-	-	-	-	2	*	-	-
Barley	6639	*	*	*	*	*	*	*	*
Wheat	8518	136	1.6	*	*	851	9.99	36	0.42
Maize	28299	414	1.46	1180	4.17	3204	11.32	80	0.28
Sorghum	22123	269	1.22	733	3.31	2272	10.27	78	0.35
Finger millet	*	-	-	-	-	*	*	-	-
Oats ('Aja')	437	*	*	-	-	*	*	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	1905	49	2.57	87	4.57	174	9.13	*	*
Horse beans	*	-	-	-	-	-	-	-	-
Field peas	89	*	*	-	-	2	2.25	-	-
Haricot beans	1224	43	3.51	86	7.03	164	13.4	*	*
Chick peas	416	*	*	*	*	*	*	-	-
Lentils	84	*	*	-	-	-	-	-	-
Vetch	*	-	-	-	-	-	-	-	-
Soya	*	-	-	-	-	-	-	-	-
Fenugreek	57	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	505	*	*	*	*	*	*	*	*
Neug	*	-	-	*	*	-	-	-	-
Linseed	446	-	-	-	-	-	-	-	-
Ground nuts	*	*	*	-	-	*	*	-	-
Sufflower	-	-	-	-	-	-	-	-	-
Sesame	*	-	-	*	*	*	*	*	*
Rapeseed	-	-	-	-	-	-	-	-	-
Other Grains	526	-	-	*	*	*	*	-	-
Vegetables	115	*	*	54	46.96	41	35.65	1	0.87
Lettuce	1	-	-	1	100	*	*	-	-
Head cabbage	9	*	*	*	*	*	*	-	-
Kale	*	-	-	*	*	*	*	-	-
Tomatoes	74	*	*	39	52.7	*	*	*	*
Green peppers	14	-	-	*	*	3	21.43	*	*
Red peppers	*	-	-	-	-	-	-	-	-
Swiss chard	*	-	-	*	*	-	-	-	-
Others	*	-	-	-	-	*	*	-	-
Root Crops	847	*	*	134	15.82	65	7.67	*	*
Beet root	*	*	*	*	*	*	*	-	-
Carrot	*	-	-	*	*	*	*	-	-
Onions	343	*	*	49	14.29	35	10.2	*	*
Potatoes	47	-	-	*	*	12	25.53	*	*
Garlic	270	-	-	*	*	*	*	*	*
Taro	-	-	-	-	-	-	-	-	-
Sweet potatoes	182	*	*	70	38.46	*	*	-	-
Others	-	-	-	-	-	-	-	-	-
Permanent Crops	8116	*	*	800	9.86	1362	16.78	*	*
Fruit Crops	438	*	*	394	89.95	116	26.48	4	0.91
Avocado	-	-	-	-	-	-	-	-	-
Bananas	191	8	4.19	185	96.86	29	15.18	*	*
Guava	40	*	*	*	*	*	*	*	*
Lemons	35	*	*	32	91.43	11	31.43	*	*
Mangoes	42	*	*	35	83.33	7	16.67	*	*
Oranges	55	*	*	54	98.18	19	34.55	*	*
Papayas	61	*	*	59	96.72	*	*	*	*
Pineapples	-	-	-	-	-	-	-	-	-
Others	*	-	-	5	*	*	*	-	-
Stimulant Crops	7665	-	-	403	5.26	1246	16.26	*	*
Chat	7636	-	-	379	4.96	1244	16.29	*	*
Coffee	*	-	-	*	*	3	*	-	-
Hops	*	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Other Permanent	*	-	-	2	*	*	*	-	-
Enset	2	-	-	*	*	-	-	-	-
Sugar Cane	1	-	-	1	100	*	*	-	-
Others	*	-	-	*	*	-	-	-	-

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
Somali Killil								
Irrigation	3101	100	2615	296	2911	100	189	100
Imroved seeds..	1000	100	892	29	921	100	79	100
Pesticides.....	273	100	152	*	156	100	117	100
Fertilizer.....	8321	100	7311	701	8012	100	309	100
Shinele								
Irrigation	923	29.76	801	109	910	31.26	13	6.88
Imroved seeds..	40	4.00	34	-	34	3.69	5	6.33
Pesticides.....	15	5.49	13	-	13	8.33	*	*
Fertilizer.....	231	2.78	210	11	221	2.76	10	3.24
Jijiga								
Irrigation	962	31.02	885	*	938	32.22	23	12.17
Imroved seeds..	671	67.10	612	-	612	66.45	59	74.68
Pesticides.....	179	65.57	117	*	120	76.92	59	50.43
Fertilizer.....	7131	85.70	6795	*	6919	86.36	211	68.28
Liben								
Irrigation	1216	39.21	929	134	1063	36.52	153	80.95
Imroved seeds..	289	28.90	246	29	275	29.86	*	*
Pesticides.....	80	29.30	*	*	*	*	*	*
Fertilizer.....	960	11.54	305	566	871	10.87	88	28.48

Fig. VI.2 Fertilizer Applied area by Type in Rural and Urban Areas For Private Holdings.

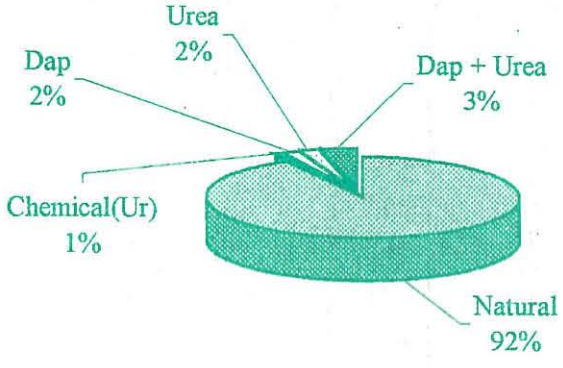
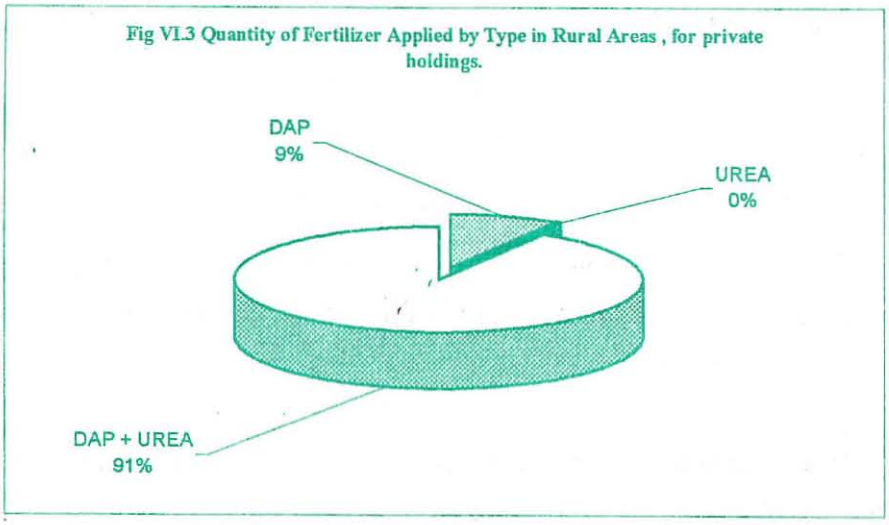


Fig VI.3 Quantity of Fertilizer Applied by Type in Rural Areas , for private holdings.



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 717 holders in rural areas who applied a mixture of DAP and UREA on 289 hectares, which is 3.47% of the total area on which fertilizers were applied. The application of a mixture of DAP and UREA to cereals and stimulants covered 245 and 33 hectares, respectively. It was observed that the application of a mixture of UREA and DAP is almost non-in other crops relative to cereals and stimulants.

In addition, out of the total quantity of chemical fertilizers applied, the amount of a mixture of DAP and UREA was 350 quintals, which is 80.461% 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 86.57% (303 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 Jijiga zone 71.75% while it was 0.68 in Shinele zone and almost non in Liben zone.

4.1 Number of Holders using Improved Seeds.

As portrayed in Summary Table VI.6 the use of improved seeds is limited to only 2607 holders in rural and 64 holders in urban areas of the region. Of the total holders using improved seeds, 50.92% utilized improved maize seed, 34.37% improved sorghum seed, 16.25% improved wheat seed, and 9.96% utilized improved variety of haricot bean 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 485 quintals, of which the share of Meher season was79.16% (384 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.

More over, out of the total quantity of improved seed utilized, about 20% and 3.30% were accounted for maize and sorghum, respectively. Details are given in Summary Table VI.6

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	17329	14910	1377	*	*	688	1438	1076	7156	41
Percent..	100									
Natural	16244	14032	1325	*	*	555	1214	1000	6718	41
Chemical	1546	1254	-	-	-	-	-	-	504	-
DAP	422	317	*	-	-	*	*	*	155	-
UREA	426	310	-	-	-	*	*	*	*	-
DAP+UREA.....	717	628	*	-	-	-	*	-	228	-
Urban.....	508	400	29	12	-	37	25	26	105	5
Percent..	2.93									
Natural	418	313	29	8	-	18	12	23	101	5
Chemical.....	106	99	-	*	-	19	*	*	*	-
Rural Meher	15582	13248	1125	*	*	603	1224	1049	7051	*
Percent..	89.92									
Natural	14615	12463	1073	*	*	502	1025	977	6617	*
Chemical.....	1411	1151	*	-	-	*	*	*	500	-
DAP	422	317	*	-	-	*	*	*	155	-
UREA	410	306	-	-	-	*	*	*	*	-
DAP+UREA.....	706	628	*	-	-	-	*	-	228	-
Rural Belg	1697	1637	328	-	-	47	*	-	-	-
Percent..	9.79									
Natural	1669	1633	328	-	-	34	*	-	-	-
Chemical.....	*	*	-	-	-	*	*	-	-	-
DAP	-	-	-	-	-	-	-	-	-	-
UREA	*	*	-	-	-	*	-	-	-	-
DAP+UREA.....	*	-	-	-	-	-	*	-	-	-
	Area in Hectares									
Rural and Urban	8321	6663	174	*	*	41	65	116	1246	*
Percent..	100	80.07	2.09	*	*	0.49	0.78	1.39	14.97	*
Natural	7663	6166	166	*	*	37	51	71	1163	*
Percent..	92.09	80.46	2.17	*	*	0.48	0.67	0.93	15.18	*
Chemical.....	658	496	-	-	-	-	15	-	83	-
Percent..	7.91	75.38	-	-	-	-	2.28	-	12.61	-
DAP	134	77	*	-	-	*	*	*	23	-
Percent..	1.61	57.46	*	-	-	*	*	*	17.16	-
UREA.....	167	121	-	-	-	*	*	*	*	-
Percent..	2.01	72.46	-	-	-	*	*	*	*	-
DAP+UREA...	289	245	*	-	-	-	*	-	33	-
Percent..	3.47	84.78							11.42	-
Urban	309	239	30	*	-	2	*	4	20	-
Percent..	3.71	77.35	9.71	*	-	0.65	*	1.29	6.47	-
Natural	241	186	30	1	-	1	1	2	19	-
Percent..	2.90	77.18	12.45	0.41	-	0.41	0.41	0.83	7.88	-
Chemical (Urban)	69	53	-	*	-	1	*	*	*	-
Percent..	0.83	76.81	-	*	-	1.45	*	*	*	-
Rural Meher	7311	5778	99	*	*	38	48	112	1227	*
Percent..	87.86	79.03	1.35	*	*	0.52	0.66	1.53	16.78	*
Natural	6725	5337	91	*	*	35	42	69	1143	*
Percent..	80.82	79.36	1.35	*	*	0.52	0.62	1.03	17	*
Chemical.....	586	441	*	-	-	*	*	*	83	-
Percent..	7.04	75.26	*	-	-	*	*	*	14.16	-
DAP	134	77	*	-	-	*	*	*	23	-
Percent..	1.61	57.46	*	-	-	*	*	*	17.16	-
UREA.....	164	118	*	-	-	*	*	*	*	-
Percent..	1.97	71.95	-	-	-	*	*	*	*	-
DAP+UREA...	288	245	*	-	-	-	*	-	33	-
Percent..	3.46	85.07	*	-	-	-	*	-	11.46	-
Rural Belg	701	646	45	-	-	1	*	-	-	-
Percent..	8.42	92.15	6.42	-	-	0.14	*	-	-	-
Natural	698	643	45	-	-	1	*	-	-	-
Percent..	8.39	92.12	6.45	-	-	0.14	*	-	-	-
Chemical.....	*	*	-	-	-	*	*	-	-	-
Percent..	*	*	-	-	-	*	*	-	-	-
DAP	-	-	-	-	-	-	-	-	-	-
Percent..	-	-	-	-	-	-	-	-	-	-
UREA.....	*	*	-	-	-	*	-	-	-	-
Percent..	*	*	-	-	-	*	-	-	-	-
DAP+UREA...	*	-	-	-	-	-	*	-	-	-
Percent..	*	-	-	-	-	-	*	-	-	-

SUMMARY TABLE VI.4 CONTD.

	Quantity in Quintals										
Rural	435	419	-	-	-	*	*	-	*	-	-
Percent..	100	96.32	-	-	-	*	*	-	*	-	-
DAP	33	29	-	-	-	*	*	-	*	-	-
Percent..	7.59	87.88	-	-	-	*	*	-	*	-	-
UREA	*	*	-	-	-	*	*	-	*	-	-
Percent..	*	*	-	-	-	*	*	-	*	-	-
DAP+UREA.....	350	344	-	-	-	-	*	-	*	-	-
Percent..	80.46	98.29	-	-	-	-	*	-	*	-	-
Rural Meher.....	435	419	-	-	-	*	*	-	*	-	-
Percent..	100.00	96.32	-	-	-	*	*	-	*	-	-
DAP	33	29	-	-	-	*	*	-	*	-	-
Percent..	7.59	87.88	-	-	-	*	*	-	*	-	-
UREA	*	*	-	-	-	*	*	-	*	-	-
Percent..	*	*	-	-	-	*	*	-	*	-	-
DAP+UREA.....	350	344	-	-	-	-	*	-	*	-	-
Percent..	80.46	98.29	-	-	-	-	*	-	*	-	-
Rural Belg.....	*	*	-	-	-	*	*	-	-	-	-
Percent..	*	-	-	-	-	-	-	-	-	-	-
DAP	-	-	-	-	-	-	-	-	-	-	-
Percent..	-	-	-	-	-	-	-	-	-	-	-
UREA	*	*	-	-	-	*	-	-	-	-	-
Percent..	*	*	-	-	-	*	-	-	-	-	-
DAP+UREA.....	*	-	-	-	-	-	*	-	-	-	-
Percent..	*	-	-	-	-	-	*	-	-	-	-

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 tota

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 Somali 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 (73.24% in rural and 56.71 % in urban areas) were found to be illiterate while 21.67% in rural and 21.61% in urban areas have participated in informal education. Moreover, the data shows that 3.76% of the

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	17329	8321	16244	7663	422	134	33
Grain Crops	15074	6852	14200	6341	317	78	29
Cereals	14910	6663	14032	6166	317	77	29
Teff	8	2	*	*	-	-	-
Barley	1684	*	1599	*	*	*	*
Wheat	3116	851	2391	550	140	*	*
Maize	10998	3204	10584	3116	*	*	*
Sorghum	6534	2272	6137	2180	*	*	*
Finger millet	*	*	*	*	-	-	-
Oats ('Aja')	300	*	300	*	-	-	-
Rice	-	-	-	-	-	-	-
Pulses	1377	174	1325	166	*	*	-
Horse beans	-	-	-	-	-	-	-
Field peas	*	2	17	1	*	*	-
Haricot beans	1281	164	1249	157	-	-	-
Chick peas	*	*	*	*	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oil Seeds	*	*	*	*	-	-	-
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Ground nuts	*	*	*	*	-	-	-
Sufflower	-	-	-	-	-	-	-
Sesame	*	*	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Other Grains	*	*	*	*	-	-	-
Vegetables	688	41	555	37	*	*	*
Lettuce	*	*	*	*	-	-	-
Head cabbage	*	*	*	*	-	-	-
Kale	*	*	*	*	-	-	-
Tomatoes	428	*	331	*	*	*	*
Green peppers	130	3	124	*	-	-	-
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Others	*	*	*	*	-	-	-
Root Crops	1438	65	1214	51	*	*	*
Beet root	*	*	*	*	-	-	-
Carrot	*	*	-	-	-	-	-
Onions	552	35	498	26	-	-	-
Potatoes	582	12	478	9	*	*	*
Garlic	*	*	*	*	-	-	-
Taro ('Godere')	-	-	-	-	-	-	-
Sweet potatoes	*	*	85	5	*	*	*
Others	-	-	-	-	-	-	-
Permanent Crops	7877	1362	7410	1234	180	*	*
Fruit Crops	1076	116	1000	71	*	*	-
Avocado	-	-	-	-	-	-	-
Bananas	277	29	274	28	-	-	-
Guava (Zeytuna)	170	*	145	*	*	*	-
Lemons	232	11	232	11	-	-	-
Mangoes	306	7	306	7	-	-	-
Oranges	260	19	234	14	*	*	-
Papayas	355	*	330	3	*	*	-
Pineapples	-	-	-	-	-	-	-
Others	150	*	103	2	*	*	-
Stimulant Crops	7156	1246	6718	1163	155	23	*
Chat	7119	1244	6681	1160	155	23	*
Coffee	44	3	44	3	-	-	-
Hops	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-
Other Permanent	41	*	41	*	-	-	-
Enset	-	-	-	-	-	-	-
Sugar Cane	41	*	41	*	-	-	-
Others	-	-	-	-	-	-	-

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	426	167	*	717	289	350	106	69
Grain Crops	310	121	*	628	253	344	99	60
Cereals	310	121	*	628	245	344	99	53
Teff	-	-	-	-	-	-	4	1
Barley	-	-	-	*	*	-	14	7
Wheat	149	*	*	414	182	303	21	6
Maize	*	*	*	*	*	*	54	30
Sorghum	*	*	*	*	*	*	36	10
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	*	*	*	-	-	-	19	1
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	*	*	*	-	-	-	-	-
Kale	-	-	-	-	-	-	-	-
Tomatoes	*	*	*	-	-	-	*	*
Green peppers	-	-	-	-	-	-	6	*
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Root Crops	*	*	*	*	*	*	*	*
Beet root	*	*	*	-	-	-	-	-
Carrot	-	-	-	-	-	-	*	*
Onions	*	*	*	*	*	*	*	*
Potatoes	-	-	-	*	*	*	-	-
Garlic	-	-	-	-	-	-	-	-
Taro ('Godere')	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Permanent Crops	143	*	*	228	33	*	*	*
Fruit Crops	*	*	-	-	-	-	*	*
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	*	*
Guava (Zeytuna)	*	*	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	*	*	-	-	-	-	-	-
Papayas	*	*	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Stimulant Crops	*	*	*	228	33	*	*	*
Chat	*	*	*	228	33	*	*	*
Coffee	-	-	-	-	-	-	-	-
Hops	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Other Permanent Crops	-	-	-	-	-	-	-	-
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	2671	100	2506	133	64	485	100	384	*
Cereals	2192	82.07	2055	85	52	374	77.11	372	*
Teff	-	-	-	-	-	-	-	-	-
Barley	*	*	*	-	*	*	*	*	-
Wheat	434	16.25	423	-	11	*	*	*	-
Maize	1360	50.92	1264	70	26	97	20.00	95	*
Sorghum	918	34.37	867	*	36	16	3.30	16	*
Finger millet	-	-	-	-	-	-	-	-	-
Oats ('Aja')	*	*	*	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	270	10.11	213	*	-	*	*	*	*
Horse beans	-	-	-	-	-	-	-	-	-
Field peas	*	*	*	-	-	*	*	*	-
Haricot beans	266	9.96	209	*	-	*	*	*	*
Chick peas	*	*	*	-	-	*	*	*	-
Lentils	*	*	*	-	-	*	*	*	-
Vetch	-	-	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Oil Seeds	*	*	*	-	4	-	-	-	-
Neug	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-
Ground nuts	*	*	*	-	4	-	-	-	-
Sufflower	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Other Grains	-	-	-	-	-	-	-	-	-
Vegetables	*	*	*	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage	*	*	*	-	-	-	-	-	-
Kale	-	-	-	-	-	-	-	-	-
Tomatoes	*	*	*	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Root Crops	151	5.65	*	*	*	-	-	-	-
Beet root	*	*	*	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onions	*	*	*	*	*	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro ('Godere')	-	-	-	-	-	-	-	-	-
Sweet potatoes	*	*	*	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Fruit Crops	324	12.13	315	-	9	-	-	-	-
Avocado	-	-	-	-	-	-	-	-	-
Bananas	23	0.86	*	-	*	-	-	-	-
Guava (Zeytuna)	83	3.11	*	-	6	-	-	-	-
Lemons	*	*	*	-	-	-	-	-	-
Mangoes	*	*	*	-	6	-	-	-	-
Oranges	70	2.62	70	-	-	-	-	-	-
Papayas	*	*	*	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Stimulant Crops	-	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-	-
Other Permanent Crops	-	-	-	-	-	-	-	-	-

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	Shinele	Jijiga	Liben
Chemical Fertilizers				
Total	435	*	428	*
Percent	100	*	98.39	*
Meher	435	*	428	-
Belg	*	*	-	*
Improved seeds				
Total	485	3	348	*
Percent	100	0.62	71.75	*
Meher	384	3	348	33
Belg	*	-	-	*

holders in rural and 8.61% of holders in urban areas have completed grades 1 to 6 and only 1.27% of the holders in rural and 12.51 % in urban areas have completed grades 7-12.

Furthermore, around 0.61% of the holders in rural 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.

Moreover, the total number of holders participating in the agricultural extension package programs was 1468, which is only 1.61 percent of the total holders in the region. Of the total holders participating in the extension programs, 1346 holders were in Meher season and 121 holders were in Belg season. The distribution of extension package program participants by educational status shows that 69.55% were illiterate, 22.75% have participated in informal education, 7.05% have completed grades 1 to 6.

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, 54.17,

65.52, 69.40 and 52.87 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 14302 holders (82.53%), 2179 holders (12.57%) and 848 holders(4.89%) in Jijiga, Shinele and Liben zones, respectively. The second most widely used is irrigation scheme and practiced by 3657 holders (40.76%), 3418 holders(38.10%) and 1895 holders(21.12%) in Jijiga, Liben and Shinele zones, respectively. For details, refer to Summary Table VI.9.

6 DAMAGED CROPLAND AREAS AND SIZE OF HOLDINGS IN RURAL AREAS

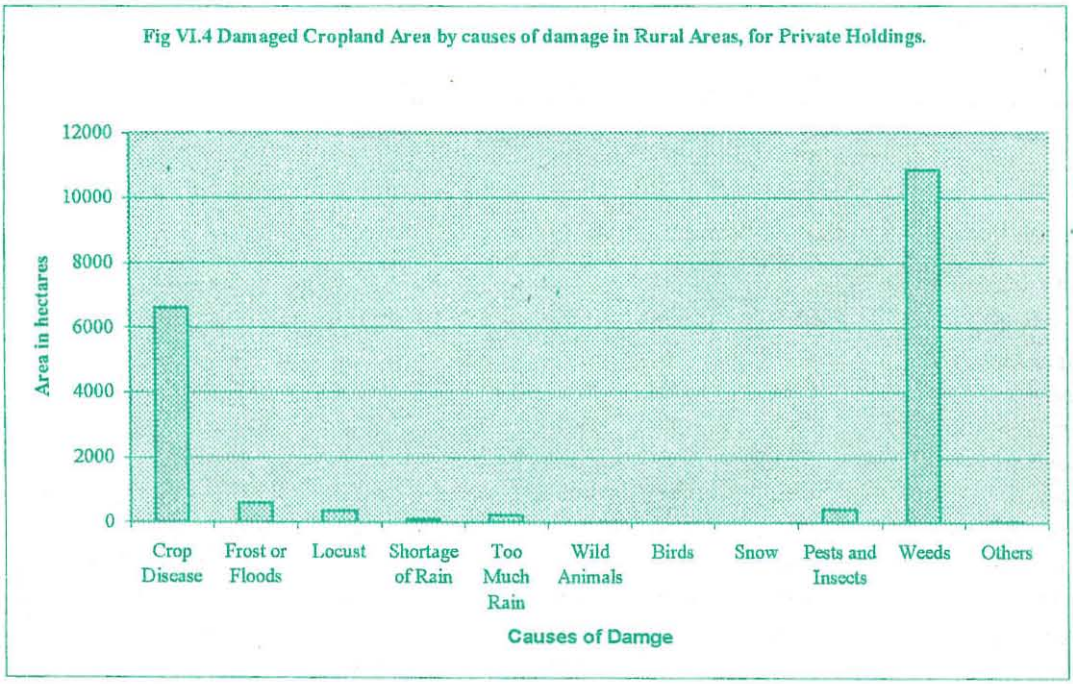
This section of the chapter deals with the estimates of damaged cropland areas by size of holdings in Somali region. Cropland area damage includes any cropland planted or sown with intension to harvest crops, but failed to produce crop partly or fully due to various reasons. Out of the total cultivated cropland area, 27.77% in Meher and 4.43% in Belg seasons were affected by crop damage. The cropland area damage that accounted for 37.37% fall under holders in rural areas who had holding size that ranges from 1.01 and 2 hectares, followed by holders in rural areas who had holding size of between 2.01 and 5 hectares accounted for 25.38% of the cropland area damage and the holders in rural areas with holding size between 0.51and 1 hectare accounted for 24.53% of the total regional crop damage. With regard to the causes of crop damage, it is reported that 1.29% was damaged due to too much rain, locust caused 1.84% of the total crop damage, 34.31% was due to crop disease, 56.25% was due to weeds (For details see Summary Table VI.10 and Fig VI.4).

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	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
All Crop Holders												
Rural and Urban	91300	100	66327	72.65	19784	21.67	3592	3.93	1524	1.67	74	0.08
Rural	88015	100	64464	73.24	19074	21.67	3309	3.76	1114	1.27	*	*
Meher	83504	100	62041	74.30	17706	21.20	2861	3.43	869	1.04	*	*
Belg	16769	100	10642	63.46	4176	24.90	1358	8.10	564	3.36	*	*
Urban	3285	100	1863	56.71	710	21.61	283	8.61	411	12.51	20	0.61
Improved Seeds												
Rural and Urban	2671	2.93	1447	54.17	977	36.58	199	7.45	*	*	*	*
Rural	2607	2.96	1406	53.93	970	37.21	194	7.44	*	*	*	*
Meher	2506	3.00	1375	54.87	916	36.55	178	7.10	*	*	*	*
Belg	133	0.79	*	*	*	*	*	*	*	*	*	*
Urban	64	1.95	41	64.06	8	12.50	*	*	11	17.19	*	*
Irrigation												
Rural and Urban	8971	9.83	5878	65.52	1939	21.61	846	9.43	297	3.31	11	0.12
Rural	8551	9.72	5708	66.75	1869	21.86	736	8.61	240	2.81	*	*
Meher	8290	9.93	5617	67.76	1770	21.35	682	8.23	220	2.65	*	*
Belg	1808	10.78	1210	66.92	317	17.53	254	14.05	*	*	*	*
Urban	420	12.79	170	40.48	71	16.90	110	26.19	58	13.81	11	2.62
Fertilizer												
Rural and Urban	17329	18.98	12026	69.40	4121	23.78	769	4.44	411	2.37	*	*
Rural	16821	19.11	11824	70.29	4006	23.82	672	4.00	320	1.90	*	*
Meher	15583	18.66	11062	70.99	3691	23.69	560	3.59	270	1.73	*	*
Belg	1697	10.12	963	56.75	483	28.46	182	10.72	*	*	*	*
Urban	508	15.46	202	39.76	115	22.64	97	19.09	91	17.91	*	*
Pesticides												
Rural and Urban	679	0.74	359	52.87	220	32.40	*	*	*	*	*	*
Rural	589	0.67	333	56.54	189	32.09	*	*	*	*	*	*
Meher	550	0.66	302	54.91	187	34.00	*	*	*	*	*	*
Belg	*	*	*	*	*	*	*	*	*	*	*	*
Urban	90	2.74	26	28.89	31	34.44	15	16.67	18	20.00	*	*
Extension Program												
Rural	1468	1.61	1021	69.55	334	22.75	104	7.08	*	*	*	*
Meher	1346	1.53	937	69.61	314	23.33	*	*	*	*	*	*
Belg	121	0.14	*	*	*	*	*	*	*	*	*	*

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
Somali Region								
Irrigation	8971	100	8290	1808	8551	100	420	100
Improved Seeds	2671	100	2506	133	2607	100	64	100
Pesticides	678	100	549	*	588	100	90	100
Fertilizers	17329	100	15582	1697	16821	100	508	100
Shinee Zone								
Irrigation	1895	21.12	1833	657	1850	21.63	45	10.71
Improved Seeds	167	6.25	152	-	152	5.83	15	23.44
Pesticides	32	4.72	30	-	30	5.10	*	*
Fertilizers	848	4.89	754	100	788	4.68	60	11.81
Jijiga Zone								
Irrigation	3657	40.76	3441	*	3511	41.06	147	35.00
Improved Seeds	1717	64.28	1679	-	1679	64.40	38	59.38
Pesticides	461	67.99	389	*	419	71.26	42	46.67
Fertilizers	14302	82.53	13434	*	13925	82.78	378	74.41
Liben Zone								
Irrigation	3418	38.10	3016	846	3190	37.31	228	54.29
Improved Seeds	787	29.46	675	133	776	29.77	11	17.19
Pesticides	185	27.29	131	*	139	23.64	46	51.11
Fertilizers	2179	12.57	1395	1036	2108	12.53	70	13.78



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 Somali region. The census data reveals that of the total holder in the rural areas only 9.66% 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	19308	46	1899	4736	7216	4901	460	*
Percent,,	100	0.24	9.84	24.53	37.37	25.38	2.38	*
Crop Disease	6624	*	471	1490	2570	1885	*	-
Percent..	34.31	*	7.11	22.49	38.80	28.46	*	-
Frost or Floods	604	4	83	181	226	*	*	-
Percent,,	3.13	0.66	13.74	29.97	37.42	*	*	-
Locust	356	*	74	105	162	*	-	-
Percent,,	1.84	*	0.38	0.54	0.84	*	-	-
Shortage of Rain	86	*	*	40	17	*	-	-
Percent,,	0.45	*	*	0.21	0.09	*	-	-
Too Much Rain	249	*	45	54	*	*	-	-
Percent,,	1.29	*	18.07	21.69	*	*	-	-
Wild Animals	*	-	-	*	*	*	-	-
Percent,,	*	-	-	*	*	*	-	-
Birds	-	-	-	-	-	-	-	-
Percent,,	-	-	-	-	-	-	-	-
Hailstone	*	-	*	*	*	*	-	-
Percent,,	*	-	*	*	*	*	-	-
Pests and Insects	405	*	*	*	*	*	-	-
Percent,,	2.10	*	*	*	*	*	-	-
Weeds	10860	20	1188	2753	3924	2684	*	*
Percent,,	56.25	0.18	10.94	25.35	36.13	24.71	*	*
Others	21	*	1	6	*	*	-	-
Percent,,	0.11	*	4.76	28.57	*	*	-	-
	Meher Season							
Total	18953	25	1822	4625	7128	4846	457	*
Crop Disease	6443	3	435	1419	2529	1868	*	-
Frost or Floods	552	*	73	172	216	*	*	-
Locust	339	*	72	100	158	*	-	-
Shortage of Rain	60	-	*	33	*	*	-	-
Too Much Rain	243	*	45	52	*	*	-	-
Wild Animals	*	-	-	*	*	*	-	-
Birds	-	-	-	-	-	-	-	-
Hailstone	*	-	*	*	*	*	-	-
Pests and Insects	404	*	*	*	*	*	-	-
Weeds	10798	18	1162	2738	3907	2682	*	*
Others	*	-	-	*	*	*	-	-
	Belg Season							
Total	355	17	151	97	76	*	-	-
Crop Disease	181	9	98	39	36	-	-	-
Frost or Floods	51	2	16	*	*	*	-	-
Locust	17	*	6	*	*	-	-	-
Shortage of Rain	*	*	*	*	*	*	-	-
	6	*	2	*	-	-	-	-
Wild Animals	-	-	-	-	-	-	-	-
Birds	-	-	-	-	-	-	-	-
Hailstone	-	-	-	-	-	-	-	-
Pests and Insects	*	-	*	-	-	-	-	-
Weeds	62	*	25	26	*	-	-	-
Others	12	*	1	4	*	*	-	-

holders who practice this scheme sources of water for 78.55% percent and 5.35 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 in urban areas for Meher season have been assessed and the data are presented in Summary Table VI.12. The data in the table shows that only 12.79% of the total holders reported for practicing irrigation during Meher season. Of these holders the source of water for irrigation were 7.34%, 0.40%,0.21% and 2.89% from rivers, lake, well and tap water, respectively (See Summary Table V1.12).

However, in the same summary table, out of the total crop holders, it is reported that about 455 holders (44.29 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 50.45% have reported practicing crop rotation, while 4.64% 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 18.98% of the holders have applied both natural and chemical fertilizers. However, it was less than 1.69% 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 34203 holders which is the highest did not use chemical fertilizers due to shortage of money, about 32818 holders due to insufficient supply of fertilizers in their area, about 10247 holders due to lack of knowlge about the advantage, about 1154 holders due to the high cost of fertilizer, 32 holders reported suspecting the efficiency of the fertilizers and about 2333 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 (46.92%) reported to have used hand digging and ox/horse driven method and 30.91% of the holders that used ox/horse driven ploughing methods. Besides, holders who used hand-digging method are accounted for about 12.88%. On the other hand, only 3.52% of the total holders have used tractors 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.

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, 16.71, 12.91and 14.65 percent of holders have practiced plowing along the contour, water catchments and terracing, respectively. Moreover, only 0.21% 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 only very few agricultural holders were covered by rain shortage and economically important crop package. In response to why they have not been covered by these extension packages since the program started, holders reported the reasons as follows: 9.56% of the holders reported no knowledge about the advantage 12.69% reported shortage of money, 71.95% reported program not available, 0.72% were suspicious of its efficiency and 1.06% reported other reasons.

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 very few holders used agricultural credit services and about 0.46 percent of the holders have obtained advice on agricultural practices. This shows that the use of credit and advisory services were limited in the region.

7.7 SOURCES AND COST OF CHEMICAL FERTILIZERS.

As illustrated in Summary Table V1.13, it is estimated that a total of 364 holders (0.41%) reported "Government" as their major sources of chemical fertilizers, while about 494 holders (0.55%) private organization and about 556 holders (0.62%) traders as their major sources of chemical fertilizers. Regardless of the source, the average cost was 254.98 Birr/Quintal for DAP and 219.29 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 1468 holders have been participating in crop specific package. Accordingly, about 311, 945 and 747 holders considered wheat, maize and sorghum in crop specific extension.

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	89267	100
Source of Water for Irrigation		
Holders who Practice Irrigation	8624	9.66
River	6774	78.55
Lake	461	5.35
Pond	*	*
Other	*	*
Method to Improve Soil Fertility		
Crop Rotation	45034	50.45
Burning of Soil	4141	4.64
Reason for Not Using Chemical Fertilizer		
Do Not Know Advantages	10247	
Too Expensive	1154	
Shortage of Money	34203	
Insufficient Supply	32818	
No Credit Service	*	
Suspicious of Efficacy	32	
Other	2333	
Method of Plowing		
Hand Dug	11497	12.88
Ox/Horse Driven	27595	30.91
Tractor	3139	3.52
Hand Dug and Ox/Horse Driven	41885	46.92
Tractor and Ox/Horse Driven	3209	3.59
Method of Soil Conservation		
Terracing	13076	14.65
Water Catchments	11526	12.91
Afforestation	*	*
Plowing Along the Contour	14918	16.71
Others	190	0.21
All Holders	100671	100
Participation in Extension Package by Type		
Rain Shortage Areas Package	*	*
Rain Abundant Areas Package	*	*
Post Harvest Technology Package	-	-
Livestock Development Package	-	-
Economically Important Crops Package	*	*
Any Two or More Packages	-	-
Reason For Not Participating in Extension Packages		
Do Not Know the Advantages	9625	9.56
Shortage of Money	12778	12.69
Suspicious of Efficacy	724	0.72
Programs Not Available	72433	71.95
Not Sufficient Arable Land	*	*
Others	1071	1.06
Use of Credit or Advisory Services		
Credit Services	*	*
Advisory Services	459	0.46

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.....	3285	100.00
Holders who Practice Irrigation	420	12.79
Sources		
River.....	241	7.34
Lake.....	13	0.40
Well.....	7	0.21
Tap Water.....	95	2.89
Others.....	57	1.74
Not Stated.....	16	0.49
Those who Practice Belg from 1999/2000 to 2001/02		
Crop Holders.....	3285	100.00
Holders who Practice Belg.....	1455	44.29
Male.....	1111	33.82
Female.....	344	10.47

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.....	89267	100.00
Sources		
Government.....	364	0.41
Private Organization	494	0.55
Traders.....	556	0.62
Others.....	*	*
Do not Buy.....	85427	95.70
Not Reported.....	2402	2.69
Type of Fertilizers	**Cost in Birr/Quintal**	
DAP.....	254.98	
UREA.....	219.29	

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 558 hectares (0.71%) of the

total cropland area was under extension package programs. Out of the total cropland area under extension package programs, 39.25% was observed under maize, followed by sorghum by about 38.53% and then wheat by 11.65%. As can be observed from the data in the table, most of this extension package programs were mainly practiced in Meher season (1346 holders) and the participation of holders in these programs are is very few i.e 121 holders 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	1468	100.00	558	100.00	1346	473	121	*
Teff	-	-	-	-	-	-	-	-
Barley	*	*	*	*	*	*	-	-
Wheat	311	21.19	65	11.65	309	64	*	*
Maize	945	64.37	219	39.25	833	137	113	*
Sorguhm	747	50.89	215	38.53	738	214	*	*
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

Table 6.1 – 6.56

TABLE 6.1.1: RURAL MEHER

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL	68257	892	1.31	2615	3.83	7311	10.71	152	0.22
Grain Crops	59404	810	1.36	1695	2.85	5885	9.91	112	0.19
Cereals	57041	765	1.34	1631	2.86	5778	10.13	108	0.19
Teff	*	-	-	-	-	-	-	-	-
Barley	6512	*	*	*	*	*	*	*	*
Wheat	8354	114	1.36	*	*	815	9.76	*	*
Maize	20847	381	1.83	854	4.1	2500	11.99	*	*
Sorghum	20824	233	1.12	697	3.35	2145	10.3	*	*
Finger millet	*	-	-	-	-	*	*	-	-
Oats ('Aja')	433	*	*	-	-	*	*	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	1347	44	3.27	49	3.64	99	7.35	*	*
Horse beans	*	-	-	-	-	-	-	-	-
Field peas	86	*	*	-	-	*	*	-	-
Haricot beans	678	38	5.6	48	7.08	90	13.27	*	*
Chick peas	407	*	*	*	*	*	*	-	-
Lentils	84	*	*	-	-	-	-	-	-
Vetch	*	-	-	-	-	-	-	-	-
Soya	*	-	-	-	-	-	-	-	-
Fenugreek	57	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	493	*	*	*	*	*	*	-	-
Neug	*	-	-	-	-	-	-	-	-
Linseed	445	-	-	-	-	-	-	-	-
Ground nuts	*	*	*	-	-	*	*	-	-
Sufflower	-	-	-	-	-	-	-	-	-
Sesame	*	-	-	*	*	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Other Grains	523	-	-	*	*	*	*	-	-
Vegetables	97	*	*	43	44.33	38	39.18	-	-
Lettuce	*	-	-	-	-	*	*	-	-
Head cabbage	*	*	*	*	*	*	*	-	-
Kale	*	-	-	*	*	*	*	-	-
Tomatoes	60	*	*	29	48.33	*	*	-	-
Green peppers	13	-	-	*	*	*	*	-	-
Red peppers	*	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Others	*	-	-	-	-	*	*	-	-
Root Crops	697	*	*	88	12.63	48	6.89	*	*
Beet root	*	*	*	*	*	*	*	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onions	226	*	*	*	*	*	*	*	*
Potatoes	44	-	-	*	*	9	20.45	-	-
Garlic	269	-	-	*	*	*	*	*	*
Taro ('Godere')	-	-	-	-	-	-	-	-	-
Sweet potatoes	154	*	*	51	33.12	*	*	-	-
Others	-	-	-	-	-	-	-	-	-
Permanent Crops	8059	*	*	789	9.79	1339	16.61	*	*
Fruit Crops	423	*	*	389	91.96	112	26.48	*	*
Avocado	-	-	-	-	-	-	-	-	-
Bananas	189	*	*	183	96.83	27	14.29	-	-
Guava (Zeytuna)	*	*	*	*	*	*	*	*	*
Lemons	34	*	*	32	94.12	11	32.35	*	*
Mangoes	40	*	*	34	85	6	15	-	-
Oranges	55	*	*	54	98.18	19	34.55	*	*
Papayas	60	*	*	58	96.67	*	*	*	*
Pineapples	-	-	-	-	-	-	-	-	-
Others	*	-	-	5	*	*	*	-	-
Stimulant Crops	7624	-	-	398	5.22	1227	16.09	*	*
Chat	7596	-	-	376	4.95	1225	16.13	*	*
Coffee	*	-	-	*	*	*	*	-	-
Hops	*	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Other Permanent Crops	*	-	-	2	*	*	*	-	-
Enset	*	-	-	*	*	-	-	-	-
Sugar Cane	1	-	-	1	100	*	*	-	-
Others	*	-	-	*	*	-	-	-	-

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	76271	921	1.21	2911	3.82	8012	10.5	156	0.2
Grain Crops	67278	836	1.24	1953	2.9	6575	9.77	116	0.17
Cereals	64407	786	1.22	1883	2.92	6424	9.97	111	0.17
Teff	*	-	-	-	-	-	-	-	-
Barley	6520	*	*	*	*	*	*	*	*
Wheat	8367	114	1.36	*	*	815	9.74	*	*
Maize	27676	398	1.44	1089	3.93	3107	11.23	46	0.17
Sorghum	21339	236	1.11	713	3.34	2184	10.23	*	*
Finger millet	*	-	-	-	-	*	*	-	-
Oats ('Aja')	433	*	*	-	-	*	*	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	1848	49	2.65	52	2.81	144	7.79	*	*
Horse beans	*	-	-	-	-	-	-	-	-
Field peas	86	*	*	-	-	*	*	-	-
Haricot beans	1179	43	3.65	52	4.41	135	11.45	*	*
Chick peas	407	*	*	*	*	*	*	-	-
Lentils	84	*	*	-	-	-	-	-	-
Vetch	*	-	-	-	-	-	-	-	-
Soya	*	-	-	-	-	-	-	-	-
Fenugreek	57	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	497	*	*	*	*	*	*	-	-
Neug	*	-	-	*	*	-	-	-	-
Linseed	445	-	-	-	-	-	-	-	-
Ground nuts	*	*	*	-	-	*	*	-	-
Sufflower	-	-	-	-	-	-	-	-	-
Sesame	*	-	-	*	*	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Other Grains	526	-	-	*	*	*	*	-	-
Vegetables	105	*	*	47	44.76	39	37.14	-	-
Lettuce	*	-	-	-	-	*	*	-	-
Head cabbage	9	*	*	*	*	*	*	-	-
Kale	*	-	-	*	*	*	*	-	-
Tomatoes	67	*	*	33	49.25	*	*	-	-
Green peppers	13	-	-	*	*	*	*	-	-
Red peppers	*	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Others	*	-	-	-	-	*	*	-	-
Root Crops	830	*	*	122	14.7	58	6.99	*	*
Beet root	*	*	*	*	*	*	*	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onions	330	*	*	38	11.52	27	8.18	*	*
Potatoes	47	-	-	*	*	12	25.53	-	-
Garlic	269	-	-	*	*	*	*	*	*
Taro ('Godere')	-	-	-	-	-	-	-	-	-
Sweet potatoes	180	*	*	70	38.89	*	*	-	-
Others	-	-	-	-	-	-	-	-	-
Permanent Crops	8059	*	*	789	9.79	1339	16.61	*	*
Fruit Crops	423	*	*	389	91.96	112	26.48	*	*
Avocado	-	-	-	-	-	-	-	-	-
Bananas	189	*	*	183	96.83	27	14.29	-	-
Guava (Zeytuna)	*	*	*	*	*	*	*	*	*
Lemons	34	*	*	32	94.12	11	32.35	*	*
Mangoes	40	*	*	34	85	6	15	-	-
Oranges	55	*	*	54	98.18	19	34.55	*	*
Papayas	60	*	*	58	96.67	*	*	*	*
Pineapples	-	-	-	-	-	-	-	-	-
Others	*	-	-	5	*	*	*	-	-
Stimulant Crops	7624	-	-	398	5.22	1227	16.09	*	*
Chat	7596	-	-	376	4.95	1225	16.13	*	*
Coffee	*	-	-	*	*	*	*	-	-
Hops	*	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Other Permanent Crops	*	-	-	2	*	*	*	-	-
Enset	*	-	-	*	*	-	-	-	-
Sugar Cane	1	-	-	1	100	*	*	-	-
Others	*	-	-	*	*	-	-	-	-

TABLE 6.1.2: RURAL BELG

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL	8015	29	0.36	296	3.69	701	8.75	*	*
Grain Crops	7874	26	0.33	258	3.28	690	8.76	*	*
Cereals	7366	20	0.27	252	3.42	646	8.77	*	*
Teff	-	-	-	-	-	-	-	-	-
Barley	*	-	-	-	-	-	-	-	-
Wheat	13	-	-	-	-	-	-	-	-
Maize	6830	*	*	235	3.44	608	8.9	*	*
Sorghum	515	*	*	*	*	*	*	-	-
Finger millet	-	-	-	-	-	-	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	501	*	*	*	*	45	8.98	*	*
Horse beans	-	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
Haricot beans	501	*	*	*	*	45	8.98	*	*
Chick peas	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	*	-	-	*	*	-	-	-	-
Neug	*	-	-	*	*	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-	-
Sufflower	-	-	-	-	-	-	-	-	-
Sesame	*	-	-	*	*	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Other Grains	*	-	-	-	-	-	-	-	-
Vegetables	8	-	-	4	50	1	12.5	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage	*	-	-	-	-	-	-	-	-
Kale	*	-	-	-	-	-	-	-	-
Tomatoes	6	-	-	4	66.67	1	16.67	-	-
Green peppers	*	-	-	*	*	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Root Crops	*	*	*	34	*	*	*	-	-
Beet root	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onions	*	*	*	*	*	*	*	-	-
Potatoes	*	-	-	*	*	*	*	-	-
Garlic	-	-	-	-	-	-	-	-	-
Taro ('Godere')	-	-	-	-	-	-	-	-	-
Sweet potatoes	26	-	-	19	73.08	*	*	-	-
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	1834	79	4.31	189	10.31	309	16.85	117	6.38
Grain Crops	1750	74	4.23	160	9.14	277	15.83	112	6.4
Cereals	1684	73	4.33	119	7.07	239	14.19	88	5.23
Teff	3	-	-	-	-	2	66.67	-	-
Barley	120	*	*	4	3.33	16	13.33	1	0.83
Wheat	151	23	15.23	5	3.31	36	23.84	23	15.23
Maize	623	16	2.57	91	14.61	97	15.57	34	5.46
Sorghum	784	33	4.21	19	2.42	88	11.22	29	3.7
Finger millet	-	-	-	-	-	-	-	-	-
Oats ('Aja')	4	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	57	-	-	34	59.65	30	52.63	*	*
Horse beans	-	-	-	-	-	-	-	-	-
Field peas	3	-	-	-	-	1	33.33	-	-
Haricot beans	45	-	-	34	75.56	*	*	*	*
Chick peas	9	-	-	-	-	*	*	-	-
Lentils	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	*	1	*	*	*	*	*	*	*
Neug	-	-	-	-	-	-	-	-	-
Linseed	*	-	-	-	-	-	-	-	-
Ground nuts	1	1	100	-	-	1	100	-	-
Sufflower	-	-	-	-	-	-	-	-	-
Sesame	*	-	-	*	*	*	*	*	*
Rapeseed	-	-	-	-	-	-	-	-	-
Other Grains	-	-	-	-	-	-	-	-	-
Vegetables	10	-	-	7	70	2	20	1	10
Lettuce	1	-	-	1	100	*	*	-	-
Head cabbage	-	-	-	-	-	-	-	-	-
Kale	*	-	-	-	-	*	*	-	-
Tomatoes	8	-	-	6	75	1	12.5	*	*
Green peppers	1	-	-	*	*	*	*	*	*
Red peppers	-	-	-	-	-	-	-	-	-
Swiss chard	*	-	-	*	*	-	-	-	-
Others	*	-	-	-	-	-	-	-	-
Root Crops	17	*	*	12	70.59	*	*	*	*
Beet root	-	-	-	-	-	-	-	-	-
Carrot	*	-	-	*	*	*	*	-	-
Onions	13	*	*	*	*	*	*	-	-
Potatoes	1	-	-	*	*	*	*	*	*
Garlic	1	-	-	*	*	-	-	-	-
Taro ('Godere')	-	-	-	-	-	-	-	-	-
Sweet potatoes	2	-	-	*	*	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Permanent Crops	57	*	*	11	19.3	23	40.35	5	8.77
Fruit Crops	15	*	*	5	33.33	4	26.67	*	*
Avocado	-	-	-	-	-	-	-	-	-
Bananas	2	*	*	2	100	*	*	*	*
Guava (Zeytuna)	9	*	*	1	11.11	*	*	*	*
Lemons	1	-	-	*	*	*	*	*	*
Mangoes	2	*	*	2	100	*	*	*	*
Oranges	-	-	-	-	-	-	-	-	-
Papayas	1	-	-	*	*	*	*	*	*
Pineapples	-	-	-	-	-	-	-	-	-
Others	*	-	-	*	*	*	*	-	-
Stimulant Crops	42	-	-	5	11.9	20	47.62	2	4.76
Chat	40	-	-	3	7.5	18	45	2	5
Coffee	2	-	-	2	100	1	50	-	-
Hops	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Other Permanent Crops	1	-	-	-	-	-	-	-	-
Enset	1	-	-	-	-	-	-	-	-
Sugar Cane	-	-	-	-	-	-	-	-	-
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	%
Somali Killil	78105	1000	1.28	3101	3.97	8321	10.65	273	0.35
Shinele Zone	1335	40	3	923	69.14	231	17.3	15	1.12
Shinele	245	5	2.04	75	30.61	25	10.2	*	*
Erer	1089	34	3.12	849	77.96	206	18.92	13	1.19
Jijiga Zone	67294	671	1	962	1.43	7131	10.6	179	0.27
Jijiga	32617	364	1.12	906	2.78	4149	12.72	116	0.36
Teferi Ber	18421	*	*	*	*	785	4.26	11	0.06
Kebri Beyah	16256	153	0.94	*	*	2197	13.52	*	*
Liben Zone	9476	289	3.05	1216	12.83	960	10.13	80	0.84
Filtu	2990	204	6.82	*	*	269	9	*	*
Dolo Odo	2953	66	2.24	1194	40.43	172	5.82	72	2.44
Moyale	3533	*	*	*	*	519	14.69	*	*

TABLE 6.3.1:RURAL HOLDINGS

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	76271	921	1.21	2911	3.82	8012	10.5	156	0.2
Shinele Zone	1264	34	2.69	910	71.99	221	17.48	13	1.03
Shinele	175	-	-	*	*	15	8.57	-	-
Erer	1089	34	3.12	849	77.96	206	18.92	13	1.19
Jijiga Zone	65745	612	0.93	938	1.43	6919	10.52	120	0.18
Jijiga	32133	314	0.98	885	2.75	4030	12.54	63	0.2
Teferi Ber	17666	*	*	*	*	*	*	*	*
Kebri Beyah	15946	152	0.95	*	*	2194	13.76	*	*
Liben Zone	9261	275	2.97	1063	11.48	871	9.41	*	*
Filtu	2990	204	6.82	*	*	269	9	*	*
Dolo Odo	2739	52	1.9	1041	38.01	84	3.07	*	*
Moyale	3533	*	*	*	*	519	14.69	*	*

TABLE 6.3.2 RURAL MEHER

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	68257	892	1.31	2615	3.83	7311	10.71	152	0.22
Shinele Zone	1140	34	2.98	801	70.26	210	18.42	13	1.14
Shinele	163	-	-	*	*	15	9.2	-	-
Erer	977	34	3.48	751	76.87	196	20.06	13	1.33
Jijiga Zone	63361	612	0.97	885	1.4	6795	10.72	117	0.18
Jijiga	31486	314	1	831	2.64	3992	12.68	63	0.2
Teferi Ber	17291	*	*	*	*	*	*	*	*
Kebri Beyah	14584	152	1.04	*	*	2194	15.04	*	*
Liben Zone	3755	246	6.55	929	24.74	305	8.12	*	*
Filtu	1606	198	12.33	*	*	*	*	*	*
Dolo Odo	1245	44	3.53	922	74.06	72	5.78	*	*
Moyale	903	*	*	1	0.11	163	18.05	*	*

TABLE 6.3.3 RURAL BELG

Geographic Level	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	8015	29	0.36	296	3.69	701	8.75	*	*
Shinele Zone	124	-	-	109	87.9	11	8.87	-	-
Shinele	*	-	-	*	*	-	-	-	-
Erer	112	-	-	98	87.5	11	9.82	-	-
Jijiga Zone	2384	-	-	*	*	*	*	*	*
Jijiga	*	-	-	*	*	*	*	-	-
Teferi Ber	375	-	-	-	-	*	*	*	*
Kebri Beyah	1363	-	-	-	-	-	-	-	-
Liben Zone	5507	29	0.53	134	2.43	566	10.28	*	*
Filtu	1383	*	*	-	-	*	*	*	*
Dolo Odo	1494	*	*	119	7.97	*	*	-	-
Moyale	2630	*	*	*	*	357	13.57	*	*

TABLE 6.3.4 URBAN HOLDING

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	1834	79	4.31	189	10.31	309	16.85	117	6.38
Shinele Zone	70	5	7.14	13	18.57	10	14.29	*	*
Shinele	70	5	7.14	13	18.57	10	14.29	*	*
Jijiga Zone	1549	59	3.81	23	1.48	211	13.62	59	3.81
Jijiga	484	51	10.54	21	4.34	119	24.59	53	10.95
Teferi Ber	756	8	1.06	2	0.26	89	11.77	6	0.79
Kebri Beyah	310	*	*	*	*	*	*	-	-
Liben Zone	214	*	*	153	71.5	88	41.12	*	*
Filtu	*	-	-	-	-	-	-	*	*
Dolo Odo	214	*	*	153	71.5	88	41.12	*	*

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	%
Somali Killil	69027	910	1.32	2113	3.06	6852	9.93	228	0.33
Shinele Zone	977	30	3.07	590	60.39	150	15.35	13	1.33
Shinele	240	5	2.08	70	29.17	23	9.58	*	*
Erer	737	25	3.39	521	70.69	127	17.23	*	*
Jijiga Zone	58833	606	1.03	527	0.9	5783	9.83	139	0.24
Jijiga	27711	360	1.3	523	1.89	3081	11.12	109	0.39
Teferi Ber	17500	*	*	*	*	691	3.95	9	0.05
Kebri Beyah	13623	*	*	*	*	2011	14.76	*	*
Liben Zone	9216	274	2.97	996	10.81	920	9.98	76	0.82
Filtu	2990	204	6.82	*	*	269	9	*	*
Dolo Odo	2700	50	1.85	975	36.11	132	4.89	68	2.52
Moyale	3526	*	*	*	*	519	14.72	*	*

TABLE 6.4.1 RURAL HOLDING

Geographic Level	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	67278	836	1.24	1953	2.9	6575	9.77	116	0.17
Shinele Zone	909	25	2.75	579	63.7	141	15.51	*	*
Shinele	172	-	-	*	*	14	8.14	-	-
Erer	737	25	3.39	521	70.69	127	17.23	*	*
Jijiga Zone	57348	547	0.95	512	0.89	5593	9.75	84	0.15
Jijiga	27272	310	1.14	510	1.87	2980	10.93	*	*
Teferi Ber	16759	*	*	*	*	605	3.61	*	*
Kebri Beyah	13317	*	*	-	-	2008	15.08	*	*
Liben Zone	9021	264	2.93	862	9.56	841	9.32	*	*
Filtu	2990	204	6.82	*	*	269	9	*	*
Dolo Odo	2505	41	1.64	841	33.57	54	2.16	*	*
Moyale	3526	*	*	*	*	519	14.72	*	*

TABLE 6.4.2 RURAL MEHER

Geographic Area	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	59404	810	1.36	1695	2.85	5885	9.91	112	0.19
Shinele Zone	815	25	3.07	491	60.25	133	16.32	*	*
Shinele	160	-	-	*	*	14	8.75	-	-
Erer	655	25	3.82	444	67.79	119	18.17	*	*
Jijiga Zone	55037	547	0.99	467	0.85	5476	9.95	81	0.15
Jijiga	26698	310	1.16	464	1.74	2949	11.05	*	*
Teferi Ber	16384	*	*	*	*	*	*	*	*
Kebri Beyah	11954	*	*	-	-	2008	16.8	*	*
Liben Zone	3553	238	6.7	737	20.74	276	7.77	*	*
Filtu	1606	198	12.33	*	*	*	*	*	*
Dolo Odo	1049	*	*	730	69.59	44	4.19	*	*
Moyale	897	*	*	*	*	162	18.06	*	*

TABLE 6.4.3 RURAL BELG

Geographic Level	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	7874	26	0.33	258	3.28	690	8.76	*	*
Shinele Zone	94	-	-	88	93.62	9	9.57	-	-
Shinele	*	-	-	*	*	-	-	-	-
Erer	83	-	-	76	91.57	9	10.84	-	-
Jijiga Zone	2311	-	-	*	*	*	*	*	*
Jijiga	*	-	-	*	*	*	*	-	-
Teferi Ber	375	-	-	-	-	*	*	*	*
Kebri Beyah	1363	-	-	-	-	-	-	-	-
Liben Zone	5468	26	0.48	125	2.29	565	10.33	*	*
Filtu	1383	*	*	-	-	*	*	*	*
Dolo Odo	1455	*	*	111	7.63	*	*	-	-
Moyale	2630	*	*	*	*	357	13.57	*	*

TABLE 6.4.4 URBAN HOLDING

Geographic Level	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	1750	74	4.23	160	9.14	277	15.83	112	6.4
Shinele Zone	68	5	7.35	11	16.18	9	13.24	*	*
Shinele	68	5	7.35	11	16.18	9	13.24	*	*
Jijiga Zone	1486	59	3.97	14	0.94	190	12.79	55	3.7
Jijiga	439	50	11.39	14	3.19	101	23.01	50	11.39
Teferi Ber	741	8	1.08	*	*	86	11.61	5	0.67
Kebri Beyah	306	*	*	*	*	*	*	-	-
Liben Zone	196	*	*	134	68.37	79	40.31	*	*
Filtu	*	-	-	-	-	-	-	*	*
Dolo Odo	195	*	*	134	68.72	79	40.51	*	*

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	%
Somali Killil	66091	859	1.3	2002	3.03	6663	10.08	199	0.3
Shinele Zone	976	30	3.07	590	60.45	150	15.37	13	1.33
Shinele	240	5	2.08	70	29.17	23	9.58	*	*
Erer	736	25	3.4	520	70.65	127	17.26	*	*
Jijiga Zone	56914	597	1.05	526	0.92	5741	10.09	139	0.24
Jijiga	26589	351	1.32	523	1.97	3047	11.46	109	0.41
Teferi Ber	16817	*	*	*	*	691	4.11	9	0.05
Kebri Beyah	13508	*	*	*	*	2004	14.84	*	*
Liben Zone	8202	231	2.82	885	10.79	772	9.41	47	0.57
Filtu	2807	178	6.34	*	*	249	8.87	*	*
Dolo Odo	2489	40	1.61	865	34.75	92	3.7	42	1.69
Moyale	2906	*	*	*	*	431	14.83	*	*

TABLE 6.5.1 RURAL HOLDINGS

Geographic Level	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	64407	786	1.22	1883	2.92	6424	9.97	111	0.17
Shinele Zone	907	25	2.76	579	63.84	141	15.55	*	*
Shinele	172	-	-	*	*	14	8.14	-	-
Erer	736	25	3.4	520	70.65	127	17.26	*	*
Jijiga Zone	55451	539	0.97	512	0.92	5554	10.02	84	0.15
Jijiga	26153	302	1.15	510	1.95	2947	11.27	*	*
Teferi Ber	16087	*	*	*	*	605	3.76	*	*
Kebri Beyah	13211	*	*	-	-	2001	15.15	*	*
Liben Zone	8049	221	2.75	792	9.84	729	9.06	*	*
Filtu	2807	178	6.34	*	*	249	8.87	*	*
Dolo Odo	2336	*	*	772	33.05	*	*	*	*
Moyale	2906	*	*	*	*	431	14.83	*	*

TABLE 6.5.2 RURAL MEHER

Geographic Area	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	57041	765	1.34	1631	2.86	5778	10.13	108	0.19
Shinele Zone	813	25	3.08	491	60.39	133	16.36	*	*
Shinele	160	-	-	*	*	14	8.75	-	-
Erer	653	25	3.83	444	67.99	119	18.22	*	*
Jijiga Zone	53150	539	1.01	466	0.88	5437	10.23	81	0.15
Jijiga	25579	302	1.18	464	1.81	2916	11.4	*	*
Teferi Ber	15716	*	*	*	*	*	*	*	*
Kebri Beyah	11855	*	*	-	-	2001	16.88	*	*
Liben Zone	3078	201	6.53	674	21.9	209	6.79	*	*
Filtu	1510	172	11.39	*	*	*	*	*	*
Dolo Odo	980	*	*	667	68.06	*	*	*	*
Moyale	588	*	*	*	*	99	16.84	*	*

TABLE 6.5.2a Barley

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	6512	*	*	*	*	*	*	*	*
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	6508	*	*	*	*	*	*	*	*
Jijiga	4028	*	*	*	*	*	*	*	*
Teferi Ber	2282	*	*	-	-	*	*	-	-
Kebri Beyah	*	-	-	-	-	*	*	-	-
Liben Zone	*	*	*	-	-	-	-	-	-
Filtu	*	*	*	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.5.2b Wheat

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	8354	114	1.36	*	*	815	9.76	*	*
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	8354	114	1.36	*	*	815	9.76	*	*
Jijiga	5615	*	*	*	*	668	11.9	*	*
Teferi Ber	2033	*	*	-	-	*	*	-	-
Kebri Beyah	706	*	*	-	-	*	*	-	-
Liben Zone	*	*	*	-	-	-	-	-	-
Filtu	*	*	*	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.5.2c Maize

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	20847	381	1.83	854	4.1	2500	11.99	*	*
Shinele Zone	62	*	*	48	77.42	10	16.13	*	*
Shinele	*	-	-	*	*	*	*	-	-
Erer	56	*	*	48	85.71	9	16.07	*	*
Jijiga Zone	18043	185	1.03	*	*	2315	12.83	*	*
Jijiga	6247	94	1.5	*	*	958	15.34	*	*
Teferi Ber	4172	*	*	-	-	*	*	-	-
Kebri Beyah	7624	63	0.83	-	-	1177	15.44	*	*
Liben Zone	2742	195	7.11	627	22.87	175	6.38	*	*
Filtu	1351	166	12.29	*	*	*	*	*	*
Dolo Odo	820	*	*	622	75.85	*	*	*	*
Moyale	570	*	*	*	*	99	17.37	*	*

TABLE 6.5.2d Sorghum

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	20824	233	1.12	697	3.35	2145	10.3	*	*
Shinele Zone	751	25	3.33	443	58.99	123	16.38	*	*
Shinele	154	-	-	*	*	14	9.09	-	-
Erer	597	25	4.19	396	66.33	109	18.26	*	*
Jijiga Zone	19741	206	1.04	*	*	1988	10.07	*	*
Jijiga	9276	*	*	*	*	1016	10.95	*	*
Teferi Ber	7139	*	*	*	*	*	*	*	*
Kebri Beyah	3326	*	*	-	-	699	21.02	*	*
Liben Zone	332	*	*	46	13.86	*	*	*	*
Filtu	155	*	*	*	*	-	-	-	-
Dolo Odo	160	*	*	45	28.13	*	*	*	*
Moyale	*	-	-	-	-	*	*	-	-

TABLE 6.5.2e Oats

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	433	*	*	-	-	*	*	-	-
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	433	*	*	-	-	*	*	-	-
Jijiga	363	*	*	-	-	*	*	-	-
Teferi Ber	69	-	-	-	-	*	*	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.5.3 RURAL BELG

Geographic Level	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	7366	20	0.27	252	3.42	646	8.77	*	*
Shinele Zone	94	-	-	88	93.62	9	9.57	-	-
Shinele	*	-	-	*	*	-	-	-	-
Erer	83	-	-	76	91.57	9	10.84	-	-
Jijiga Zone	2301	-	-	*	*	*	*	*	*
Jijiga	*	-	-	*	*	*	*	-	-
Teferi Ber	372	-	-	-	-	*	*	*	*
Kebri Beyah	1355	-	-	-	-	-	-	-	-
Liben Zone	4971	20	0.4	118	2.37	520	10.46	*	*
Filtu	1297	*	*	-	-	*	*	*	*
Dolo Odo	1356	*	*	105	7.74	*	*	-	-
Moyale	2318	*	*	*	*	331	14.28	-	-

TABLE 6.5.4 URBAN HOLDINGS

Geographic Level	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	1684	73	4.33	119	7.07	239	14.19	88	5.23
Shinele Zone	68	5	7.35	11	16.18	9	13.24	*	*
Shinele	68	5	7.35	11	16.18	9	13.24	*	*
Jijiga Zone	1463	58	3.96	14	0.96	187	12.78	55	3.76
Jijiga	437	49	11.21	14	3.2	99	22.65	50	11.44
Teferi Ber	729	8	1.1	*	*	85	11.66	5	0.69
Kebri Beyah	297	*	*	*	*	*	*	-	-
Liben Zone	153	*	*	93	60.78	43	28.1	31	20.26
Filtu	*	-	-	-	-	-	-	*	*
Dolo Odo	153	*	*	93	60.78	43	28.1	30	19.61

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	%
Somali Killil	1905	49	2.57	87	4.57	174	9.13	*	*
Shinele Zone	*	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	-	-	-	-	-	-
Jijiga Zone	919	*	*	*	*	34	3.7	-	-
Jijiga	635	*	*	-	-	26	4.09	-	-
Teferi Ber	170	-	-	*	*	*	*	-	-
Kebri Beyah	114	-	-	-	-	*	*	-	-
Liben Zone	986	42	4.26	86	8.72	141	14.3	*	*
Filtu	182	26	14.29	-	-	*	*	-	-
Dolo Odo	184	*	*	85	46.2	33	17.93	*	*
Moyale	620	*	*	*	*	88	14.19	*	*

TABLE 6.6.1 RURAL HOLDINGS

Geographic Level	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	1848	49	2.65	52	2.81	144	7.79	*	*
Shinele Zone	*	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	-	-	-	-	-	-
Jijiga Zone	897	*	*	*	*	32	3.57	-	-
Jijiga	634	*	*	-	-	*	*	-	-
Teferi Ber	158	-	-	*	*	-	-	-	-
Kebri Beyah	105	-	-	-	-	*	*	-	-
Liben Zone	950	42	4.42	52	5.47	112	11.79	*	*
Filtu	182	26	14.29	-	-	*	*	-	-
Dolo Odo	148	*	*	51	34.46	*	*	*	*
Moyale	620	*	*	*	*	88	14.19	*	*

TABLE 6.6.2 RURAL MEHER

Geographic Level	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	1347	44	3.27	49	3.64	99	7.35	*	*
Shinele Zone	*	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	-	-	-	-	-	-
Jijiga Zone	890	*	*	*	*	32	3.6	-	-
Jijiga	634	*	*	-	-	*	*	-	-
Teferi Ber	158	-	-	*	*	-	-	-	-
Kebri Beyah	98	-	-	-	-	*	*	-	-
Liben Zone	457	37	8.1	48	10.5	67	14.66	*	*
Filtu	96	26	27.08	-	-	*	*	-	-
Dolo Odo	52	*	*	48	92.31	*	*	*	*
Moyale	309	*	*	-	-	63	20.39	*	*

TABLE 6.6.2a Field Peas

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	86	*	*	-	-	*	*	-	-
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	*	-	-	-	-	*	*	-	-
Jijiga	*	-	-	-	-	-	-	-	-
Teferi Ber	13	-	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	*	*	-	-
Liben Zone	2	*	*	-	-	*	*	-	-
Filtu	*	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	2	*	*	-	-	*	*	-	-

TABLE 6.6.2b Haricot beans

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	678	38	5.6	48	7.08	90	13.27	*	*
Shinele Zone	*	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	-	-	-	-	-	-
Jijiga Zone	234	*	*	-	-	*	*	-	-
Jijiga	134	*	*	-	-	*	*	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	92	-	-	-	-	*	*	-	-
Liben Zone	445	32	7.19	48	10.79	67	15.06	*	*
Filtu	87	21	24.14	-	-	*	*	-	-
Dolo Odo	52	*	*	48	92.31	*	*	*	*
Moyale	306	*	*	-	-	62	20.26	*	*

TABLE 6.6.2c Chick peas

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	407	*	*	*	*	*	*	-	-
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	402	-	-	*	*	*	*	-	-
Jijiga	270	-	-	-	-	*	*	-	-
Teferi Ber	129	-	-	*	*	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	*	*	*	-	-	-	-	-	-
Filtu	*	*	*	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.6.2d Lintiles

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	84	*	*	-	-	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	80	-	-	-	-	-	-	-	-
Jijiga	80	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	*	*	-	-	-	-	-	-
Filtu	*	*	*	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.6.2e Fenugreek

Geographic Level	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	57	-	-	-	-	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	57	-	-	-	-	-	-	-	-
Jijiga	54	-	-	-	-	-	-	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.6.3 RURAL BELG

Geographic Area	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	501	*	*	*	*	45	8.98	*	*
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	*	-	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	493	*	*	*	*	45	9.13	*	*
Filtu	86	*	*	-	-	*	*	-	-
Dolo Odo	96	*	*	*	*	-	-	-	-
Moyale	311	*	*	*	*	*	*	*	*

TABLE 6.6.4 URBAN HOLDINGS

Geographic Level	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	57	-	-	34	59.65	30	52.63	*	*
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Jijiga Zone	21	-	-	-	-	2	9.52	-	-
Jijiga	1	-	-	-	-	1	100	-	-
Teferi Ber	12	-	-	-	-	*	*	-	-
Kebri Beyah	*	-	-	-	-	*	*	-	-
Liben Zone	36	-	-	34	94.44	*	*	*	*
Filtu	*	-	-	-	-	-	-	-	-
Dolo Odo	36	-	-	34	94.44	*	*	*	*

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	%
Somali Killil	505	*	*	*	*	*	*	*	*
Shinele Zone	*	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	-	-	-	-	-	-
Jijiga Zone	480	*	*	-	-	*	*	-	-
Jijiga	467	*	*	-	-	*	*	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	*	*	*	*
Filtu	*	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	*	*
Moyale	*	-	-	-	-	*	*	-	-

TABLE 6.7.1 RURAL HOLDINGS

Geographic Level	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	497	*	*	*	*	*	*	-	-
Shinele Zone	*	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	-	-	-	-	-	-
Jijiga Zone	478	*	*	-	-	*	*	-	-
Jijiga	465	*	*	-	-	*	*	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	*	*	-	-
Filtu	*	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	-	-	-	-
Moyale	*	-	-	-	-	*	*	-	-

TABLE 6.7.2 RURAL MEHER

Geographic Area	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	493	*	*	*	*	*	*	-	-
Shinele Zone	*	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	-	-	-	-	-	-
Jijiga Zone	478	*	*	-	-	*	*	-	-
Jijiga	465	*	*	-	-	*	*	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	*	*	-	-
Filtu	*	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	-	-	-	-
Moyale	*	-	-	-	-	*	*	-	-

TABLE 6.7.2a Linseed

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	445	-	-	-	-	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	445	-	-	-	-	-	-	-	-
Jijiga	432	-	-	-	-	-	-	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.7.3 URBAN HOLDINGS

Geographic Level	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	*	1	*	*	*	*	*	*	*
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Jijiga Zone	2	1	50	-	-	1	50	-	-
Jijiga	2	1	50	-	-	1	50	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	*	*	*	*
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	*	*

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	%
Somali Killil	526	-	-	*	*	*	*	-	-
Shinele Zone	*	-	-	*	*	*	*	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	*	*	*	*	-	-
Jijiga Zone	522	-	-	-	-	-	-	-	-
Jijiga	*	-	-	-	-	-	-	-	-
Teferi Ber	501	-	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.8.1 RURAL HOLDINGS

Geographic Level	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	526	-	-	*	*	*	*	-	-
Shinele Zone	*	-	-	*	*	*	*	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	*	*	*	*	-	-
Jijiga Zone	522	-	-	-	-	-	-	-	-
Jijiga	*	-	-	-	-	-	-	-	-
Teferi Ber	501	-	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.8.2 RURAL MEHER

Geographic Area	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	523	-	-	*	*	*	*	-	-
Shinele Zone	*	-	-	*	*	*	*	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	*	*	*	*	-	-
Jijiga Zone	519	-	-	-	-	-	-	-	-
Jijiga	*	-	-	-	-	-	-	-	-
Teferi Ber	498	-	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.9 AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	115	*	*	54	46.96	41	35.65	1	0.87
Shinele Zone	18	*	*	15	83.33	6	33.33	-	-
Shinele	*	-	-	*	*	*	*	-	-
Erer	18	*	*	15	83.33	6	33.33	-	-
Jijiga Zone	64	*	*	*	*	*	*	*	*
Jijiga	29	*	*	6	20.69	*	*	-	-
Teferi Ber	3	-	-	*	*	*	*	*	*
Kebri Beyah	*	*	*	*	*	*	*	-	-
Liben Zone	32	-	-	26	81.25	*	*	*	*
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	26	*	*	*	*	*
Moyale	*	-	-	*	*	-	-	-	-

TABLE 6.9.1 RURAL HOLDINGS

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	105	*	*	47	44.76	39	37.14	-	-
Shinele Zone	18	*	*	15	83.33	6	33.33	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	18	*	*	15	83.33	6	33.33	-	-
Jijiga Zone	60	*	*	*	*	*	*	-	-
Jijiga	28	*	*	*	*	*	*	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	*	*	*	-	-
Liben Zone	*	-	-	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	-	-
Moyale	*	-	-	*	*	-	-	-	-

TABLE 6.9.2 RURAL MEHER

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	97	*	*	43	44.33	38	39.18	-	-
Shinele Zone	13	*	*	12	92.31	5	38.46	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	13	*	*	12	92.31	5	38.46	-	-
Jijiga Zone	60	*	*	*	*	*	*	-	-
Jijiga	28	*	*	*	*	*	*	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	*	*	*	-	-
Liben Zone	*	-	-	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	-	-
Moyale	*	-	-	*	*	-	-	-	-

TABLE 6.9.2a Tomatoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	60	*	*	29	48.33	*	*	-	-
Shinele Zone	9	*	*	9 100.00	4	44.44	-	-	
Shinele	-	-	-	-	-	-	-	-	-
Erer	9	*	*	9 100.00	4	44.44	-	-	
Jijiga Zone	*	*	*	*	*	*	*	-	-
Jijiga	*	-	-	*	*	*	*	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	-	-	*	*	-	-
Liben Zone	*	-	-	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	-	-
Moyale	*	-	-	*	*	-	-	-	-

TABLE 6.9.2b Green peppers

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	13	-	-	*	*	*	*	-	-
Shinele Zone	4	-	-	3	75	*	*	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	4	-	-	3	75	*	*	-	-
Jijiga Zone	*	-	-	*	*	*	*	-	-
Jijiga	*	-	-	-	-	*	*	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	*	*	*	*	-	-
Liben Zone	*	-	-	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.9.3 RURAL BELG

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	8	-	-	4	50	1	12.5	-	-
Shinele Zone	5	-	-	3	60	1	20	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	5	-	-	3	60	1	20	-	-
Jijiga Zone	-	-	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	-	-	-	-
Moyale	*	-	-	-	-	-	-	-	-

TABLE 6.9.4 URBAN HOLDINGS

Geographic Level	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	10	-	-	7	70	2	20	1	10
Shinele Zone	*	-	-	*	*	*	*	-	-
Shinele	*	-	-	*	*	*	*	-	-
Jijiga Zone	4	-	-	2	50	1	25	*	*
Jijiga	1	-	-	1	100	*	*	-	-
Teferi Ber	1	-	-	*	*	*	*	*	*
Kebri Beyah	*	-	-	-	-	*	*	-	-
Liben Zone	5	-	-	5	100	*	*	*	*
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	5	-	-	5	100	*	*	*	*

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	%
Somali Killil	847	*	*	134	15.82	65	7.67	*	*
Shinele Zone	45	*	*	36	80	4	8.89	-	-
Shinele	*	-	-	*	*	*	*	-	-
Erer	44	*	*	35	79.55	3	6.82	-	-
Jijiga Zone	727	*	*	50	6.88	43	5.91	*	*
Jijiga	705	*	*	49	6.95	43	6.1	*	*
Teferi Ber	2	-	-	1	50	*	*	*	*
Kebri Beyah	*	*	*	-	-	-	-	-	-
Liben Zone	*	*	*	48	*	*	*	*	*
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	48	*	*	*	*	*
Moyale	*	-	-	-	-	-	-	-	-

TABLE 6.10.1 RURAL HOLDINGS

Geographic Level	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	830	*	*	122	14.7	58	6.99	*	*
Shinele Zone	45	*	*	36	80	4	8.89	-	-
Shinele	*	-	-	*	*	*	*	-	-
Erer	44	*	*	35	79.55	3	6.82	-	-
Jijiga Zone	721	*	*	49	6.8	43	5.96	*	*
Jijiga	701	*	*	49	6.99	43	6.13	*	*
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	-	-	-	-	-	-
Liben Zone	*	*	*	37	*	*	*	*	*
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	37	*	*	*	*	*
Moyale	*	-	-	-	-	-	-	-	-

TABLE 6.10.2 RURAL MEHER

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	697	*	*	88	12.63	48	6.89	*	*
Shinele Zone	20	*	*	17	85	3	15	-	-
Shinele	*	-	-	*	*	*	*	-	-
Erer	19	*	*	17	89.47	2	10.53	-	-
Jijiga Zone	648	*	*	*	*	36	5.56	*	*
Jijiga	628	*	*	*	*	36	5.73	*	*
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	-	-	-	-	-	-
Liben Zone	*	*	*	*	*	*	*	*	*
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	*	*	*
Moyale	*	-	-	-	-	-	-	-	-

TABLE 6.10.2a Onion

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	226	*	*	*	*	*	*	*	*
Shinele Zone	*	-	-	*	*	*	*	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	*	*	*	*	-	-
Jijiga Zone	199	*	*	-	-	*	*	-	-
Jijiga	185	-	-	-	-	*	*	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	-	-	-	-	-	-
Liben Zone	*	*	*	*	*	*	*	*	*
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	*	*	*
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.10.2b Potatoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	44	-	-	*	*	9	20.45	-	-
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-
Jijiga Zone	44	-	-	*	*	9	20.45	-	-
Jijiga	41	-	-	*	*	9	21.95	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.10.2c Garlic

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	269	-	-	*	*	*	*	*	*
Shinele Zone	*	-	-	*	*	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	*	-	-	*	*	-	-	-	-
Jijiga Zone	269	-	-	*	*	*	*	*	*
Jijiga	268	-	-	*	*	*	*	*	*
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.10.2d Sweet Potatoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	154	*	*	51	33.12	*	*	-	-
Shinele Zone	19	*	*	16	84.21	2	10.53	-	-
Shinele	*	-	-	*	*	*	*	-	-
Erer	18	*	*	16	88.89	2	11.11	-	-
Jijiga Zone	*	-	-	*	*	*	*	-	-
Jijiga	*	-	-	*	*	*	*	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	-	-	-	-
Moyale	*	-	-	-	-	-	-	-	-

TABLE 6.10.3 RURAL BELG

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	*	*	*	34	*	*	*	-	-
Shinele Zone	25	-	-	18	72	*	*	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	25	-	-	18	72	*	*	-	-
Jijiga Zone	*	-	-	*	*	*	*	-	-
Jijiga	*	-	-	*	*	*	*	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	*	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.10.4 URBAN HOLDINGS

Geographic Level	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	17	*	*	12	70.59	*	*	*	*
Shinele Zone	*	-	-	*	*	*	*	-	-
Shinele	*	-	-	*	*	*	*	-	-
Jijiga Zone	6	-	-	1	16.67	*	*	*	*
Jijiga	3	-	-	*	*	*	*	-	-
Teferi Ber	1	-	-	1	100	*	*	*	*
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	*	-	-

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	%
Somali Killil	8116	*	*	800	9.86	1362	16.78	*	*
Shinele Zone	294	9	3.06	281	95.58	71	24.15	*	*
Shinele	*	-	-	*	*	*	*	-	-
Erer	290	9	3.1	278	95.86	70	24.14	*	*
Jijiga Zone	7670	*	*	373	4.86	1281	16.7	*	*
Jijiga	4172	*	*	327	7.84	1018	24.4	*	*
Teferi Ber	917	-	-	*	*	*	*	*	*
Kebri Beyah	2581	*	*	*	*	170	6.59	*	*
Liben Zone	*	*	*	*	*	*	*	*	*
Filtu	*	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	*	*	*
Moyale	3	*	*	1	33.33	*	*	*	*

TABLE 6.11.1 RURAL MEHER

Geographic Area	Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	8059	*	*	789	9.79	1339	16.61	*	*
Shinele Zone	293	9	3.07	280	95.56	70	23.89	*	*
Shinele	*	-	-	*	*	*	*	-	-
Erer	290	9	3.1	278	95.86	70	24.14	*	*
Jijiga Zone	7617	*	*	366	4.81	1261	16.56	*	*
Jijiga	4132	-	-	321	7.77	1001	24.23	*	*
Teferi Ber	904	-	-	*	*	*	*	*	*
Kebri Beyah	2580	*	*	*	*	170	6.59	*	*
Liben Zone	*	*	*	*	*	*	*	*	*
Filtu	*	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	*	-	-
Moyale	3	*	*	1	33.33	*	*	*	*

TABLE 6.11.2 URBAN HOLDINGS

Geographic Level	Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	57	*	*	11	19.3	23	40.35	5	8.77
Shinele Zone	*	-	-	*	*	*	*	-	-
Shinele	*	-	-	*	*	*	*	-	-
Jijiga Zone	53	*	*	7	13.21	20	37.74	3	5.66
Jijiga	39	*	*	6	15.38	17	43.59	2	5.13
Teferi Ber	13	-	-	*	*	3	23.08	*	*
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	3	*	*	3	100	*	*	*	*
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	3	*	*	3	100	*	*	*	*

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	%
Somali Killil	438	*	*	394	89.95	116	26.48	4	0.91
Shinele Zone	208	9	4.33	199	95.67	56	26.92	*	*
Shinele	*	-	-	*	*	*	*	-	-
Erer	204	9	4.41	196	96.08	55	26.96	*	*
Jijiga Zone	*	*	*	*	*	*	*	*	*
Jijiga	31	*	*	*	*	*	*	-	-
Teferi Ber	*	-	-	*	*	*	*	*	*
Kebri Beyah	*	*	*	*	*	*	*	-	-
Liben Zone	*	*	*	*	*	*	*	*	*
Filtu	*	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	*	*	*
Moyale	3	*	*	1	33.33	*	*	*	*

TABLE 6.12.1 RURAL MEHER

Geographic Area	Fruit Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	423	*	*	389	91.96	112	26.48	*	*
Shinele Zone	206	9	4.37	198	96.12	55	26.7	*	*
Shinele	*	-	-	*	*	*	*	-	-
Erer	204	9	4.41	196	96.08	55	26.96	*	*
Jijiga Zone	*	*	*	*	*	*	*	-	-
Jijiga	22	-	-	*	*	*	*	-	-
Teferi Ber	*	-	-	*	*	-	-	-	-
Kebri Beyah	*	*	*	*	*	*	*	-	-
Liben Zone	*	*	*	*	*	*	*	*	*
Filtu	*	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	*	-	-
Moyale	3	*	*	1	33.33	*	*	*	*

TABLE 6.12.1a Banana

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	189	*	*	183	96.83	27	14.29	-	-
Shinele Zone	96	*	*	92	95.83	22	22.92	-	-
Shinele	*	-	-	*	*	*	*	-	-
Erer	95	*	*	92	96.84	21	22.11	-	-
Jijiga Zone	*	-	-	*	*	-	-	-	-
Jijiga	*	-	-	*	*	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	-	-
Moyale	*	-	-	*	*	*	*	-	-

TABLE 6.12.1b Guava(Zeytuna)

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	*	*	*	*	*	*	*	*	*
Shinele Zone	2	-	-	2	100	1	50	*	*
Shinele	*	-	-	*	*	*	*	-	-
Erer	2	-	-	2	100	*	*	*	*
Jijiga Zone	*	*	*	*	*	*	*	-	-
Jijiga	*	-	-	*	*	*	*	-	-
Teferi Ber	*	-	-	*	*	-	-	-	-
Kebri Beyah	*	*	*	*	*	*	*	-	-
Liben Zone	4	*	*	2	50	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	2	*	*	2	100	-	-	-	-
Moyale	*	*	*	*	*	*	*	-	-

TABLE 6.12.1c Lemon

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	34	*	*	32	94.12	11	32.35	*	*
Shinele Zone	32	-	-	30	93.75	10	31.25	*	*
Shinele	-	-	-	-	-	-	-	-	-
Erer	32	-	-	30	93.75	10	31.25	*	*
Jijiga Zone	*	-	-	*	*	-	-	-	-
Jijiga	*	-	-	*	*	-	-	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	*	-	-
Moyale	*	-	-	-	-	-	-	-	-

TABLE 6.12.1d Mango

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	40	*	*	34	85	6	15	-	-
Shinele Zone	18	-	-	17	94.44	*	*	-	-
Shinele	*	-	-	*	*	-	-	-	-
Erer	18	-	-	17	94.44	*	*	-	-
Jijiga Zone	*	-	-	*	*	*	*	-	-
Jijiga	*	-	-	*	*	*	*	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	20	*	*	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	20	*	*	*	*	*	*	-	-
Moyale	*	-	-	*	*	*	*	-	-

TABLE 6.12.1e Orange

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	55	*	*	54	98.18	19	34.55	*	*
Shinele Zone	48	2	4.17	47	97.92	14	29.17	*	*
Shinele	*	-	-	*	*	*	*	-	-
Erer	47	2	4.26	46	97.87	14	29.79	*	*
Jijiga Zone	*	*	*	*	*	*	*	-	-
Jijiga	-	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	*	*	*	-	-
Liben Zone	*	-	-	*	*	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.12.1f Papaya

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	60	*	*	58	96.67	*	*	*	*
Shinele Zone	5	-	-	5	100	3	60	-	-
Shinele	*	-	-	*	*	-	-	-	-
Erer	5	-	-	5	100	3	60	-	-
Jijiga Zone	*	*	*	*	*	*	*	-	-
Jijiga	*	-	-	*	*	*	*	-	-
Teferi Ber	*	-	-	*	*	-	-	-	-
Kebri Beyah	*	*	*	*	*	*	*	-	-
Liben Zone	*	*	*	*	*	*	*	*	*
Filtu	*	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	*	-	-
Moyale	1	*	*	*	*	*	*	*	*

TABLE 6.12.1i Other Fruits

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	*	-	-	5	*	*	*	-	-
Shinele Zone	5	-	-	5	100	2	40	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	5	-	-	5	100	2	40	-	-
Jijiga Zone	*	-	-	-	-	*	*	-	-
Jijiga	*	-	-	-	-	*	*	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.12.2 URBAN HOLDINGS

Geographic Level	Fruit Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	15	*	*	5	33.33	4	26.67	*	*
Shinele Zone	*	-	-	*	*	*	*	-	-
Shinele	*	-	-	*	*	*	*	-	-
Jijiga Zone	10	*	*	1	10	*	*	*	*
Jijiga	9	*	*	1	11.11	*	*	-	-
Teferi Ber	1	-	-	*	*	*	*	*	*
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	3	*	*	3	100	*	*	*	*
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	3	*	*	3	100	*	*	*	*

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	%
Somali Killil	7665	-	-	403	5.26	1246	16.26	*	*
Shinele Zone	85	-	-	80	94.12	15	17.65	-	-
Shinele	*	-	-	*	*	-	-	-	-
Erer	84	-	-	80	95.24	15	17.86	-	-
Jijiga Zone	7580	-	-	323	4.26	1231	16.24	*	*
Jijiga	4131	-	-	323	7.82	1010	24.45	*	*
Teferi Ber	910	-	-	-	-	*	*	*	*
Kebri Beyah	2539	-	-	-	-	*	*	*	*
Liben Zone	*	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	*	-	-	-	-	-	-	-	-

TABLE 6.13.1: RURAL MEHER

Geographic Area	Stimulant Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	7624	-	-	398	5.22	1227	16.09	*	*
Shinele Zone	85	-	-	80	94.12	15	17.65	-	-
Shinele	*	-	-	*	*	-	-	-	-
Erer	84	-	-	80	95.24	15	17.86	-	-
Jijiga Zone	7539	-	-	318	4.22	1212	16.08	*	*
Jijiga	4102	-	-	318	7.75	993	24.21	*	*
Teferi Ber	898	-	-	-	-	*	*	*	*
Kebri Beyah	2539	-	-	-	-	*	*	*	*
Liben Zone	*	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	*	-	-	-	-	-	-	-	-

TABLE 6.13.1a Chat

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	7596	-	-	376	4.95	1225	16.13	*	*
Shinele Zone	81	-	-	76	93.83	13	16.05	-	-
Shinele	*	-	-	*	*	-	-	-	-
Erer	80	-	-	76	95	13	16.25	-	-
Jijiga Zone	7516	-	-	299	3.98	1212	16.13	*	*
Jijiga	4080	-	-	299	7.33	993	24.34	*	*
Teferi Ber	897	-	-	-	-	*	*	*	*
Kebri Beyah	2539	-	-	-	-	*	*	*	*
Liben Zone	*	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	*	-	-	-	-	-	-	-	-

TABLE 6.13.1b Coffee

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	*	-	-	*	*	*	*	-	-
Shinele Zone	4	-	-	4	100	*	*	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	4	-	-	4	100	*	*	-	-
Jijiga Zone	*	-	-	*	*	-	-	-	-
Jijiga	*	-	-	*	*	-	-	-	-
Teferi Ber	*	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-

TABLE 6.13.2 URBAN HOLDINGS

Geographic Level	Stimulant Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	42	-	-	5	11.9	20	47.62	2	4.76
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Jijiga Zone	42	-	-	5	11.9	20	47.62	2	4.76
Jijiga	29	-	-	5	17.24	17	58.62	2	6.9
Teferi Ber	12	-	-	-	-	3	25	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-

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	%
Somali Killil	*	-	-	2	*	*	*	-	-
Shinele Zone	2	-	-	2	100	*	*	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	2	-	-	2	100	*	*	-	-
Jijiga Zone	*	-	-	*	*	-	-	-	-
Jijiga	*	-	-	-	-	-	-	-	-
Teferi Ber	*	-	-	*	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	-	-
Moyale	*	-	-	-	-	-	-	-	-

TABLE 6.14.1 RURAL MEHER

Geographic Area	Other permanent crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	*	-	-	2	*	*	*	-	-
Shinele Zone	2	-	-	2	100	*	*	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	2	-	-	2	100	*	*	-	-
Jijiga Zone	*	-	-	*	*	-	-	-	-
Jijiga	*	-	-	-	-	-	-	-	-
Teferi Ber	*	-	-	*	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	-	-
Moyale	*	-	-	-	-	-	-	-	-

TABLE 6.14.1a Sugar cane

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	1	-	-	1	100	*	*	-	-
Shinele Zone	1	-	-	1	100	*	*	-	-
Shinele	-	-	-	-	-	-	-	-	-
Erer	1	-	-	1	100	*	*	-	-
Jijiga Zone	-	-	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	*	-	-	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	*	*	*	-	-
Moyale	*	-	-	-	-	-	-	-	-

TABLE 6.14.2 URBAN HOLDINGS

Geographic Level	Other permanent crops									
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Somali Killil	1	-	-	-	-	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-
Jijiga Zone	1	-	-	-	-	-	-	-	-
Jijiga	1	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-	-

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	16821	8012	15826	7422	422	134	33
Grain Crops	14665	6575	13875	6124	317	78	29
Cereals	14510	6424	13720	5981	317	77	29
Teff	-	-	-	-	-	-	-
Barley	1638	*	1568	*	*	*	*
Wheat	3047	815	2345	519	140	*	*
Maize	10750	3107	10390	3049	*	*	*
Sorghum	6278	2184	5916	2102	*	*	*
Finger millet	*	*	*	*	-	-	-
Oats ('Aja')	300	*	300	*	-	-	-
Rice	-	-	-	-	-	-	-
Pulses	1347	144	1296	136	*	*	-
Horse beans	-	-	-	-	-	-	-
Field peas	*	*	*	*	*	*	-
Haricot beans	1263	135	1231	128	-	-	-
Chick peas	*	*	*	*	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oil Seeds	*	*	*	*	-	-	-
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Ground nuts	*	*	*	*	-	-	-
Sufflower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Other Grains	*	*	*	*	-	-	-
Vegetables	650	39	537	36	*	*	*
Lettuce	*	*	*	*	-	-	-
Head cabbage	*	*	*	*	-	-	-
Kale	*	*	*	*	-	-	-
Tomatoes	396	*	313	*	*	*	*
Green peppers	120	*	120	*	-	-	-
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Others	*	*	*	*	-	-	-
Root Crops	1412	58	1202	50	*	*	*
Beet root	*	*	*	*	-	-	-
Carrot	-	-	-	-	-	-	-
Onions	533	27	489	26	-	-	-
Potatoes	578	12	475	9	*	*	*
Garlic	*	*	*	*	-	-	-
Taro ('Godere')	-	-	-	-	-	-	-
Sweet potatoes	*	*	85	5	*	*	*
Others	-	-	-	-	-	-	-
Permanent Crops	7740	1339	7281	1212	180	*	*
Fruit Crops	1049	112	977	69	*	*	-
Avocado	-	-	-	-	-	-	-
Bananas	257	27	257	27	-	-	-
Guava (Zeytuna)	164	*	139	*	*	*	-
Lemons	223	11	223	11	-	-	-
Mangoes	291	6	291	6	-	-	-
Oranges	260	19	234	14	*	*	-
Papayas	348	*	322	3	*	*	-
Pineapples	-	-	-	-	-	-	-
Others	144	*	98	2	*	*	-
Stimulant Crops	7051	1227	6617	1143	155	23	*
Chat	7014	1225	6580	1142	155	23	*
Coffee	*	*	*	*	-	-	-
Hops	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-
Other Permanent Crops	*	*	*	*	-	-	-
Enset	-	-	-	-	-	-	-
Sugar Cane	*	*	*	*	-	-	-
Others	-	-	-	-	-	-	-

TABLE 6.15 CONTD.

CROP	Application of Fertilizers by Type and Quantity					
	Chemical – UREA			Chemical - DAP & UREA		
	Holders	Hectares	Quintals	Holders	Hectares	Quintals
TOTAL	426	167	*	717	289	350
Grain Crops	310	121	*	628	253	344
Cereals	310	121	*	628	245	344
Teff	-	-	-	-	-	-
Barley	-	-	-	*	*	-
Wheat	149	*	*	414	182	303
Maize	*	*	*	*	*	*
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	143	*	*	228	33	*
Fruit Crops	*	*	-	-	-	-
Avocado	-	-	-	-	-	-
Bananas	-	-	-	-	-	-
Guava (Zeytuna)	*	*	-	-	-	-
Lemons	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-
Oranges	*	*	-	-	-	-
Papayas	*	*	-	-	-	-
Pineapples	-	-	-	-	-	-
Others	-	-	-	-	-	-
Stimulant Crops	*	*	*	228	33	*
Chat	*	*	*	228	33	*
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	410	164	*	706	288	350	410
Grain Crops	306	118	*	628	253	344	306
Cereals	306	118	*	628	245	344	306
Teff	-	-	-	-	-	-	-
Barley	-	-	-	*	*	-	-
Wheat	149	*	*	414	182	303	149
Maize	*	*	*	*	*	*	*
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	143	*	*	228	33	*	143
Fruit Crops	*	*	-	-	-	-	*
Avocado	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-
Guava (Zeytuna)	*	*	-	-	-	-	*
Lemons	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-
Oranges	*	*	-	-	-	-	*
Papayas	*	*	-	-	-	-	*
Pineapples	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-
Stimulant Crops	*	*	*	228	33	*	*
Chat	*	*	*	228	33	*	*
Coffee	-	-	-	-	-	-	-
Hops	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-
Other Permanent Crops	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-
Sugar Cane	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-

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	754	210	721	205	*	*
Grain Crops	568	133	536	127	*	*
Cereals	568	133	536	127	*	*
Teff	-	-	-	-	-	-
Barley	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Maize	237	10	225	9	-	-
Sorghum	527	123	507	118	*	*
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	121	5	121	5	-	-
Lettuce	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-
Kale	*	*	*	*	-	-
Tomatoes	121	4	121	4	-	-
Green peppers	*	*	*	*	-	-
Red peppers	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-
Others	-	-	-	-	-	-
Root Crops	80	3	80	3	-	-
Beet root	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onions	*	*	*	*	-	-
Potatoes	-	-	-	-	-	-
Garlic	-	-	-	-	-	-
Taro ('Godere')	-	-	-	-	-	-
Sweet potatoes	41	2	41	2	-	-
Others	-	-	-	-	-	-
Permanent Crops	457	70	457	70	-	-
Fruit Crops	403	55	403	55	-	-
Avocado	-	-	-	-	-	-
Bananas	206	22	206	22	-	-
Guava (Zeytuna)	40	1	40	1	-	-
Lemons	203	10	203	10	-	-
Mangoes	79	*	79	*	-	-
Oranges	234	14	234	14	-	-
Papayas	73	3	73	3	-	-
Pineapples	-	-	-	-	-	-
Others	98	2	98	2	-	-
Stimulant Crops	222	15	222	15	-	-
Chat	185	13	185	13	-	-
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	1697	701	1669	698	-	-	-
Grain Crops	1660	690	1655	688	-	-	-
Cereals	1637	646	1633	643	-	-	-
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	1612	608	1608	605	-	-	-
Sorghum	*	*	*	*	-	-	-
Finger millet	-	-	-	-	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulses	328	45	328	45	-	-	-
Horse beans	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	328	45	328	45	-	-	-
Chick peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oil Seeds	-	-	-	-	-	-	-
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-
Sufflower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-
Other Grains	-	-	-	-	-	-	-
Vegetables	47	1	34	1	-	-	-
Lettuce	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-
Kale	-	-	-	-	-	-	-
Tomatoes	47	1	34	1	-	-	-
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	508	309	418	241	96	60	10	9
Grain Crops	408	277	325	217	90	51	10	9
Cereals	400	239	313	186	90	44	10	9
Teff	8	2	*	*	-	-	4	1
Barley	45	16	32	9	4	1	10	5
Wheat	68	36	47	31	17	5	4	1
Maize	248	97	194	67	50	28	4	2
Sorghum	256	88	220	79	36	10	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulses	29	30	29	30	-	-	-	-
Horse beans	-	-	-	-	-	-	-	-
Field peas	11	1	11	1	-	-	-	-
Haricot beans	18	*	18	*	-	-	-	-
Chick peas	6	*	6	*	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oil Seeds	12	*	8	1	*	*	-	-
Neug	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	8	1	8	1	-	-	-	-
Sufflower	-	-	-	-	-	-	-	-
Sesame	*	*	-	-	*	*	-	-
Rapeseed	-	-	-	-	-	-	-	-
Other Grains	-	-	-	-	-	-	-	-
Vegetables	37	2	18	1	19	1	-	-
Lettuce	*	*	*	*	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Kale	*	*	*	*	-	-	-	-
Tomatoes	31	1	18	1	*	*	-	-
Green peppers	9	*	*	*	6	*	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Root Crops	25	*	12	1	*	*	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	*	*	-	-	*	*	-	-
Onions	19	*	9	*	*	*	-	-
Potatoes	*	*	*	*	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro ('Godere')	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Permanent Crops	137	23	129	22	*	*	-	-
Fruit Crops	26	4	23	2	*	*	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	20	*	17	*	*	*	-	-
Guava (Zeytuna)	*	*	*	*	-	-	-	-
Lemons	*	*	*	*	-	-	-	-
Mangoes	14	*	14	*	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	*	*	*	*	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Others	5	*	5	*	-	-	-	-
Stimulant Crops	105	20	101	19	*	*	-	-
Chat	105	18	101	18	*	*	-	-
Coffee	7	1	7	1	-	-	-	-
Hops	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Other Permanent Crops	5	-	5	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar Cane	5	-	5	-	-	-	-	-
	-	-	-	-	-	-	-	-

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
Somali Killil	17329	8321	16244	7663	422	134	33
Shinele Zone	848	231	792	224	*	*	*
Shinele	138	25	128	24	-	-	-
Erer	710	206	665	201	*	*	*
Jijiga Zone	14302	7131	13318	6521	411	131	*
Jijiga	10176	4149	9388	3665	*	*	*
Teferi Ber	1463	785	1314	*	*	*	*
Kebri Beyah	2664	2197	2617	2142	*	*	-
Liben Zone	2179	960	2133	917	-	-	-
Filtu	281	269	277	266	-	-	-
Dolo Odo	389	172	348	132	-	-	-
Moyale	1509	519	1509	519	-	-	-

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
Somali Killil	426	167	*	717	289	350	106	69
Shinele Zone	*	*	*	*	*	-	11	*
Shinele	-	-	-	-	-	-	11	*
Erer	*	*	*	*	*	-	-	-
Jijiga Zone	401	162	*	693	287	350	66	29
Jijiga	306	116	*	675	286	350	45	23
Teferi Ber	*	*	*	*	*	-	18	4
Kebri Beyah	*	*	-	-	-	-	*	*
Liben Zone	*	*	*	*	*	*	30	*
Filtu	*	*	*	-	-	-	-	-
Dolo Odo	-	-	-	*	*	*	30	*
Moyale	-	-	-	-	-	-	-	-

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
Somali Killil	16821	8012	15826	7422	422	134	33
Shinele Zone	788	221	743	216	*	*	*
Shinele	78	15	78	15	-	-	-
Erer	710	206	665	201	*	*	*
Jijiga Zone	13925	6919	12990	6339	411	131	*
Jijiga	9957	4030	9206	3570	*	*	*
Teferi Ber	1325	*	*	*	*	*	*
Kebri Beyah	2643	2194	2598	2140	*	*	-
Liben Zone	2108	871	2093	868	-	-	-
Filtu	281	269	277	266	-	-	-
Dolo Odo	319	84	307	82	-	-	-
Moyale	1509	519	1509	519	-	-	-

TABEL 6.17.1: CONTD.

Geographic Area	All Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Somali Killil	426	167	*	717	289	350
Shinele Zone	*	*	*	*	*	-
Shinele	-	-	-	-	-	-
Erer	*	*	*	*	*	-
Jijiga Zone	401	162	*	693	287	350
Jijiga	306	116	*	675	286	350
Teferi Ber	*	*	*	*	*	-
Kebri Beyah	*	*	-	-	-	-
Liben Zone	*	*	*	*	*	*
Filtu	*	*	*	-	-	-
Dolo Odo	-	-	-	*	*	*
Moyale	-	-	-	-	-	-

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
Somali Killil	15582	7311	14615	6725	422	134	33
Shinele Zone	754	210	721	205	*	*	*
Shinele	78	15	78	15	-	-	-
Erer	675	196	643	190	*	*	*
Jijiga Zone	13434	6795	12499	6214	411	131	*
Jijiga	9709	3992	8958	3531	*	*	*
Teferi Ber	*	*	*	*	*	*	*
Kebri Beyah	2643	2194	2598	2140	*	*	-
Liben Zone	1395	305	1395	305	-	-	-
Filtu	127	*	127	*	-	-	-
Dolo Odo	302	72	302	72	-	-	-
Moyale	966	163	966	163	-	-	-

TABEL 6.17.2: CONTD.

Geographic Area	All Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Somali Killil	410	164	*	706	288	350
Shinele Zone	*	*	*	*	*	-
Shinele	-	-	-	-	-	-
Erer	*	*	*	*	*	-
Jijiga Zone	401	162	*	693	287	350
Jijiga	306	116	*	675	286	350
Teferi Ber	*	*	*	*	*	-
Kebri Beyah	*	*	-	-	-	-
Liben Zone	-	-	-	-	-	-
Filtu	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-
Moyale	-	-	-	-	-	-

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
Somali Killil	1697	701	1669	698	-	-	-
Shinele Zone	100	11	88	11	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	100	11	88	11	-	-	-
Jijiga Zone	*	*	*	*	-	-	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	1036	566	1020	562	-	-	-
Filtu	*	*	*	*	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	841	357	841	357	-	-	-

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
Somali Killil	508	309	418	241	96	60	10	9
Shinele Zone	60	10	49	9	11	*	-	-
Shinele	60	10	49	9	11	*	-	-
Jijiga Zone	378	211	328	183	56	20	10	9
Jijiga	219	119	182	95	35	14	10	9
Teferi Ber	138	89	128	85	18	4	-	-
Kebri Beyah	*	*	*	*	*	*	-	-
Liben Zone	70	88	41	49	30	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	70	88	41	49	30	*	-	-

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
Somali Killil	15074	6852	14200	6341	317	78	29
Shinele Zone	649	150	606	144	*	*	*
Shinele	131	23	121	22	-	-	-
Erer	518	127	485	122	*	*	*
Jijiga Zone	12538	5783	11742	5311	306	76	*
Jijiga	8562	3081	7933	2692	*	*	*
Teferi Ber	1436	691	1290	621	*	*	*
Kebri Beyah	2540	2011	2518	1997	*	*	-
Liben Zone	1886	920	1853	887	-	-	-
Filtu	281	269	277	266	-	-	-
Dolo Odo	176	132	146	102	-	-	-
Moyale	1430	519	1430	519	-	-	-

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
Somali Killil	310	121	*	628	253	344	99	60
Shinele Zone	*	*	*	*	*	-	11	*
Shinele	-	-	-	-	-	-	11	*
Erer	*	*	*	*	*	-	-	-
Jijiga Zone	297	*	*	616	252	344	59	28
Jijiga	*	*	*	597	250	344	41	23
Teferi Ber	*	*	*	*	*	-	15	4
Kebri Beyah	*	*	-	-	-	-	*	*
Liben Zone	*	*	*	-	-	-	30	*
Filtu	*	*	*	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	30	*
Moyale	-	-	-	-	-	-	-	-

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
Somali Killil	14665	6575	13875	6124	317	78	29
Shinele Zone	589	141	557	136	*	*	*
Shinele	72	14	72	14	-	-	-
Erer	518	127	485	122	*	*	*
Jijiga Zone	12253	5593	11500	5149	306	76	*
Jijiga	8431	2980	7835	2614	*	*	*
Teferi Ber	1304	605	*	*	*	*	*
Kebri Beyah	2519	2008	2500	1995	*	*	-
Liben Zone	1822	841	1818	839	-	-	-
Filtu	281	269	277	266	-	-	-
Dolo Odo	112	54	112	54	-	-	-
Moyale	1430	519	1430	519	-	-	-

TABLE 6.18.1: CONTD.

Geographic Area	Grain Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Somali Killil	310	121	*	628	253	344
Shinele Zone	*	*	*	*	*	-
Shinele	-	-	-	-	-	-
Erer	*	*	*	*	*	-
Jijiga Zone	297	*	*	616	252	344
Jijiga	*	*	*	597	250	344
Teferi Ber	*	*	*	*	*	-
Kebri Beyah	*	*	-	-	-	-
Liben Zone	*	*	*	-	-	-
Filtu	*	*	*	-	-	-
Dolo Odo	-	-	-	-	-	-
Moyale	-	-	-	-	-	-

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
Somali Killil	13420	5885	12634	5436	317	78	29
Shinele Zone	568	133	536	127	*	*	*
Shinele	72	14	72	14	-	-	-
Erer	497	119	464	113	*	*	*
Jijiga Zone	11762	5476	11009	5032	306	76	*
Jijiga	8183	2949	7587	2583	*	*	*
Teferi Ber	*	*	*	*	*	*	*
Kebri Beyah	2519	2008	2500	1995	*	*	-
Liben Zone	1090	276	1090	276	-	-	-
Filtu	127	*	127	*	-	-	-
Dolo Odo	107	44	107	44	-	-	-
Moyale	855	162	855	162	-	-	-

TABLE 6.18.2: CONTD.

Geographic Area	Grain Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Somali Killil	306	118	*	628	253	344
Shinele Zone	*	*	*	*	*	-
Shinele	-	-	-	-	-	-
Erer	*	*	*	*	*	-
Jijiga Zone	297	*	*	616	252	344
Jijiga	*	*	*	597	250	344
Teferi Ber	*	*	*	*	*	-
Kebri Beyah	*	*	-	-	-	-
Liben Zone	-	-	-	-	-	-
Filtu	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-
Moyale	-	-	-	-	-	-

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
Somali Killil	1660	690	1655	688	-	-	-
Shinele Zone	74	9	74	9	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	74	9	74	9	-	-	-
Jijiga Zone	*	*	*	*	-	-	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	1024	565	1020	562	-	-	-
Filtu	*	*	*	*	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	841	357	841	357	-	-	-

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
Somali Killil	408	277	325	217	90	51	10	9
Shinele Zone	60	9	49	8	11	*	-	-
Shinele	60	9	49	8	11	*	-	-
Jijiga Zone	284	190	241	161	49	19	10	9
Jijiga	131	101	98	78	31	14	10	9
Teferi Ber	132	86	125	82	15	4	-	-
Kebri Beyah	*	*	*	*	*	*	-	-
Liben Zone	64	79	34	48	30	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	64	79	34	48	30	*	-	-

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
Somali Killil	14910	6663	14032	6166	317	77	29
Shinele Zone	649	150	606	144	*	*	*
Shinele	131	23	121	22	-	-	-
Erer	518	127	485	122	*	*	*
Jijiga Zone	12490	5741	11690	5277	306	75	*
Jijiga	8514	3047	7882	2665	*	*	*
Teferi Ber	1436	691	1290	621	*	*	*
Kebri Beyah	2540	2004	2518	1991	*	*	-
Liben Zone	1770	772	1736	746	-	-	-
Filtu	275	249	271	247	-	-	-
Dolo Odo	148	92	118	69	-	-	-
Moyale	1347	431	1347	431	-	-	-

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
Somali Killil	310	121	*	628	245	344	99	53
Shinele Zone	*	*	*	*	*	-	11	*
Shinele	-	-	-	-	-	-	11	*
Erer	*	*	*	*	*	-	-	-
Jijiga Zone	297	*	*	616	245	344	59	28
Jijiga	*	*	*	597	243	344	41	23
Teferi Ber	*	*	*	*	*	-	15	4
Kebri Beyah	*	*	-	-	-	-	*	*
Liben Zone	*	*	*	-	-	-	30	*
Filtu	*	*	*	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	30	*
Moyale	-	-	-	-	-	-	-	-

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
Somali Killil	14510	6424	13720	5981	317	77	29
Shinele Zone	589	141	557	136	*	*	*
Shinele	72	14	72	14	-	-	-
Erer	518	127	485	122	*	*	*
Jijiga Zone	12206	5554	11453	5118	306	75	*
Jijiga	8383	2947	7788	2589	*	*	*
Teferi Ber	1304	605	*	*	*	*	*
Kebri Beyah	2519	2001	2500	1990	*	*	-
Liben Zone	1714	729	1710	727	-	-	-
Filtu	275	249	271	247	-	-	-
Dolo Odo	92	*	92	*	-	-	-
Moyale	1347	431	1347	431	-	-	-

TABLE 6.19.1 CONTD.

Geographic Area	Cereals					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Somali Killil	310	121	*	628	245	344
Shinele Zone	*	*	*	*	*	-
Shinele	-	-	-	-	-	-
Erer	*	*	*	*	*	-
Jijiga Zone	297	*	*	616	245	344
Jijiga	*	*	*	597	243	344
Teferi Ber	*	*	*	*	*	-
Kebri Beyah	*	*	-	-	-	-
Liben Zone	*	*	*	-	-	-
Filtu	*	*	*	-	-	-
Dolo Odo	-	-	-	-	-	-
Moyale	-	-	-	-	-	-

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
Somali Killil	13248	5778	12463	5337	317	77	29
Shinele Zone	568	133	536	127	*	*	*
Shinele	72	14	72	14	-	-	-
Erer	497	119	464	113	*	*	*
Jijiga Zone	11715	5437	10962	5001	306	75	*
Jijiga	8135	2916	7540	2558	*	*	*
Teferi Ber	*	*	*	*	*	*	*
Kebri Beyah	2519	2001	2500	1990	*	*	-
Liben Zone	965	209	965	209	-	-	-
Filtu	122	*	122	*	-	-	-
Dolo Odo	87	*	87	*	-	-	-
Moyale	757	99	757	99	-	-	-

TABEL 6.19..2 : CONTD.

Geographic Area	Cereals					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Somali Killil	306	118	*	628	245	344
Shinele Zone	*	*	*	*	*	-
Shinele	-	-	-	-	-	-
Erer	*	*	*	*	*	-
Jijiga Zone	297	*	*	616	245	344
Jijiga	*	*	*	597	243	344
Teferi Ber	*	*	*	*	*	-
Kebri Beyah	*	*	-	-	-	-
Liben Zone	-	-	-	-	-	-
Filtu	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-
Moyale	-	-	-	-	-	-

TABEL 6.19.2a: Barley

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	1638	*	1568	*	*	*	*
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	1638	*	1568	*	*	*	*
Jijiga	1397	*	*	*	*	*	*
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABEL 6.19.2b: Wheat

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	3047	815	2345	519	140	*	*
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	3047	815	2345	519	140	*	*
Jijiga	2771	668	2140	408	*	*	*
Teferi Ber	133	*	*	*	*	*	*
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABEL 6.19.2b: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Somali Killil	149	*	*	414	182	303
Shinele Zone	-	-	-	-	-	-
Shinele	-	-	-	-	-	-
Erer	-	-	-	-	-	-
Jijiga Zone	149	*	*	414	182	303
Jijiga	149	*	*	414	182	303
Teferi Ber	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-
Filtu	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-
Moyale	-	-	-	-	-	-

TABEL 6.19.2c : Maize

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	9481	2500	9125	2444	*	*	*
Shinele Zone	237	10	225	9	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	227	9	215	9	-	-	-
Jijiga Zone	8345	2315	8002	2260	*	*	*
Jijiga	5329	958	5059	915	*	*	*
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	2261	1177	2242	1172	*	*	-
Liben Zone	898	175	898	175	-	-	-
Filtu	122	*	122	*	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	744	99	744	99	-	-	-

TABEL 6.19.2d : Sorghum

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	6142	2145	5781	2063	*	*	*
Shinele Zone	527	123	507	118	*	*	*
Shinele	68	14	68	14	-	-	-
Erer	460	109	440	104	*	*	*
Jijiga Zone	5513	1988	5172	1911	*	*	-
Jijiga	3656	1016	3400	967	*	*	-
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	1098	699	1079	693	*	*	-
Liben Zone	102	*	102	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	*	*	*	*	-	-	-

TABEL 6.19.2e : Oats

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	300	*	300	*	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	300	*	300	*	-	-	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

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
Somali Killil	1637	646	1633	643	-	-	-
Shinele Zone	74	9	74	9	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	74	9	74	9	-	-	-
Jijiga Zone	*	*	*	*	-	-	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	1002	520	998	518	-	-	-
Filtu	*	*	*	*	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	819	331	819	331	-	-	-

TABEL 6.19.4: URBAN HOLDINGS

Cereals								
Geographic Area	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Somali Killil	400	239	313	186	90	44	10	9
Shinele Zone	60	9	49	8	11	*	-	-
Shinele	60	9	49	8	11	*	-	-
Jijiga Zone	284	187	237	159	49	19	10	9
Jijiga	131	99	94	76	31	14	10	9
Teferi Ber	132	85	125	81	15	4	-	-
Kebri Beyah	*	*	*	*	*	*	-	-
Liben Zone	56	43	*	*	30	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	56	43	*	*	30	*	-	-

TABLE 6.20: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS.

Pulses							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	1377	174	1325	166	*	*	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	361	34	309	25	*	*	-
Jijiga	294	26	*	*	-	-	-
Teferi Ber	5	*	5	*	-	-	-
Kebri Beyah	*	*	*	*	*	*	-
Liben Zone	1016	141	1016	141	-	-	-
Filtu	*	*	*	*	-	-	-
Dolo Odo	*	33	*	33	-	-	-
Moyale	930	88	930	88	-	-	-

TABEL 6.20.1: RURAL HOLDING

Pulses							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	1347	144	1296	136	*	*	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	347	32	295	*	*	*	-
Jijiga	288	*	*	*	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	*	*	-
Liben Zone	1001	112	1001	112	-	-	-
Filtu	*	*	*	*	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	930	88	930	88	-	-	-

TABEL 6.20.2: RURAL MEHER

Pulses							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	1125	99	1073	91	*	*	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	347	32	295	*	*	*	-
Jijiga	288	*	*	*	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	*	*	-
Liben Zone	778	67	778	67	-	-	-
Filtu	*	*	*	*	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	737	63	737	63	-	-	-

TABEL 6.20.2a : Haricot beans

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	1041	90	1008	83	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	263	*	*	*	-	-	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	778	67	778	67	-	-	-
Filtu	*	*	*	*	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	737	62	737	62	-	-	-

TABEL 6.20.3: RURAL BELG

Geographic Area	Pulses						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	328	45	328	45	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	328	45	328	45	-	-	-
Filtu	*	*	*	*	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	299	*	299	*	-	-	-

TABEL 6.20.4: URBAN HOLDINGS

Geographic Area	Pulses							
	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Somali Killil	29	30	29	30	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Jijiga Zone	14	2	14	2	-	-	-	-
Jijiga	6	1	6	1	-	-	-	-
Teferi Ber	5	*	5	*	-	-	-	-
Kebri Beyah	*	*	*	*	-	-	-	-
Liben Zone	15	*	15	*	-	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	15	*	15	*	-	-	-	-

TABLE 6.21: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS.

Oil seeds							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	*	*	*	*	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	*	*	*	*	-	-	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	-	-	-	-	-
Moyale	*	*	*	*	-	-	-

TABEL 6.21.1: URBAN HOLDINGS

Oil seeds								
Geographic Area	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Somali Killil	12	*	8	1	*	*	-	-
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Jijiga Zone	8	1	8	1	-	-	-	-
Jijiga	8	1	8	1	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	*	*	-	-	*	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	*	-	-	*	*	-	-

TABLE 6.22: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Vegetables							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	688	41	555	37	*	*	*
Shinele Zone	171	6	155	6	-	-	-
Shinele	*	*	-	-	-	-	-
Erer	167	6	155	6	-	-	-
Jijiga Zone	462	*	358	*	*	*	*
Jijiga	*	*	*	*	*	*	*
Teferi Ber	6	*	*	*	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.22 Contd.

Geographic Area	Vegetables							
	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical – DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Somali Killil	*	*	*	-	-	-	19	1
Shinele Zone	*	*	*	-	-	-	*	*
Shinele	-	-	-	-	-	-	*	*
Erer	*	*	*	-	-	-	-	-
Jijiga Zone	*	*	*	-	-	-	3	*
Jijiga	*	*	*	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	3	*
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	*	*
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	*	*
Moyale	-	-	-	-	-	-	-	-

TABLE 6.22.1: RURAL HOLDING

Geographic Area	Vegetables						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	650	39	537	36	*	*	*
Shinele Zone	167	6	155	6	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	167	6	155	6	-	-	-
Jijiga Zone	*	*	347	*	*	*	*
Jijiga	*	*	*	*	*	*	*
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.22.2: RURAL MEHER

Geographic Area	Vegetables						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	603	38	502	35	*	*	*
Shinele Zone	121	5	121	5	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	121	5	121	5	-	-	-
Jijiga Zone	*	*	347	*	*	*	*
Jijiga	*	*	*	*	*	*	*
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.22.2a: Tomatoes

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	350	*	279	*	*	*	*
Shinele Zone	121	4	121	4	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	121	4	121	4	-	-	-
Jijiga Zone	*	*	*	*	*	*	*
Jijiga	*	*	*	*	*	*	*
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.22.2b: Green Pepper

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	120	*	120	*	-	-	-
Shinele Zone	*	*	*	*	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	*	*	*	*	-	-	-
Jijiga Zone	*	*	*	*	-	-	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.22.3: RURAL BELG

Vegetables							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	47	1	34	1	-	-	-
Shinele Zone	47	1	34	1	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	47	1	34	1	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABEL 6.22.3: URBAN HOLDINGS

Geographic Area	Vegetables							
	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Somali Killil	37	2	18	1	19	1	-	-
Shinele Zone	*	*	-	-	*	*	-	-
Shinele	*	*	-	-	*	*	-	-
Jijiga Zone	15	1	12	*	3	*	-	-
Jijiga	6	*	6	*	-	-	-	-
Teferi Ber	6	*	*	*	3	*	-	-
Kebri Beyah	*	*	*	*	-	-	-	-
Liben Zone	19	*	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	19	*	*	*	*	*	-	-

TABLE 6.23: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS.

Geographic Area	Root Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	1438	65	1214	51	*	*	*
Shinele Zone	95	4	91	4	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	84	3	84	3	-	-	-
Jijiga Zone	1283	43	1084	37	*	*	*
Jijiga	1280	43	1081	37	*	*	*
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.23.1: RURAL HOLDING

Geographic Area	Root Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	1412	58	1202	50	*	*	*
Shinele Zone	91	4	91	4	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	84	3	84	3	-	-	-
Jijiga Zone	1274	43	1075	36	*	*	*
Jijiga	1274	43	1075	36	*	*	*
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.23.2: RURAL MEHER

Geographic Area	Root Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	1224	48	1025	42	*	*	*
Shinele Zone	80	3	80	3	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	73	2	73	2	-	-	-
Jijiga Zone	1109	36	910	29	*	*	*
Jijiga	1109	36	910	29	*	*	*
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.23.2a: Onion

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	356	*	323	*	-	-	-
Shinele Zone	*	*	*	*	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	*	*	*	*	-	-	-
Jijiga Zone	283	*	*	*	-	-	-
Jijiga	283	*	*	*	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.23.2a: Sweet Potatoes

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	*	*	74	4	*	*	*
Shinele Zone	41	2	41	2	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	34	2	34	2	-	-	-
Jijiga Zone	*	*	*	*	*	*	*
Jijiga	*	*	*	*	*	*	*
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABEL 6.23.3: URBAN HOLDINGS

Geographic Area	Root 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
Somali Killil	25	*	12	1	*	*	-	-
Shinele Zone	*	*	-	-	*	*	-	-
Shinele	*	*	-	-	*	*	-	-
Jijiga Zone	9	*	9	*	-	-	-	-
Jijiga	6	*	6	*	-	-	-	-
Teferi Ber	*	*	*	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	*	*	-	-

TABLE 6.24: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR MEHER SEASON.

Geographic Area	Permanent Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	7877	1362	7410	1234	180	*	*
Shinele Zone	461	71	461	71	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	450	70	450	70	-	-	-
Jijiga Zone	6973	1281	6510	1154	180	*	*
Jijiga	6197	1018	5760	933	155	25	*
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	*	170	*	*	*	*	-
Liben Zone	443	*	440	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	221	*	218	*	-	-	-
Moyale	222	*	222	*	-	-	-

TABLE 6.24 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
Somali Killil	143	*	*	228	33	*	*	*
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-
Jijiga Zone	143	*	*	228	33	*	*	*
Jijiga	*	*	*	228	33	*	*	*
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	*	*
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	*	*
Moyale	-	-	-	-	-	-	-	-

TABLE 6.24.1: RURAL MEHER

Geographic Area	Permanent Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	7740	1339	7281	1212	180	*	*
Shinele Zone	457	70	457	70	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	450	70	450	70	-	-	-
Jijiga Zone	6854	1261	6395	1134	180	*	*
Jijiga	6093	1001	5660	916	155	25	*
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	*	170	*	*	*	*	-
Liben Zone	429	*	429	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	207	*	207	*	-	-	-
Moyale	222	*	222	*	-	-	-

TABLE 6.24.1 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
Somali Killil	143	*	*	228	33	*	143	*
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-
Jijiga Zone	143	*	*	228	33	*	143	*
Jijiga	*	*	*	228	33	*	*	*
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	-	-	-	-	*	*
Liben Zone	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-

TABEL 6.24.2: URBAN HOLDINGS

Geographic Area	Permanent 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
Somali Killil	137	23	129	22	*	*	-	-
Shinele Zone	*	*	*	*	-	-	-	-
Shinele	*	*	*	*	-	-	-	-
Jijiga Zone	118	20	114	20	*	*	-	-
Jijiga	104	17	100	17	*	*	-	-
Teferi Ber	15	3	15	3	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	14	*	11	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	14	*	11	*	*	*	-	-

TABLE 6.25: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR MEHER SEASON

Fruit Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	1076	116	1000	71	*	*	-
Shinele Zone	407	56	407	56	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	396	55	396	55	-	-	-
Jijiga Zone	237	*	165	*	*	*	-
Jijiga	209	*	163	*	*	*	-
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	*	*	-	-	*	*	-
Liben Zone	431	*	428	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	210	*	206	*	-	-	-
Moyale	222	*	222	*	-	-	-

TABLE 6.25.1: RURAL MEHER

Fruit Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	1049	112	977	69	*	*	-
Shinele Zone	403	55	403	55	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	396	55	396	55	-	-	-
Jijiga Zone	229	*	157	*	*	*	-
Jijiga	204	*	157	*	*	*	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	-	-	*	*	-
Liben Zone	417	*	417	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	195	*	195	*	-	-	-
Moyale	222	*	222	*	-	-	-

TABLE 6.25.1a: Banana

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	257	27	257	27	-	-	-
Shinele Zone	206	22	206	22	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	199	21	199	21	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	*	*	*	*	-	-	-

TABLE 6.25.1b: Guava(Zeytuna)

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	164	*	139	*	*	*	-
Shinele Zone	40	1	40	1	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	34	*	34	*	-	-	-
Jijiga Zone	*	*	*	*	*	*	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	-	-	*	*	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	*	*	*	*	-	-	-

TABLE 6.25.1c: Lemon

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	223	11	223	11	-	-	-
Shinele Zone	203	10	203	10	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	203	10	203	10	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.25.1d: Mango

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	291	6	291	6	-	-	-
Shinele Zone	79	*	79	*	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	79	*	79	*	-	-	-
Jijiga Zone	*	*	*	*	-	-	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	*	*	*	*	-	-	-

TABLE 6.25.1e: Orange

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	260	19	234	14	*	*	-
Shinele Zone	234	14	234	14	-	-	-
Shinele	*	*	*	*	-	-	-
Erer	227	14	227	14	-	-	-
Jijiga Zone	*	*	-	-	*	*	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	-	-	*	*	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.25.1f: Papapyas

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	348	*	322	3	*	*	-
Shinele Zone	73	3	73	3	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	73	3	73	3	-	-	-
Jijiga Zone	*	*	*	*	*	*	-
Jijiga	*	*	*	*	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	-	-	*	*	-
Liben Zone	214	*	214	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	190	*	190	*	-	-	-

TABLE 6.25.1g: Other Fruits

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	144	*	98	2	*	*	-
Shinele Zone	98	2	98	2	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	98	2	98	2	-	-	-
Jijiga Zone	*	*	-	-	*	*	-
Jijiga	*	*	-	-	*	*	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABEL 6.25.2: URBAN HOLDINGS

Geographic Area	Fruit 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
Somali Killil	26	4	23	2	*	*	-	-
Shinele Zone	*	*	*	*	-	-	-	-
Shinele	*	*	*	*	-	-	-	-
Jijiga Zone	8	*	8	*	-	-	-	-
Jijiga	5	*	5	*	-	-	-	-
Teferi Ber	*	*	*	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	14	*	11	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	14	*	11	*	*	*	-	-

TABLE 6.26: 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
Somali Killil	7156	1246	6718	1163	155	23	*
Shinele Zone	222	15	222	15	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	222	15	222	15	-	-	-
Jijiga Zone	6934	1231	6496	1148	155	23	*
Jijiga	6187	1010	5749	927	155	23	*
Teferi Ver	*	*	*	*	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.26 Contd.

Geographic Area	Stimulant Crops							
	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical – DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Somali Killil	*	*	*	228	33	*	*	*
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-
Jijiga Zone	*	*	*	228	33	*	*	*
Jijiga	*	*	*	228	33	*	*	*
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-

TABLE 6.26.1: RURAL MEHER

Geographic Area	Stimulant Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	7051	1227	6617	1143	155	23	*
Shinele Zone	222	15	222	15	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	222	15	222	15	-	-	-
Jijiga Zone	6829	1212	6395	1129	155	23	*
Jijiga	6093	993	5660	910	155	23	*
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.26.1 Contd.

Geographic Area	Stimulant Crops							
	Application of Fertilizers by Type and Quantity							
	Chemical – UREA			Chemical – DAP & UREA			Chemical(Urban)	
	Holders	Hectares	Quintals	Holders	Hectares	Quintals	Holders	Hectares
Somali Killil	*	*	*	228	33	*	*	*
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-
Jijiga Zone	*	*	*	228	33	*	*	*
Jijiga	*	*	*	228	33	*	*	*
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-

TABLE 6.26.1a: Chat

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	7014	1225	6580	1142	155	23	*
Shinele Zone	185	13	185	13	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	185	13	185	13	-	-	-
Jijiga Zone	6829	1212	6395	1129	155	23	*
Jijiga	6093	993	5660	910	155	23	*
Teferi Ber	*	*	*	*	-	-	-
Kebri Beyah	*	*	*	*	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABEL 6.26.1a: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Somali Killil	*	*	*	228	33	*
Shinele Zone	-	-	-	-	-	-
Shinele	-	-	-	-	-	-
Erer	-	-	-	-	-	-
Jijiga Zone	*	*	*	228	33	*
Jijiga	*	*	*	228	33	*
Teferi Ber	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-
Filtu	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-
Moyale	-	-	-	-	-	-

TABEL 6.26.2: URBAN HOLDINGS

Geographic Area	Stimulant 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
Somali Killil	105	20	101	19	*	*	-	-
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Jijiga Zone	105	20	101	19	*	*	-	-
Jijiga	93	17	89	17	*	*	-	-
Teferi Ber	12	3	12	3	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-

TABLE 6.27: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN ASREAS, FOR MEHER SEASON

Geographic Area	Other Permanent Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil	41	*	41	*	-	-	-
Shinele Zone	*	*	*	*	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	*	*	*	*	-	-	-
Jijiga Zone	5	-	5	-	-	-	-
Jijiga	5	-	5	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.27.1: RURAL MEHER

Geographic Area	Other Permanent Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil							
Shinele Zone							
Shinele							
Erer	123	2	123	2	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	123	2	123	2	-	-	-
Filtu	101	*	101	*	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	22	*	22	*	-	-	-

TABLE 6.27.1a: Suger Cane

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Somali Killil							
Shinele Zone							
Shinele							
Erer	123	2	123	2	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	123	2	123	2	-	-	-
Filtu	101	*	101	*	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	22	*	22	*	-	-	-

TABEL 6.27.2: URBAN HOLDINGS

Geographic Area	Permanent 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
Somali Killil	5	-	5	-	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Jijiga Zone	5	-	5	-	-	-	-	-
Jijiga	5	-	5	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-	-

TABLE 6.29: 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
Somali Killil	2506	384	2141	384	2055	372	-	-
Shinele Zone	152	3	110	3	110	3	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	152	3	110	3	110	3	-	-
Jijiga Zone	1679	348	1602	348	1562	345	-	-
Jijiga	1207	*	1207	*	1167	*	-	-
Teferi Ber	214	*	214	*	214	*	-	-
Kebri Beyah	258	*	181	*	181	*	-	-
Liben Zone	675	33	430	33	384	24	-	-
Filtu	278	25	278	25	272	21	-	-
Dolo Odo	344	*	137	*	97	*	-	-
Moyale	53	*	*	*	*	*	-	-

TABLE 6.29: CONTD.

Geographic Area	Barley		Wheat		Maize		Sorghum	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
Somali Killil	*	*	423	*	1264	95	867	16
Shinele Zone	-	-	-	-	*	-	110	3
Shinele	-	-	-	-	-	-	-	-
Erer	-	-	-	-	*	-	110	3
Jijiga Zone	*	-	419	*	881	72	743	*
Jijiga	*	-	*	*	588	40	573	*
Teferi Ber	*	-	*	*	*	*	*	*
Kebri Beyah	-	-	*	*	181	*	*	-
Liben Zone	*	*	*	*	376	24	*	*
Filtu	*	*	*	*	264	20	*	*
Dolo Odo	-	-	-	-	97	*	*	-
Moyale	-	-	-	-	*	*	-	-

TABLE 6.29: CONTD.

Geographic Area	Millet		Oats		Rice		Pulse	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
Somali Killil	-	-	*	-	-	-	213	*
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-
Jijiga Zone	-	-	*	-	-	-	*	*
Jijiga	-	-	*	-	-	-	*	*
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	138	*
Filtu	-	-	-	-	-	-	79	4
Dolo Odo	-	-	-	-	-	-	*	*
Moyale	-	-	-	-	-	-	*	*

TABLE 6.29: CONTD.

Geographic Area	Horse bean		Field peas		Haricot beans		Chick peas	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
Somali Killil	-	-	*	*	209	*	*	*
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-
Jijiga Zone	-	-	-	-	*	*	-	-
Jijiga	-	-	-	-	*	*	-	-
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	-	-	*	*	134	*	*	*
Filtu	-	-	-	-	76	3	*	*
Dolo Odo	-	-	-	-	*	*	-	-
Moyale	-	-	*	*	*	*	-	-

TABLE 6.29: CONTD.

Geographic Area	Number of holders who used improved seeds						
	Vegetables	Lettuce	Head Cabbage	Kale	Tomatoes	Green Peppers	Red Peppers
Somali Killil	*	-	*	-	*	-	-
Shinele Zone	2	-	-	-	2	-	-
Shinele	-	-	-	-	-	-	-
Erer	2	-	-	-	2	-	-
Jijiga Zone	*	-	*	-	*	-	-
Jijiga	*	-	*	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	*	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

TABLE 6.29: CONTD.

Geographic Area	Number of holders who used improved seeds						
	Permanent crops	Fruit crops	Avocado	Bananas	Mangos	Oranges	Papayas
Somali Killil	315	315	-	*	*	70	*
Shinele Zone	45	45	-	*	-	45	-
Shinele	-	-	-	-	-	-	-
Erer	45	45	-	*	-	45	-
Jijiga Zone	*	*	-	-	-	*	*
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	*	*	-	-	-	*	*
Liben Zone	*	*	-	-	*	-	*
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	-	-	*	-	*
Moyale	*	*	-	-	-	-	*

TABLE 6.30: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	91300	100	2671	2.93	8971	9.83	17329	18.98	678	0.74	1468	1.61
Illiterate	66327	100	1447	2.18	5878	8.86	12026	18.13	359	0.54	1021	1.54
Literate, but no formal Education	19784	100	977	4.94	1939	9.8	4121	20.83	220	1.11	334	1.69
Completed Grade 1..	257	100	-	-	71	27.63	*	*	-	-	*	*
Completed Grade 2..	691	100	*	*	180	26.05	137	19.83	-	-	-	-
Completed Grade 3..	622	100	*	*	70	11.25	166	26.69	*	*	*	*
Completed Grade 4..	869	100	52	5.98	252	29	83	9.55	*	*	-	-
Completed Grade 5..	769	100	*	*	193	25.1	304	39.53	*	*	*	*
Completed Grade 6..	384	100	-	-	80	20.83	63	16.41	-	-	*	*
Completed Grade 7..	381	100	*	*	130	34.12	150	39.37	*	*	-	-
Completed Grade 8..	430	100	*	*	74	17.21	99	23.02	*	*	*	*
Completed Grade 9..	198	100	-	-	*	*	*	*	*	*	-	-
Completed Grade 10	136	100	*	*	*	*	33	24.26	-	-	-	-
Completed Grade 11	12	100	2	16.67	-	-	-	-	-	-	-	-
Completed Grade 12	367	100	*	*	46	12.53	69	18.8	8	2.18	-	-
Above Grade 12	74	100	-	-	11	14.86	*	*	-	-	-	-
Not Reported	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.30.1: 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.....	88015	100	2607	2.96	8551	9.72	16821	19.11	588	0.67	1468	1.67
Illiterate.....	64464	100	1406	2.18	5708	8.85	11824	18.34	333	0.52	1021	1.58
Literate, but no formal Education.....	19074	100	970	5.09	1868	9.79	4006	21	189	0.99	334	1.75
Completed Grade 1 .	240	100	-	-	60	25	*	*	-	-	*	*
Completed Grade 2 .	670	100	*	*	180	26.87	137	20.45	-	-	-	-
Completed Grade 3 .	579	100	*	*	*	*	151	26.08	-	-	*	*
Completed Grade 4 .	824	100	52	6.31	235	28.52	70	8.5	-	-	-	-
Completed Grade 5 .	688	100	*	*	175	25.44	282	40.99	*	*	*	*
Completed Grade 6 .	308	100	-	-	*	*	*	*	-	-	*	*
Completed Grade 7 .	313	100	-	-	*	*	141	45.05	*	*	-	-
Completed Grade 8 .	347	100	*	*	74	21.33	*	*	-	-	*	*
Completed Grade 9 .	152	100	-	-	*	*	*	*	*	*	-	-
Completed Grade 10	*	*	*	*	*	*	*	*	-	-	-	-
Completed Grade 11	-	-	-	-	-	-	-	-	-	-	-	-
Completed Grade 12	210	100	-	-	*	*	*	*	-	-	-	-
Above Grade 12.....	*	*	-	-	-	-	-	-	-	-	-	-
Not Reported	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.30.2: 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	83503	100	2506	3	8290	9.93	15582	18.66	549	0.66	1346	1.61
Illiterate.....	62041	100	1375	2.22	5617	9.05	11062	17.83	302	0.49	937	1.51
Literate, but no formal Education.....	17706	100	916	5.17	1770	10	3691	20.85	186	1.05	314	1.77
Completed Grade 1.	240	100	-	-	60	25	*	*	-	-	*	*
Completed Grade 2.	557	100	*	*	150	26.93	*	*	-	-	-	-
Completed Grade 3.	504	100	*	*	*	*	151	29.96	-	-	*	*
Completed Grade 4.	754	100	52	6.9	235	31.17	51	6.76	-	-	-	-
Completed Grade 5.	581	100	*	*	175	30.12	259	44.58	*	*	*	*
Completed Grade 6.	226	100	-	-	*	*	*	*	-	-	-	-
Completed Grade 7.	253	100	-	-	*	*	*	*	*	*	-	-
Completed Grade 8.	264	100	*	*	74	28.03	*	*	-	-	-	-
Completed Grade 9.	*	*	-	-	*	*	*	*	-	-	-	-
Completed Grade 10	*	*	*	*	*	*	*	*	-	-	-	-
Completed Grade 11	-	-	-	-	-	-	-	-	-	-	-	-
Completed Grade 12	191	100	-	-	*	*	*	*	-	-	-	-
Above Grade 12.....	*	*	-	-	-	-	-	-	-	-	-	-
Not Reported	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.30.3: 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.....	16769	100	133	0.79	1808	10.78	1697	10.12	*	*	121	0.72
Illiterate	10642	100	*	*	1210	11.37	963	9.05	*	*	*	*
Literate, but no formal Education.....	4176	100	*	*	317	7.59	483	11.57	*	*	*	*
Completed Grade 1..	135	100	-	-	*	*	*	*	-	-	-	-
Completed Grade 2..	340	100	*	*	*	*	*	*	-	-	-	-
Completed Grade 3..	147	100	-	-	*	*	*	*	-	-	-	-
Completed Grade 4..	306	100	-	-	74	24.18	*	*	-	-	-	-
Completed Grade 5..	290	100	*	*	*	*	*	*	-	-	-	-
Completed Grade 6..	141	100	-	-	*	*	-	-	-	-	*	*
Completed Grade 7..	112	100	-	-	*	*	*	*	-	-	-	-
Completed Grade 8..	185	100	-	-	*	*	-	-	-	-	*	*
Completed Grade 9..	*	*	-	-	-	-	*	*	*	*	-	-
Completed Grade 10	*	*	-	-	-	-	-	-	-	-	-	-
Completed Grade 11	-	-	-	-	-	-	-	-	-	-	-	-
Completed Grade 12	79	100	-	-	-	-	-	-	-	-	-	-
Above Grade 12	*	*	-	-	-	-	-	-	-	-	-	-
Not Reported.....	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.30.4: 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	3285	100	64	1.95	420	12.79	508	15.46	90	2.74
Illiterate	1863	100	41	2.2	170	9.13	202	10.84	26	1.4
Literate, but no formal Education	710	100	7	0.99	71	10	115	16.2	31	4.37
Completed Grade 1	17	100	-	-	11	64.71	-	-	-	-
Completed Grade 2	20	100	-	-	-	-	-	-	-	-
Completed Grade 3	43	100	-	-	24	55.81	15	34.88	*	*
Completed Grade 4	45	100	-	-	17	37.78	13	28.89	*	*
Completed Grade 5	81	100	*	*	18	22.22	21	25.93	*	*
Completed Grade 6	77	100	-	-	40	51.95	47	61.04	-	-
Completed Grade 7	68	100	*	*	15	22.06	9	13.24	*	*
Completed Grade 8	83	100	-	-	-	-	17	20.48	*	*
Completed Grade 9	47	100	-	-	*	*	*	*	*	*
Completed Grade 10	44	100	-	-	*	*	22	50	-	-
Completed Grade 11	12	100	2	16.67	-	-	-	-	-	-
Completed Grade 12	157	100	*	*	33	21.02	37	23.57	8	5.1
Above Grade 12	20	100	-	-	11	55	*	*	-	-
Not Reported	-	-	-	-	-	-	-	-	-	-

TABLE 6.31: 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
Somali Killil	91300	66327	19784	257	691	622	869	769	384	381	430	198	136	12	367	74
Shinele Zone	2929	2507	247	-	18	21	57	*	*	-	*	-	*	-	-	-
Shinele	816	719	85	-	*	7	-	*	-	-	-	-	-	-	-	-
Erer	2113	1787	162	-	*	*	57	*	*	-	*	-	*	-	-	-
Jijiga Zone	74022	56144	14942	134	389	403	485	449	208	200	223	*	40	12	267	*
Jijiga	36743	27507	7796	8	*	200	329	284	139	*	*	*	14	10	*	8
Teferi Ver	21227	17383	2963	*	85	*	92	46	*	132	77	21	23	2	158	*
Kebri Beyah	16052	11254	4184	94	134	*	*	119	*	-	*	*	*	-	39	-
Liben Zone	14349	7676	4594	123	283	199	327	280	165	181	189	114	*	-	100	*
Filtu	2910	1895	863	*	18	*	56	*	*	-	*	-	1	-	-	-
Dolo Odo	4846	2572	1525	70	113	*	156	98	*	43	106	*	*	-	21	*
Moyale	6592	3209	2206	*	153	108	115	171	102	139	68	*	*	-	79	*

TABLE 6.31.1: RURAL 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
Somali Killil	88015	64464	19074	240	670	579	824	688	308	313	347	152	*	-	210	*
Shinele Zone	2673	2300	209	-	*	*	57	*	*	-	*	-	*	-	-	-
Shinele	560	513	47	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	2113	1787	162	-	*	*	57	*	*	-	*	-	*	-	-	-
Jijiga Zone	71313	54599	14369	120	371	381	458	389	*	*	147	*	-	-	132	*
Jijiga	35946	27071	7633	-	*	180	321	276	*	*	*	*	-	-	*	-
Teferi Ber	20124	16765	2769	*	74	*	76	-	*	*	*	-	-	-	*	*
Kebri Beyah	15243	10762	3968	88	128	*	*	113	-	-	*	-	-	-	-	-
Liben Zone	14029	7565	4495	120	283	185	309	262	165	166	183	*	*	-	79	*
Filtu	2907	1895	862	*	18	*	*	*	*	-	*	-	-	-	-	-
Dolo Odo	4529	2461	1428	66	113	*	139	79	*	*	100	*	-	-	-	-
Moyale	6592	3209	2206	*	153	108	115	171	102	139	68	*	*	-	79	*

TABLE 6.31.2: RURAL MEHER

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
Somali Killil	83503	62041	17706	240	557	504	754	581	226	253	264	*	*	-	191	*
Shinele Zone	2673	2300	209	-	*	*	57	*	*	-	*	-	*	-	-	-
Shinele	560	513	47	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	2113	1787	162	-	*	*	57	*	*	-	*	-	*	-	-	-
Jijiga Zone	71246	54554	14369	120	349	381	458	389	*	*	147	*	-	-	132	*
Jijiga	35946	27071	7633	-	*	180	321	276	*	*	*	*	-	-	*	-
Teferi Ber	20124	16765	2769	*	74	*	76	-	*	*	*	-	-	-	*	*
Kebri Beyah	15176	10717	3968	88	106	*	*	113	-	-	*	-	-	-	-	-
Liben Zone	9584	5186	3128	120	192	109	239	155	83	106	100	*	*	-	59	*
Filtu	2220	1512	610	*	*	*	*	*	-	-	-	-	-	-	-	-
Dolo Odo	3442	1797	1126	66	113	*	136	79	*	*	*	-	-	-	-	-
Moyale	3923	1877	1392	*	68	59	*	64	55	103	*	*	*	-	59	*

TABLE 6.31.3: RURAL BELG

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
Somali Killil	16769	10642	4176	135	340	147	306	290	141	112	185	*	*	-	79	*
Shinele Zone	708	594	67	-	-	-	38	-	-	-	*	-	-	-	-	-
Shinele	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	610	517	46	-	-	-	38	-	-	-	*	-	-	-	-	-
Jijiga Zone	4604	3916	474	*	*	-	*	*	-	-	-	-	-	-	-	-
Jijiga	*	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-
Teferi Ber	1117	1100	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Kebri Beyah	1840	1422	251	*	*	-	-	*	-	-	-	-	-	-	-	-
Liben Zone	11457	6132	3635	80	257	147	250	230	141	112	177	*	*	-	79	*
Filtu	1794	1090	605	-	18	*	*	-	*	-	*	-	-	-	-	-
Dolo Odo	3386	1992	881	*	*	*	99	*	*	*	100	*	-	-	-	-
Moyale	6276	3050	2150	*	153	80	115	171	89	84	62	*	*	-	79	*

TABLE 6.31.4: 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
Somali Killil	3285	1863	710	17	20	43	45	81	77	68	83	47	44	12	157	20
Shinele Zone	256	206	38	-	*	7	-	*	-	-	-	-	-	-	-	-
Shinele	256	206	38	-	*	7	-	*	-	-	-	-	-	-	-	-
Jijiga Zone	2709	1545	573	14	18	22	27	60	77	53	76	40	40	12	135	17
Jijiga	796	436	162	8	-	20	8	8	44	7	28	8	14	10	35	8
Teferi Ber	1104	618	194	-	12	2	16	46	18	45	36	21	23	2	62	9
Kebri Beyah	809	492	216	*	*	-	*	*	*	-	12	*	*	-	39	-
Liben Zone	320	111	99	*	-	14	18	18	-	15	*	*	*	-	21	*
Filtu	3	-	1	-	-	-	1	-	-	-	-	-	1	-	-	-
Dolo Odo	317	111	98	*	-	14	17	18	-	15	*	*	*	-	21	*

TABLE 6.32: 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
Somali Killil	2671	1447	977	-	*	*	52	*	-	*	*	-	*	2	*	-
Shinele Zone	167	126	*	-	-	-	*	-	-	-	-	-	*	-	-	-
Shinele	15	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	152	111	*	-	-	-	*	-	-	-	-	-	*	-	-	-
Jijiga Zone	1717	965	647	-	-	-	-	*	-	*	*	-	-	2	-	-
Jijiga	1233	631	527	-	-	-	-	*	-	-	-	-	-	-	-	-
Teferi Ber	223	190	*	-	-	-	-	-	-	*	-	-	-	2	-	-
Kebri Beyah	261	*	*	-	-	-	-	-	-	-	*	-	-	-	-	-
Liben Zone	787	356	322	-	*	*	*	*	-	*	-	-	-	-	*	-
Filtu	289	173	83	-	*	*	*	*	-	-	-	-	-	-	-	-
Dolo Odo	386	138	*	-	*	-	*	*	-	*	-	-	-	-	*	-
Moyale	112	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.32.1: RURAL HOLDINGS

Geographic Area	Holders Applying Improved Seeds															
	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
Somali Killil	2607	1406	970	-	*	*	52	*	-	-	*	-	*	-	-	-
Shinele Zone	152	111	*	-	-	-	*	-	-	-	-	-	*	-	-	-
Shinele	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	152	111	*	-	-	-	*	-	-	-	-	-	*	-	-	-
Jijiga Zone	1679	939	639	-	-	-	-	*	-	-	*	-	-	-	-	-
Jijiga	1207	613	519	-	-	-	-	*	-	-	-	-	-	-	-	-
Teferi Ber	214	185	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	258	*	*	-	-	-	-	-	-	-	*	-	-	-	-	-
Liben Zone	776	356	322	-	*	*	*	*	-	-	-	-	-	-	-	-
Filtu	289	173	83	-	*	*	*	*	-	-	-	-	-	-	-	-
Dolo Odo	375	138	*	-	*	-	*	*	-	-	-	-	-	-	-	-
Moyale	112	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.32.2: 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
Somali Killil	2506	1375	916	-	*	*	52	*	-	-	*	-	*	-	-	-
Shinele Zone	152	111	*	-	-	-	*	-	-	-	-	-	*	-	-	-
Shinele	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	152	111	*	-	-	-	*	-	-	-	-	-	*	-	-	-
Jijiga Zone	1679	939	639	-	-	-	-	*	-	-	*	-	-	-	-	-
Jijiga	1207	613	519	-	-	-	-	*	-	-	-	-	-	-	-	-
Teferi Ber	214	185	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	258	*	*	-	-	-	-	-	-	-	*	-	-	-	-	-
Liben Zone	675	324	*	-	*	*	*	*	-	-	-	-	-	-	-	-
Filtu	278	166	79	-	*	*	*	*	-	-	-	-	-	-	-	-
Dolo Odo	344	138	*	-	*	-	*	-	-	-	-	-	-	-	-	-
Moyale	53	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.32.3: 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
Somali Killil	133	*	*	-	*	-	-	*	-	-	-	-	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	133	*	*	-	*	-	-	*	-	-	-	-	-	-	-	-
Filtu	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	-	*	-	-	*	-	-	-	-	-	-	-	-
Moyale	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.32.4: 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
Somali Killil	64	41	7	-	-	-	-	*	-	*	-	-	-	2	*	-
Shinele Zone	15	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shinele	15	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jijiga Zone	38	26	7	-	-	-	-	-	-	*	-	-	-	2	-	-
Jijiga	25	18	7	-	-	-	-	-	-	-	-	-	-	-	-	-
Teferi Ber	9	*	-	-	-	-	-	-	-	*	-	-	-	2	-	-
Kebri Beyah	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	11	-	-	-	-	-	-	*	-	*	-	-	-	-	*	-
Filtu	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	11	-	-	-	-	-	-	*	-	*	-	-	-	-	*	-

TABLE 6.33: 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
Somali Killil	8971	5878	1939	71	180	70	252	193	80	130	74	*	*	-	46	11
Shinele Zone	1895	1583	158	-	*	*	57	*	*	-	*	-	*	-	-	-
Shinele	184	147	*	-	-	*	-	-	-	-	-	-	-	-	-	-
Erer	1711	1436	123	-	*	*	57	*	*	-	*	-	*	-	-	-
Jijiga Zone	3657	2666	695	8	*	7	*	*	40	*	*	-	-	-	18	8
Jijiga	3577	2642	692	8	*	7	*	*	40	-	-	-	-	-	15	8
Teferi Ber	*	*	-	-	-	-	-	-	-	*	-	-	-	-	*	-
Kebri Beyah	*	-	*	-	-	-	-	-	-	-	*	-	-	-	-	-
Liben Zone	3418	1629	1087	63	*	*	150	111	*	*	*	*	*	-	28	*
Filtu	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	2908	1479	889	*	*	*	150	98	*	18	*	*	*	-	15	*
Moyale	456	118	187	*	-	*	-	*	-	*	-	*	-	-	*	-

TABLE 6.33.1: 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
Somali Killil	8551	5708	1868	60	180	*	235	175	*	*	74	*	*	-	*	-
Shinele Zone	1850	1547	151	-	*	*	57	*	*	-	*	-	*	-	-	-
Shinele	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	1711	1436	123	-	*	*	57	*	*	-	*	-	*	-	-	-
Jijiga Zone	3511	2609	686	-	*	-	*	*	-	*	*	-	-	-	-	-
Jijiga	3442	2591	686	-	*	-	*	*	-	-	-	-	-	-	-	-
Teferi Ber	*	*	-	-	-	-	-	-	-	*	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-	-	*	-	-	-	-	-
Liben Zone	3190	1551	1032	60	*	*	133	92	*	*	*	*	-	-	*	-
Filtu	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	2680	1401	834	*	*	*	133	79	*	*	*	-	-	-	-	-
Moyale	456	118	187	*	-	*	-	*	-	*	-	*	-	-	*	-

TABLE 6.33.2: RURAL MEHER

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
Somali Killil	8290	5617	1770	60	150	*	235	175	*	*	74	*	*	-	*	-
Shinele Zone	1833	1530	151	-	*	*	57	*	*	-	*	-	*	-	-	-
Shinele	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	1694	1418	123	-	*	*	57	*	*	-	*	-	*	-	-	-
Jijiga Zone	3441	2609	646	-	*	-	*	*	-	*	*	-	-	-	-	-
Jijiga	3372	2591	646	-	*	-	*	*	-	-	-	-	-	-	-	-
Teferi Ber	*	*	-	-	-	-	-	-	-	*	-	-	-	-	-	-
Kebri Beyah	*	-	-	-	-	-	-	-	-	-	*	-	-	-	-	-
Liben Zone	3016	1477	973	60	*	*	133	92	*	*	*	*	-	-	*	-
Filtu	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	2544	1327	795	*	*	*	133	79	*	*	*	-	-	-	-	-
Moyale	418	118	167	*	-	*	-	*	-	*	-	*	-	-	*	-

TABLE 6.33.3: RURAL BELG

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
Somali Killil	1808	1210	317	*	*	*	74	*	*	*	*	-	-	-	-	-
Shinele Zone	657	551	58	-	-	-	38	-	-	-	*	-	-	-	-	-
Shinele	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	559	475	37	-	-	-	38	-	-	-	*	-	-	-	-	-
Jijiga Zone	*	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-
Jijiga	*	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	846	424	219	*	*	*	*	*	*	*	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	763	404	174	*	*	*	*	*	*	-	-	-	-	-	-	-
Moyale	*	*	*	-	-	-	-	-	-	*	-	-	-	-	-	-

TABLE 6.33.4: URBAN HOLDINGS

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
Somali Killil	420	170	71	11	-	24	17	18	40	15	-	*	*	-	33	11
Shinele Zone	45	35	7	-	-	*	-	-	-	-	-	-	-	-	-	-
Shinele	45	35	7	-	-	*	-	-	-	-	-	-	-	-	-	-
Jijiga Zone	147	57	9	8	-	7	-	-	40	-	-	-	-	-	18	8
Jijiga	135	51	6	8	-	7	-	-	40	-	-	-	-	-	15	8
Teferi Ber	8	6	-	-	-	-	-	-	-	-	-	-	-	-	*	-
Kebri Beyah	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	228	78	55	*	-	14	17	18	-	15	-	*	*	-	15	*
Filtu	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	228	78	55	*	-	14	17	18	-	15	-	*	*	-	15	*

TABLE 6.34: APPLICATION OF FERTILIZERS BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE 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
Somali Killil	17329	12026	4121	*	137	166	83	304	63	150	99	*	33	-	69	*
Shinele Zone	848	723	57	-	-	-	33	*	*	-	-	-	*	-	-	-
Shinele	138	120	19	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	710	604	38	-	-	-	33	*	*	-	-	-	*	-	-	-
Jijiga Zone	14302	10490	3220	-	*	*	*	194	47	*	*	*	19	-	55	-
Jijiga	10176	7358	2364	-	*	*	-	184	40	*	*	-	6	-	8	-
Teferi Ber	1463	1272	*	-	-	-	*	9	7	*	9	*	13	-	*	-
Kebri Beyah	2664	1859	779	-	-	-	-	-	-	-	*	-	-	-	-	-
Liben Zone	2179	813	844	*	*	49	*	97	*	118	*	*	*	-	*	*
Filtu	281	101	180	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	389	149	114	-	*	*	*	*	-	*	*	-	*	-	*	*
Moyale	1509	562	550	*	*	*	*	60	*	111	*	*	-	-	*	-

TABLE 6.34.1: RURAL 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
Somali Killil	16821	11824	4006	*	137	151	70	282	*	141	*	*	*	-	*	-
Shinele Zone	788	675	45	-	-	-	33	*	*	-	-	-	*	-	-	-
Shinele	78	72	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	710	604	38	-	-	-	33	*	*	-	-	-	*	-	-	-
Jijiga Zone	13925	10353	3133	-	*	*	*	180	-	*	*	-	-	-	*	-
Jijiga	9957	7277	2304	-	*	*	-	180	-	*	*	-	-	-	-	-
Teferi Ber	1325	1219	*	-	-	-	*	-	-	-	-	-	-	-	*	-
Kebri Beyah	2643	1856	761	-	-	-	-	-	-	-	*	-	-	-	-	-
Liben Zone	2108	796	828	*	*	*	*	89	*	111	*	*	-	-	*	-
Filtu	281	101	180	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	319	133	*	-	*	-	-	*	-	-	*	-	-	-	-	-
Moyale	1509	562	550	*	*	*	*	60	*	111	*	*	-	-	*	-

TABLE 6.34.2: RURAL MEHER

Geographic Area	Holders Applying Fertilizer															
		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
Somali Killil	15582	11062	3691	*	*	151	51	259	*	*	*	*	*	-	*	-
Shinele Zone	754	640	45	-	-	-	33	*	*	-	-	-	*	-	-	-
Shinele	78	72	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	675	569	38	-	-	-	33	*	*	-	-	-	*	-	-	-
Jijiga Zone	13434	9862	3133	-	*	*	*	180	-	*	*	-	-	-	*	-
Jijiga	9709	7029	2304	-	*	*	-	180	-	*	*	-	-	-	-	-
Teferi Ber	*	*	*	-	-	-	*	-	-	-	-	-	-	-	*	-
Kebri Beyah	2643	1856	761	-	-	-	-	-	-	-	*	-	-	-	-	-
Liben Zone	1395	560	513	*	*	*	*	*	*	*	*	*	-	-	*	-
Filtu	127	*	66	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	302	116	*	-	*	-	-	*	-	-	*	-	-	-	-	-
Moyale	966	382	348	*	*	*	*	*	*	*	*	*	-	-	*	-

TABLE 6.34.3: 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
Somali Killil	1697	963	483	*	*	*	*	*	-	*	-	*	-	-	-	-
Shinele Zone	100	88	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	100	88	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Jijiga Zone	*	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-
Jijiga	*	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-
Teferi Ber	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	1036	384	443	*	*	*	*	*	-	*	-	*	-	-	-	-
Filtu	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Moyale	841	308	325	*	*	*	*	*	-	*	-	*	-	-	-	-

TABLE 6.34.4: 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
Somali Killil	508	202	115	-	-	15	13	21	47	9	17	*	22	-	37	*
Shinele Zone	60	48	12	-	-	-	-	-	-	-	-	-	-	-	-	-
Shinele	60	48	12	-	-	-	-	-	-	-	-	-	-	-	-	-
Jijiga Zone	378	138	87	-	-	12	*	13	47	*	17	*	19	-	30	-
Jijiga	219	81	60	-	-	12	-	*	40	-	8	-	6	-	8	-
Teferi Ber	138	53	9	-	-	-	*	9	7	*	9	*	13	-	22	-
Kebri Beyah	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	70	16	*	-	-	*	*	*	-	*	-	-	*	-	*	*
Filtu	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	70	16	*	-	-	*	*	*	-	*	-	-	*	-	*	*

TABLE 6.35: 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
Somali Killil	678	359	220	-	-	*	*	*	-	*	*	*	-	-	8	-
Shinele Zone	32	*	17	-	-	-	-	*	-	-	-	-	-	-	-	-
Shinele	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	30	-	17	-	-	-	-	*	-	-	-	-	-	-	-	-
Jijiga Zone	461	295	162	-	-	-	-	-	-	-	-	-	-	-	*	-
Jijiga	311	153	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Teferi Ber	87	*	4	-	-	-	-	-	-	-	-	-	-	-	*	-
Kebri Beyah	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	185	62	*	-	-	*	*	*	-	*	*	*	-	-	*	-
Filtu	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	103	*	*	-	-	*	*	*	-	*	*	*	-	-	*	-
Moyale	*	*	-	-	-	-	-	-	-	*	-	*	-	-	-	-

TABLE 6.35.1: 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
Somali Killil	588	333	189	-	-	-	-	*	-	*	-	*	-	-	-	-
Shinele Zone	30	-	17	-	-	-	-	*	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	30	-	17	-	-	-	-	*	-	-	-	-	-	-	-	-
Jijiga Zone	419	281	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Jijiga	284	145	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Teferi Ber	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	139	*	*	-	-	-	-	-	-	*	-	*	-	-	-	-
Filtu	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Moyale	*	*	-	-	-	-	-	-	-	*	-	*	-	-	-	-

TABLE 6.35.2: RURAL MEHER

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
Somali Killil	549	302	186	-	-	-	-	*	-	*	-	-	-	-	-	-
Shinele Zone	30	-	17	-	-	-	-	*	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	30	-	17	-	-	-	-	*	-	-	-	-	-	-	-	-
Jijiga Zone	389	250	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Jijiga	284	145	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Teferi Ber	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	131	*	*	-	-	-	-	-	-	*	-	-	-	-	-	-
Filtu	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Moyale	*	*	-	-	-	-	-	-	-	*	-	-	-	-	-	-

TABLE 6.35.3: 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
Somali Killil	90	26	31	-	-	*	*	*	-	*	*	*	-	-	8	-
Shinele Zone	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shinele	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jijiga Zone	42	14	23	-	-	-	-	-	-	-	-	-	-	-	*	-
Jijiga	28	8	19	-	-	-	-	-	-	-	-	-	-	-	-	-
Teferi Ber	14	6	4	-	-	-	-	-	-	-	-	-	-	-	*	-
Kebri Beyah	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	46	10	*	-	-	*	*	*	-	*	*	*	-	-	*	-
Filtu	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	45	10	*	-	-	*	*	*	-	*	*	*	-	-	*	-

TABLE 6.36: 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
Somali Killil	1468	1021	334	*	-	*	-	*	*	-	*	-	-	-	-	-
Shinele Zone	114	88	*	-	-	-	-	-	-	-	*	-	-	-	-	-
Shinele	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	108	82	*	-	-	-	-	-	-	-	*	-	-	-	-	-
Jijiga Zone	1205	822	297	*	-	*	-	*	-	-	-	-	-	-	-	-
Jijiga	575	355	*	-	-	*	-	*	-	-	-	-	-	-	-	-
Teferi Ber	547	443	104	-	-	-	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	82	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	149	110	*	*	-	-	-	-	*	-	-	-	-	-	-	-
Filtu	*	11	-	*	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	62	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Moyale	*	*	-	-	-	-	-	-	*	-	-	-	-	-	-	-

TABLE 6.36.1: 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
Somali Killil	1346	937	314	*	-	*	-	*	-	-	-	-	-	-	-	-
Shinele Zone	97	80	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Shinele	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	90	73	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Jijiga Zone	1184	822	276	*	-	*	-	*	-	-	-	-	-	-	-	-
Jijiga	575	355	*	-	-	*	-	*	-	-	-	-	-	-	-	-
Teferi Ber	547	443	104	-	-	-	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	61	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	65	35	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Filtu	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.36.3: RURAL BELG

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
Somali Killil	121	*	*	-	-	-	-	-	*	-	*	-	-	-	-	-
Shinele Zone	*	*	-	-	-	-	-	-	-	-	*	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erer	*	*	-	-	-	-	-	-	-	-	*	-	-	-	-	-
Jijiga Zone	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Liben Zone	*	*	-	-	-	-	-	-	*	-	-	-	-	-	-	-
Filtu	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Moyale	*	*	-	-	-	-	-	-	*	-	-	-	-	-	-	-

TABLE 6.37: 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
Somali Killil	19308	46	1899	4736	7216	4901	460	*
Shinele Zone	248	1	83	100	64	-	-	-
Shinele	31	*	14	*	*	-	-	-
Erer	218	1	70	95	53	-	-	-
Jijiga Zone	17630	12	1500	4205	6764	4697	401	*
Jijiga	7756	7	505	1644	3077	2379	*	-
Teferi Ber	5472	4	604	1452	2045	1283	*	-
Kebri Beyah	4402	*	390	1109	1643	1036	*	*
Liben Zone	1429	33	315	431	388	204	*	-
Filtu	616	*	150	200	210	*	-	-
Dolo Odo	407	*	89	136	89	38	*	-
Moyale	407	12	76	94	88	130	*	-

TABLE 6.37.1: RURAL 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
Somali Killil	18953	25	1822	4625	7128	4846	457	*
Shinele Zone	228	1	77	93	57	-	-	-
Shinele	29	*	12	*	*	-	-	-
Erer	199	1	65	88	46	-	-	-
Jijiga Zone	17581	12	1489	4184	6748	4697	401	*
Jijiga	7756	7	505	1644	3077	2379	*	-
Teferi Ber	5423	4	593	1431	2028	1283	*	-
Kebri Beyah	4402	*	390	1109	1643	1036	*	*
Liben Zone	1144	12	257	348	323	148	*	-
Filtu	568	*	147	181	201	*	-	-
Dolo Odo	352	*	60	122	79	37	*	-
Moyale	224	8	49	44	43	76	*	-

TABLE 6.37.2: RURAL 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
Somali Killil	355	17	151	97	76	*	-	-
Shinele Zone	21	2	14	4	-	-	-	-
Shinele	*	*	*	-	-	-	-	-
Erer	19	2	13	4	-	-	-	-
Jijiga Zone	*	-	*	*	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-
Teferi Ber	*	-	*	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	285	15	112	68	76	*	-	-
Filtu	*	-	*	*	*	-	-	-
Dolo Odo	55	7	37	*	*	-	-	-
Moyale	183	8	57	52	52	*	-	-

TABLE 6.38: 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
Somali Killil	6624	*	471	1490	2570	1885	*	-
Shinele Zone	112	*	30	49	33	-	-	-
Shinele	*	-	*	*	-	-	-	-
Erer	110	*	29	48	33	-	-	-
Jijiga Zone	6213	2	371	1337	2464	1855	*	-
Jijiga	4674	*	273	883	1768	1605	*	-
Teferi Ber	1327	*	89	399	594	204	*	-
Kebri Beyah	211	-	*	54	102	*	-	-
Liben Zone	299	*	70	104	73	30	*	-
Filtu	*	*	*	32	*	-	-	-
Dolo Odo	151	*	49	49	35	*	*	-
Moyale	81	*	15	23	24	17	-	-

TABLE 6.38.1: RURAL 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
Somali Killil	6443	3	435	1419	2529	1868	*	-
Shinele Zone	99	*	26	44	29	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	99	*	26	44	29	-	-	-
Jijiga Zone	6179	2	369	1316	2452	1855	*	-
Jijiga	4674	*	273	883	1768	1605	*	-
Teferi Ber	1293	*	87	379	582	204	*	-
Kebri Beyah	211	-	*	54	102	*	-	-
Liben Zone	165	*	40	59	48	*	*	-
Filtu	25	-	*	*	*	-	-	-
Dolo Odo	123	*	31	39	34	*	*	-
Moyale	18	*	5	5	*	*	-	-

TABLE 6.38.2: RURAL 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
Somali Killil	181	9	98	39	36	-	-	-
Shinele Zone	13	1	9	3	-	-	-	-
Shinele	*	*	*	-	-	-	-	-
Erer	11	1	8	3	-	-	-	-
Jijiga Zone	*	-	*	*	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-
Teferi Ber	*	-	*	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	134	8	72	18	36	-	-	-
Filtu	*	-	*	*	*	-	-	-
Dolo Odo	28	*	24	*	-	-	-	-
Moyale	64	*	32	*	17	-	-	-

TABLE 6.39: 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
Somali Killil	604	4	83	181	226	*	*	-
Shinele Zone	9	-	6	3	*	-	-	-
Shinele	*	-	*	-	-	-	-	-
Erer	7	-	4	3	*	-	-	-
Jijiga Zone	476	*	29	*	201	*	*	-
Jijiga	*	*	*	*	*	-	-	-
Teferi Ber	*	*	4	*	*	*	*	-
Kebri Beyah	*	-	*	*	-	-	-	-
Liben Zone	119	*	48	24	25	*	*	-
Filtu	*	-	*	*	*	-	-	-
Dolo Odo	*	*	*	*	*	-	-	-
Moyale	52	*	*	*	*	*	*	-

TABLE 6.39.1: RURAL 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
Somali Killil	552	*	73	172	216	*	*	-
Shinele Zone	7	-	5	2	*	-	-	-
Shinele	*	-	*	-	-	-	-	-
Erer	6	-	4	2	*	-	-	-
Jijiga Zone	476	*	29	*	201	*	*	-
Jijiga	*	*	*	*	*	-	-	-
Teferi Ber	*	*	4	*	*	*	*	-
Kebri Beyah	*	-	*	*	-	-	-	-
Liben Zone	69	*	*	*	15	-	-	-
Filtu	*	-	*	*	*	-	-	-
Dolo Odo	*	-	*	*	-	-	-	-
Moyale	*	*	*	*	*	-	-	-

TABLE 6.39.2: RURAL 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
Somali Killil	51	2	16	*	*	*	-	-
Shinele Zone	2	*	*	-	-	-	-	-
Shinele	*	*	-	-	-	-	-	-
Erer	*	*	*	-	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	*	2	15	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	-	-	-	-	-
Moyale	*	*	*	*	*	*	-	-

TABLE 6.40: 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
Somali Killil	356	*	74	105	162	*	-	-
Shinele Zone	11	-	5	3	2	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	11	-	5	3	2	-	-	-
Jijiga Zone	155	-	14	74	63	*	-	-
Jijiga	*	-	14	*	*	*	-	-
Teferi Ber	*	-	-	*	-	-	-	-
Kebri Beyah	*	-	-	*	*	*	-	-
Liben Zone	*	*	*	*	*	*	-	-
Filtu	*	*	*	*	*	-	-	-
Dolo Odo	*	-	*	*	*	*	-	-
Moyale	22	*	*	*	*	*	-	-

TABLE 6.40.1: RURAL 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
Somali Killil	339	*	72	100	158	*	-	-
Shinele Zone	8	-	4	*	2	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	8	-	4	*	2	-	-	-
Jijiga Zone	155	-	14	74	63	*	-	-
Jijiga	*	-	14	*	*	*	-	-
Teferi Ber	*	-	-	*	-	-	-	-
Kebri Beyah	*	-	-	*	*	*	-	-
Liben Zone	*	*	*	*	*	*	-	-
Filtu	*	*	*	*	*	-	-	-
Dolo Odo	*	-	*	*	-	-	-	-
Moyale	13	*	*	*	*	*	-	-

TABLE 6.40.2: RURAL 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
Somali Killil	17	*	6	*	*	-	-	-
Shinele Zone	2	*	2	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	2	*	2	-	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	15	-	5	*	*	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	-	*	*	*	-	-	-
Moyale	*	-	3	*	*	-	-	-

TABLE 6.41: 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
Somali Killil	86	*	*	40	17	*	-	-
Shinele Zone	9	-	4	*	*	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	9	-	4	*	*	-	-	-
Jijiga Zone	*	-	*	*	*	-	-	-
Jijiga	*	-	*	*	*	-	-	-
Teferi Ber	*	-	-	*	*	-	-	-
Kebri Beyah	*	-	-	*	-	-	-	-
Liben Zone	*	*	*	*	*	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	-	*	-	-
Moyale	*	*	*	*	*	*	-	-

TABLE 6.41.1: RURAL 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
Somali Killil	60	-	*	33	*	*	-	-
Shinele Zone	9	-	4	*	*	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	9	-	4	*	*	-	-	-
Jijiga Zone	*	-	*	*	*	-	-	-
Jijiga	*	-	*	*	*	-	-	-
Teferi Ber	*	-	-	*	*	-	-	-
Kebri Beyah	*	-	-	*	-	-	-	-
Liben Zone	*	-	-	*	-	*	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	*	-	*	-	-
Moyale	-	-	-	-	-	-	-	-

TABLE 6.42: 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
Somali Killil	249	*	45	54	*	*	-	-
Shinele Zone	45	*	16	18	10	-	-	-
Shinele	*	-	*	-	-	-	-	-
Erer	44	*	15	18	10	-	-	-
Jijiga Zone	*	-	*	17	*	*	-	-
Jijiga	*	-	*	17	*	*	-	-
Teferi Ber	*	-	-	-	*	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	44	*	14	*	*	*	-	-
Filtu	*	-	-	-	*	-	-	-
Dolo Odo	35	*	14	*	*	*	-	-
Moyale	*	*	*	*	*	-	-	-

TABLE 6.42.1: RURAL 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
Somali Killil	243	*	45	52	*	*	-	-
Shinele Zone	42	*	16	18	8	-	-	-
Shinele	*	-	*	-	-	-	-	-
Erer	42	*	15	18	8	-	-	-
Jijiga Zone	*	-	*	17	*	*	-	-
Jijiga	*	-	*	17	*	*	-	-
Teferi Ber	*	-	-	-	*	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	41	*	14	*	*	*	-	-
Filtu	*	-	-	-	*	-	-	-
Dolo Odo	32	*	14	*	*	*	-	-
Moyale	*	*	*	-	*	-	-	-

TABLE 6.42.2: RURAL 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
Somali Killil	6	*	2	*	-	-	-	-
Shinele Zone	3	*	2	*	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	3	*	2	*	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	-	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	*	*	-	-	-	-	-
Moyale	*	-	*	*	-	-	-	-

TABLE 6.43: CROP AREA (HECTARES) DAMAGED BY INSECTS AND PESTS AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Insects 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
Somali Killil	405	*	*	*	*	*	-	-
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-
Jijiga Zone	402	-	*	*	*	*	-	-
Jijiga	401	-	*	*	*	*	-	-
Teferi Ber	*	-	-	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	*	*	*	*	*	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	-	*	-	*	-	-	-
Moyale	*	*	-	*	-	-	-	-

TABLE 6.43.1: RURAL MEHER

Geographic Area	Area Damaged by Insects 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
Somali Killil	404	*	*	*	*	*	-	-
Shinele Zone	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-	-
Jijiga Zone	402	-	*	*	*	*	-	-
Jijiga	401	-	*	*	*	*	-	-
Teferi Ber	*	-	-	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	*	*	-	*	*	-	-	-
Filtu	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	-	*	-	-	-
Moyale	*	*	-	*	-	-	-	-

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
Somali Killil	10860	20	1188	2753	3924	2684	*	*
Shinele Zone	63	*	23	24	16	-	-	-
Shinele	27	*	*	*	*	-	-	-
Erer	36	*	12	19	*	-	-	-
Jijiga Zone	10071	8	1039	2491	3738	2555	*	*
Jijiga	2021	*	153	463	847	553	-	-
Teferi Ber	3921	*	509	1016	1362	1015	*	-
Kebri Beyah	4128	*	377	1012	1529	987	*	*
Liben Zone	726	11	127	237	170	128	*	-
Filtu	321	*	63	131	*	*	-	-
Dolo Odo	187	*	17	57	45	20	*	-
Moyale	218	7	47	49	38	73	*	-

TABLE 6.44.1: RURAL 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
Somali Killil	10798	18	1162	2738	3907	2682	*	*
Shinele Zone	62	*	22	23	16	-	-	-
Shinele	27	*	*	*	*	-	-	-
Erer	35	*	12	19	*	-	-	-
Jijiga Zone	10057	8	1028	2491	3734	2555	*	*
Jijiga	2021	*	153	463	847	553	-	-
Teferi Ber	3907	*	499	1016	1358	1015	*	-
Kebri Beyah	4128	*	377	1012	1529	987	*	*
Liben Zone	679	9	111	223	157	127	*	-
Filtu	318	*	62	131	*	*	-	-
Dolo Odo	181	*	15	56	*	20	*	-
Moyale	180	7	34	36	28	72	*	-

TABLE 6.44.2: RURAL 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
Somali Killil	62	*	25	26	*	-	-	-
Shinele Zone	*	*	*	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	*	*	*	-	-	-	-	-
Jijiga Zone	*	-	*	*	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-
Teferi Ber	*	-	*	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	47	*	*	20	*	-	-	-
Filtu	*	-	*	*	-	-	-	-
Dolo Odo	6	*	*	*	-	-	-	-
Moyale	*	*	*	*	*	-	-	-

TABLE 6.45: CROP AREA (HECTARES) DAMAGED BY OTHER CAUSES 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
Somali Killil	21	*	1	6	*	*	-	-
Shinele Zone	*	-	-	*	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	*	-	-	*	-	-	-	-
Jijiga Zone	10	-	-	*	*	*	-	-
Jijiga	*	-	-	*	*	-	-	-
Teferi Ber	*	-	-	*	*	*	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	10	*	1	*	*	*	-	-
Filtu	*	-	*	*	-	-	-	-
Dolo Odo	*	-	*	*	*	-	-	-
Moyale	*	*	*	*	*	*	-	-

TABLE 6.45.1: RURAL MEHER

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
Somali Killil								
Shinele Zone								
Shinele								
Erer	*	-	*	5	22	24	*	*
Jijiga Zone	46	-	*	*	*	*	*	-
Jijiga	-	-	-	-	-	-	-	-
Teferi Ber	*	-	*	*	*	*	*	-
Kebri Beyah	*	-	-	*	*	*	-	-
Liben Zone	*	-	*	*	9	*	-	*
Filtu	*	-	-	*	-	-	-	*
Dolo Odo	*	-	-	-	-	*	-	-
Moyale	15	-	*	*	9	5	-	-

TABLE 6.45.2: RURAL 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
Somali Killil	12	*	1	4	*	*	-	-
Shinele Zone	*	-	*	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-
Erer	*	-	*	-	-	-	-	-
Jijiga Zone	*	-	-	*	-	-	-	-
Jijiga	-	-	-	-	-	-	-	-
Teferi Ber	*	-	-	*	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-	-
Liben Zone	10	*	1	3	*	*	-	-
Filtu	*	-	*	*	*	-	-	-
Dolo Odo	*	-	*	-	*	-	-	-
Moyale	*	*	1	*	*	*	-	-

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
Somali Killil	8624	6774	461	*
Shinele Zone	2015	1777	25	-
Shinele	345	*	-	-
Erer	1669	1638	25	-
Jijiga Zone	2969	*	261	*
Jijiga	*	*	*	*
Teferi Ber	86	*	*	-
Kebri Beyah	161	*	148	-
Liben Zone	3641	3403	176	*
Filtu	*	*	*	-
Dolo Odo	3409	3394	*	-
Moyale	146	-	91	*

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
Somali Killil	45034	4141
Shinele Zone	785	129
Shinele	*	-
Erer	634	129
Jijiga Zone	41724	3342
Jijiga	30194	3152
Teferi Ber	8425	*
Kebri Beyah	3105	*
Liben Zone	2525	670
Filtu	412	69
Dolo Odo	951	*
Moyale	1163	*

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
Somali Killil	10247	1154	34203	32818	*	32	2333
Shinele Zone	443	221	770	710	*	32	300
Shinele	331	-	*	*	-	-	51
Erer	113	221	728	646	*	32	249
Jijiga Zone	5097	*	32432	29277	*	-	1928
Jijiga	811	*	24897	9562	*	-	608
Teferi Ber	3520	*	2937	12325	-	-	*
Kebri Beyah	767	*	4599	7390	*	-	577
Liben Zone	4707	*	1001	2831	*	-	105
Filtu	1432	-	154	496	-	-	*
Dolo Odo	1426	*	630	1253	*	-	*
Moyale	1849	*	216	1082	-	-	*

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
Somali Killil	11497	27595	3139	41885	3209
Shinele Zone	584	394	90	1552	*
Shinele	175	*	90	241	*
Erer	409	360	-	1311	*
Jijiga Zone	2232	24300	3049	35839	3160
Jijiga	1200	11590	*	20794	1425
Teferi Ber	*	9429	2238	4453	1226
Kebri Beyah	*	3282	*	10593	509
Liben Zone	8682	2901	-	4493	*
Filtu	811	1966	-	1092	-
Dolo Odo	3098	*	-	1084	-
Moyale	4773	552	-	2318	*

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
Somali Killil	13076	11526	*	14918	190
Shinele Zone	1141	1031	-	225	-
Shinele	229	*	-	*	-
Erer	912	892	-	196	-
Jijiga Zone	10974	9226	*	11152	*
Jijiga	9992	6993	-	5236	-
Teferi Ber	*	2090	*	3231	*
Kebri	*	*	-	2686	*
Liben Zone	961	1268	*	3541	146
Filtu	175	885	*	481	-
Dolo Odo	620	*	*	*	-
Moyale	165	*	-	2648	146

TABLE 6.51: NUMBER OF AGRICULTURAL HOLDERS PRACTICING EXTENSION PACKAGES BY TYPE IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Rain Shortage Areas	Rain Abundant Areas	Post Harvest Technology	Livestock Development	Economically Important Crops	Any two or more packages
Somali Killil	*	*	-	-	*	-
Shinele Zone	32	*	-	-	-	-
Shinele	-	-	-	-	-	-
Erer	32	*	-	-	-	-
Jijiga Zone	*	*	-	-	*	-
Jijiga	*	-	-	-	-	-
Teferi Ber	-	-	-	-	*	-
Kebri Beyah	-	*	-	-	-	-
Liben Zone	*	-	-	-	-	-
Filtu	-	-	-	-	-	-
Dolo Odo	*	-	-	-	-	-
Moyale	-	-	-	-	-	-

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
Somali Killil	9625	12778	724	72433	*	1071
Shinele Zone	291	142	-	3789	-	45
Shinele	*	-	-	1486	-	*
Erer	278	142	-	2304	-	38
Jijiga Zone	4460	12542	724	51914	*	686
Jijiga	*	8530	*	26607	-	520
Teferi Ber	3101	*	-	13349	*	*
Kebri	*	1961	412	11958	-	112
Liben Zone	4874	*	-	16730	*	340
Filtu	1832	-	-	3435	-	*
Dolo Odo	674	*	-	6681	-	286
Moyale	2369	*	-	6614	*	*

TABLE 6.53:NUMBER OF AGRICULTURAL HOLDERS WHO USE SERVICES IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Service Type			
	Credit Service	%	Advisory Service	%
Somali Killil	*	*	459	100.00
Shinele Zone	-	-	49	10.68
Shinele	-	-	-	-
Erer	-	-	49	10.68
Jijiga Zone	*	*	*	*
Jijiga	*	*	*	*
Teferi Ber	*	*	*	*
Kebri	*	*	*	*
Liben Zone	-	-	*	*
Filtu	-	-	*	*
Dolo Odo	-	-	*	*
Moyale	-	-	*	*

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
Somali Killil	364	494	556	*	85427	2402	254.98	219.29
Shinele Zone	32	-	*	*	2562	*	254.98	219.29
Shinele	-	-	*	-	535	*	-	*
Erer	32	-	*	*	2027	*	254.98	219.29
Jijiga Zone	313	361	519	-	67055	500	254.98	219.29
Jijiga	*	283	477	-	34485	388	231.48	219.29
Teferi Ber	*	*	*	-	17833	*	254.98	219.29
Kebri	-	*	-	-	14736	*	-	
Liben Zone	*	134	*	*	15810	1883	240.00	*
Filtu	-	23	*	-	3780	805	*	*
Dolo Odo	*	*	-	*	4459	678	240.00	
Moyale	-	*	-	-	7571	400	-	-

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	%
Somali Killil					
Shinele Zone					
Shinele					
Jijiga Zone	69	-	-	69	100
Jijiga	42	-	-	42	100
Teferi Ber	-	-	-	-	-
Kebri Beyah	42	-	-	42	100
Liben Zone	27	-	-	27	100
Filtu	15	-	-	15	100
Dolo Odo	13	-	-	13	100

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
Somali Killil	1346	473	-	-	*	*	309	64
Shinele Zone	97	16	-	-	-	-	-	-
Shinele	*	*	-	-	-	-	-	-
Erer	90	15	-	-	-	-	-	-
Jijiga Zone	1184	440	-	-	*	*	309	64
Jijiga	575	108	-	-	*	*	*	*
Teferi Ber	547	287	-	-	*	*	*	*
Kebri	61	*	-	-	*	*	*	*
Liben Zone	65	16	-	-	-	-	-	-
Filtu	*	6	-	-	-	-	-	-
Dolo Odo	*	*	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-	-

TABLE 6.56 CONTD.

Geographic Area	Maize		Sorghum		Rice		Field peas	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Somali Killil	833	137	738	214	-	-	-	-
Shinele Zone	*	*	67	14	-	-	-	-
Shinele	*	*	*	*	-	-	-	-
Erer	*	*	61	13	-	-	-	-
Jijiga Zone	765	129	641	196	-	-	-	-
Jijiga	336	*	*	*	-	-	-	-
Teferi Ber	381	82	446	160	-	-	-	-
Kebri	*	*	*	*	-	-	-	-
Liben Zone	*	*	*	*	-	-	-	-
Filtu	*	*	*	*	-	-	-	-
Dolo Odo	*	*	*	*	-	-	-	-
Moyale	-	-	-	-	-	-	-	-

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			Fertilizers Applied			Pesticide Applied		
	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V
TOTAL	68257	5062	7	892	169	19	2615	430	16	7311	1124	15
Grains Crops	59404	5009	8	810	160	20	1695	305	18	5885	980	17
Cereals	57041	4788	8	765	157	21	1631	297	18	5778	977	17
Teff	50	35	71	-	-	-	-	-	-	-	-	-
Barley	6512	1511	23	32	23	74	6	6	99	293	157	54
Wheat	8354	1204	14	114	46	41	75	43	57	815	229	28
Maize	20847	1593	8	381	77	20	854	203	24	2500	535	21
Sorghum	20824	1947	9	233	98	42	697	165	24	2145	450	21
Millet	22	17	78	-	-	-	-	-	-	1	1	93
Oats	433	122	28	7	7	101	-	-	-	24	15	63
Rice	-	-	-	-	-	-	-	-	-	-	-	-
Pulse	1347	180	13	44	15	33	49	22	46	99	22	22
Horse beans	15	9	64	-	-	-	-	-	-	-	-	-
Field peas	86	42	49	1	1	94	-	-	-	1	1	77
Haricot beans	678	86	13	38	14	37	48	22	47	90	21	23
Chick peas	407	131	32	2	1	74	1	1	95	8	8	99
Lentiles	84	31	37	3	2	67	-	-	-	-	-	-
Vetch	20	20	100	-	-	-	-	-	-	-	-	-
Soya	1	1	95	-	-	-	-	-	-	-	-	-
Fenugreek	57	22	39	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-	-	-	-
Oile seed	493	185	38	1	1	101	13	12	94	7	7	92
Nueg	4	4	100	-	-	-	-	-	-	-	-	-
Linseed	445	185	42	-	-	-	-	-	-	-	-	-
Ground nuts	30	20	66	1	1	101	-	-	-	7	7	92
Sunflower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	15	12	82	-	-	-	13	12	94	-	-	-
Rapeseed.	-	-	-	-	-	-	-	-	-	-	-	-
Other Grain	523	206	39	-	-	-	2	2	94	-	-	96
Vegetables.	97	27	28	9	8	84	43	14	32	38	17	46
Lettuce	-	-	102	-	-	-	-	-	-	-	-	102
Cabbage	7	4	55	2	2	101	3	2	64	2	2	98
Kale	3	2	59	-	-	-	-	-	68	-	-	96
Tomatoes	60	24	39	8	8	99	29	11	39	31	17	54
Green pepper	13	6	49	-	-	-	10	6	60	3	2	55
Red paper	7	7	97	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-	-	-	-
Others	6	4	66	-	-	-	-	-	-	2	2	86
Root Crops	697	160	23	15	12	76	88	27	31	48	15	32
Beet root	5	3	69	2	2	101	4	3	71	2	2	99
Carrot	-	-	-	-	-	-	-	-	-	-	-	-
Onion	226	72	32	13	11	89	27	15	55	21	12	56
Potatoes	44	11	26	-	-	-	2	2	68	9	4	47
Garlic	269	99	37	-	-	-	4	4	98	10	6	65
Godere	-	-	-	-	-	-	-	-	-	-	-	-
Sweet potatoes	154	67	44	-	-	69	51	21	42	5	3	63
Others	-	-	-	-	-	-	-	-	-	-	-	-
Permanet crops	8059	695	9	57	42	74	789	142	18	1339	257	19
Fruit Crops	423	93	22	57	42	74	389	92	24	112	44	39
Avocado	-	-	-	-	-	-	-	-	-	-	-	-
Bannas	189	57	30	7	4	54	183	56	31	27	8	29
Guava(Zeytuna)	32	18	55	17	17	99	22	17	75	23	17	78
Lemons	34	5	13	-	-	95	32	4	14	11	3	27
Mangos	40	11	27	3	3	89	34	10	31	6	2	40
Oranges	55	7	14	6	4	72	54	7	14	19	5	28
Papayas	60	28	46	24	21	89	58	28	47	24	21	87
Pineapples	-	-	-	-	-	-	-	-	-	-	-	-
Others	13	7	54	-	-	-	5	1	24	4	2	52
Stimulant Crop	7624	678	9	-	-	-	398	106	27	1227	252	21
Chat	7596	680	9	-	-	-	376	99	26	1225	252	21
Coffee	27	18	65	-	-	-	23	17	77	1	1	63
Gesho.	-	-	102	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	12	8	63	-	-	-	2	1	37	-	-	60
Enset	1	1	75	-	-	-	1	1	75	-	-	-
Sugar Cane	1	-	36	-	-	-	1	-	41	-	-	60
Others	10	8	75	-	-	-	1	-	69	-	-	-

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	1834	96	5	79	9	12	189	43	23	309	41	13
Grains Crops	1750	93	5	74	9	12	160	39	24	277	36	13
Cereals	1684	84	5	73	9	13	119	22	19	239	23	10
Teff	3	1	24	-	-	-	-	-	-	2	-	20
Barley	120	9	7	1	1	79	4	-	9	16	2	14
Wheat	151	11	7	23	2	8	5	-	6	36	3	8
Maize	623	46	7	16	7	46	91	21	23	97	21	21
Sorghum	784	40	5	33	3	10	19	4	19	88	6	6
Millet	-	-	-	-	-	-	-	-	-	-	-	-
Oats	4	2	43	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-	-	-	-
Pulse	57	17	30	-	-	-	34	15	44	30	15	48
Horse beans	-	-	-	-	-	-	-	-	-	-	-	-
Field peas	3	-	14	-	-	-	-	-	-	1	-	5
Haricot beans	45	17	37	-	-	-	34	15	44	29	15	50
Chick peas	9	2	24	-	-	-	-	-	-	-	-	9
Lentiles	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-	-	-	-
Oile seed	8	5	62	1	-	49	7	5	75	8	5	65
Nueg	-	-	-	-	-	-	-	-	-	-	-	-
Linseed	-	-	81	-	-	-	-	-	-	-	-	-
Ground nuts	1	-	44	1	-	49	-	-	-	1	-	44
Sunflower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	7	5	75	-	-	-	7	5	75	7	5	75
Rapeseed.	-	-	-	-	-	-	-	-	-	-	-	-
Other Grain	-	-	-	-	-	-	-	-	-	-	-	-
Vegetables.	10	3	30	-	-	-	7	3	37	2	1	32
Lettuce	1	-	17	-	-	-	1	-	17	-	-	82
Cabbage	-	-	-	-	-	-	-	-	-	-	-	-
Kale	-	-	82	-	-	-	-	-	-	-	-	82
Tomatoes	8	3	37	-	-	-	6	3	46	1	1	42
Green pepper	1	-	22	-	-	-	-	-	21	-	-	23
Red paper	-	-	-	-	-	-	-	-	-	-	-	-
Swiss chard	-	-	50	-	-	-	-	-	50	-	-	-
Others	-	-	79	-	-	-	-	-	-	-	-	-
Root Crops	17	6	33	3	3	78	12	6	47	7	5	67
Beet root	-	-	-	-	-	-	-	-	-	-	-	-
Carrot	-	-	66	-	-	-	-	-	66	-	-	84
Onion	13	6	43	3	3	78	11	5	52	7	5	69
Potatoes	1	-	39	-	-	-	-	-	15	-	-	82
Garlic	1	-	29	-	-	-	-	-	8	-	-	-
Godere	-	-	-	-	-	-	-	-	-	-	-	-
Sweet potatoes	2	-	14	-	-	-	-	-	2	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-
Permanet crops	57	6	10	2	1	58	11	2	15	23	2	11
Fruit Crops	15	4	29	2	1	58	5	2	29	4	1	40
Avocado	-	-	-	-	-	-	-	-	-	-	-	-
Bannas	2	1	47	1	1	84	2	1	47	2	1	56
Guava(Zeytuna)	9	4	45	-	-	8	1	-	30	-	-	68
Lemons	1	-	38	-	-	-	-	-	46	-	-	58
Mangos	2	1	37	-	-	8	2	1	42	1	1	59
Oranges	-	-	-	-	-	-	-	-	-	-	-	-
Papayas	1	-	43	-	-	-	1	-	62	-	-	75
Pineapples	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	8	-	-	-	-	-	8	-	-	9
Stimulant Crop	42	4	9	-	-	-	5	-	8	20	2	10
Chat	40	4	10	-	-	-	3	-	9	18	2	11
Coffee	2	-	6	-	-	-	2	-	6	1	-	9
Gesho	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	1	1	46	-	-	-	-	-	-	-	-	9
Enset	1	1	46	-	-	-	-	-	-	-	-	-
Sugar Cane	-	-	9	-	-	-	-	-	-	-	-	9
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 in rural and urban areas of the settled Weredas of Jijiga, Shinile and Liben Zones of the Somali Region 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 settled Weredas of the region as well as brief discussions made on the results are presented. Also the census results at zonal and wereda levels are provided in Statistical Tables 7.1–7.36. Moreover, the estimates, standard errors (SE) and coefficients of variation (CV) 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 settled areas of the Somali Region was part of the

national census and covered both rural and urban areas of the settled areas of the region on sample basis. However, the census covered only Shinele and Erer weredas from Shinele Zone, Jijiga, Teferi Ber and Kebri Beyah weredas from Jijiga Zone and Filtu, Dolo Odo and Moyale weredas from Liben Zone. 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 in the rural areas of the settled Weredas and the 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 Somali Region[1] are presented in Summary Table VII.1. As shown by the data in the table, the total cattle population for the region is estimated to be 512,320. Out of this total cattle population, the female cattle constitute about 64.9 percent (332,403) and the remaining 35.1 percent (179,917) are male cattle. The majority (96.7 percent) of the cattle population is found in rural areas, while small proportion is accounted for urban areas (3.3 percent).

Regarding age groups, the majority of the cattle population (that is about 58.1 percent) is in the 3 years and under 10 years age category, with about 17.5 percent male and about 40.6 percent female. Moreover, about 40.2 percent are under three years and small portion, which is 1.7 percent, is in 10 years and older category (also see Fig VII.1). On the other hand, according to the results obtained, it can be said that almost no hybrid and exotic breeds are reported in the region and that virtually means all cattle in the region (99.9 percent) are local breeds.

[1] Note :-It should be noticed that the results of Somali Region refer only to the settled areas in the eight Weredas that are found in Shinele, Jijiga and Liben Zone.

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	512,320	100	179,917	35.12	332,403	64.88	495,403	96.70	175,041	34.17	320,362	62.53	16,917	3.30	4,876	0.95	12,041	2.35
Under 6 months	74,173	14.48	34,435	6.72	39,738	7.76	71,296	13.92	33,159	6.47	38,137	7.44	2,877	0.56	1,276	0.25	1,601	0.31
6 months-under 1 year	53,045	10.35	22,813	4.45	30,232	5.90	50,918	9.94	21,799	4.25	29,119	5.68	2,127	0.42	1,014	0.20	1,113	0.22
1 year-under 3 years	78,505	15.32	31,930	6.23	46,574	9.09	76,004	14.84	30,926	6.04	45,078	8.80	2,500	0.49	1,004	0.20	1,496	0.29
3 years-under 10 years	297,719	58.11	89,550	17.48	208,169	40.63	288,436	56.30	88,001	17.18	200,435	39.12	9,283	1.81	1,549	0.30	7,734	1.51
10 years and older	8,879	1.73	1,189	0.23	7,689	1.50	8,748	1.71	1,156	0.23	7,592	1.48	131	0.03	33	0.01	97	0.02
Cattle by Breed																		
Total	512,320	100	179,917	35.12	332,403	64.88	495,403	96.70	175,041	34.17	320,362	62.53	16,917	3.30	4,876	0.95	12,041	2.35
Indigenous	512,195	99.98	179,873	35.11	332,322	64.87	495,278	96.67	174,997	34.16	320,281	62.52	16,917	3.30	4,876	0.95	12,041	2.35
Hybrid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exotic	*	*	*	*	*	*	*	*	*	*	*	*	-	-	-	-	-	-
Aged 3-10 Years by Purpose																		
Total	297,719	100	89,550	30.08	208,169	69.92	288,436	96.88	88,001	29.56	200,435	67.32	9,283	3.12	1,549	0.52	7,734	2.60
Used for Milk	107,305	36.04			107,305	36.04	102,343	34.38			102,343	34.38	4,961	1.67			4,961	1.67
Used for Draught	71,418	23.99	70,024	23.52	1,394	0.47	70,723	23.75	69,332	23.29	1,391	0.47	694	0.23	691	0.23	*	*
Used for Beef	5,770	1.94	4,341	1.46	1,429	0.48	5,562	1.87	4,139	1.39	1,423	0.48	208	0.07	202	0.07	*	*
Used for Breeding	108,647	36.49	13,829	4.64	94,819	31.85	105,337	35.38	13,210	4.44	92,127	30.94	3,310	1.11	619	0.21	2,691	0.90
Used for Other	4,579	1.54	1,356	0.46	3,223	1.08	4,470	1.50	1,319	0.44	3,151	1.06	109	0.04	37	0.01	72	0.02
Dairy Animals																		
Dairy Cows	107,305	100			107,305	100	102,343	95.38			102,343	95.38	4,961	4.62			4,961	4.62
Milking Cows	131,694	100			131,694	100	126,539	96.09			126,539	96.09	5,155	3.91			5,155	3.91

FIGURE VII.1 DISTRIBUTION OF CATTLE BY AGE AND SEX

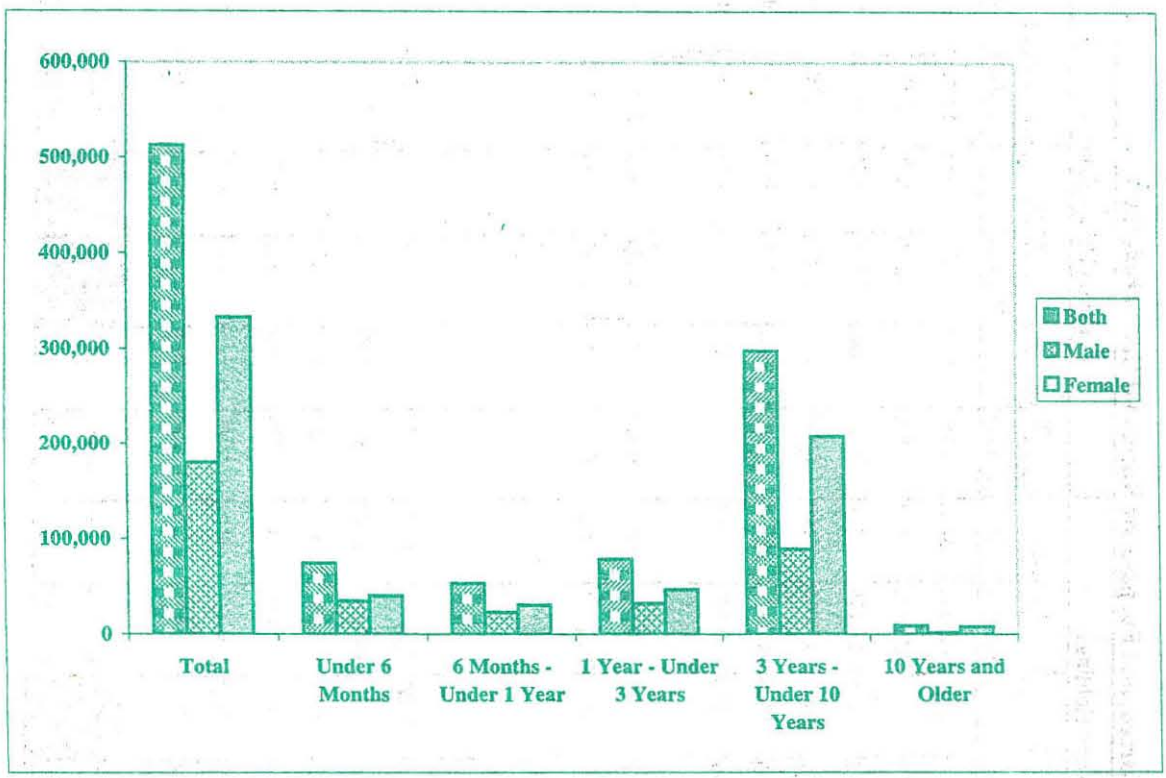
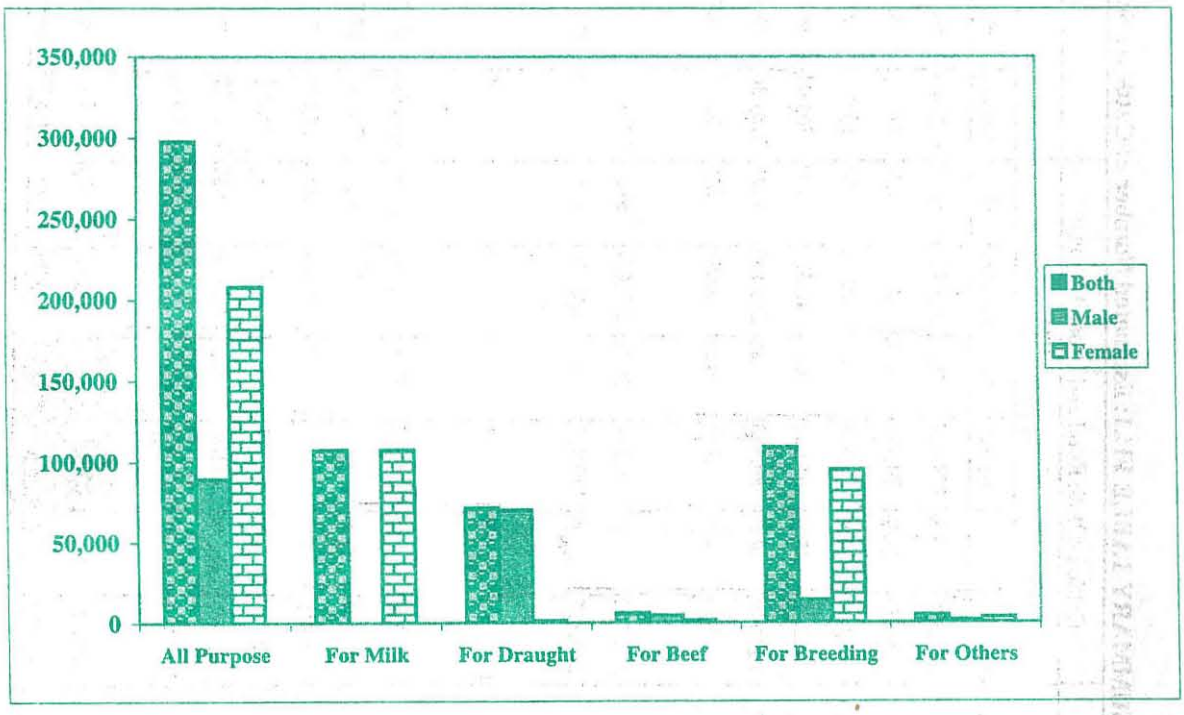


FIGURE VII.2 DISTRIBUTION OF CATTLE AGED 3 AND UNDER 10 YEARS BY PURPOSE AND SEX



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 36 percent and the percentage share of cattle used for beef purposes is the lowest that is about 1.9 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 107,305 and milking-cows[2] are about 131,694 (See Fig. VII.2).

As to zonal level cattle distribution, Jijiga Zone contributes the largest share, 349,921 that is 68.3 percent and the share of Liben Zone is 27.5 percent. 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 454,821 sheep are estimated to be found in the region[3], out of which about 71.3 percent are females, and about 28.7 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 574,561. Out of these total goats, 73 percent are females and 27 percent are males (See Fig. VII.3).

Among these totals reported in the region, 94.7 percent of the sheep and 94.2 percent of the goats are found in the rural areas. Urban areas accounted for only 5.3 percent and 5.8 percent of the sheep and goats, respectively.

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1 A *Dairy Cow refers to a cow that primarily 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).*

3 Note :-It should be noticed that the results of Somali Region refer only to the settled areas in the eight Weredas that are found in Shinele, Jijiga and Liben Zone.

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.....	454,821	100	130,713	28.74	324,108	71.26	430,539	94.66	123,452	27.14	307,087	67.52	24,282	5.34	7,261	1.60	17,021	3.74
Under 6 months	82,571	18.15	38,476	8.46	44,095	9.70	77,760	17.10	36,467	8.02	41,293	9.08	4,812	1.06	2,009	0.44	2,803	0.62
6 months-under 1 year ...	63,907	14.05	23,874	5.25	40,032	8.80	61,079	13.43	22,767	5.01	38,312	8.42	2,827	0.62	1,107	0.24	1,720	0.38
1 year-under 2 years ...	69,443	15.27	23,507	5.17	45,936	10.10	65,881	14.49	22,174	4.88	43,708	9.61	3,562	0.78	1,333	0.29	2,229	0.49
2 years and older	238,900	52.53	44,855	9.86	194,044	42.66	225,819	49.65	42,044	9.24	183,775	40.41	13,081	2.88	2,811	0.62	10,269	2.26
Sheep by Breed																		
Total	454,821	100	130,713	28.74	324,108	71.26	430,539	94.66	123,452	27.14	307,087	67.52	24,282	5.34	7,261	1.60	17,021	3.74
Indigenous	454,821	100	130,713	28.74	324,108	71.26	430,539	94.66	123,452	27.14	307,087	67.52	24,282	5.34	7,261	1.60	17,021	3.74
Hybrid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exotic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sheep Aged 2 Years and Older by Purpose																		
Total	238,900	100	44,855	18.78	194,044	81.22	225,819	94.52	42,044	17.60	183,775	76.93	13,081	5.48	2,811	1.18	10,269	4.30
Used for Mutton	17,114	7.16	14,224	5.95	2,890	1.21	15,724	6.58	13,130	5.50	2,594	1.09	1,390	0.58	1,094	0.46	296	0.12
Used for Wool	2,305	0.96	*	*	2,011	0.84	2,277	0.95	*	*	1,989	0.83	*	*	*	*	*	*
Used for Breeding	218,336	91.39	29,691	12.43	188,645	78.96	206,813	86.57	28,049	11.74	178,764	74.83	11,523	4.82	1,642	0.69	9,881	4.14
Used for Other	1,145	0.48	647	0.27	499	0.21	1,005	0.42	577	0.24	428	0.18	141	0.06	70	0.03	71	0.03
Total Goats	574,561	100	154,986	26.97	419,576	73.03	541,103	94.18	145,473	25.32	395,630	68.86	33,458	5.82	9,512	1.66	23,946	4.17
Under 6 months	119,963	20.88	54,407	9.47	65,556	11.41	113,064	19.68	51,071	8.89	61,993	10.79	6,899	1.20	3,335	0.58	3,563	0.62
6 months-under 1 year ...	76,660	13.34	27,101	4.72	49,559	8.63	72,986	12.70	25,619	4.46	47,368	8.24	3,674	0.64	1,482	0.26	2,192	0.38
1 year-under 2 years	80,672	14.04	23,314	4.06	57,358	9.98	76,323	13.28	22,039	3.84	54,284	9.45	4,349	0.76	1,275	0.22	3,074	0.54
2 years and older	297,266	51.74	50,164	8.73	247,102	43.01	278,729	48.51	46,744	8.14	231,985	40.38	18,537	3.23	3,420	0.60	15,117	2.63
Goats by Breed																		
Total	574,561	100	154,986	26.97	419,576	73.03	541,103	94.18	145,473	25.32	395,630	68.86	33,458	5.82	9,512	1.66	23,946	4.17
Indigenous	574,541	100	154,986	26.97	419,556	73.02	541,083	94.17	145,473	25.32	395,610	68.85	33,458	5.82	9,512	1.66	23,946	4.17
Hybrid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exotic	*	*	-	-	*	*	*	*	-	-	*	*	-	-	-	-	-	-
Goats Aged 2 Years and Older by Purpose																		
Total	297,266	100	50,164	16.88	247,102	83.12	278,729	93.76	46,744	15.72	231,985	78.04	18,537	6.24	3,420	1.15	15,117	5.09
Used for Milk	57,020	19.18			57,020	19.18	53,480	17.99			53,480	17.99	3,540	1.19			3,540	1.19
Used for Meat	18,413	6.19	15,461	5.20	2,952	0.99	17,128	5.76	14,513	4.88	2,615	0.88	1,285	0.43	948	0.32	337	0.11
Used for Breeding ...	219,821	73.95	33,642	11.32	186,179	62.63	206,378	69.43	31,286	10.52	175,092	58.90	13,443	4.52	2,356	0.79	11,087	3.73
Used for Other	2,012	0.68	1,062	0.36	951	0.32	1,744	0.59	945	0.32	798	0.27	269	0.09	116	0.04	*	*

FIGURE VII.3 DISTRIBUTION OF SHEEP AND GOATS BY AGE AND SEX

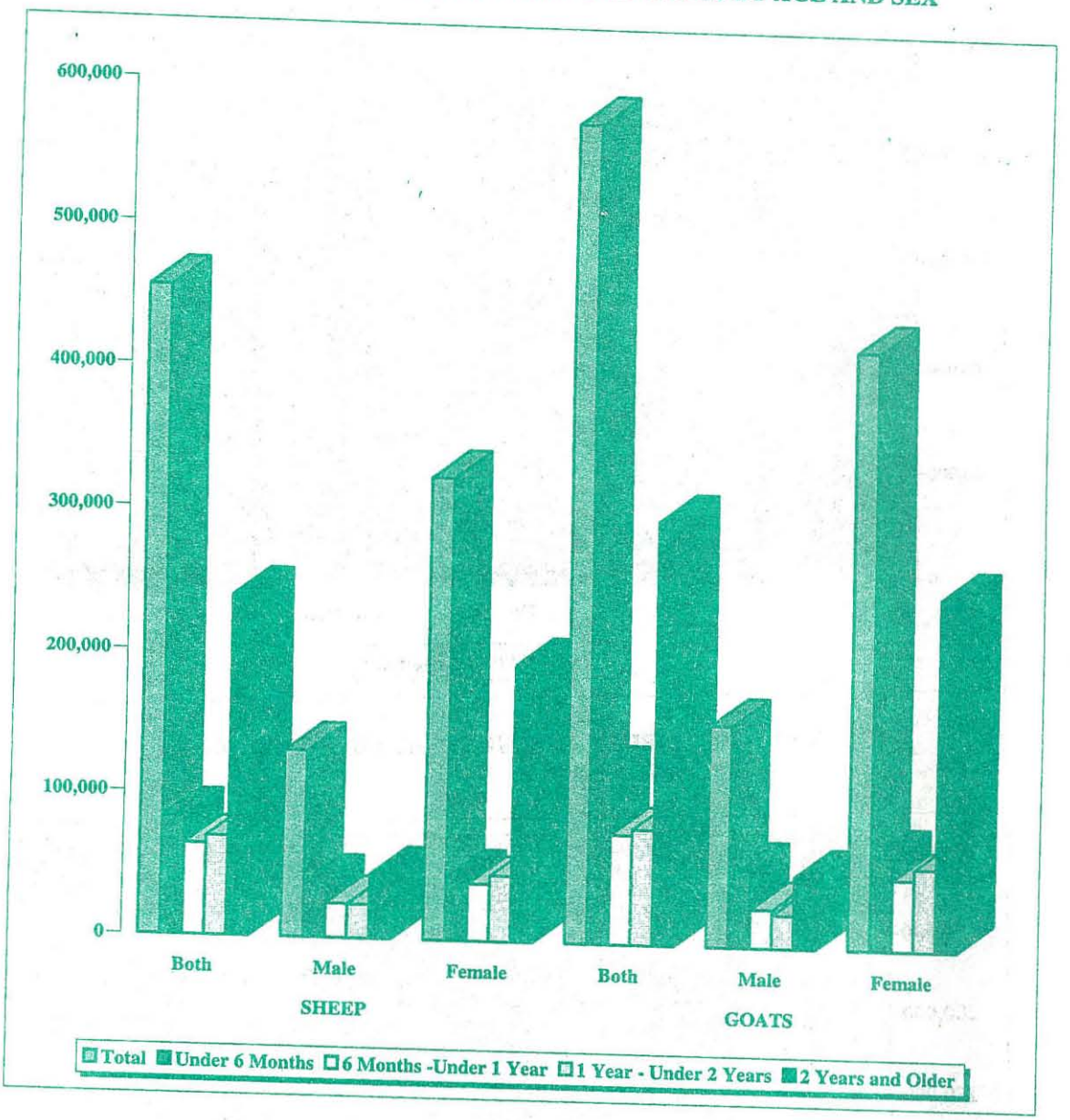


FIGURE VII.4 DISTRIBUTION OF SHEEP BY PURPOSE AND SEX
AGED 2 AND OLDER

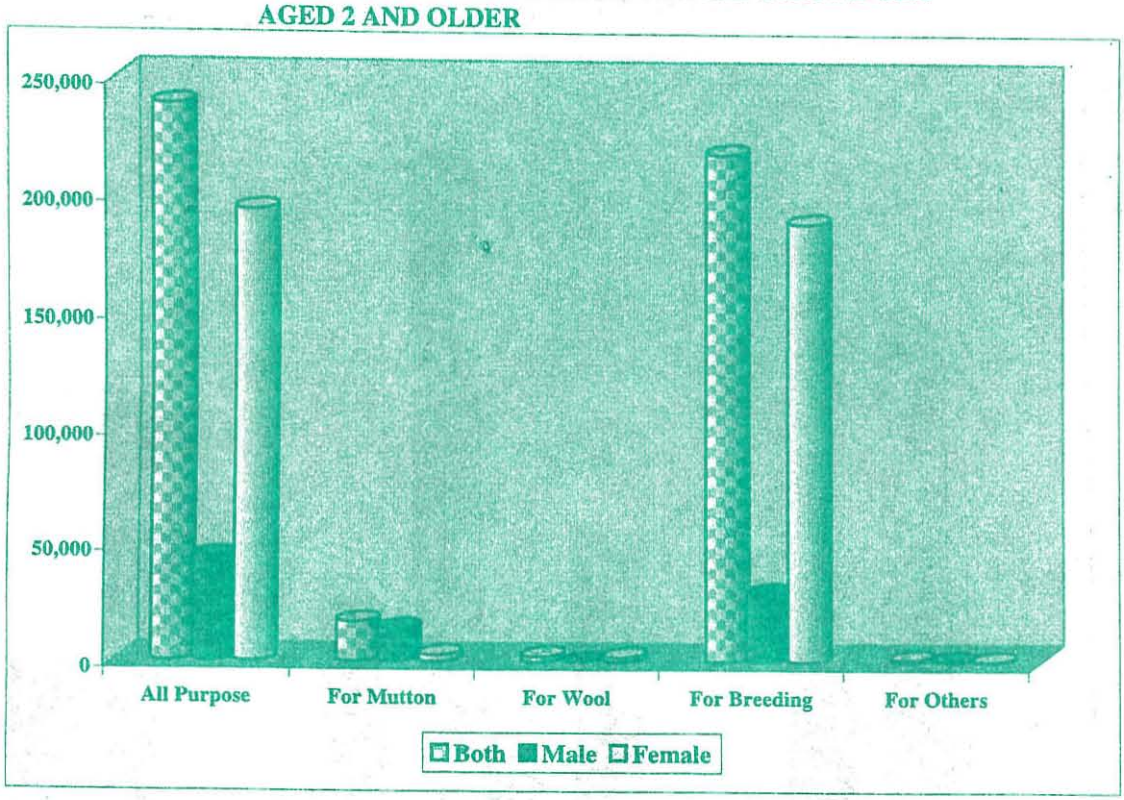
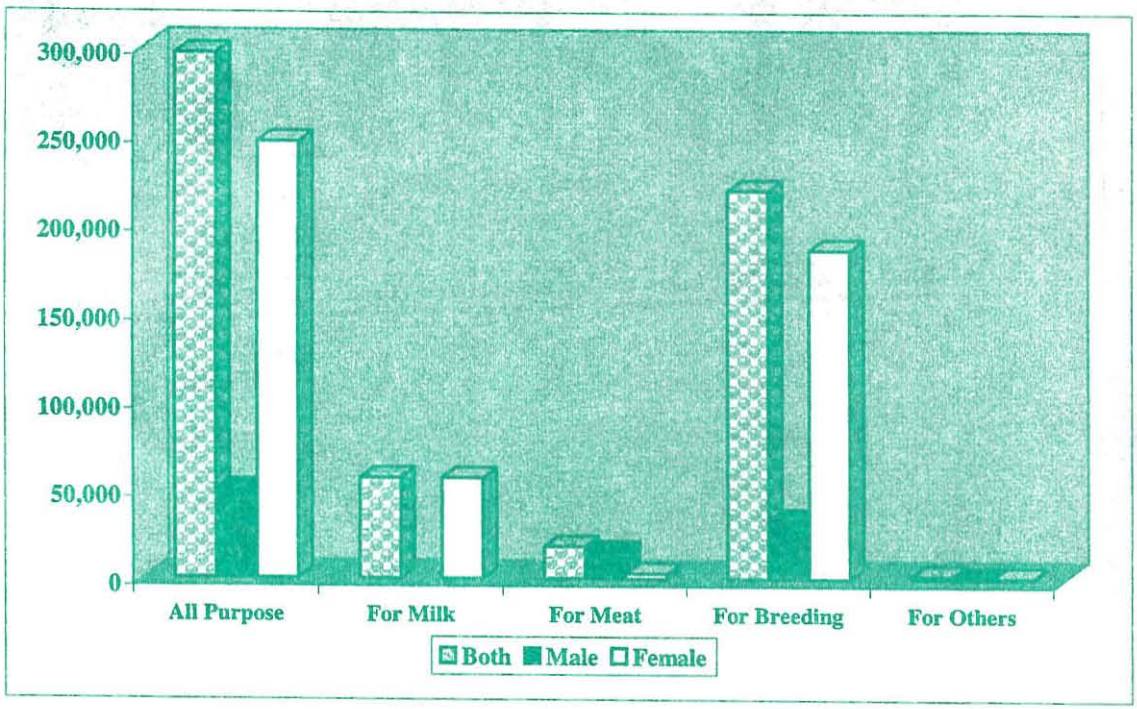


FIGURE VII.5 DISTRIBUTION OF GOATS BY PURPOSE AND SEX
AGED 2 AND OLDER



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 (52.5 percent and 51.7 percent, in that order), followed by the young stock under six months for both sheep and goats, that is 18.2 percent and 20.9 percent, respectively (See Figures VII.3).

With respect to breed, all the sheep and almost all the goats are indigenous. The share of male sheep and male goats are 28.74 percent (130,713) and 27 percent (154,986) while the female sheep and female goats accounted for 71.3 percent (324,108) and 73 percent (419,556), 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. Among the sheep flock two years and older, 218,336 (91.4 percent) were kept for breeding, about 7.2 percent for mutton and 1 percent for wool. Likewise, amid the goats population aged two years and older, goats kept for breeding account for about 74 percent (219,821) while goats kept for meat account for about 6.2 percent only. Moreover, the data reveals that 19.2 percent of the female goats are kept for milk purposes.

The numbers and percentage distributions of sheep and goats by age group at zonal and wereda levels are given in the Statistical Tables. Accordingly, Jijiga Zone contributed about 71.4 percent and 51 percent of the total sheep and goats in the region, respectively.

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, there are 128,703 camels, 84,636 asses, and 633 mules in the region. The table as well shows that very high proportions of asses, mules and camels are found in the rural areas.

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.....	51	100	40	78.43	11	21.57	-	-	-	-	-	-	51	100	40	78.43	11	21.57
Under 3 Years	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 years and older	51	100	40	78.43	11	21.57	-	-	-	-	-	-	51	100	40	78.43	11	21.57
Horses Aged 3 years and ... Older by Purpose																		
All Uses	51	100	40	78.43	11	21.57	-	-	-	-	-	-	51	100	40	78.43	11	21.57
Transportation	51	100	40	78.43	11	21.57	-	-	-	-	-	-	51	100	40	78.43	11	21.57
Draught	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Uses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Asses	84,636	100	44,024	52.02	40,611	47.98	82,187	97.11	42,361	50.05	39,827	47.06	2,448	2.89	1,664	1.97	784	0.93
Under 3 Years	17,186	20.31	9,179	10.85	8,006	9.46	16,891	19.96	9,037	10.68	7,854	9.28	295	0.35	142	0.17	153	0.18
3 years and older	67,450	79.69	34,845	41.17	32,605	38.52	65,297	77.15	33,324	39.37	31,973	37.78	2,153	2.54	1,521	1.80	632	0.75
Asses Aged 3 Years and Older by Purpose																		
All Uses	67,450	100	34,845	51.66	32,605	48.34	65,297	96.81	33,324	49.41	31,973	47.40	2,153	3.19	1,521	2.26	632	0.94
Transportation	65,417	96.99	33,707	49.97	31,711	47.01	63,317	93.87	32,231	47.79	31,086	46.09	2,100	3.11	1,476	2.19	624	0.93
Draught	1,246	1.85	826	1.22	420	0.62	1,226	1.82	806	1.19	420	0.62	20	0.03	20	0.03	-	-
Other Uses	787	1.17	313	0.46	474	0.70	754	1.12	287	0.43	467	0.69	33	0.05	*	*	*	*
Total Mules	633	100	581	91.79	52	8.21	633	100	581	91.79	52	8.21	-	-	-	-	-	-
Under 3 Years	43	6.79	-	-	43	6.79	43	6.79	-	-	43	6.79	-	-	-	-	-	-
3 Years and older	590	93.21	581	91.79	*	*	590	93.21	581	91.79	*	*	-	-	-	-	-	-
Mules Aged 3 Years and Older by Purpose																		
All Uses	590	100	581	98.47	*	*	590	100	581	98.47	*	*	-	-	-	-	-	-
Transportation.....	536	90.85	527	89.32	*	*	536	90.85	527	89.32	*	*	-	-	-	-	-	-
Draught	54	9.15	54	9.15	-	-	54	9.15	54	9.15	-	-	-	-	-	-	-	-
Other Uses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Camels.....	128,703	100	45,818	35.60	82,885	64.40	126,424	98.23	44,945	34.92	81,479	63.31	2,279	1.77	873	0.68	1,406	1.09
Under 4 Years	35,881	27.88	16,009	12.44	19,872	15.44	35,363	27.48	15,810	12.28	19,554	15.19	518	0.40	199	0.15	318	0.25
4 years and older	92,822	72.12	29,809	23.16	63,013	48.96	91,061	70.75	29,136	22.64	61,925	48.11	1,761	1.37	673	0.52	1,088	0.85
Camels Aged 4 Years and Older by Purpose																		
All Uses	92,822	100	29,809	32.11	63,013	67.89	91,061	98.10	29,136	31.39	61,925	66.71	1,761	1.90	673	0.73	1,088	1.17
Meat.....	2,364	2.55	1,161	1.25	1,203	1.30	2,289	2.47	1,098	1.18	1,192	1.28	75	0.08	64	0.07	*	*
Draught.....	770	0.83	399	0.43	372	0.40	767	0.83	396	0.43	372	0.40	*	*	*	*	-	-
Milk.....	46,606	50.21			46,606	50.21	45,627	49.16			45,627	49.16	979	1.05			979	1.05
Transportation.....	28,347	30.54	24,852	26.77	3,495	3.77	27,676	29.82	24,249	26.12	3,426	3.69	671	0.72	602	0.65	69	0.07
Other Uses	14,735	15.87	3,397	3.66	11,338	12.21	14,701	15.84	3,394	3.66	11,308	12.18	*	*	*	*	*	*

FIGURE VII.6 DISTRIBUTION OF HORSES, ASSES, MULES AND CAMELS BY AGE AND SEX

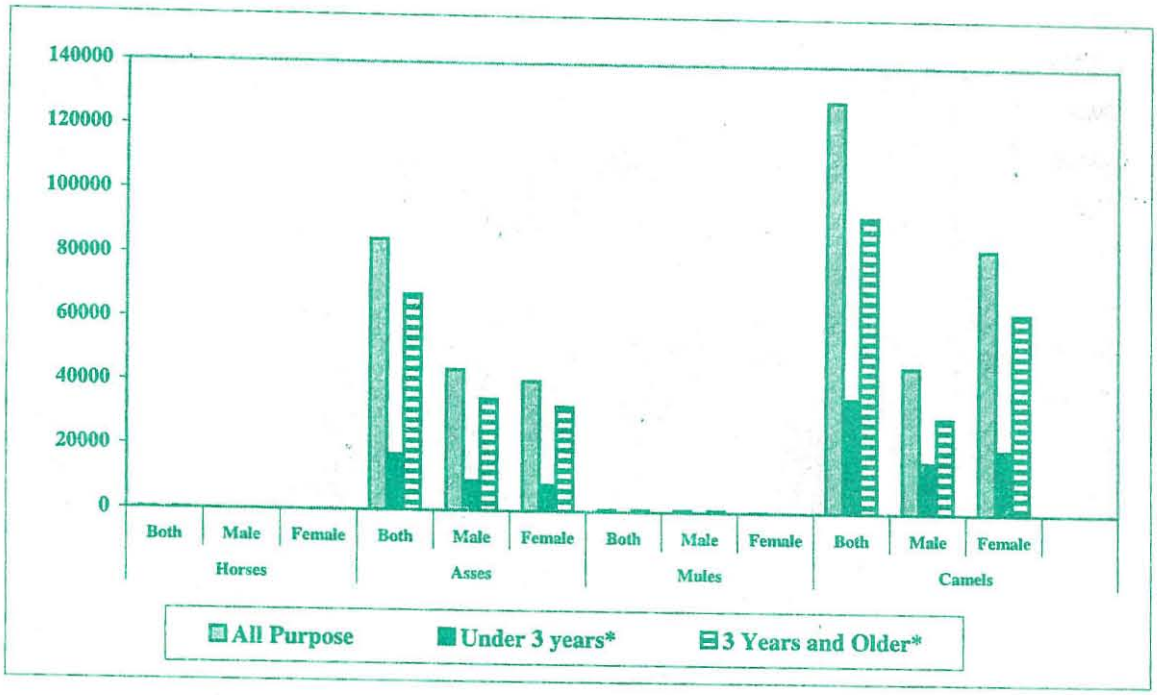


FIGURE VII.7 DISTRIBUTION OF HORSES, ASSES AND MULES BY PURPOSE AND SEX

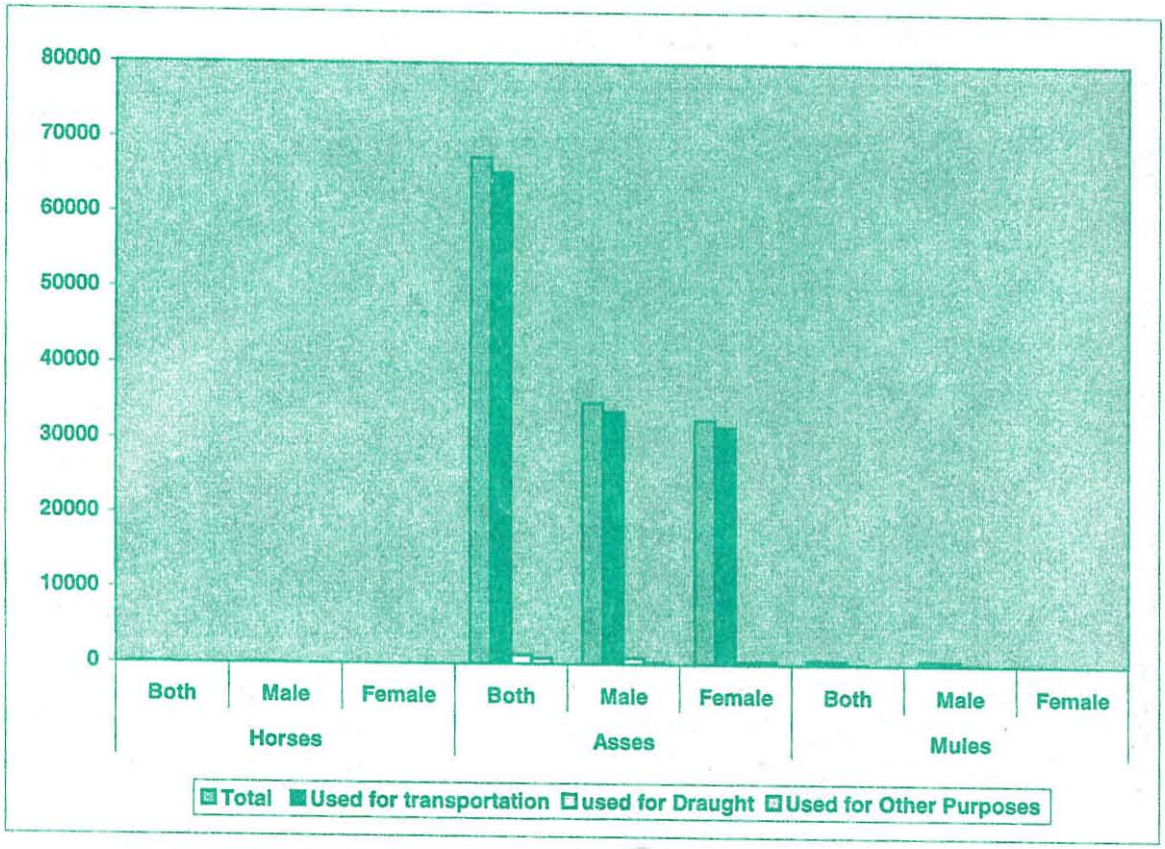


FIGURE VII. 8 DISTRIBUTION OF CAMELS BY PURPOSE AND SEX

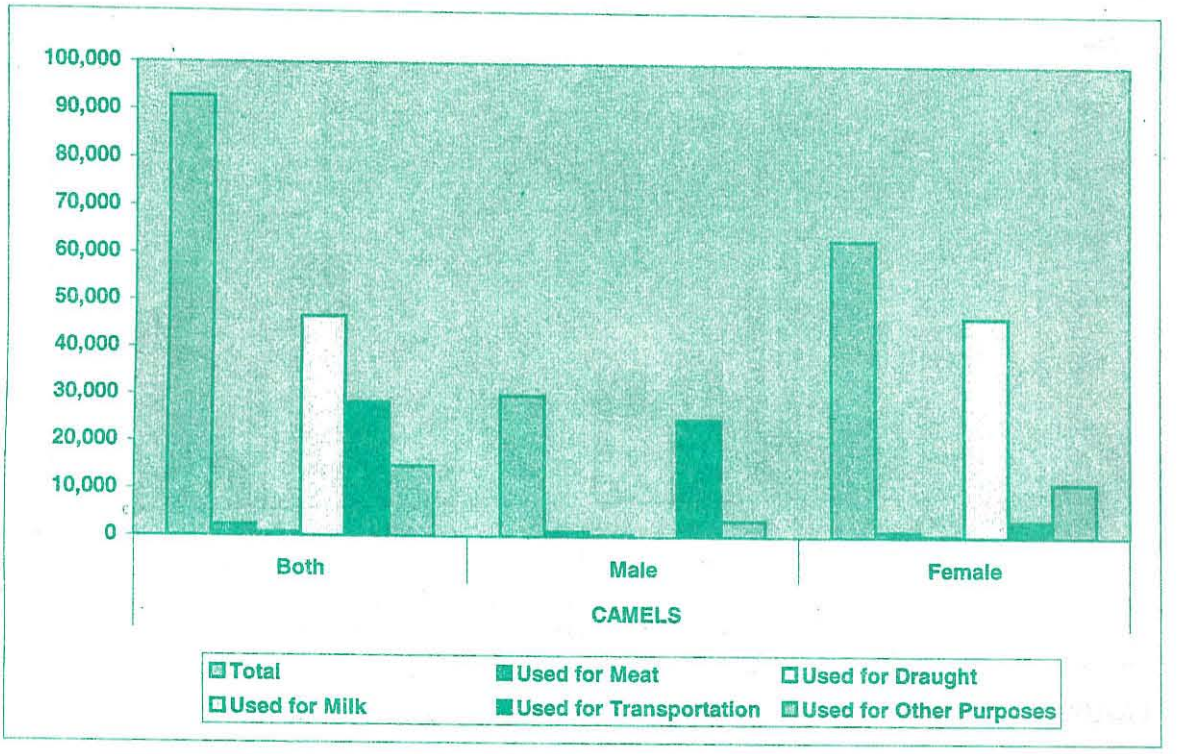
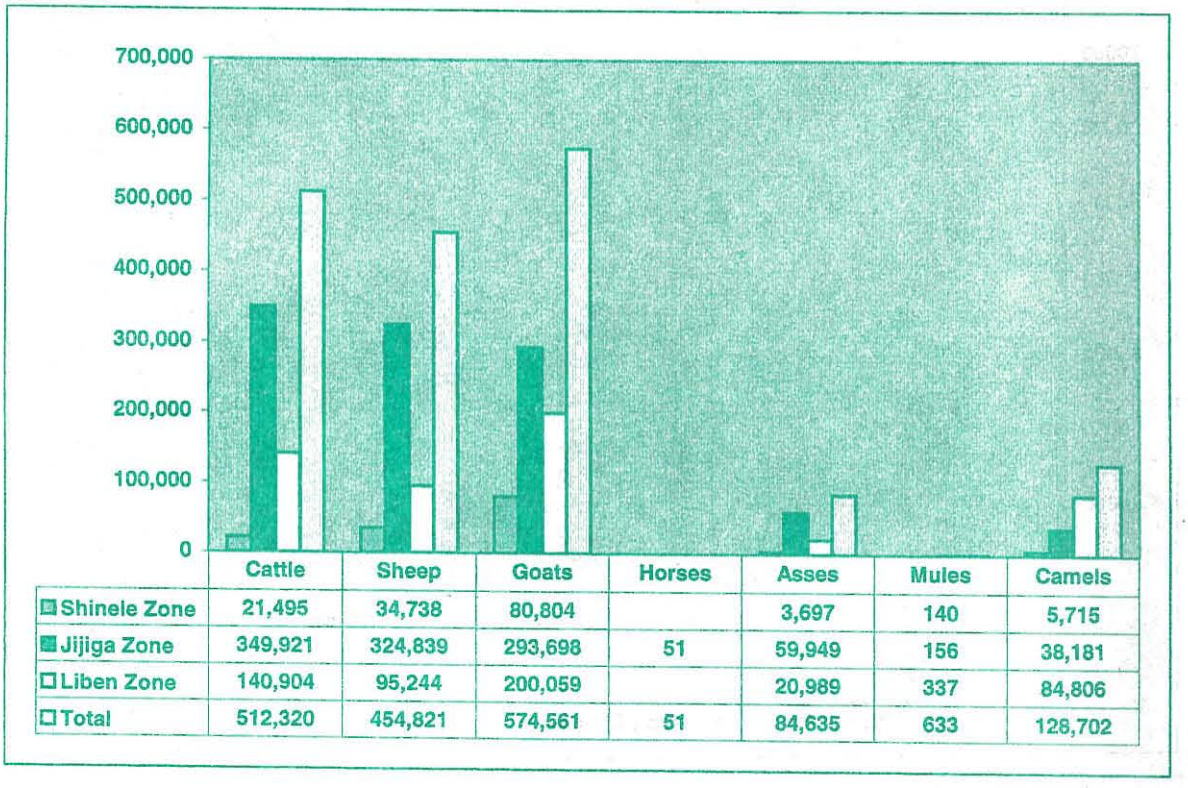


FIGURE VII.9 DISTRIBUTION OF LIVESTOCK BY ZONE



	Cattle	Sheep	Goats	Horses	Asses	Mules	Camels
Shinele Zone	21,495	34,738	80,804		3,697	140	5,715
Jijiga Zone	349,921	324,839	293,698	51	59,949	156	38,181
Liben Zone	140,904	95,244	200,059		20,989	337	84,806
Total	512,320	454,821	574,561	51	84,635	633	128,702

As indicated in the same table, out of the total asses population in the region, 44,024 (52 percent) are males and 40,611 (48 percent) are females. With respect to age distribution, about 80 percent of the asses and 72 percent of the camels are in the age group of 3 years and older and 4 years and older category, respectively. Moreover, the share of female camels is higher (64 percent) and male camels accounted for 36 percent.

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 asses aged three years and older, 97 percent are used for transportation. (See also Figures VII.6 and VII.7). Regarding camels, 50 percent of the female camels are used for milk and 31 percent are used for transportation (See Figure VII.8).

Pertaining to zonal distribution, about 70.8 percent of the total asses population is found in Jijiga Zone. Likewise, 65.9 percent of the camels in the region are found in Liben Zone (See Fig. VII.9).

2.4 Poultry

Data on poultry population are collected as part of the livestock census, and the total poultry population in Somali Region is estimated to be about 154,746. 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.10, most of the poultry are laying hens (56,169), followed by chicks (42,756). Non-laying hens are estimated to be 8,051 in the region. Cocks, Pullets and cockerels are also estimated separately, and are 19,383, 16,391 and 11,997, respectively. The data shows that 81 percent of the total poultry are found in the rural areas while 19 percent are the share of the urban areas in the region.

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	154,746	100	125,195	80.90	29,552	19.10
Cocks	19,383	12.53	15,475	10.00	3,908	2.53
Cockerels	11,997	7.75	10,311	6.66	1,686	1.09
Pullets	16,391	10.59	13,045	8.43	3,346	2.16
Non-Laying Hens	8,051	5.20	5,669	3.66	2,382	1.54
Chicks	42,756	27.63	34,714	22.43	8,042	5.20
Laying Hens	56,169	36.30	45,982	29.71	10,187	6.58
Average Number Days/Clutch	16		16		16	
Average Eggs/Hen/Clutch...	13		13		13	

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	7,212	100	6,607	91.61	*	*
Traditional Beehives	6,347	88.01	6,347	88.01	-	-
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)	1.755	1.738	2.21
Average Lactation Period (Months)	8	8	8
Total Milk Production(Liters)	49,892,646	47,672,700	2,219,947
Camel Milk			
Average Daily Milk Production(Liters/Camel)	3.606	3.594	4.441
Average Lactation Period (Months)	13	13	12
Total Milk Production(Liters)	32,473,089	32,005,237	467,853
Honey Production			
All Types of Beehives			
Production (Kilograms).....	49,224	49,224	-
Average Frequency (Harvest/Year)		2	2
Traditional Beehives			
Production (Kilograms).....	49,224	49,224	-
Average Frequency(Harvest./Year).....		2	-
Intermediate Beehives			
Production (Kilograms).....	-	-	-
Average Frequency(Harvest/Year)		-	2
Modern Beehives			
Production (Kilograms).....	-	-	-
Average Frequency(Harvest/Year)		2	-

FIGURE VII. 10 DISTRIBUTION OF POULTRY BY TYPE

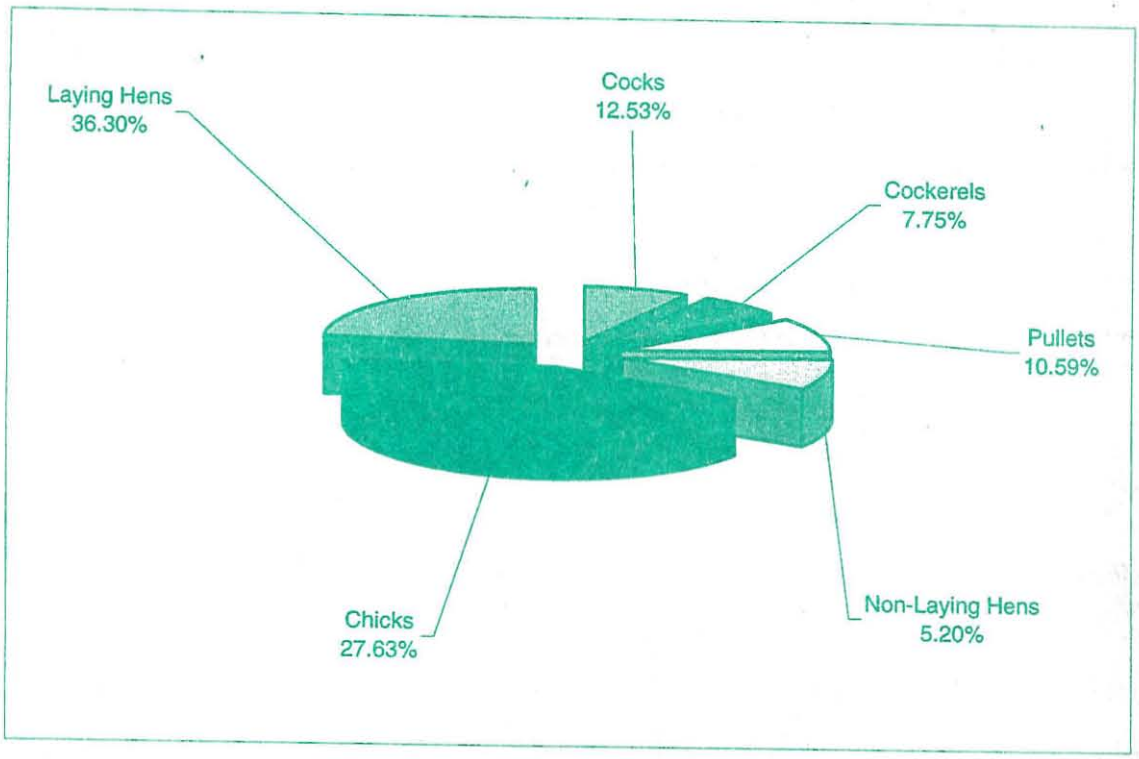
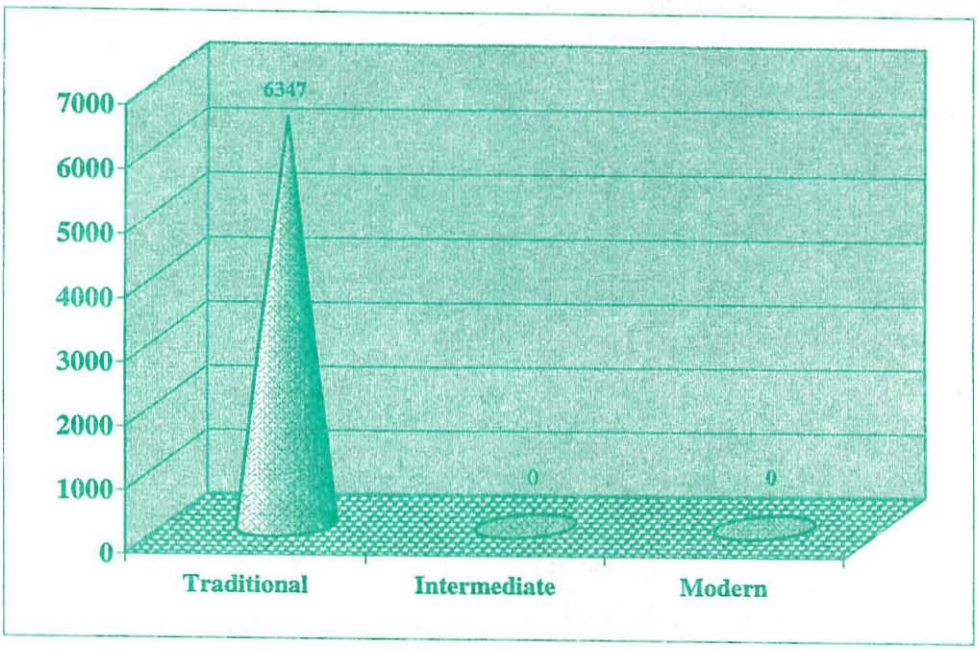


FIGURE VII. 11 DISTRIBUTION OF BEEHIVES BY TYPE



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 13 eggs in the region. Egg laying period and number of eggs laid per period are equal in urban and rural areas.

Pertaining to zonal distribution, Jijiga and Liben Zones contribute 63.9 percent 32.9 percent of the total poultry in the region, respectively.

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 7,212 beehives are estimated to be found in rural and urban areas of Somali Region. From this total hives, 6,347 (88 percent) are traditional hives. As indicated in Summary Table VII.5 and Figure VII.11, very significant portion of the beehives are reported in rural areas (92 percent).

With regard to zonal distribution of hives, Jijiga Zone has the largest share (86 percent) and Liben Zone as well contributed 13 percent of the total beehives of the region.

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 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 Somali Region during the reference period, is about 49.9 million liters of which 47.7 million liters (95.6 percent) is attributed to rural areas. A total of about 2.2 million 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 eight months, and average milk yield per cow per day is about 1.8 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 49,224 kilograms of which all the honey is harvested from traditional beehives (See Summary Table VII.6).

As can be seen from the census data, honey was harvested twice in a year from traditional beehives both in rural and urban areas during the reference period.

SUMMARY TABLE VII.7: Livestock Product Utilization - Percentage of Uses for Rural and Urban Holdings

	Rural and Urban Holdings					Rural Holdings					Urban Holdings				
		Percent of Product Utilized for:					Percent of Product Utilized for:					Percent of Product Utilized for:			
Type of Product	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	66.69	28.21	0.17	4.94	100	65.83	28.96	0.16	5.06	100	81.35	15.42	0.34	2.89
Butter	100	49.61	46.74	0.08	3.58	100	49.3	47.02	0.07	3.61	100	66.35	31.04	0.65	1.96
Cheese	100	98.12	1.12	-	0.75	100	98.19	1.04	-	0.77	100	96.05	3.61	-	0.33
Beef	100	50.82	14.23	0.31	34.63	100	50.54	14.09	0.2	35.17	100	59.57	18.91	3.85	17.67
Mutton/Goat Meat	100	81.57	6.21	0.46	11.76	100	82.43	5.31	0.44	11.83	100	73.16	15.06	0.62	11.16
Eggs	100	32.31	53.58	0.25	13.85	100	28.34	57	0.19	14.47	100	52.12	36.52	0.6	10.77
Honey	100	46.41	48.66	-	4.93	100	46.43	48.63	-	4.95	100	44.86	52.43	-	2.7
Bees Wax	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wool	100	5.49	92.59	-	1.92	100	5.79	94.21	-	-	100	-	63.23	-	36.77
Hide	100	41.38	43.04	0.14	15.44	100	43.07	40.81	-	16.11	100	14.79	78.14	2.31	4.76
Skin	100	25.32	64.7	0.67	9.31	100	25.57	64	0.64	9.79	100	22.17	73.39	1.08	3.35

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 the utilization of animal products in the rural and urban areas are presented in Summary Table VII.7. The census result reveals that out of the total annual milk production, 66.69 percent was used for household consumption, 28.21 percent was sold and about 4.94 percent was used for other purposes. With respect to the utilization of butter 49.61 percent was used for household consumption and 46.74 percent was sold. The greater portion of the total cheese produced was used for household consumption that is about 98.12 percent, and about 1.12 percent was sold.

Of the total honey produced, about 48.66 percent was sold, and 46.41 percent was used for household consumption. On the other hand, 92.59 percent of the wool produced in the region was used for sale while 5.49 percent was used for household consumption. Similar usage patterns are also observed in both the rural and the urban areas of the region.

Concerning utilization of egg products, 53.58 percent of the total egg produced was sold and 32.31 percent was used for household consumption. Moreover, 13.85 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 these products are mainly used for sale and household consumption.

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 Somali Region is about 262,854. Out of these animals, about 37.5 percent were goats followed by cattle, which took about 33 percent share.

In the same table, it is indicated that about 234,198 animals were diseased/afflicted by different types of diseases during the reference period and only 30,233 of them were treated. Goats constituted about 29 percent of the total treated animals.

According to the census data, greater of animals died during the reference period in the region due to diseases of which 29.4 percent was goats. In addition, the estimated numbers of dead cattle and dead sheep in the region are about 31,585 and 31,486, respectively. The number of poultry estimated dead is about 13,944 (See Summary Table VII.8).

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	262,854	100	254,117	96.68	8,736	3.32
Cattle	86,706	32.99	83,784	31.87	2,922	1.11
Sheep	55,376	21.07	53,031	20.18	2,346	0.89
Goats	98,662	37.53	95,390	36.29	3,271	1.24
Horses,Asses, and Mules	2,408	0.92	2,225	0.85	184	0.07
Camels	19,447	7.40	19,438	7.39	*	*
Poultry	*	*	*	*	*	*
Total Afflicted	234,198	100	221,728	94.68	12,471	5.32
Cattle	63,732	27.21	62,066	26.50	1,666	0.71
Sheep	71,408	30.49	68,289	29.16	3,119	1.33
Goats	71,813	30.66	67,937	29.01	3,876	1.66
Horses,Asses, and Mules	2,334	1.00	2,264	0.97	69	0.03
Camels.....	9,110	3.89	9,015	3.85	94	0.04
Poultry	15,802	6.75	12,156	5.19	3,646	1.56
Total Treated	30,233	100	28,623	94.67	1,609	5.32
Cattle	6,599	21.83	6,113	20.22	486	1.61
Sheep	*	*	*	*	380	1.26
Goats	8,721	28.85	8,045	26.61	676	2.24
Horses,Asses, and Mules	188	0.62	157	0.52	32	0.11
Camels	1,398	4.62	1,398	4.62	-	-
Poultry	*	*	*	*	*	*
Total Died	114,708	100	105,266	91.77	9,442	8.23
Cattle	31,585	27.54	30,538	26.62	1,047	0.91
Sheep	31,486	27.45	29,063	25.34	2,423	2.11
Goats	33,698	29.38	31,065	27.08	2,633	2.30
Horses,Asses, and Mules	627	0.55	606	0.53	21	0.02
Camels	3,368	2.94	3,307	2.88	61	0.05
Poultry	13,944	12.16	10,687	9.32	3,257	2.84

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.....	98,159	69.06	90,511	71.45	7,648	46.16
Crops Residue	77,582	22.25	72,497	22.23	5,086	22.39
Improved Feed	318	0.05	276	0.05	42	0.13
Hay	14,694	2.53	13,613	2.39	1,082	3.88
By-products	1,772	0.43	919	0.19	853	2.74
Others	20,358	5.68	15,025	3.7	5,333	24.71

FIGURE VII.12 DISTRIBUTION OF ANIMALS VACCINATED, AFFLICTED, TREATED AND DIED

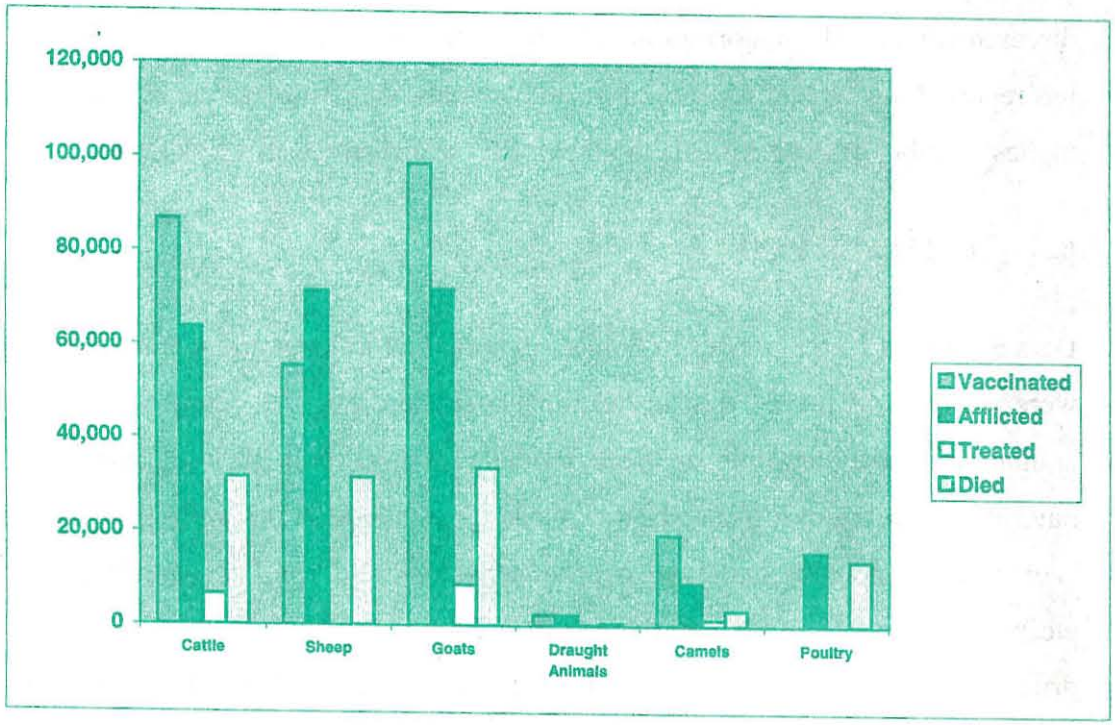
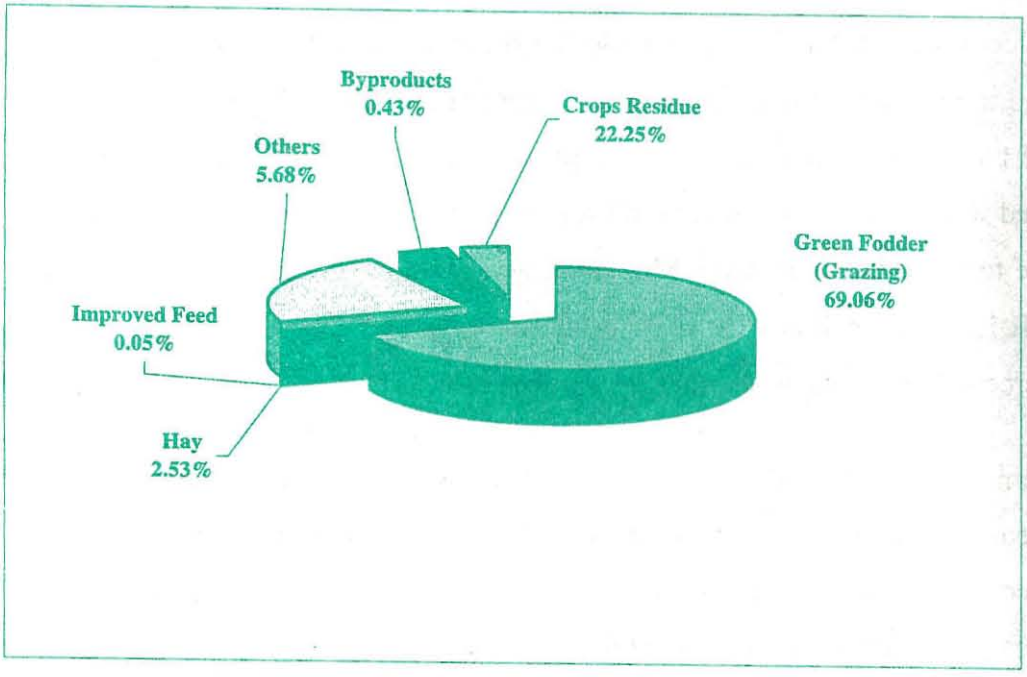


FIGURE VII.13 ANIMAL FEED PRACTICES OF HOLDERS



If we take a look at the zonal results to see the distributions among the zones, 78 percent of the total vaccinated-animals are reported in Liben Zone. Regarding diseased animals, the majorities are accounted for Jijiga Zone. In addition, Liben Zone has reported the highest number of treated animals. According to the census result, the highest number of dead animals (56.6 percent) was reported in Jijiga Zone.

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. 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 69.1 percent followed by crops residue about 22.3 percent. Hay and other types of feed were used as animal feed in the region that comprise about 2.5 and 5.7 percent of the total feed, respectively. Moreover, as shown in summary Table VII.9 and figure VII.13, very small amount of by-products (0.4 percent) and improved feed (only 0.05 percent) were used as animal feed in the region.

Summary Table VII.9 also highlights the number of holders reported each type of feed. According to the data, about 98,159 holders have used green fodder or grazing to feed their animals. Significant number of holders (77,582) both in rural and urban areas of the region also reported that they used to feed crops residue for their animals. Moreover, about 20,358 and 14,694 holders have reported others types of feed and hay, respectively. Quite a number of holders (about 1,772) as well reported by-products while only 318 holders reported to use the improved feed.

STATISTICAL TABLES PRESENTING RESULTS AT ZONE AND WEREDA LEVELS

Tables 7.1– 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
Somale	512,320	454,821	574,561	51	84,636	633	128,703	154,746	7,212
Shinele Zone	21,495	34,738	80,804	-	3,697	140	5,715	4,928	91
Shinele	11,464	17,376	44,496	-	2,493	-	3,446	1,635	*
Erer	10,031	17,362	36,308	-	1,204	140	2,269	3,293	91
Jijiga Zone	349,921	324,839	293,698	51	59,949	156	38,181	98,848	6,209
Jijiga	123,773	44,720	90,605	51	32,428	156	3,198	80,334	5,782
Teferi Ber	110,240	127,965	100,007	-	19,469	-	18,217	12,627	*
Kebri Beyah	115,907	152,154	103,086	-	8,053	-	16,766	5,886	*
Liben Zone	140,904	95,244	200,059	-	20,989	337	84,806	50,970	912
Filtu	44,788	39,588	101,490	-	6,469	-	54,901	11,645	*
Dolo Odo	36,002	43,942	75,200	-	9,307	*	7,003	22,011	*
Moyale	60,115	11,714	23,369	-	5,213	310	22,902	17,314	*

b) Rural Holdings

Geographic Areas	ALL LIVESTOCK								
	CATTLE	SHEEP	GOATS	HORSES	ASSES	MULES	CAMELS	POULTRY	BEEHIVES
Somale	495,403	430,539	541,103	-	82,187	633	126,424	125,195	6,607
Shinele Zone	17,084	26,996	72,403	-	3,090	140	4,861	3,769	91
Shinele	7,053	9,634	36,096	-	1,886	-	2,591	*	*
Erer	10,031	17,362	36,308	-	1,204	140	2,269	3,293	91
Jijiga Zone	341,992	315,374	277,795	-	59,027	156	37,414	80,788	5,989
Jijiga	121,511	41,440	85,435	-	32,236	156	3,037	69,816	5,582
Teferi Ber	106,373	124,155	96,127	-	18,905	-	18,073	9,300	*
Kebri Beyah	114,108	149,779	96,233	-	7,886	-	16,304	1,672	*
Liben Zone	136,327	88,169	190,905	-	20,070	337	84,150	40,637	527
Filtu	44,681	39,515	101,316	-	6,448	-	54,891	11,577	*
Dolo Odo	31,531	36,940	66,219	-	8,409	*	6,357	11,746	*
Moyale	60,115	11,714	23,369	-	5,213	310	22,902	17,314	*

c) Urban Holdings

Geographic Areas	ALL LIVESTOCK								
	CATTLE	SHEEP	GOATS	HORSES	ASSES	MULES	CAMELS	POULTRY	BEEHIVES
Somale	16,917	24,282	33,458	51	2,448	-	2,279	29,552	*
Shinele Zone	4,411	7,742	8,400	-	607	-	855	1,159	*
Shinele	4,411	7,742	8,400	-	607	-	855	1,159	*
Jijiga Zone	7,929	9,465	15,903	51	922	-	768	18,060	*
Jijiga	2,262	3,279	5,170	51	192	-	161	10,518	*
Teferi Ber	3,868	3,810	3,879	-	564	-	144	3,328	*
Kebri Beyah	1,799	2,375	6,853	-	166	-	*	4,214	*
Liben Zone	4,577	7,075	9,154	-	919	-	*	10,333	*
Filtu	107	73	174	-	21	-	*	68	*
Dolo Odo	4,470	7,002	8,980	-	898	-	*	10,265	*

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
Somale	512,320	34,435	22,813	31,930	89,550	1,189	39,738	30,232	46,574	208,169	7,689
Shinele Zone	21,495	1,773	1,002	1,351	2,262	*	2,217	1,234	1,970	9,259	392
Shinele	11,464	1,011	615	731	669	*	1,066	714	1,051	5,399	184
Erer	10,031	762	386	620	1,593	*	1,151	520	919	3,860	207
Jijiga Zone	349,921	24,486	15,349	22,245	71,168	456	26,880	20,289	31,608	134,597	2,841
Jijiga	123,773	6,898	4,777	8,640	36,660	*	7,778	5,884	10,756	41,316	895
Teferi Ber	110,240	9,344	4,868	7,021	15,789	141	9,738	6,767	9,646	46,114	814
Kebri Beyah	115,907	8,245	5,704	6,584	18,719	*	9,364	7,639	11,206	47,168	1,132
Liben Zone	140,904	8,175	6,462	8,334	16,119	698	10,641	8,709	12,997	64,313	4,457
Filtu	44,788	3,003	1,480	2,847	6,084	208	3,880	2,887	5,002	18,577	821
Dolo Odo	36,002	2,229	2,550	1,952	2,965	*	2,393	2,222	3,353	17,231	976
Moyale	60,115	2,943	2,432	3,536	7,070	*	4,368	3,600	4,642	28,505	2,660

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
Somale	495,403	33,159	21,799	30,926	88,001	1,156	38,137	29,119	45,078	200,435	7,592
Shinele Zone	17,084	1,311	806	1,063	2,051	*	1,670	995	1,598	7,185	371
Shinele	7,053	549	420	443	458	*	519	475	680	3,325	164
Erer	10,031	762	386	620	1,593	*	1,151	520	919	3,860	207
Jijiga Zone	341,992	24,017	14,854	21,798	70,109	437	26,205	19,666	30,930	131,179	2,797
Jijiga	121,511	6,737	4,600	8,509	36,327	*	7,614	5,726	10,596	40,365	874
Teferi Ber	106,373	9,161	4,623	6,854	15,316	135	9,360	6,458	9,314	44,358	794
Kebri Beyah	114,108	8,119	5,631	6,434	18,466	*	9,231	7,482	11,020	46,456	1,129
Liben Zone	136,327	7,832	6,138	8,066	15,841	687	10,262	8,457	12,550	62,071	4,424
Filtu	44,681	2,996	1,480	2,839	6,069	208	3,864	2,882	4,993	18,530	821
Dolo Odo	31,531	1,892	2,227	1,691	2,702	*	2,031	1,975	2,916	15,036	943
Moyale	60,115	2,943	2,432	3,536	7,070	*	4,368	3,600	4,642	28,505	2,660

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
Somale	16,917	1,276	1,014	1,004	1,549	33	1,601	1,113	1,496	7,734	97
Shinele Zone	4,411	462	196	288	211	*	547	239	371	2,074	20
Shinele	4,411	462	196	288	211	*	547	239	371	2,074	20
Jijiga Zone	7,929	470	495	448	1,060	20	675	623	678	3,418	43
Jijiga	2,262	160	177	131	333	*	164	158	160	951	21
Teferi Ber	3,868	183	245	167	473	*	378	308	333	1,756	20
Kebri Beyah	1,799	126	73	150	253	*	134	*	186	711	*
Liben Zone	4,577	344	323	269	278	*	378	252	447	2,242	*
Filtu	107	7	-	8	15	-	16	5	9	47	-
Dolo Odo	4,470	337	323	261	263	*	362	247	438	2,195	*

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
Somale	454,821	38,476	23,874	23,507	44,855	44,095	40,032	45,936	194,044
Shinele Zone	34,738	3,681	1,406	1,666	3,065	5,023	3,038	4,237	12,621
Shinele	17,376	1,916	681	603	1,502	2,801	1,782	1,724	6,367
Erer	17,362	1,765	726	1,063	1,562	2,222	1,256	2,513	6,255
Jijiga Zone	324,839	27,307	17,268	17,336	32,683	30,442	28,104	31,532	140,167
Jijiga	44,720	6,083	1,788	1,996	5,406	4,112	2,542	4,869	17,923
Teferi Ber	127,965	11,167	7,660	9,235	11,006	11,825	10,530	12,454	54,088
Kebri Beyah	152,154	10,058	7,820	6,104	16,272	14,504	15,032	14,209	68,156
Liben Zone	95,244	7,487	5,200	4,505	9,107	8,630	8,890	10,167	41,256
Filtu	39,588	3,134	2,263	2,309	4,379	3,822	4,157	4,699	14,825
Dolo Odo	43,942	2,891	2,363	1,716	3,853	3,288	4,005	4,126	21,701
Moyale	11,714	1,462	574	481	875	1,520	729	1,343	4,730

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
Somale	430,539	36,467	22,767	22,174	42,044	41,293	38,312	43,708	183,775
Shinele Zone	26,996	2,804	1,123	1,287	2,299	3,672	2,523	3,668	9,620
Shinele	9,634	1,039	398	224	737	1,450	1,266	1,155	3,365
Erer	17,362	1,765	726	1,063	1,562	2,222	1,256	2,513	6,255
Jijiga Zone	315,374	26,674	16,806	16,774	31,388	29,490	27,369	30,672	136,203
Jijiga	41,440	5,836	1,630	1,772	4,942	3,790	2,317	4,640	16,514
Teferi Ber	124,155	10,874	7,445	9,021	10,494	11,344	10,193	12,152	52,631
Kebri Beyah	149,779	9,963	7,730	5,981	15,952	14,356	14,859	13,880	67,058
Liben Zone	88,169	6,990	4,838	4,113	8,357	8,131	8,420	9,367	37,952
Filtu	39,515	3,124	2,261	2,306	4,373	3,813	4,150	4,695	14,793
Dolo Odo	36,940	2,403	2,003	1,326	3,109	2,798	3,542	3,330	18,429
Moyale	11,714	1,462	574	481	875	1,520	729	1,343	4,730

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
Somale	24,282	2,009	1,107	1,333	2,811	2,803	1,720	2,229	10,269
Shinele Zone	7,742	877	283	379	766	1,351	516	569	3,001
Shinele	7,742	877	283	379	766	1,351	516	569	3,001
Jijiga Zone	9,465	634	462	562	1,296	952	735	860	3,964
Jijiga	3,279	246	157	224	464	323	225	229	1,410
Teferi Ber	3,810	293	215	214	512	481	336	302	1,457
Kebri Beyah	2,375	95	90	123	320	148	173	329	1,097
Liben Zone	7,075	498	362	392	750	499	470	800	3,304
Filtu	73	10	*	*	6	9	7	*	32
Dolo Odo	7,002	488	360	389	744	490	463	796	3,272

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
Somale	574,561	54,407	27,101	23,314	50,164	65,556	49,559	57,358	247,102
Shinele Zone	80,804	9,700	3,569	3,114	4,939	13,231	7,680	8,343	30,229
Shinele	44,496	5,379	1,983	1,246	2,542	7,712	4,382	4,261	16,991
Erer	36,308	4,321	1,586	1,868	2,398	5,519	3,298	4,081	13,237
Jijiga Zone	293,698	33,017	15,251	13,043	26,830	34,018	22,191	27,930	121,417
Jijiga	90,605	11,028	5,459	4,426	8,208	10,496	5,627	8,098	37,264
Teferi Ber	100,007	10,965	5,365	5,488	7,619	10,366	8,321	10,989	40,894
Kebri Beyah	103,086	11,025	4,428	3,130	11,003	13,156	8,243	8,843	43,259
Liben Zone	200,059	11,690	8,280	7,157	18,395	18,308	19,688	21,085	95,456
Filtu	101,490	5,752	4,322	4,314	9,860	10,168	10,788	11,557	44,730
Dolo Odo	75,200	3,630	2,904	2,014	7,242	5,337	6,639	7,120	40,314
Moyale	23,369	2,307	1,054	829	1,293	2,803	2,262	2,408	10,412

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
Somale	541,103	51,071	25,619	22,039	46,744	61,993	47,368	54,284	231,985
Shinele Zone	72,403	8,518	3,278	2,766	4,504	11,899	7,198	7,556	26,686
Shinele	36,096	4,197	1,691	898	2,107	6,380	3,900	3,474	13,448
Erer	36,308	4,321	1,586	1,868	2,398	5,519	3,298	4,081	13,237
Jijiga Zone	277,795	31,422	14,502	12,520	24,802	32,365	21,148	26,683	114,353
Jijiga	85,435	10,563	5,141	4,267	7,280	10,029	5,149	7,633	35,372
Teferi Ber	96,127	10,455	5,217	5,385	7,271	9,839	8,113	10,742	39,105
Kebri Beyah	96,233	10,405	4,143	2,868	10,251	12,497	7,886	8,309	39,876
Liben Zone	190,905	11,131	7,840	6,753	17,438	17,729	19,022	20,045	90,946
Filtu	101,316	5,734	4,318	4,304	9,839	10,146	10,779	11,548	44,649
Dolo Odo	66,219	3,090	2,468	1,620	6,306	4,780	5,982	6,089	35,885
Moyale	23,369	2,307	1,054	829	1,293	2,803	2,262	2,408	10,412

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
Somale	33,458	3,335	1,482	1,275	3,420	3,563	2,192	3,074	15,117
Shinele Zone	8,400	1,182	292	348	435	1,332	482	787	3,543
Shinele	8,400	1,182	292	348	435	1,332	482	787	3,543
Jijiga Zone	15,903	1,595	750	523	2,028	1,652	1,044	1,247	7,064
Jijiga	5,170	465	317	158	928	467	479	465	1,892
Teferi Ber	3,879	510	148	102	348	527	208	247	1,789
Kebri Beyah	6,853	620	285	262	752	658	357	535	3,383
Liben Zone	9,154	558	440	404	957	579	666	1,040	4,509
Filtu	174	18	*	10	21	22	*	9	81
Dolo Odo	8,980	540	436	394	936	557	657	1,031	4,428

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
Somale	51	-	40	-	11	84,636	9,179	34,845	8,006	32,605
Shinele Zone	-	-	-	-	-	3,697	519	1,244	394	1,539
Shinele	-	-	-	-	-	2,493	357	918	223	995
Erer	-	-	-	-	-	1,204	162	327	171	544
Jijiga Zone	51	-	40	-	11	59,949	6,628	25,561	5,487	22,274
Jijiga	51	-	40	-	11	32,428	3,242	14,717	2,332	12,138
Teferi Ber	-	-	-	-	-	19,469	2,105	7,732	2,217	7,415
Kebri Beyah	-	-	-	-	-	8,053	1,281	3,112	939	2,721
Liben Zone	-	-	-	-	-	20,989	2,032	8,040	2,125	8,792
Filtu	-	-	-	-	-	6,469	608	2,575	562	2,724
Dolo Odo	-	-	-	-	-	9,307	1,213	2,802	1,103	4,190
Moyale	-	-	-	-	-	5,213	211	2,663	460	1,879

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
Somale	-	-	-	-	-	82,187	9,037	33,324	7,854	31,973
Shinele Zone	-	-	-	-	-	3,090	478	965	341	1,306
Shinele	-	-	-	-	-	1,886	316	638	170	762
Erer	-	-	-	-	-	1,204	162	327	171	544
Jijiga Zone	-	-	-	-	-	59,027	6,577	24,913	5,442	22,095
Jijiga	-	-	-	-	-	32,236	3,234	14,567	2,328	12,108
Teferi Ber	-	-	-	-	-	18,905	2,068	7,362	2,185	7,290
Kebri Beyah	-	-	-	-	-	7,886	1,275	2,985	930	2,698
Liben Zone	-	-	-	-	-	20,070	1,982	7,446	2,071	8,572
Filtu	-	-	-	-	-	6,448	607	2,557	562	2,722
Dolo Odo	-	-	-	-	-	8,409	1,164	2,226	1,049	3,971
Moyale	-	-	-	-	-	5,213	211	2,663	460	1,879

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
Somale	51	-	40	-	11	2,448	142	1,521	153	632
Shinele Zone	-	-	-	-	-	607	41	279	53	233
Shinele	-	-	-	-	-	607	41	279	53	233
Jijiga Zone	51	-	40	-	11	922	51	648	45	178
Jijiga	51	-	40	-	11	192	8	151	*	30
Teferi Ber	-	-	-	-	-	564	37	370	32	125
Kebri Beyah	-	-	-	-	-	166	*	127	*	24
Liben Zone	-	-	-	-	-	919	50	594	54	221
Filtu	-	-	-	-	-	21	*	18	-	*
Dolo Odo	-	-	-	-	-	898	49	576	54	219

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
Somale	633	-	581	43	*	128,703	16,009	29,809	19,872	63,013
Shinele Zone	140	-	97	43	-	5,715	777	1,734	659	2,546
Shinele	-	-	-	-	-	3,446	488	1,196	368	1,393
Erer	140	-	97	43	-	2,269	289	537	291	1,153
Jijiga Zone	156	-	156	-	-	38,181	4,643	14,842	4,366	14,331
Jijiga	156	-	156	-	-	3,198	306	2,089	*	588
Teferi Ber	-	-	-	-	-	18,217	2,351	6,076	2,122	7,668
Kebri Beyah	-	-	-	-	-	16,766	1,986	6,677	2,029	6,075
Liben Zone	337	-	328	-	*	84,806	10,590	13,233	14,847	46,136
Filtu	-	-	-	-	-	54,901	5,803	8,935	9,523	30,641
Dolo Odo	*	-	*	-	-	7,003	942	1,309	1,153	3,599
Moyale	310	-	301	-	*	22,902	3,845	2,990	4,170	11,897

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
Somale	633	-	581	43	*	126,424	15,810	29,136	19,554	61,925
Shinele Zone	140	-	97	43	-	4,861	687	1,459	553	2,162
Shinele	-	-	-	-	-	2,591	398	922	262	1,009
Erer	140	-	97	43	-	2,269	289	537	291	1,153
Jijiga Zone	156	-	156	-	-	37,414	4,584	14,567	4,283	13,979
Jijiga	156	-	156	-	-	3,037	286	2,041	*	508
Teferi Ber	-	-	-	-	-	18,073	2,334	5,980	2,114	7,645
Kebri Beyah	-	-	-	-	-	16,304	1,965	6,547	1,966	5,826
Liben Zone	337	-	328	-	*	84,150	10,539	13,109	14,718	45,784
Filtu	-	-	-	-	-	54,891	5,803	8,932	9,520	30,637
Dolo Odo	*	-	*	-	-	6,357	891	1,188	1,027	3,250
Moyale	310	-	301	-	*	22,902	3,845	2,990	4,170	11,897

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
Somale	-	-	-	-	-	2,279	199	673	318	1,088
Shinele Zone	-	-	-	-	-	855	90	274	106	384
Shinele	-	-	-	-	-	855	90	274	106	384
Jijiga Zone	-	-	-	-	-	768	58	275	83	352
Jijiga	-	-	-	-	-	161	*	49	12	80
Teferi Ber	-	-	-	-	-	144	17	96	9	23
Kebri Beyah	-	-	-	-	-	*	*	*	*	*
Liben Zone	-	-	-	-	-	*	*	*	*	*
Filtu	-	-	-	-	-	*	-	*	*	*
Dolo Odo	-	-	-	-	-	*	*	*	*	*

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
Somale	297,719	70,024	4,341	13,829	1,356	107,305	1,394	1,429	94,819	3,223
Shinele Zone	11,521	1,692	258	294	*	8,321	*	*	575	203
Shinele	6,068	207	213	239	*	4,614	*	*	457	168
Erer	5,453	1,485	45	55	*	3,707	-	-	118	35
Jijiga Zone	205,766	61,622	2,549	6,452	546	66,572	1,100	639	64,479	1,809
Jijiga	77,977	34,123	*	1,004	*	24,292	*	*	15,994	824
Teferi Ber	61,903	13,515	506	1,744	*	18,273	*	354	26,548	864
Kebri Beyah	65,887	13,983	965	3,705	*	24,007	905	199	21,937	*
Liben Zone	80,432	6,710	1,535	7,083	792	32,412	280	645	29,765	1,211
Filtu	24,661	2,679	249	2,758	397	11,688	217	*	5,849	801
Dolo Odo	20,196	1,604	275	998	*	11,003	*	*	5,774	231
Moyale	35,575	2,427	1,010	3,327	*	9,721	-	*	18,142	180

b) Rural Holdings

Geographic Areas	CATTLE AGED 3 – 10 YEARS									
		MALE				FEMALE				
	Total	Draught	Beef	Breeding	Other	Milk	Draught	Beef	Breeding	Other
Somale	288,436	69,332	4,139	13,210	1,319	102,343	1,391	1,423	92,127	3,151
Shinele Zone	9,236	1,661	208	174	*	6,460	*	*	369	196
Shinele	3,783	176	163	119	-	2,753	*	*	252	161
Erer	5,453	1,485	45	55	*	3,707	-	-	118	35
Jijiga Zone	201,288	61,000	2,444	6,119	546	64,992	1,097	633	62,669	1,790
Jijiga	76,692	33,933	*	905	*	23,748	*	*	15,591	820
Teferi Ber	59,674	13,196	491	1,605	*	17,477	*	354	25,603	849
Kebri Beyah	64,922	13,871	919	3,610	*	23,767	902	193	21,474	*
Liben Zone	77,912	6,671	1,488	6,917	765	30,891	280	645	29,089	1,165
Filtu	24,599	2,675	249	2,747	397	11,651	217	*	5,839	801
Dolo Odo	17,738	1,569	229	843	*	9,519	*	*	5,108	185
Moyale	35,575	2,427	1,010	3,327	*	9,721	-	*	18,142	180

c) Urban Holdings

Geographic Areas	CATTLE AGED 3 – 10 YEARS									
		MALE				FEMALE				
	Total	Draught	Beef	Breeding	Other	Milk	Draught	Beef	Breeding	Other
Somale	9,283	691	202	619	37	4,961	*	*	2,691	72
Shinele Zone	2,285	31	50	119	*	1,861	-	-	206	*
Shinele	2,285	31	50	119	*	1,861	-	-	206	*
Jijiga Zone	4,478	622	105	333	-	1,580	*	*	1,810	19
Jijiga	1,284	190	44	99	-	544	-	-	403	*
Teferi Ber	2,229	319	15	139	-	797	-	-	944	15
Kebri Beyah	964	113	*	95	-	240	*	*	462	-
Liben Zone	2,520	38	47	166	*	1,520	-	-	676	*
Filtu	62	*	-	11	-	37	-	-	*	-
Dolo Odo	2,458	*	47	155	*	1,483	-	-	666	*

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
Somale	238,900	14,224	*	29,691	647	2,890	2,011	188,645	499
Shinele Zone	15,686	1,187	*	1,867	*	119	*	12,366	-
Shinele	7,869	787	*	705	*	*	*	6,240	-
Erer	7,817	401	-	1,162	-	79	*	6,126	-
Jijiga Zone	172,850	11,032	*	20,943	547	1,795	*	136,747	*
Jijiga	23,329	3,676	-	1,508	*	280	*	17,419	46
Teferi Ber	65,093	3,191	*	7,793	-	*	*	53,232	*
Kebri Beyah	84,427	*	*	11,641	*	913	*	66,097	*
Liben Zone	50,364	2,005	124	6,881	97	976	524	39,532	225
Filtu	19,204	290	*	4,000	*	120	*	14,449	*
Dolo Odo	25,554	1,388	*	2,348	*	818	*	20,532	194
Moyale	5,605	*	-	533	*	*	*	4,551	*

b) Rural Holdings

Geographic Areas	SHEEP AGED 2 AND OLDER								
		MALE				FEMALE			
	Total	Mutton/Meat	Wool	Breeding	Other	Mutton/Meat	Wool	Breeding	Other
Somale	225,819	13,130	*	28,049	577	2,594	1,989	178,764	428
Shinele Zone	11,920	717	*	1,575	-	94	*	9,390	-
Shinele	4,102	316	*	413	-	*	*	3,264	-
Erer	7,817	401	-	1,162	-	79	*	6,126	-
Jijiga Zone	167,590	10,663	*	20,081	*	1,786	*	132,863	*
Jijiga	21,455	3,437	-	1,315	*	272	*	16,064	-
Teferi Ber	63,125	3,103	*	7,369	-	*	*	51,785	*
Kebri Beyah	83,010	*	*	11,396	*	913	*	65,015	*
Liben Zone	46,309	1,750	124	6,394	89	714	515	36,512	212
Filtu	19,166	290	*	3,994	*	119	*	14,418	*
Dolo Odo	21,538	1,134	*	1,866	*	557	*	17,542	182
Moyale	5,605	*	-	533	*	*	*	4,551	*

c) Urban Holdings

Geographic Areas	SHEEP AGED 2 AND OLDER								
		MALE				FEMALE			
	Total	Mutton/Meat	Wool	Breeding	Other	Mutton/Meat	Wool	Breeding	Other
Somale	13,081	1,094	*	1,642	70	296	*	9,881	71
Shinele Zone	3,767	471	-	293	*	*	-	2,976	-
Shinele	3,767	471	-	293	*	*	-	2,976	-
Jijiga Zone	5,260	368	*	862	59	9	*	3,884	59
Jijiga	1,874	239	-	193	32	9	-	1,355	46
Teferi Ber	1,969	88	-	424	-	-	-	1,447	*
Kebri Beyah	1,417	*	*	245	*	-	*	1,082	*
Liben Zone	4,054	254	-	488	*	*	*	3,020	*
Filtu	38	-	-	6	-	*	-	31	-
Dolo Odo	4,016	254	-	482	*	*	*	2,989	*

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							
		MALES			FEMALES			
	Total	Meat	Breeding	Other	Meat	Milk	Breeding	Other
Somale	297,266	15,461	33,642	1,062	2,952	57,020	186,179	951
Shinele Zone	35,168	1,903	2,974	*	220	3,934	25,812	*
Shinele	19,533	1,290	1,251	-	133	3,700	13,158	-
Erer	15,635	612	1,723	*	87	234	12,654	*
Jijiga Zone	148,247	9,467	16,771	*	996	15,041	104,991	*
Jijiga	45,472	4,876	3,142	*	*	9,072	27,726	93
Teferi Ber	48,513	1,863	5,684	*	*	1,094	39,569	-
Kebri Beyah	54,262	2,728	7,945	*	392	4,874	37,696	*
Liben Zone	113,851	4,092	13,897	*	1,736	38,045	55,375	299
Filtu	54,590	1,243	8,533	*	402	17,992	26,241	*
Dolo Odo	47,556	2,553	4,371	*	1,101	17,751	21,276	*
Moyale	11,705	*	994	*	*	2,302	7,859	*

b) Rural Holdings

Geographic Areas	GOATS AGED 2 AND OLDER							
		MALES			FEMALES			
	Total	Meat	Breeding	Other	Meat	Milk	Breeding	Other
Somale	278,729	14,513	31,286	945	2,615	53,480	175,092	798
Shinele Zone	31,190	1,676	2,766	*	213	3,124	23,087	*
Shinele	15,555	1,063	1,043	-	126	2,890	10,433	-
Erer	15,635	612	1,723	*	87	234	12,654	*
Jijiga Zone	139,154	9,079	15,205	*	927	14,467	98,647	*
Jijiga	42,653	4,593	2,556	*	*	8,709	26,246	*
Teferi Ber	46,376	1,824	5,379	*	*	992	37,883	-
Kebri Beyah	50,126	*	7,271	*	*	4,765	34,517	*
Liben Zone	108,385	3,759	13,314	*	1,476	35,890	53,358	223
Filtu	54,488	1,241	8,514	*	402	17,958	26,194	*
Dolo Odo	42,191	2,222	3,807	*	840	15,630	19,306	*
Moyale	11,705	*	994	*	*	2,302	7,859	*

c) Urban Holdings

Geographic Areas	GOATS AGED 2 AND OLDER							
		MALES			FEMALES			
	Total	Meat	Breeding	Other	Meat	Milk	Breeding	Other
Somale	18,537	948	2,356	116	337	3,540	11,087	*
Shinele Zone	3,978	227	208	-	*	810	2,725	-
Shinele	3,978	227	208	-	*	810	2,725	-
Jijiga Zone	9,093	388	1,565	75	*	574	6,345	76
Jijiga	2,819	283	586	59	-	363	1,480	49
Teferi Ber	2,138	39	305	*	*	102	1,686	-
Kebri Beyah	4,136	66	674	*	*	109	3,179	*
Liben Zone	5,467	*	583	*	*	2,155	2,017	*
Filtu	102	*	19	-	-	34	47	-
Dolo Odo	5,365	*	564	*	*	2,121	1,970	*

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						
		MALES			FEMALES		
	Total	Transportation	Draught	Other	Transportation	Draught	Other
Somale	51	40	-	-	11	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	51	40	-	-	11	-	-
Jijiga	51	40	-	-	11	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

b) Rural Holdings

Geographic Areas	HORSES AGED 3 AND OLDER						
		MALES			FEMALES		
	TOTAL	Transportation	Draught	Other	Transportation	Draught	Other
Somale	-	-	-	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	-	-	-	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-
Moyale	-	-	-	-	-	-	-

c) Urban Holdings

Geographic Areas	HORSES AGED 3 AND OLDER						
		MALES			FEMALES		
	TOTAL	Transportation	Draught	Other	Transportation	Draught	Other
Somale	51	40	-	-	11	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	51	40	-	-	11	-	-
Jijiga	51	40	-	-	11	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

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
Somale	67,450	33,707	826	313	31,711	420	474
Shinele Zone	2,783	1,164	37	43	1,450	*	34
Shinele	1,912	901	*	*	990	-	*
Erer	871	263	*	34	460	*	29
Jijiga Zone	47,834	24,731	640	*	21,829	*	*
Jijiga	26,855	14,068	*	*	11,799	*	*
Teferi Ber	15,147	7,603	*	-	7,312	*	*
Kebri Beyah	5,833	3,060	*	*	2,718	-	*
Liben Zone	16,832	7,811	149	79	8,432	52	309
Filtu	5,299	2,476	*	*	2,662	*	*
Dolo Odo	6,992	2,706	82	*	3,998	*	*
Moyale	4,542	2,629	-	*	1,771	-	108

b) Rural Holdings

Geographic Areas	ASSES AGED 3 YEARS AND OLDER						
	TOTAL	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Somale	65,297	32,231	806	287	31,086	420	467
Shinele Zone	2,271	894	*	41	1,222	*	29
Shinele	1,400	631	-	*	762	-	-
Erer	871	263	*	34	460	*	29
Jijiga Zone	47,008	24,100	632	*	21,653	*	*
Jijiga	26,675	13,925	*	*	11,769	*	*
Teferi Ber	14,652	7,233	*	-	7,187	*	*
Kebri Beyah	5,682	2,942	*	-	2,698	-	-
Liben Zone	16,017	7,236	144	*	8,211	52	309
Filtu	5,279	2,458	*	*	2,660	*	*
Dolo Odo	6,197	2,149	*	-	3,780	*	*
Moyale	4,542	2,629	-	*	1,771	-	108

c) Urban Holdings

Geographic Areas	ASSES AGED 3 YEARS AND OLDER						
	TOTAL	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Somale	2,153	1,476	20	*	624	-	*
Shinele Zone	512	270	*	*	228	-	*
Shinele	512	270	*	*	228	-	*
Jijiga Zone	826	631	*	*	175	-	*
Jijiga	180	143	*	-	30	-	-
Teferi Ber	495	370	-	-	125	-	-
Kebri Beyah	151	118	-	*	21	-	*
Liben Zone	815	575	*	*	221	-	-
Filtu	20	18	-	-	*	-	-
Dolo Odo	795	557	*	*	219	-	-

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						
		MALES			FEMALES		
	TOTAL	Transportation	Draught	Other	Transportation	Draught	Other
Somale	590	527	54	-	*	-	-
Shinele Zone	97	43	54	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	97	43	54	-	-	-	-
Jijiga Zone	156	156	-	-	-	-	-
Jijiga	156	156	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	337	328	-	-	*	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	-	-	-	-	-
Moyale	310	301	-	-	*	-	-

b) Rural Holdings

Geographic Areas	MULES AGED 3 YEARS AND OLDER						
		MALES			FEMALES		
	TOTAL	Transportation	Draught	Other	Transportation	Draught	Other
Somale	590	527	54	-	*	-	-
Shinele Zone	97	43	54	-	-	-	-
Shinele	-	-	-	-	-	-	-
Erer	97	43	54	-	-	-	-
Jijiga Zone	156	156	-	-	-	-	-
Jijiga	156	156	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	337	328	-	-	*	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	*	*	-	-	-	-	-
Moyale	310	301	-	-	*	-	-

c) Urban Holdings

Geographic Areas	MULES AGED 3 YEARS AND OLDER						
		MALES			FEMALES		
	TOTAL	Transportation	Draught	Other	Transportation	Draught	Other
Somale	-	-	-	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-
Jijiga Zone	-	-	-	-	-	-	-
Jijiga	-	-	-	-	-	-	-
Teferi Ber	-	-	-	-	-	-	-
Kebri Beyah	-	-	-	-	-	-	-
Liben Zone	-	-	-	-	-	-	-
Filtu	-	-	-	-	-	-	-
Dolo Odo	-	-	-	-	-	-	-

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
Somale	92,822	1,161	399	24,852	3,397	1,203	372	46,606	3,495	11,338
Shinele Zone	4,280	68	-	1,662	*	*	-	1,849	568	*
Shinele	2,590	68	-	1,124	*	*	-	968	296	*
Erer	1,690	-	-	537	-	-	-	881	272	-
Jijiga Zone	29,173	258	269	14,183	*	*	*	8,785	1,785	3,664
Jijiga	2,677	*	-	1,910	*	-	-	*	*	-
Teferi Ber	13,743	*	*	5,808	-	-	*	3,929	740	*
Kebri Beyah	12,752	*	*	6,465	*	*	-	4,434	*	*
Liben Zone	59,370	835	129	9,007	3,262	1,151	298	35,972	1,142	7,573
Filtu	39,575	555	*	5,348	2,918	*	*	25,994	758	2,873
Dolo Odo	4,907	125	*	1,133	*	*	*	2,993	*	*
Moyale	14,887	*	-	2,526	308	*	*	6,985	216	4,320

b) Rural Holdings

Geographic Areas	CAMELS AGED 4 YEARS AND OLDER									
	TOTAL	MALES				FEMALES				
		Meat	Draught	Transportation	Other	Meat	Draught	Milk	Transportation	Other
Somale	91,061	1,098	396	24,249	3,394	1,192	372	45,627	3,426	11,308
Shinele Zone	3,621	*	-	1,411	-	*	-	1,522	522	*
Shinele	1,931	*	-	874	-	*	-	641	250	*
Erer	1,690	-	-	537	-	-	-	881	272	-
Jijiga Zone	28,546	231	266	13,939	*	*	*	8,474	1,763	3,645
Jijiga	2,549	*	-	1,882	*	-	-	*	*	-
Teferi Ber	13,625	*	*	5,720	-	-	*	3,911	735	*
Kebri Beyah	12,373	*	*	6,337	*	*	-	4,210	*	*
Liben Zone	58,894	819	129	8,899	3,262	1,140	298	35,632	1,141	7,573
Filtu	39,568	555	*	5,345	2,918	*	*	25,991	757	2,873
Dolo Odo	4,438	*	*	1,028	*	-	*	2,656	*	*
Moyale	14,887	*	-	2,526	308	*	*	6,985	216	4,320

c) Urban Holdings

Geographic Areas	CAMELS AGED 4 YEARS AND OLDER									
	TOTAL	MALES				FEMALES				
		Meat	Draught	Transportation	Other	Meat	Draught	Milk	Transportation	Other
Somale	1,761	64	*	602	*	*	-	979	69	*
Shinele Zone	658	*	-	250	*	-	-	327	45	*
Shinele	658	*	-	250	*	-	-	327	45	*
Jijiga Zone	626	27	*	244	-	-	-	311	22	*
Jijiga	129	*	-	29	-	-	-	68	*	-
Teferi Ber	119	4	*	88	-	-	-	19	4	-
Kebri Beyah	*	*	-	*	-	-	-	*	*	*
Liben Zone	*	*	-	*	-	*	-	*	*	-
Filtu	*	-	-	*	-	-	-	*	*	-
Dolo Odo	*	*	-	*	-	*	-	*	-	-

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
Somale	154,746	19,383	11,997	16,391	8,051	42,756	56,169	16	13
Shinele Zone	4,928	703	389	516	237	1,399	1,685	16	11
Shinele	1,635	209	129	121	138	563	476	19	10
Erer	3,293	493	260	395	99	836	1,209	15	11
Jijiga Zone	98,848	13,101	7,091	9,393	5,158	26,405	37,701	16	14
Jijiga	80,334	10,019	6,133	7,501	3,039	21,652	31,990	16	14
Teferi Ber	12,627	2,228	670	1,472	1,394	3,052	3,811	17	14
Kebri Beyah	5,886	855	288	419	725	1,701	1,899	15	15
Liben Zone	50,970	5,580	4,518	6,482	2,655	14,952	16,783	15	12
Filtu	11,645	1,707	1,304	1,311	1,160	2,336	3,827	14	11
Dolo Odo	22,011	2,522	1,501	3,210	1,106	5,924	7,748	14	10
Moyale	17,314	1,351	1,713	1,962	389	6,692	5,208	18	15

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
Somale	125,195	15,475	10,311	13,045	5,669	34,714	45,982	16	13
Shinele Zone	3,769	526	341	399	179	994	1,330	16	11
Shinele	*	*	*	*	*	*	-	20	9
Erer	3,293	493	260	395	99	836	1,209	15	11
Jijiga Zone	80,788	10,452	6,067	7,473	3,384	21,898	31,514	16	14
Jijiga	69,816	8,534	5,553	6,374	2,384	18,697	28,274	16	14
Teferi Ber	9,300	1,570	488	1,099	757	2,738	2,649	17	13
Kebri Beyah	1,672	348	*	-	*	464	591	12	12
Liben Zone	40,637	4,497	3,903	5,173	2,105	11,822	13,138	16	12
Filtu	11,577	1,693	1,298	1,310	1,158	2,310	3,808	13	11
Dolo Odo	11,746	1,453	892	1,902	558	2,819	4,122	14	10
Moyale	17,314	1,351	1,713	1,962	389	6,692	5,208	18	15

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
Somale	29,552	3,908	1,686	3,346	2,382	8,042	10,187	16	13
Shinele Zone	1,159	177	48	117	58	404	355	19	11
Shinele	1,159	177	48	117	58	404	355	19	11
Jijiga Zone	18,060	2,649	1,024	1,920	1,774	4,507	6,186	17	14
Jijiga	10,518	1,485	580	1,127	655	2,956	3,716	17	13
Teferi Ber	3,328	658	182	374	637	315	1,162	18	15
Kebri Beyah	4,214	507	262	419	481	1,237	1,308	17	17
Liben Zone	10,333	1,083	615	1,309	551	3,131	3,646	14	11
Filtu	68	14	*	*	*	26	19	18	18
Dolo Odo	10,265	1,069	609	1,308	549	3,105	3,627	14	10

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
Somale	7,212	49,224	6,347	2	49,224	*	-	-	*	-	-
Shinele Zone	91	320	91	2	320	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-	-	-
Erer	91	320	91	2	320	-	-	-	-	-	-
Jijiga Zone	6,209	*	5,729	2	*	*	-	-	*	-	-
Jijiga	5,782	*	5,322	2	*	*	-	-	*	-	-
Teferi Ber	*	*	*	2	*	*	-	-	-	-	-
Kebri Beyah	*	*	*	2	*	-	-	-	-	-	-
Liben Zone	912	*	527	2	*	*	-	-	-	-	-
Filtu	*	*	*	2	*	-	-	-	-	-	-
Dolo Odo	*	*	*	4	*	*	-	-	-	-	-
Moyale	*	*	*	2	*	-	-	-	-	-	-

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 of hives	Avg. frequency of production	Total annual honey production
Somale	6,607	49,224	6,347	2	49,224	-	-	-	*	-	-
Shinele Zone	91	320	91	2	320	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-	-	-
Erer	91	320	91	2	320	-	-	-	-	-	-
Jijiga Zone	5,989	*	5,729	2	*	-	-	-	*	-	-
Jijiga	5,582	*	5,322	2	*	-	-	-	*	-	-
Teferi Ber	*	*	*	2	*	-	-	-	-	-	-
Kebri Beyah	*	*	*	2	*	-	-	-	-	-	-
Liben Zone	527	*	527	2	*	-	-	-	-	-	-
Filtu	*	*	*	2	*	-	-	-	-	-	-
Dolo Odo	*	*	*	4	*	-	-	-	-	-	-
Moyale	*	*	*	2	*	-	-	-	-	-	-

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
Somale	*	-	-	2	-	*	-	-	-	-	-
Shinele Zone	-	-	-	-	-	-	-	-	-	-	-
Shinele	-	-	-	-	-	-	-	-	-	-	-
Jijiga Zone	*	-	-	2	-	*	-	-	-	-	-
Jijiga	*	-	-	2	-	*	-	-	-	-	-
Teferi Ber	*	-	-	1	-	*	-	-	-	-	-
Kebri Beyah	-	-	-	1	-	-	-	-	-	-	-
Liben Zone	*	-	-	1	-	*	-	-	-	-	-
Filtu	-	-	-	-	-	-	-	-	-	-	-
Dolo Odo	*	-	-	1	-	*	-	-	-	-	-

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)
Somale	107,305	131,694	1.755	8	49,892,646	46,606	30,786	3.606	13	32,473,089
Shinele Zone	8,321	6,197	2.272	8	2,516,726	1,849	1,262	3.789	12	1,586,481
Shinele	4,614	3,448	2.558	8	1,488,716	968	805	4.476	11	1,007,757
Erer	3,707	2,749	2.046	8	1,028,010	881	456	3.207	13	578,724
Jijiga Zone	66,572	87,534	1.745	7	32,776,347	8,785	6,341	3.103	12	4,952,699
Jijiga	24,292	29,306	1.771	7	9,510,712	*	315	5.421	13	*
Teferi Ber	18,273	30,374	1.396	8	8,607,922	3,929	3,196	2.351	12	1,452,358
Kebri Beyah	24,007	27,853	2.108	8	14,657,714	4,434	2,830	3.591	12	3,094,592
Liben Zone	32,412	37,963	1.691	10	14,599,574	35,972	23,183	3.791	14	25,933,909
Filtu	11,688	9,786	1.909	9	4,062,465	25,994	13,413	3.752	14	15,118,287
Dolo Odo	11,003	13,423	1.705	12	5,622,528	2,993	3,214	2.985	15	2,931,231
Moyale	9,721	14,753	1.512	9	4,914,580	6,985	6,556	4.235	13	7,884,391

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 Producton	Average Lactation Period (Mn)	Total Milk Production (Lt)
Somale	102,343	126,539	1.738	8	47,672,700	45,627	30,375	3.594	13	32,005,237
Shinele Zone	6,460	4,758	1.983	8	1,742,143	1,522	1,101	3.353	12	1,266,338
Shinele	2,753	2,010	1.851	8	714,133	641	645	3.597	11	687,613
Erer	3,707	2,749	2.046	8	1,028,010	881	456	3.207	13	578,724
Jijiga Zone	64,992	85,384	1.742	7	32,000,970	8,474	6,202	3.104	12	4,891,698
Jijiga	23,748	28,692	1.76	7	9,233,962	*	*	5.573	12	*
Teferi Ber	17,477	29,196	1.395	8	8,249,106	3,911	3,184	2.354	12	1,445,550
Kebri Beyah	23,767	27,496	2.109	8	14,517,902	4,210	2,784	3.591	12	3,062,959
Liben Zone	30,891	36,396	1.684	11	13,929,587	35,632	23,072	3.799	14	25,847,201
Filtu	11,651	9,751	1.907	9	4,041,585	25,991	13,410	3.751	14	15,114,567
Dolo Odo	9,519	11,892	1.69	13	4,973,421	2,656	3,106	3.002	16	2,848,243
Moyale	9,721	14,753	1.512	9	4,914,580	6,985	6,556	4.235	13	7,884,391

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)
Somale	4,961	5,155	2.21	8	2,219,947	979	411	4.441	12	467,853
Shinele Zone	1,861	1,439	3.595	7	774,583	327	160	6.514	12	320,143
Shinele	1,861	1,439	3.595	7	774,583	327	160	6.514	12	320,143
Jijiga Zone	1,580	2,150	1.849	7	775,377	311	139	2.979	13	61,001
Jijiga	544	615	2.313	7	276,750	68	81	2.5	17	22,560
Teferi Ber	797	1,178	1.421	8	358,815	19	12	1.94	13	6,808
Kebri Beyah	240	357	2.076	7	139,812	*	46	3.607	12	*
Liben Zone	1,520	1,566	1.819	10	669,987	*	*	2.692	12	*
Filtu	37	35	2.316	9	20,880	*	*	4	12	*
Dolo Odo	1,483	1,531	1.805	10	649,107	*	*	2.608	12	*

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
Somale	512,320	179,873	-	*	332,322	-	*
Shinele Zone	21,495	6,423	-	-	15,072	-	-
Shinele	11,464	3,049	-	-	8,415	-	-
Erer	10,031	3,374	-	-	6,657	-	-
Jijiga Zone	349,921	133,680	-	*	216,190	-	*
Jijiga	123,773	57,144	-	-	66,629	-	-
Teferi Ber	110,240	37,138	-	*	73,053	-	*
Kebri Beyah	115,907	39,398	-	-	76,509	-	-
Liben Zone	140,904	39,770	-	*	101,060	-	*
Filtu	44,788	13,622	-	-	31,166	-	-
Dolo Odo	36,002	9,808	-	*	26,119	-	*
Moyale	60,115	16,340	-	-	43,774	-	-

b)Rural Holdings

Geographic Areas	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Somale	495,403	174,997	-	*	320,281	-	*
Shinele Zone	17,084	5,264	-	-	11,820	-	-
Shinele	7,053	1,890	-	-	5,163	-	-
Erer	10,031	3,374	-	-	6,657	-	-
Jijiga Zone	341,992	131,189	-	*	210,753	-	*
Jijiga	121,511	56,335	-	-	65,176	-	-
Teferi Ber	106,373	36,064	-	*	70,258	-	*
Kebri Beyah	114,108	38,790	-	-	75,318	-	-
Liben Zone	136,327	38,544	-	*	97,708	-	*
Filtu	44,681	13,592	-	-	31,089	-	-
Dolo Odo	31,531	8,612	-	*	22,845	-	*
Moyale	60,115	16,340	-	-	43,774	-	-

c) Urban Holdings

Geographic Areas	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Somale	16,917	4,876	-	-	12,041	-	-
Shinele Zone	4,411	1,160	-	-	3,251	-	-
Shinele	4,411	1,160	-	-	3,251	-	-
Jijiga Zone	7,929	2,491	-	-	5,438	-	-
Jijiga	2,262	809	-	-	1,453	-	-
Teferi Ber	3,868	1,073	-	-	2,794	-	-
Kebri Beyah	1,799	609	-	-	1,190	-	-
Liben Zone	4,577	1,226	-	-	3,352	-	-
Filtu	107	30	-	-	77	-	-
Dolo Odo	4,470	1,196	-	-	3,275	-	-

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
Somale	454,821	130,713	-	-	324,108	-	-
Shinele Zone	34,738	9,818	-	-	24,920	-	-
Shinele	17,376	4,702	-	-	12,674	-	-
Erer	17,362	5,116	-	-	12,246	-	-
Jijiga Zone	324,839	94,595	-	-	230,244	-	-
Jijiga	44,720	15,273	-	-	29,447	-	-
Teferi Ber	127,965	39,069	-	-	88,896	-	-
Kebri Beyah	152,154	40,254	-	-	111,901	-	-
Liben Zone	95,244	26,300	-	-	68,944	-	-
Filtu	39,588	12,085	-	-	27,504	-	-
Dolo Odo	43,942	10,823	-	-	33,119	-	-
Moyale	11,714	3,392	-	-	8,321	-	-

b) Rural Holdings

Geographic Areas	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Somale	430,539	123,452	-	-	307,087	-	-
Shinele Zone	26,996	7,513	-	-	19,483	-	-
Shinele	9,634	2,397	-	-	7,237	-	-
Erer	17,362	5,116	-	-	12,246	-	-
Jijiga Zone	315,374	91,641	-	-	223,733	-	-
Jijiga	41,440	14,181	-	-	27,260	-	-
Teferi Ber	124,155	37,834	-	-	86,321	-	-
Kebri Beyah	149,779	39,626	-	-	110,153	-	-
Liben Zone	88,169	24,298	-	-	63,871	-	-
Filtu	39,515	12,064	-	-	27,452	-	-
Dolo Odo	36,940	8,842	-	-	28,098	-	-
Moyale	11,714	3,392	-	-	8,321	-	-

c) Urban Holdings

Geographic Areas	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Somale	24,282	7,261	-	-	17,021	-	-
Shinele Zone	7,742	2,305	-	-	5,437	-	-
Shinele	7,742	2,305	-	-	5,437	-	-
Jijiga Zone	9,465	2,954	-	-	6,511	-	-
Jijiga	3,279	1,092	-	-	2,187	-	-
Teferi Ber	3,810	1,234	-	-	2,576	-	-
Kebri Beyah	2,375	628	-	-	1,748	-	-
Liben Zone	7,075	2,002	-	-	5,073	-	-
Filtu	73	21	-	-	52	-	-
Dolo Odo	7,002	1,981	-	-	5,021	-	-

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
Somale	574,561	154,986	-	-	419,556	-	*
Shinele Zone	80,804	21,322	-	-	59,482	-	-
Shinele	44,496	11,149	-	-	33,347	-	-
Erer	36,308	10,173	-	-	26,135	-	-
Jijiga Zone	293,698	88,142	-	-	205,556	-	-
Jijiga	90,605	29,120	-	-	61,486	-	-
Teferi Ber	100,007	29,436	-	-	70,570	-	-
Kebri Beyah	103,086	29,586	-	-	73,500	-	-
Liben Zone	200,059	45,522	-	-	154,517	-	*
Filtu	101,490	24,248	-	-	77,243	-	-
Dolo Odo	75,200	15,790	-	-	59,390	-	*
Moyale	23,369	5,484	-	-	17,885	-	-

b) Rural Holdings

Geographic Areas	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Somale	541,103	145,473	-	-	395,610	-	*
Shinele Zone	72,403	19,065	-	-	53,338	-	-
Shinele	36,096	8,893	-	-	27,203	-	-
Erer	36,308	10,173	-	-	26,135	-	-
Jijiga Zone	277,795	83,246	-	-	194,549	-	-
Jijiga	85,435	27,252	-	-	58,183	-	-
Teferi Ber	96,127	28,328	-	-	67,799	-	-
Kebri Beyah	96,233	27,666	-	-	68,567	-	-
Liben Zone	190,905	43,162	-	-	147,723	-	*
Filtu	101,316	24,195	-	-	77,122	-	-
Dolo Odo	66,219	13,483	-	-	52,716	-	*
Moyale	23,369	5,484	-	-	17,885	-	-

c) Urban Holdings

Geographic Areas	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Somale	33,458	9,512	-	-	23,946	-	-
Shinele Zone	8,400	2,256	-	-	6,144	-	-
Shinele	8,400	2,256	-	-	6,144	-	-
Jijiga Zone	15,903	4,896	-	-	11,007	-	-
Jijiga	5,170	1,868	-	-	3,302	-	-
Teferi Ber	3,879	1,108	-	-	2,771	-	-
Kebri Beyah	6,853	1,920	-	-	4,933	-	-
Liben Zone	9,154	2,360	-	-	6,794	-	-
Filtu	174	53	-	-	121	-	-
Dolo Odo	8,980	2,307	-	-	6,673	-	-

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
Somale	86,706	55,376	98,662	2,408	19,447	*
Shinele Zone	3,608	*	2,413	*	281	*
Shinele	2,694	*	*	*	281	-
Erer	913	162	809	*	-	*
Jijiga Zone	27,206	*	6,196	*	476	*
Jijiga	18,275	*	*	*	*	-
Teferi Ber	7,890	*	1,275	*	*	-
Kebri Beyah	*	*	*	-	-	*
Liben Zone	55,892	38,468	90,053	2,093	18,690	*
Filtu	19,185	21,899	61,039	297	16,943	-
Dolo Odo	17,612	13,653	24,994	1,452	1,077	-
Moyale	19,095	2,916	4,021	344	671	*

b) Rural Holdings

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Somale	83,784	53,031	95,390	2,225	19,438	*
Shinele Zone	3,216	*	2,330	*	277	*
Shinele	2,303	*	*	*	277	-
Erer	913	162	809	*	-	*
Jijiga Zone	26,065	*	5,380	*	476	-
Jijiga	18,175	*	*	*	*	-
Teferi Ber	6,891	*	*	*	*	-
Kebri Beyah	*	*	*	-	-	-
Liben Zone	54,504	36,788	87,681	1,946	18,685	*
Filtu	19,074	21,835	60,887	297	16,938	-
Dolo Odo	16,335	12,036	22,774	1,306	1,077	-
Moyale	19,095	2,916	4,021	344	671	*

c) Urban Holdings

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Somale	2,922	2,346	3,271	184	*	*
Shinele Zone	392	*	*	-	*	-
Shinele	392	*	*	-	*	-
Jijiga Zone	1,142	631	816	37	-	*
Jijiga	99	341	108	*	-	-
Teferi Ber	999	274	602	29	-	-
Kebri Beyah	*	*	*	-	-	*
Liben Zone	1,389	1,680	2,372	147	*	-
Filtu	111	64	152	-	*	-
Dolo Odo	1,278	1,616	2,220	147	-	-

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
Somale	574,561	154,986	-	-	419,556	-	*
Shinele Zone	80,804	21,322	-	-	59,482	-	-
Shinele	44,496	11,149	-	-	33,347	-	-
Erer	36,308	10,173	-	-	26,135	-	-
Jijiga Zone	293,698	88,142	-	-	205,556	-	-
Jijiga	90,605	29,120	-	-	61,486	-	-
Teferi Ber	100,007	29,436	-	-	70,570	-	-
Kebri Beyah	103,086	29,586	-	-	73,500	-	-
Liben Zone	200,059	45,522	-	-	154,517	-	*
Filtu	101,490	24,248	-	-	77,243	-	-
Dolo Odo	75,200	15,790	-	-	59,390	-	*
Moyale	23,369	5,484	-	-	17,885	-	-

b) Rural Holdings

Geographic Areas	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Somale	541,103	145,473	-	-	395,610	-	*
Shinele Zone	72,403	19,065	-	-	53,338	-	-
Shinele	36,096	8,893	-	-	27,203	-	-
Erer	36,308	10,173	-	-	26,135	-	-
Jijiga Zone	277,795	83,246	-	-	194,549	-	-
Jijiga	85,435	27,252	-	-	58,183	-	-
Teferi Ber	96,127	28,328	-	-	67,799	-	-
Kebri Beyah	96,233	27,666	-	-	68,567	-	-
Liben Zone	190,905	43,162	-	-	147,723	-	*
Filtu	101,316	24,195	-	-	77,122	-	-
Dolo Odo	66,219	13,483	-	-	52,716	-	*
Moyale	23,369	5,484	-	-	17,885	-	-

c) Urban Holdings

Geographic Areas	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Somale	33,458	9,512	-	-	23,946	-	-
Shinele Zone	8,400	2,256	-	-	6,144	-	-
Shinele	8,400	2,256	-	-	6,144	-	-
Jijiga Zone	15,903	4,896	-	-	11,007	-	-
Jijiga	5,170	1,868	-	-	3,302	-	-
Teferi Ber	3,879	1,108	-	-	2,771	-	-
Kebri Beyah	6,853	1,920	-	-	4,933	-	-
Liben Zone	9,154	2,360	-	-	6,794	-	-
Filtu	174	53	-	-	121	-	-
Dolo Odo	8,980	2,307	-	-	6,673	-	-

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
Somale	63,732	71,408	71,813	2,334	9,110	15,802
Shinele Zone	2,302	5,242	10,610	82	648	1,297
Shinele	1,179	2,750	5,621	82	468	78
Erer	1,123	2,492	4,989	-	180	1,219
Jijiga Zone	46,237	46,004	29,006	1,267	1,974	6,068
Jijiga	9,688	4,026	6,272	*	*	4,767
Teferi Ber	15,443	20,715	9,055	339	773	*
Kebri Beyah	21,106	21,262	13,679	*	*	657
Liben Zone	15,193	20,162	32,196	985	6,488	8,438
Filtu	4,462	2,954	7,203	*	2,519	*
Dolo Odo	5,521	13,900	22,900	496	*	3,253
Moyale	5,210	3,308	2,094	324	1,708	4,995

b) Rural Holdings

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Somale	62,066	68,289	67,937	2,264	9,015	12,156
Shinele Zone	1,712	3,977	9,069	79	593	1,242
Shinele	589	1,484	4,080	79	*	*
Erer	1,123	2,492	4,989	-	180	1,219
Jijiga Zone	45,484	45,400	28,043	1,224	1,961	4,193
Jijiga	9,516	*	6,006	*	*	3,640
Teferi Ber	15,044	20,453	8,871	322	770	*
Kebri Beyah	20,924	21,102	13,166	*	*	*
Liben Zone	14,870	18,912	30,825	962	6,461	6,721
Filtu	4,461	2,951	7,202	*	2,519	*
Dolo Odo	5,200	12,652	21,530	473	*	*
Moyale	5,210	3,308	2,094	324	1,708	4,995

c) Urban Holdings

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Somale	1,666	3,119	3,876	69	94	3,646
Shinele Zone	590	1,265	1,541	*	54	*
Shinele	590	1,265	1,541	*	54	*
Jijiga Zone	753	604	964	43	13	1,875
Jijiga	172	181	266	*	10	1,127
Teferi Ber	400	262	184	*	*	129
Kebri Beyah	*	*	514	18	-	619
Liben Zone	323	1,250	1,371	*	*	1,717
Filtu	*	*	*	-	-	-
Dolo Odo	322	1,247	1,370	*	*	1,717

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
Somale	6,599	*	8,721	188	1,398	*
Shinele Zone	212	34	508	*	*	-
Shinele	118	*	-	*	*	-
Erer	94	32	508	-	-	-
Jijiga Zone	1,845	*	905	*	*	*
Jijiga	396	20	*	-	-	-
Teferi Ber	1,241	*	*	*	*	-
Kebri Beyah	*	*	*	-	-	*
Liben Zone	4,541	3,490	7,308	167	1,288	*
Filtu	1,746	913	2,897	*	899	-
Dolo Odo	1,385	2,519	*	*	*	*
Moyale	1,411	*	67	*	151	*

b) Rural Holdings

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Somale	6,113	*	8,045	157	1,398	*
Shinele Zone	173	32	508	*	*	-
Shinele	*	-	-	*	*	-
Erer	94	32	508	-	-	-
Jijiga Zone	1,525	*	*	-	*	-
Jijiga	*	-	*	-	-	-
Teferi Ber	*	*	*	-	*	-
Kebri Beyah	*	*	-	-	-	-
Liben Zone	4,414	3,229	6,856	150	1,288	*
Filtu	1,745	912	2,896	*	899	-
Dolo Odo	1,258	2,259	*	*	*	-
Moyale	1,411	*	67	*	151	*

c) Urban Holdings

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Somale	486	380	676	32	-	*
Shinele Zone	*	*	-	-	-	-
Shinele	*	*	-	-	-	-
Jijiga Zone	320	118	224	*	-	*
Jijiga	78	20	26	-	-	-
Teferi Ber	*	*	*	*	-	-
Kebri Beyah	-	*	*	-	-	*
Liben Zone	127	261	453	*	-	*
Filtu	*	*	*	-	-	-
Dôlo Odo	126	260	452	*	-	*

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
Somale	31,585	31,486	33,698	627	3,368	13,944
Shinele Zone	1,670	3,933	6,821	*	168	1,251
Shinele	814	2,139	3,250	*	66	71
Erer	856	1,793	3,572	-	102	1,180
Jijiga Zone	24,715	19,075	14,937	460	*	5,010
Jijiga	4,857	1,995	4,101	*	10	4,029
Teferi Ber	7,288	5,630	4,737	*	271	*
Kebri Beyah	12,570	11,451	6,099	*	*	436
Liben Zone	5,200	8,478	11,940	156	2,508	7,683
Filtu	1,409	1,039	2,194	*	689	*
Dolo Odo	1,710	4,730	8,291	*	*	3,004
Moyale	2,080	2,709	1,455	78	813	4,568

b) Rural Holdings

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Somale	30,538	29,063	31,065	606	3,307	10,687
Shinele Zone	1,126	2,769	5,402	*	131	1,196
Shinele	270	975	1,831	*	*	*
Erer	856	1,793	3,572	-	102	1,180
Jijiga Zone	24,348	18,696	14,495	448	*	3,461
Jijiga	4,789	1,860	3,970	*	-	2,976
Teferi Ber	7,129	5,500	4,649	*	267	*
Kebri Beyah	12,429	11,336	5,877	*	*	-
Liben Zone	5,064	7,598	11,167	149	2,497	6,030
Filtu	1,409	1,037	2,194	*	689	*
Dolo Odo	1,575	3,853	7,518	*	*	*
Moyale	2,080	2,709	1,455	78	813	4,568

c) Urban Holders

Geographic Areas	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Somale	1,047	2,423	2,633	21	61	3,257
Shinele Zone	544	1,164	1,419	*	37	*
Shinele	544	1,164	1,419	*	37	*
Jijiga Zone	368	379	442	12	13	1,549
Jijiga	68	134	131	-	10	1,054
Teferi Ber	159	130	88	*	*	59
Kebri Beyah	*	115	222	*	-	436
Liben Zone	136	879	773	*	*	1,653
Filtu	-	*	-	-	-	-
Dolo Odo	136	877	773	*	*	1,653

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
Somale	100	69.06	22.25	0.05	2.53	0.43	5.68
Shinele Zone	100	82.34	9.62	0.02	1	2.7	4.31
Shinele	100	81.69	3.62	0.03	1.74	5.29	7.63
Erer	100	83.03	15.91	-	0.23	-	0.83
Jijiga Zone	100	70.03	23.48	0.05	3.17	0.27	3
Jijiga	100	70.39	23.58	0.08	1.58	0.21	4.16
Teferi Ber	100	74.85	17.2	*	6.2	0.14	1.6
Kebri Beyah	100	63.65	30.59	0.07	2.96	0.53	2.2
Liben Zone	100	62.88	21.19	0.06	0.85	0.43	14.59
Filtu	100	65.11	2.93	-	1.66	0.02	30.28
Dolo Odo	100	37.83	44.66	0.14	0.88	0.98	15.5
Moyale	100	94.89	3.78	-	0.17	-	1.15

b) Rural Holdings

Geographic Areas	Total (%)	Green Fodder	Crop Residue	Improved Feed	Hay	By-Product	Others
Somale	100	71.45	22.23	0.05	2.39	0.19	3.7
Shinele Zone	100	83.11	12.07	-	0.14	2.21	2.46
Shinele	100	83.24	5.45	-	-	6.03	5.28
Erer	100	83.03	15.91	-	0.23	-	0.83
Jijiga Zone	100	72.05	23.79	0.05	2.97	0.05	1.09
Jijiga	100	72.87	24.34	0.07	1.07	-	1.66
Teferi Ber	100	75.83	16.93	-	6.19	0.14	0.9
Kebri Beyah	100	65.71	30.88	0.07	3.22	0.06	0.05
Liben Zone	100	67.12	19.11	0.05	0.92	0.23	12.56
Filtu	100	65.25	2.94	-	1.67	0.02	30.13
Dolo Odo	100	41.18	46.54	0.14	1.09	0.62	10.42
Moyale	100	94.89	3.78	-	0.17	-	1.15

c) Urban Holdings

Geographic Areas	Total (%)	Green Fodder	Crop Residue	Improved Feed	Hay	By-Product	Others
Somale	100	46.16	22.39	0.13	3.88	2.74	24.71
Shinele Zone	100	79.76	1.35	0.08	3.89	4.36	10.55
Shinele	100	79.76	1.35	0.08	3.89	4.36	10.55
Jijiga Zone	100	46.96	20.01	0.14	5.4	2.68	24.81
Jijiga	100	38.03	13.65	0.21	8.27	2.97	36.88
Teferi Ber	100	62.61	20.61	0.01	6.31	0.11	10.35
Kebri Beyah	100	46.84	28.2	0.14	0.77	4.32	19.73
Liben Zone	100	27.87	38.35	0.12	0.24	2.07	31.35
Filtu	100	45.26	2.31	-	-	-	52.44
Dolo Odo	100	27.59	38.92	0.12	0.25	2.1	31.02

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
Somale	98,159	77,582	318	14,694	1,772	20,358
Shinele Zone	5,210	2,064	*	258	416	949
Shinele	2,664	492	*	218	416	834
Erer	2,546	1,573	-	40	-	115
Jijiga Zone	72,420	64,675	*	13,387	648	11,206
Jijiga	35,502	32,774	*	4,071	206	8,599
Teferi Ber	19,871	15,875	*	6,982	*	1,769
Kebri Beyah	17,047	16,026	*	2,334	206	839
Liben Zone	20,529	10,843	68	1,049	708	8,203
Filtu	4,978	951	-	499	*	3,714
Dolo Odo	8,431	8,559	68	*	704	3,596
Moyale	7,120	1,333	-	81	-	893

b) Rural Holdings

Geographic Areas	Green Fodder	Crop Residue	Improved Feed	Hay	By-Product	Others
Somale	90,511	72,497	276	13,613	919	15,025
Shinele Zone	4,052	1,980	-	40	232	443
Shinele	1,506	408	-	-	232	329
Erer	2,546	1,573	-	40	-	115
Jijiga Zone	67,454	61,577	*	12,543	*	8,131
Jijiga	33,516	31,800	*	3,585	-	6,787
Teferi Ber	18,506	14,918	-	6,694	*	*
Kebri Beyah	15,432	14,860	*	2,263	-	*
Liben Zone	19,005	8,939	52	1,029	*	6,450
Filtu	4,941	946	-	499	*	3,679
Dolo Odo	6,944	6,660	52	*	*	1,878
Moyale	7,120	1,333	-	81	-	893

c) Urban Holdings

Geographic Areas	Green Fodder	Crop Residue	Improved Feed	Hay	By-Product	Others
Somale	7,648	5,086	42	1,082	853	5,333
Shinele Zone	1,158	84	*	218	184	505
Shinele	1,158	84	*	218	184	505
Jijiga Zone	4,966	3,098	22	844	434	3,075
Jijiga	1,987	974	17	486	206	1,811
Teferi Ber	1,365	958	*	288	21	510
Kebri Beyah	1,615	1,166	*	71	206	754
Liben Zone	1,525	1,904	*	19	235	1,753
Filtu	37	5	-	-	-	35
Dolo Odo	1,488	1,899	*	19	235	1,718

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
Somale	100	66.69	28.21	0.17	4.94
Shinele Zone	100	75.57	20.13	-	4.3
Shinele	100	82.08	12.91	-	5.01
Erer	100	69.18	27.21	-	3.61
Jijiga Zone	100	65.97	28.87	0.1	5.06
Jijiga	100	69.44	25.32	0.06	5.17
Teferi Ber	100	67.04	27.7	0.02	5.24
Kebri Beyah	100	59.43	35.62	0.26	4.69
Liben Zone	100	66.59	28.28	0.39	4.73
Filtu	100	69.9	20.06	0.21	9.83
Dolo Odo	100	57.69	38.91	0.77	2.62
Moyale	100	74.37	22.09	0.08	3.47

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF MILK UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	65.83	28.96	0.16	5.06
Shinele Zone	100	71.74	23.56	-	4.7
Shinele	100	75.91	17.62	-	6.48
Erer	100	69.18	27.21	-	3.61
Jijiga Zone	100	65.08	29.72	0.09	5.1
Jijiga	100	69.13	25.65	0.04	5.19
Teferi Ber	100	65.87	28.86	0.01	5.26
Kebri Beyah	100	57.86	37.06	0.28	4.8
Liben Zone	100	66.74	27.91	0.36	4.99
Filtu	100	69.71	20.19	0.21	9.89
Dolo Odo	100	56.73	39.55	0.77	2.95
Moyale	100	74.37	22.09	0.08	3.47

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF MILK UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	81.35	15.42	0.34	2.89
Shinele Zone	100	92.38	5.05	-	2.56
Shinele	100	92.38	5.05	-	2.56
Jijiga Zone	100	85.76	9.88	0.24	4.12
Jijiga	100	81.64	12.85	0.89	4.62
Teferi Ber	100	85.56	9.43	0.06	4.95
Kebri Beyah	100	89.22	8.18	-	2.6
Liben Zone	100	64.3	34.25	0.77	0.68
Filtu	100	100	-	-	-
Dolo Odo	100	63.31	35.2	0.79	0.69

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
Somale	100	49.61	46.74	0.08	3.58
Shinele Zone	100	71.6	26.12	-	2.28
Shinele	100	86.52	11.65	-	1.83
Erer	100	56	41.24	-	2.76
Jijiga Zone	100	47.6	48.41	0.09	3.9
Jijiga	100	39.9	48.27	-	11.83
Teferi Ber	100	45.66	53.51	-	0.83
Kebri Beyah	100	55.39	44.07	0.23	0.32
Liben Zone	100	56.17	42.15	0.05	1.62
Filtu	100	39.47	58.08	0.1	2.35
Dolo Odo	100	56.86	41.72	-	1.42
Moyale	100	77.83	21.49	-	0.69

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF BUTTER UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	49.3	47.02	0.07	3.61
Shinele Zone	100	71.64	26.03	-	2.32
Shinele	100	88.87	9.28	-	1.84
Erer	100	56	41.24	-	2.76
Jijiga Zone	100	47.27	48.72	0.07	3.94
Jijiga	100	39.68	48.43	-	11.89
Teferi Ber	100	45.04	54.19	-	0.77
Kebri Beyah	100	55.23	44.27	0.2	0.31
Liben Zone	100	56.33	42.02	0.05	1.6
Filtu	100	39.47	58.08	0.1	2.35
Dolo Odo	100	66.17	33.83	-	-
Moyale	100	77.83	21.49	-	0.69

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF BUTTER UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	66.35	31.04	0.65	1.96
Shinele Zone	100	70.97	27.3	-	1.73
Shinele	100	70.97	27.3	-	1.73
Jijiga Zone	100	67.24	30.09	0.83	1.85
Jijiga	100	87.96	12.04	-	-
Teferi Ber	100	64.18	33.25	-	2.56
Kebri Beyah	100	68.3	28.02	2.92	0.76
Liben Zone	100	36.37	59.09	-	4.53
Filtu	-	-	-	-	-
Dolo Odo	100	36.37	59.09	-	4.53

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
Somale	100	98.12	1.12	-	0.75
Shinele Zone	100	95.05	-	-	4.95
Shinele	100	95.05	-	-	4.95
Erer	-	-	-	-	-
Jijiga Zone	100	99.85	0.15	-	-
Jijiga	100	100	-	-	-
Teferi Ber	100	100	-	-	-
Kebri Beyah	100	99.82	0.18	-	-
Liben Zone	100	91.85	4.69	-	3.46
Filtu	100	94.13	5.87	-	-
Dolo Odo	-	-	-	-	-
Moyale	100	91.08	4.29	-	4.62

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF CHEESE UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	98.19	1.04	-	0.77
Shinele Zone	-	-	-	-	-
Shinele	-	-	-	-	-
Erer	-	-	-	-	-
Jijiga Zone	100	100	-	-	-
Jijiga	100	100	-	-	-
Teferi Ber	-	-	-	-	-
Kebri Beyah	100	100	-	-	-
Liben Zone	100	91.85	4.69	-	3.46
Filtu	100	94.13	5.87	-	-
Dolo Odo	-	-	-	-	-
Moyale	100	91.08	4.29	-	4.62

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF CHEESE UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	96.05	3.61	-	0.33
Shinele Zone	100	95.05	-	-	4.95
Shinele	100	95.05	-	-	4.95
Jijiga Zone	100	96.13	3.87	-	-
Jijiga	-	-	-	-	-
Teferi Ber	100	100	-	-	-
Kebri Beyah	100	95.92	4.08	-	-
Liben Zone	-	-	-	-	-
Filtu	-	-	-	-	-
Dolo Odo	-	-	-	-	-

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
Somale	100	50.82	14.23	0.31	34.63
Shinele Zone	100	62.45	5.67	-	31.88
Shinele	100	62.45	5.67	-	31.88
Erer	-	-	-	-	-
Jijiga Zone	100	41.65	18.07	0.93	39.35
Jijiga	100	47.59	15.36	1.98	35.07
Teferi Ber	100	34.24	16.37	-	49.39
Kebri Beyah	100	37.53	22.7	-	39.77
Liben Zone	100	53.4	13.21	0.13	33.26
Filtu	100	41.4	5.44	0.06	53.1
Dolo Odo	100	69.78	5.48	0.63	24.11
Moyale	100	54.27	20.18	-	25.54

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF BEEF UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	50.54	14.09	0.2	35.17
Shinele Zone	100	67.52	-	-	32.48
Shinele	100	67.52	-	-	32.48
Erer	-	-	-	-	-
Jijiga Zone	100	40.5	17.73	0.44	41.33
Jijiga	100	47.57	13.96	0.95	37.53
Teferi Ber	100	27.53	17.29	-	55.18
Kebri Beyah	100	37.53	22.7	-	39.77
Liben Zone	100	53.3	13.13	0.13	33.44
Filtu	100	41.4	5.44	0.06	53.1
Dolo Odo	100	70.37	4.45	0.67	24.5
Moyale	100	54.27	20.18	-	25.54

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF BEEF UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	59.57	18.91	3.85	17.67
Shinele Zone	100	59.59	8.92	-	31.49
Shinele	100	59.59	8.92	-	31.49
Jijiga Zone	100	58.19	22.96	8.08	10.78
Jijiga	100	47.9	32.3	14.58	5.21
Teferi Ber	100	70.93	11.39	-	17.68
Kebri Beyah	-	-	-	-	-
Liben Zone	100	61.68	19.66	-	18.66
Filtu	-	-	-	-	-
Dolo Odo	100	61.68	19.66	-	18.66

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
Somale	100	81.57	6.21	0.46	11.76
Shinele Zone	100	85.71	2.9	-	11.4
Shinele	100	81.1	3.96	-	14.94
Erer	100	91.76	1.51	-	6.73
Jijiga Zone	100	85.87	8.41	0.27	5.45
Jijiga	100	76.07	18.06	0.59	5.28
Teferi Ber	100	91.84	1.93	-	6.23
Kebri Beyah	100	92.65	2.12	0.1	5.13
Liben Zone	100	73.95	3.37	0.84	21.84
Filtu	100	69.35	2.57	0.61	27.47
Dolo Odo	100	73.11	3.11	1.16	22.62
Moyale	100	83.14	5.37	-	11.49

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF GOAT MEAT/MUTTON UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	82.43	5.31	0.44	11.83
Shinele Zone	100	87.25	1.46	-	11.29
Shinele	100	82.34	1.4	-	16.26
Erer	100	91.76	1.51	-	6.73
Jijiga Zone	100	86.79	7.49	0.28	5.44
Jijiga	100	75.58	18.43	0.66	5.32
Teferi Ber	100	93.68	0.16	-	6.16
Kebri Beyah	100	94.25	0.6	0.06	5.08
Liben Zone	100	74.81	2.61	0.76	21.82
Filtu	100	69.17	2.58	0.61	27.64
Dolo Odo	100	74.57	1.73	1.07	22.64
Moyale	100	83.14	5.37	-	11.49

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF GOAT MEAT/MUTTON UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	73.16	15.06	0.62	11.16
Shinele Zone	100	78.25	9.84	-	11.92
Shinele	100	78.25	9.84	-	11.92
Jijiga Zone	100	76.94	17.32	0.19	5.55
Jijiga	100	80.16	14.9	-	4.94
Teferi Ber	100	67.67	25.14	-	7.19
Kebri Beyah	100	77.45	16.53	0.52	5.51
Liben Zone	100	63.23	12.94	1.75	22.08
Filtu	100	100	-	-	-
Dolo Odo	100	62.53	13.18	1.78	22.5

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
Somale	100	32.31	53.58	0.25	13.85
Shinele Zone	100	38.53	50.35	-	11.11
Shinele	100	71.85	23.94	-	4.21
Erer	100	24.7	61.32	-	13.98
Jijiga Zone	100	26.22	60.87	0.19	12.73
Jijiga	100	24.86	61.02	0.2	13.93
Teferi Ber	100	29.58	64.6	0.17	5.65
Kebri Beyah	100	43.68	52.13	0.03	4.16
Liben Zone	100	41.61	42.02	0.39	15.98
Filtu	100	38.46	47.44	-	14.1
Dolo Odo	100	38.74	42.78	0.96	17.52
Moyale	100	44.93	39.96	-	15.12

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF EGGS UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	28.34	57	0.19	14.47
Shinele Zone	100	28.67	57.51	-	13.82
Shinele	100	69.79	18.03	-	12.18
Erer	100	24.7	61.32	-	13.98
Jijiga Zone	100	20.44	66.08	0.2	13.28
Jijiga	100	19.31	66.17	0.22	14.29
Teferi Ber	100	28.2	68.37	-	3.43
Kebri Beyah	100	41.92	55.79	-	2.28
Liben Zone	100	41.72	41.54	0.18	16.56
Filtu	100	38.09	47.73	-	14.18
Dolo Odo	100	36.94	41.54	0.65	20.87
Moyale	100	44.93	39.96	-	15.12

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF EGGS UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	52.12	36.52	0.6	10.77
Shinele Zone	100	72.49	25.72	-	1.79
Shinele	100	72.49	25.72	-	1.79
Jijiga Zone	100	58.37	31.88	0.1	9.65
Jijiga	100	70.72	18.36	-	10.92
Teferi Ber	100	32.37	56.94	0.52	10.16
Kebri Beyah	100	44.81	49.77	0.04	5.38
Liben Zone	100	41.16	44.12	1.33	13.4
Filtu	100	100	-	-	-
Dolo Odo	100	40.93	44.29	1.33	13.45

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
Somale	100	46.41	48.66	-	4.93
Shinele Zone	100	69.73	30.27	-	-
Shinele	-	-	-	-	-
Erer	100	69.73	30.27	-	-
Jijiga Zone	100	43	51.43	-	5.57
Jijiga	100	41.97	52.14	-	5.89
Teferi Ber	100	-	100	-	-
Kebri Beyah	100	62.44	37.56	-	-
Liben Zone	100	63.3	34.81	-	1.88
Filtu	100	90.82	0.86	-	8.31
Dolo Odo	100	29.94	70.06	-	-
Moyale	100	56.02	43.98	-	-

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF HONEY UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	46.43	48.63	-	4.95
Shinele Zone	100	69.73	30.27	-	-
Shinele	-	-	-	-	-
Erer	100	69.73	30.27	-	-
Jijiga Zone	100	42.94	51.48	-	5.58
Jijiga	100	41.83	52.27	-	5.9
Teferi Ber	-	-	-	-	-
Kebri Beyah	100	62.44	37.56	-	-
Liben Zone	100	64.08	33.99	-	1.93
Filtu	100	90.82	0.86	-	8.31
Dolo Odo	-	-	-	-	-
Moyale	100	56.02	43.98	-	-

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF HONEY UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	44.86	52.43	-	2.7
Shinele Zone	-	-	-	-	-
Shinele	-	-	-	-	-
Jijiga Zone	100	52.05	43.94	-	4
Jijiga	100	65	30	-	5
Teferi Ber	100	-	100	-	-
Kebri Beyah	-	-	-	-	-
Liben Zone	100	29.94	70.06	-	-
Filtu	-	-	-	-	-
Dolo Odo	100	29.94	70.06	-	-

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
Somale	-	-	-	-	-
Shinele Zone	-	-	-	-	-
Shinele	-	-	-	-	-
Erer	-	-	-	-	-
Jijiga Zone	-	-	-	-	-
Jijiga	-	-	-	-	-
Teferi Ber	-	-	-	-	-
Kebri Beyah	-	-	-	-	-
Liben Zone	-	-	-	-	-
Filtu	-	-	-	-	-
Dolo Odo	-	-	-	-	-
Moyale	-	-	-	-	-

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF WAX UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	-	-	-	-	-
Shinele Zone	-	-	-	-	-
Shinele	-	-	-	-	-
Erer	-	-	-	-	-
Jijiga Zone	-	-	-	-	-
Jijiga	-	-	-	-	-
Teferi Ber	-	-	-	-	-
Kebri Beyah	-	-	-	-	-
Liben Zone	-	-	-	-	-
Filtu	-	-	-	-	-
Dolo Odo	-	-	-	-	-
Moyale	-	-	-	-	-

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF WAX UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	-	-	-	-	-
Shinele Zone	-	-	-	-	-
Shinele	-	-	-	-	-
Jijiga Zone	-	-	-	-	-
Jijiga	-	-	-	-	-
Teferi Ber	-	-	-	-	-
Kebri Beyah	-	-	-	-	-
Liben Zone	-	-	-	-	-
Filtu	-	-	-	-	-
Dolo Odo	-	-	-	-	-

TABLE 7-34: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES BYREGION, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Areas	Total (%)	PERCENT OF WOOL UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	5.49	92.59	-	1.92
Shinele Zone	100	100	-	-	-
Shinele	-	-	-	-	-
Erer	100	100	-	-	-
Jijiga Zone	100	-	91.74	-	8.26
Jijiga	100	-	100	-	-
Teferi Ber	100	-	100	-	-
Kebri Beyah	100	-	-	-	100
Liben Zone	100	-	100	-	-
Filtu	100	-	100	-	-
Dolo Odo	100	-	100	-	-
Moyale	-	-	-	-	-

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF WOOL UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	5.79	94.21	-	-
Shinele Zone	100	100	-	-	-
Shinele	-	-	-	-	-
Erer	100	100	-	-	-
Jijiga Zone	100	-	100	-	-
Jijiga	-	-	-	-	-
Teferi Ber	100	-	100	-	-
Kebri Beyah	-	-	-	-	-
Liben Zone	100	-	100	-	-
Filtu	100	-	100	-	-
Dolo Odo	100	-	100	-	-
Moyale	-	-	-	-	-

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF WOOL UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	-	63.23	-	36.77
Shinele Zone	-	-	-	-	-
Shinele	-	-	-	-	-
Jijiga Zone	100	-	63.23	-	36.77
Jijiga	100	-	100	-	-
Teferi Ber	-	-	-	-	-
Kebri Beyah	100	-	-	-	100
Liben Zone	-	-	-	-	-
Filtu	-	-	-	-	-
Dolo Odo	-	-	-	-	-

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
Somale	100	41.38	43.04	0.14	15.44
Shinele Zone	100	77.82	21.14	-	1.05
Shinele	100	61.79	38.21	-	-
Erer	100	82.51	16.13	-	1.35
Jijiga Zone	100	27.08	49.06	0.12	23.74
Jijiga	100	62.52	9.94	-	27.54
Teferi Ber	100	2.3	73.89	0.22	23.59
Kebri Beyah	100	24.53	71.2	-	4.27
Liben Zone	100	59.87	35.57	0.17	4.39
Filtu	100	58.44	37.04	-	4.51
Dolo Odo	100	28.19	62.4	0.83	8.58
Moyale	100	76.82	20.99	-	2.2

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF HIDES UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	43.07	40.81	-	16.11
Shinele Zone	100	83.31	15.39	-	1.29
Shinele	100	100	-	-	-
Erer	100	82.51	16.13	-	1.35
Jijiga Zone	100	28.43	46.35	-	25.22
Jijiga	100	67.02	4.23	-	28.75
Teferi Ber	100	1.13	73.84	-	25.03
Kebri Beyah	100	28.48	67.13	-	4.39
Liben Zone	100	61.1	34.39	-	4.51
Filtu	100	58.44	37.04	-	4.51
Dolo Odo	100	29.97	60.13	-	9.9
Moyale	100	76.82	20.99	-	2.2

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF HIDES UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	14.79	78.14	2.31	4.76
Shinele Zone	100	54.28	45.72	-	-
Shinele	100	54.28	45.72	-	-
Jijiga Zone	100	11.22	80.94	1.51	6.33
Jijiga	100	2.03	86.64	-	11.33
Teferi Ber	100	18.48	74.56	3.25	3.71
Kebri Beyah	100	9.92	86.28	-	3.8
Liben Zone	100	16.58	77.21	6.22	-
Filtu	-	-	-	-	-
Dolo Odo	100	16.58	77.21	6.22	-

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
Somale	100	25.32	64.7	0.67	9.31
Shinele Zone	100	84.73	10.68	-	4.59
Shinele	100	81.76	14.42	-	3.82
Erer	100	89.17	5.09	-	5.74
Jijiga Zone	100	27.41	51.7	0.12	20.77
Jijiga	100	27.6	45.89	0.75	25.76
Teferi Ber	100	6.04	71.3	-	22.66
Kebri Beyah	100	30.91	49.23	0.06	19.8
Liben Zone	100	11.5	85.73	1.23	1.54
Filtu	100	11.49	88.49	-	0.02
Dolo Odo	100	10.28	87.23	1.55	0.94
Moyale	100	15.97	76.86	1.58	5.59

b) Rural Holdings

Geographic Areas	Total (%)	PERCENT OF SKIN UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	25.57	64	0.64	9.79
Shinele Zone	100	91.27	4.52	-	4.21
Shinele	100	93.26	3.97	-	2.77
Erer	100	89.17	5.09	-	5.74
Jijiga Zone	100	27.77	50.43	-	21.8
Jijiga	100	32.04	38.97	-	28.99
Teferi Ber	100	2.53	73.83	-	23.64
Kebri Beyah	100	31.43	47.91	-	20.65
Liben Zone	100	11.88	85.42	1.25	1.46
Filtu	100	11.36	88.62	-	0.02
Dolo Odo	100	10.81	86.84	1.63	0.72
Moyale	100	15.97	76.86	1.58	5.59

c) Urban Holdings

Geographic Areas	Total (%)	PERCENT OF SKIN UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Somale	100	22.17	73.39	1.08	3.35
Shinele Zone	100	53.89	39.73	-	6.38
Shinele	100	53.89	39.73	-	6.38
Jijiga Zone	100	20.91	74.84	2.31	1.94
Jijiga	100	-	88.95	5.4	5.65
Teferi Ber	100	87.01	12.99	-	-
Kebri Beyah	100	19.16	78.8	1.36	0.67
Liben Zone	100	6.58	89.88	0.95	2.6
Filtu	100	60	40	-	-
Dolo Odo	100	6.15	90.28	0.95	2.62

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
Somale	512,320	25,579	5	454,821	39,029	9	574,561	36,665	6
Shinele Zone	21,495	1,389	6	34,738	2,510	7	80,804	10,772	13
Shinele	11,464	1,250	11	17,376	2,227	13	44,496	10,504	24
Erer	10,031	604	6	17,362	1,158	7	36,308	2,389	7
Jijiga Zone	349,921	22,372	6	324,839	37,814	12	293,698	28,662	10
Jijiga	123,773	11,937	10	44,720	7,450	17	90,605	8,508	9
Teferi Ber	110,240	11,542	10	127,965	18,880	15	100,007	18,697	19
Kebri Beyah	115,907	14,994	13	152,154	31,906	21	103,086	19,990	19
Liben Zone	140,904	12,322	9	95,244	9,330	10	200,059	20,167	10
Filtu	44,788	4,714	11	39,588	7,540	19	101,490	16,102	16
Dolo Odo	36,002	6,094	17	43,942	4,979	11	75,200	10,978	15
Moyale	60,115	9,615	16	11,714	2,327	20	23,369	5,189	22

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GEOGRAPHIC AREA	HORSES			ASSES			MULES			CAMELS		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Somale	51	11	21	84,636	4,284	5	633	155	25	128,703	10,347	8
Shinele Zone	-	-	-	3,697	392	11	140	52	37	5,715	657	12
Shinele	-	-	-	2,493	377	15	-	-	-	3,446	560	16
Erer	-	-	-	1,204	106	9	140	52	37	2,269	344	15
Jijiga Zone	51	11	21	59,949	3,930	7	156	75	48	38,181	5,323	14
Jijiga	51	11	21	32,428	3,067	9	156	75	48	3,198	916	29
Teferi Ver	-	-	-	19,469	1,687	9	-	-	-	18,217	4,096	22
Kebri Beyah	-	-	-	8,053	1,787	22	-	-	-	16,766	3,274	20
Liben Zone	-	-	-	20,989	1,660	8	337	126	37	84,806	8,848	10
Filtu	-	-	-	6,469	911	14	-	-	-	54,901	7,085	13
Dolo Odo	-	-	-	9,307	1,225	13	27	18	65	7,003	1,557	22
Moyale	-	-	-	5,213	651	12	310	124	40	22,902	5,066	22

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
Somale	34,435	2,349	7	22,813	1,516	7	31,930	1,956	6	89,550	5,248	6	1,189	295	25
Shinele Zone	1,773	127	7	1,002	134	13	1,351	174	13	2,262	169	7	35	18	52
Shinele	1,011	99	10	615	123	20	731	153	21	669	118	18	23	13	59
Erer	762	80	11	386	52	14	620	83	13	1,593	121	8	13	12	100
Jijiga Zone	24,486	2,232	9	15,349	1,360	9	22,245	1,776	8	71,168	4,985	7	456	171	37
Jijiga	6,898	1,359	20	4,777	831	17	8,640	1,099	13	36,660	3,842	10	170	129	76
Teferi Ver	9,344	951	10	4,868	756	16	7,021	1,096	16	15,789	1,738	11	141	59	42
Kebri Beyah	8,245	1,493	18	5,704	766	13	6,584	862	13	18,719	2,657	14	146	96	66
Liben Zone	8,175	721	9	6,462	657	10	8,334	803	10	16,119	1,633	10	698	240	34
Filtu	3,003	348	12	1,480	238	16	2,847	411	14	6,084	684	11	208	66	32
Dolo Odo	2,229	395	18	2,550	409	16	1,952	344	18	2,965	743	25	130	92	71
Moyale	2,943	493	17	2,432	455	19	3,536	597	17	7,070	1,284	18	359	212	59

Annex Table 7.2 Cont'd

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
Somale	39,738	2,969	7	30,232	2,398	8	46,574	3,279	7	208,169	10,289	5	7,689	1,116	15
Shinele Zone	2,217	165	7	1,234	139	11	1,970	208	11	9,259	669	7	392	96	25
Shinele	1,066	128	12	714	108	15	1,051	184	17	5,399	592	11	184	71	38
Erer	1,151	104	9	520	88	17	919	97	11	3,860	312	8	207	65	32
Jijiga Zone	26,880	2,772	10	20,289	2,222	11	31,608	2,990	9	134,597	8,572	6	2,841	591	21
Jijiga	7,778	1,253	16	5,884	742	13	10,756	1,346	13	41,316	4,324	10	895	358	40
Teferi Ver	9,738	1,085	11	6,767	1,088	16	9,646	1,810	19	46,114	4,407	10	814	214	26
Kebri Beyah	9,364	2,221	24	7,639	1,790	23	11,206	1,962	18	47,168	5,946	13	1,132	418	37
Liben Zone	10,641	1,050	10	8,709	890	10	12,997	1,331	10	64,313	5,652	9	4,457	942	21
Filtu	3,880	478	12	2,887	410	14	5,002	726	15	18,577	1,899	10	821	194	24
Dolo Odo	2,393	466	19	2,222	485	22	3,353	725	22	17,231	2,788	16	976	317	33
Moyale	4,368	811	19	3,600	623	17	4,642	848	18	28,505	4,535	16	2,660	865	33

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
Somale	38,476	3,108	8	23,874	2,714	11	23,507	3,266	14	44,855	4,483	10
Shinele Zone	3,681	292	8	1,406	172	12	1,666	158	9	3,065	264	9
Shinele	1,916	256	13	681	117	17	603	83	14	1,502	220	15
Erer	1,765	139	8	726	127	17	1,063	134	13	1,562	145	9
Jijiga Zone	27,307	2,975	11	17,268	2,635	15	17,336	3,202	18	32,683	4,342	13
Jijiga	6,083	1,362	22	1,788	338	19	1,996	362	18	5,406	1,343	25
Teferi Ver	11,167	1,145	10	7,660	1,700	22	9,235	2,716	29	11,006	1,693	15
Kebri Beyah	10,058	2,384	24	7,820	1,984	25	6,104	1,657	27	16,272	3,766	23
Liben Zone	7,487	853	11	5,200	629	12	4,505	628	14	9,107	1,081	12
Filtu	3,134	639	20	2,263	479	21	2,309	514	22	4,379	885	20
Dolo Odo	2,891	461	16	2,363	378	16	1,716	280	16	3,853	516	13
Moyale	1,462	327	22	574	153	27	481	227	47	875	346	40

Female Sheep

GEOGRAPHIC AREA	<6MONTHS			6MONTHS - <1YEAR			1-<2YEARS			2 YEARS & OLDER		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Somale	44,095	4,097	9	40,032	4,728	12	45,936	4,308	9	194,044	18,102	9
Shinele Zone	5,023	417	8	3,038	496	16	4,237	394	9	12,621	897	7
Shinele	2,801	370	13	1,782	473	27	1,724	302	18	6,367	768	12
Erer	2,222	192	9	1,256	149	12	2,513	252	10	6,255	463	7
Jijiga Zone	30,442	3,979	13	28,104	4,550	16	31,532	4,063	13	140,167	17,693	13
Jijiga	4,112	1,009	25	2,542	577	23	4,869	988	20	17,923	3,044	17
Teferi Ver	11,825	1,493	13	10,530	1,785	17	12,454	2,272	18	54,088	9,905	18
Kebri Beyah	14,504	3,548	24	15,032	4,145	28	14,209	3,221	23	68,156	14,342	21
Liben Zone	8,630	884	10	8,890	1,186	13	10,167	1,376	14	41,256	3,717	9
Filtu	3,822	672	18	4,157	1,016	24	4,699	1,195	25	14,825	2,596	18
Dolo Odo	3,288	490	15	4,005	575	14	4,126	618	15	21,701	2,532	12
Moyale	1,520	296	19	729	207	28	1,343	293	22	4,730	818	17

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
Somale	54,407	3,677	7	27,101	2,178	8	23,314	2,033	9	50,164	4,270	9
Shinele Zone	9,700	1,184	12	3,569	553	16	3,114	339	11	4,939	649	13
Shinele	5,379	1,143	21	1,983	522	26	1,246	270	22	2,542	605	24
Erer	4,321	308	7	1,586	184	12	1,868	206	11	2,398	236	10
Jijiga Zone	33,017	3,305	10	15,251	1,873	12	13,043	1,792	14	26,830	3,564	13
Jijiga	11,028	1,376	12	5,459	1,053	19	4,426	801	18	8,208	1,426	17
Teferi Ver	10,965	2,104	19	5,365	1,276	24	5,488	1,425	26	7,619	1,573	21
Kebri Beyah	11,025	2,145	19	4,428	878	20	3,130	736	24	11,003	2,863	26
Liben Zone	11,690	1,093	9	8,280	965	12	7,157	898	13	18,395	2,259	12
Filtu	5,752	735	13	4,322	738	17	4,314	767	18	9,860	1,702	17
Dolo Odo	3,630	642	18	2,904	534	18	2,014	401	20	7,242	1,422	20
Moyale	2,307	492	21	1,054	320	30	829	238	29	1,293	429	33

Female Goats

GEOGRAPHIC AREA	<6MONTHS			6MONTHS - <1YEAR			1- < 2 YEARS			2 YEARS & OLDER		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Somale	65,556	4,530	7	49,559	4,165	8	57,358	4,569	8	247,102	15,635	6
Shinele Zone	13,231	1,892	14	7,680	1,445	19	8,343	1,190	14	30,229	4,017	13
Shinele	7,712	1,841	24	4,382	1,402	32	4,261	1,125	26	16,991	3,932	23
Erer	5,519	438	8	3,298	352	11	4,081	388	10	13,237	824	6
Jijiga Zone	34,018	3,657	11	22,191	3,062	14	27,930	3,491	13	121,417	11,831	10
Jijiga	10,496	1,418	14	5,627	984	17	8,098	1,210	15	37,264	4,462	12
Teferi Ver	10,366	1,986	19	8,321	1,881	23	10,989	2,524	23	40,894	7,182	18
Kebri Beyah	13,156	2,724	21	8,243	2,207	27	8,843	2,085	24	43,259	8,275	19
Liben Zone	18,308	1,887	10	19,688	2,425	12	21,085	2,697	13	95,456	9,400	10
Filtu	10,168	1,455	14	10,788	2,069	19	11,557	2,361	20	44,730	7,010	16
Dolo Odo	5,337	1,030	19	6,639	1,142	17	7,120	1,142	16	40,314	5,874	15
Moyale	2,803	619	22	2,262	542	24	2,408	630	26	10,412	2,171	21

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
Somale	-	-	-	40	10	24	-	-	-	11	5	43
Jijiga Zone	-	-	-	40	10	24	-	-	-	11	5	43
Jijiga	-	-	-	40	10	24	-	-	-	11	5	43

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
Somale	9,179	726	8	34,845	1,938	6	8,006	696	9	32,605	2,213	7
Shinele Zone	519	83	16	1,244	170	14	394	52	13	1,539	176	11
Shinele	357	77	21	918	164	18	223	41	18	995	164	16
Erer	162	31	19	327	43	13	171	33	19	544	64	12
Jijiga Zone	6,628	653	10	25,561	1,823	7	5,487	618	11	22,274	2,025	9
Jijiga	3,242	497	15	14,717	1,318	9	2,332	431	18	12,138	1,743	14
Teferi Ver	2,105	284	13	7,732	930	12	2,217	366	17	7,415	844	11
Kebri Beyah	1,281	313	24	3,112	848	27	939	249	27	2,721	592	22
Liben Zone	2,032	307	15	8,040	636	8	2,125	316	15	8,792	875	10
Filtu	608	123	20	2,575	366	14	562	116	21	2,724	456	17
Dolo Odo	1,213	274	23	2,802	411	15	1,103	257	23	4,190	634	15
Moyale	211	62	29	2,663	319	12	460	142	31	1,879	394	21

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
Somale	-	-	-	581	151	26	43	17	40	9	9	103
Shinele Zone	-	-	-	97	36	37	43	17	40	-	-	-
Erer	-	-	-	97	36	37	43	17	40	-	-	-
Jijiga Zone	-	-	-	156	75	48	-	-	-	-	-	-
Jijiga	-	-	-	156	75	48	-	-	-	-	-	-
Liben Zone	-	-	-	328	126	38	-	-	-	9	9	103
Dolo Odo	-	-	-	27	18	65	-	-	-	-	-	-
Moyale	-	-	-	301	125	41	-	-	-	9	9	103

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
Somale	16,009	1,417	9	29,809	2,134	7	19,872	1,821	9	63,013	5,763	9
Shinele Zone	777	119	15	1,734	183	11	659	105	16	2,546	393	15
Shinele	488	106	22	1,196	166	14	368	89	24	1,393	318	23
Erer	289	54	19	537	77	14	291	55	19	1,153	231	20
Jijiga Zone	4,643	847	18	14,842	1,571	11	4,366	911	21	14,331	2,824	20
Jijiga	306	130	42	2,089	801	38	215	119	55	588	238	40
Teferi Ver	2,351	627	27	6,076	872	14	2,122	716	34	7,668	2,276	30
Kebri Beyah	1,986	554	28	6,677	1,033	15	2,029	550	27	6,075	1,654	27
Liben Zone	10,590	1,130	11	13,233	1,433	11	14,847	1,574	11	46,136	5,009	11
Filtu	5,803	755	13	8,935	1,185	13	9,523	1,223	13	30,641	4,167	14
Dolo Odo	942	247	26	1,309	315	24	1,153	313	27	3,599	869	24
Moyale	3,845	803	21	2,990	742	25	4,170	940	23	11,897	2,639	22

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
Somale	154,746	11,689	8	19,383	1,725	9	11,997	1,886	16	16,391	1,322	8	8,051	789	10	42,756	4,081	10	56,169	4,210	8
Shinele Zone	4,928	471	10	703	90	13	389	75	19	516	72	14	237	61	26	1,399	196	14	1,685	159	9
Shinele	1,635	312	19	209	43	21	129	52	40	121	30	25	138	56	41	563	125	22	476	83	17
Erer	3,293	353	11	493	79	16	260	54	21	395	65	17	99	23	24	836	151	18	1,209	135	11
Jijiga Zone	98,848	10,738	11	13,101	1,628	12	7,091	1,718	24	9,393	1,102	12	5,158	714	14	26,405	3,821	14	37,701	3,878	10
Jijiga	80,334	10,083	13	10,019	1,498	15	6,133	1,699	28	7,501	984	13	3,039	606	20	21,652	3,600	17	31,990	3,755	12
Teferi Ver	12,627	3,511	28	2,228	605	27	670	234	35	1,472	477	32	1,394	326	23	3,052	1,218	40	3,811	896	24
Kebri Beyah	5,886	1,141	19	855	201	24	288	94	33	419	141	34	725	188	26	1,701	392	23	1,899	364	19
Liben Zone	50,970	4,594	9	5,580	562	10	4,518	774	17	6,482	726	11	2,655	331	12	14,952	1,419	9	16,783	1,632	10
Filtu	11,645	2,410	21	1,707	361	21	1,304	304	23	1,311	310	24	1,160	232	20	2,336	574	25	3,827	839	22
Dolo Odo	22,011	2,481	11	2,522	315	12	1,501	221	15	3,210	476	15	1,106	196	18	5,924	780	13	7,748	1,055	14
Moyale	17,314	3,024	17	1,351	295	22	1,713	676	39	1,962	452	23	389	131	34	6,692	1,037	16	5,208	920	18

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
Somale	7,212	1,480	21	6,347	1,446	23	605	359	59	260	266	102
Shinele Zone	91	35	38	91	35	38	-	-	-	-	-	-
Erer	91	35	38	91	35	38	-	-	-	-	-	-
Jijiga Zone	6,209	1,419	23	5,729	1,424	25	220	122	56	260	266	102
Jijiga	5,782	1,406	24	5,322	1,412	27	200	121	60	260	266	102
Teferi Ber	263	163	62	243	162	67	20	18	89	-	-	-
Kebri Beyah	164	89	54	164	89	54	-	-	-	-	-	-
Liben Zone	912	421	46	527	252	48	385	337	88	-	-	-
Filtu	106	58	55	106	58	55	-	-	-	-	-	-
Dolo Odo	503	354	70	118	107	91	385	337	88	-	-	-
Moyale	303	221	73	303	221	73	-	-	-	-	-	-

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. Seeding and fertilization are among the 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 those that are similar in terms of 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.4 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 - 8.32A. and 8.1B- 8.32B 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 to this chapter.

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

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. '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 axe was the highest followed by 'Gejera'(Chopper) while shovel was the lowest. In Somali Region it is estimated that there were about 89,389 crop holders in rural areas of which about 74,636 (83.50%) reported to own axes, about 64.72% reporting shovels, and 15.4% reporting 'Gejeras' (choppers). Among the farm implements used for clearing land the number of observation for axe was highest and the total value for axe was also the highest followed by shovels. The expected duration of service of an axe and shovel was estimated to be 5 years each, while for 'Gejera' it was 6 years.

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. The data in Summary Table VIII.4 reveled that the percentage distribution of the Number of crop holders that owned one, two, three, four and five and above hoes was 37.02%, 6.55%, 0.88%, 0.25% and 0.11% respectively.

3.2 Draught Animals

Peasants in Ethiopia use domestic animals for draught purpose. In several parts of the country since holdings are far from residence and 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 among the draught animals that are used for ploughing, ox was the highest in terms of number of holders reporting, number of oxen reported and total value the oxen amounted to 61 million Birr. About 49,186 holders (55.02 of the total crop holders in the region) reported 99,077 cattle (working age cattle) used for threshing and these cattle had a value of over 64 million Birr and the average replacement value of a working age cattle was about 334.96 Birr. It was also indicated that asses and mules 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 S.N.N.P. region the agricultural census result shows that there were about 89,389 crop holders in rural areas. Among these 18.29%, 37.30%, 2.06%, 0.72%, and 0.11% holders owned one, two, three, four, and five and above oxen. On the other hand about 41.52% 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 storage facilities. During the census, data was collected on modern storage 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 'Gudguad' was reported by the highest number of holders, followed by 'Gottera'. On the other hand, 'Debignit' and modern storage facilities was reported by insignificant number of holders. The total value of all reported storage facilities was assessed to be 6,507,670 Birr, of which 84.8% and 14.9 comprises of 'Gudguad' and Gottera, respectively. The percentage distribution of the number of crop holders that owned 'Gottera', 'Gudguad, 'Debignit' and modern storage 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	74,636	83.50	102,532	1.15	1,324,660	9.38	5
'Gejeras' (Choppers)	13,335	14.92	15,885	0.18	224,903	12.07	6
Shovels	57,857	64.72	77,555	0.87	1,206,593	11.75	5
Used for Cultivation							
Hoes	40,062	44.82	48,675	0.54	882,962	15.37	5
'Mekeskeshas'	6,227	6.97	6,946	0.08	45,867	5.98	3
Pick-Axes	17,962	20.09	22,955	0.26	340,671	12.12	6
Tractor	-	-	-	-	-	-	-
Parts for traditional Plough							
'Degers'	58,136	65.04	87,687	0.98	569,588	4.60	3
'Erfes'	56,807	63.55	66,118	0.74	432,066	5.76	3
Plough - Beams	59,313	66.35	61,947	0.69	1,508,907	23.62	5
Plough -Tips	58,508	65.45	62,867	0.70	1,466,256	21.92	6
'Wegel'-Tips	57,198	63.99	70,981	0.79	546,422	6.81	4
Yokes	59,604	66.68	63,109	0.71	1,153,825	17.37	4
Used for Harvesting							
Sickles	59,095	66.11	81,139	0.91	1,092,145	9.75	5
Used for Threshing							
Hay-Forks (metal)	680	0.76	731	0.01	8,890	10.25	5
Hay-Forks (wood)	29,563	33.07	33,306	0.37	340,297	8.99	4
Threshing Sticks	41,576	46.51	89,151	1.00	386,633	2.36	2
Winnowers (metal)	197	0.22	197	0.00	*	*	6
Winnowers (wood)	16,756	18.75	18,393	0.21	218,041	11.18	4
Other farm Equipment							
Carts	609	0.68	674	0.01	650,286	890.80	16
Sprayers (Hand operated)	296	0.33	353	0.00	*	*	6
Sprayers (Power operated)	-	-	-	-	-	-	-
Tying Tools	-	-	-	-	-	-	-
Wheelbarrows	1,532	1.71	1,687	0.02	363,920	197.30	7

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.

Draught 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	657	0.73	842	0.01	358,052	343.57	7
Camels	518	0.58	628	0.01	618,116	814.44	10
Horses	-	-	-	-	-	-	-
Mules	-	-	-	-	-	-	-
Oxen	52,276	58.48	92,340	1.03	61,276,704	381.48	6
Used for Threshing or Transportation							
Asses	37,495	41.95	45,928	0.51	12,547,418	221.86	9
Camels	11,365	12.71	16,091	0.18	17,232,801	772.07	11
Cattle	49,186	55.02	99,077	1.11	64,826,868	334.96	6
Horses	-	-	-	-	-	-	-
Mules	94	0.11	*	-	*	*	10

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.

Sorage 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'	425	0.48	425	0.00	19,158	45.08	6
'Gotteras'	6,264	7.01	6,739	0.08	969,582	136.33	26
'Gudguads'	43,300	48.44	56,116	0.63	5,518,748	77.41	14
Modern Storage Structures...	5	0.01	5	0.00	182	36.47	13

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 Implement, 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	14,753	16.50	54,261	60.70	15,736	17.60	3,124	3.49	872	0.98	643	0.72
'Gejera'	76,053	85.08	11,310	12.65	1,620	1.81	329	0.37	35	0.04	42	0.05
Shovel	31,532	35.28	42,454	47.49	12,443	13.92	2,039	2.28	597	0.67	324	0.36
Used for Cultivation												
Hoes	49,326	55.18	33,094	37.02	5,859	6.55	787	0.88	223	0.25	100	0.11
'Mekeskeshas'	83,162	93.03	5,662	6.33	507	0.57	20	0.02	19	0.02	19	0.02
Pick- Axes	71,428	79.91	14,074	15.74	3,037	3.40	643	0.72	187	0.21	20	0.02
Tractors	89,389	100.00	-	-	-	-	-	-	-	-	-	-
Parts for traditional Plough												
'Degers'	31,253	34.96	32,169	35.99	24,199	27.07	420	0.47	1,145	1.28	203	0.23
'Erfes' (Handle)	32,582	36.45	49,884	55.81	5,059	5.66	1,434	1.60	391	0.44	39	0.04
Plough-Beam.	30,075	33.65	57,078	63.85	1,987	2.22	177	0.20	32	0.04	40	0.04
Plough -Tips	30,881	34.55	54,537	61.01	3,624	4.05	304	0.34	43	0.05	-	-
'Wegel' -Tips	32,191	36.01	50,230	56.19	3,358	3.76	609	0.68	2,960	3.31	41	0.05
Yokes	29,785	33.32	56,472	63.18	2,797	3.13	296	0.33	39	0.04	-	-
Used for Harvesting												
Sickles	30,294	33.89	41,677	46.62	13,871	15.52	2,663	2.98	687	0.77	197	0.22
Used for Threshing												
Hay-Forks (Metal)	88,709	99.24	654	0.73	-	-	26	0.03	-	-	-	-
Hay-Forks (Wood)	59,826	66.93	26,230	29.34	3,011	3.37	263	0.29	28	0.03	31	0.03
Threshing Sticks	47,813	53.49	23,283	26.05	9,036	10.11	3,044	3.41	2,644	2.96	3,569	3.99
Winnowers (Metal)	89,192	99.78	197	0.22	-	-	-	-	-	-	-	-
Winnowers (Wood)	72,632	81.25	15,505	17.35	957	1.07	204	0.23	91	0.10	-	-
Other Farm Equipment												
Carts	88,779	99.32	568	0.64	30	0.03	-	-	12	0.01	-	-
Sprayers (Hand Operated)	89,093	99.67	239	0.27	57	0.06	-	-	-	-	-	-
Sprayers (Power Operated)	89,389	100.00	-	-	-	-	-	-	-	-	-	-
Tying Tools	89,389	100.00	-	-	-	-	-	-	-	-	-	-
Wheelbarrows	87,857	98.29	1,403	1.57	103	0.12	26	0.03	-	-	-	-
Animals Used for Ploughing												
Asses	88,732	99.27	481	0.54	172	0.19	-	-	4	0.00	-	-
Camels	88,870	99.42	409	0.46	110	0.12	-	-	-	-	-	-
Horses	89,389	100.00	-	-	-	-	-	-	-	-	-	-
Mules	89,389	100.00	-	-	-	-	-	-	-	-	-	-
Oxen	37,113	41.52	16,352	18.29	33,340	37.30	1,844	2.06	643	0.72	97	0.11
Animals Used for Threshing or Transportation												
Asses	51,895	58.06	30,108	33.68	6,619	7.40	580	0.65	172	0.19	15	0.02
Camels	78,025	87.29	8,262	9.24	2,227	2.49	392	0.44	314	0.35	169	0.19
Cattle	40,203	44.98	14,160	15.84	27,052	30.26	4,342	4.86	2,134	2.39	1,498	1.68
Horses	89,389	100.00	-	-	-	-	-	-	-	-	-	-
Mules	89,295	99.89	51	0.06	17	0.02	26	0.03	-	-	-	-
Storage Structure												
'Debignits'	88,964	99.52	425	0.48	-	-	-	-	-	-	-	-
'Gotteras'	83,126	92.99	5,807	6.50	437	0.49	19	0.02	-	-	-	-
'Gudguads'	46,089	51.56	33,103	37.03	8,282	9.27	1,544	1.73	193	0.22	178	0.20
Modern Storages	89,384	99.99	5	0.01	-	-	-	-	-	-	-	-

STATISTICAL TABLES PRESENTING THE CENSUS RESULTS AT ZONAL AND WOREDA LEVELS

Tables 8.1A- 8.32A

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)
Somali Region	89,389	74,636	102,532	1.15	1,324,660	9.38	5
Shinele Zone	2,674	1,663	3,095	1.16	32,742	6.33	8
Shinele	560	434	586	1.05	5,363	6.86	7
Erer	2,114	1,229	2,510	1.19	27,379	6.21	9
Jijiga Zone	68,805	58,309	75,105	1.09	898,591	9.47	5
Jijiga	35,862	29,288	37,809	1.05	447,686	9.41	5
Teferi Ber	18,096	15,660	19,228	1.06	222,520	9.56	5
Kebri Beyah	14,847	13,361	18,068	1.22	228,385	9.48	5
Liben Zone	17,911	14,664	24,331	1.36	393,326	9.49	6
Filtu	4,657	3,723	5,716	1.23	106,493	12.15	7
Dolo Odo	5,232	4,612	7,249	1.39	91,639	8.39	6
Moyale	8,022	6,329	11,367	1.42	195,195	8.84	6

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)
Somali Region	89,389	13,335	15,885	0.18	224,903	12.07	6
Shinele Zone	2,674	335	423	0.16	4,034	8.42	7
Shinele	560	49	49	0.09	400	9.08	7
Erer	2,114	286	374	0.18	3,634	8.33	7
Jijiga Zone	68,805	7,849	9,068	0.13	130,604	12.65	6
Jijiga	35,862	3,897	4,723	0.13	73,332	12.87	6
Teferi Ber	18,096	1,699	2,050	0.11	22,180	9.66	6
Kebri Beyah	14,847	2,253	2,294	0.15	35,093	14.87	6
Liben Zone	17,911	5,151	6,394	0.36	90,265	11.49	7
Filtu	4,657	592	742	0.16	12,882	13.63	8
Dolo Odo	5,232	2,078	2,714	0.52	32,915	9.44	7
Moyale	8,022	2,481	2,938	0.37	44,467	12.85	6

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)
Somali Region	89,389	57,857	77,555	0.87	1,206,593	11.75	5
Shinele Zone	2,674	2,354	4,016	1.50	36,256	5.63	5
Shinele	560	354	374	0.67	2,972	7.66	6
Erer	2,114	2,001	3,642	1.72	33,284	5.42	5
Jijiga Zone	68,805	49,535	65,705	0.95	1,023,757	11.86	5
Jijiga	35,862	26,248	35,453	0.99	546,757	11.44	4
Teferi Ber	18,096	11,646	15,440	0.85	216,936	11.00	5
Kebri Beyah	14,847	11,641	14,812	1.00	260,065	13.79	5
Liben Zone	17,911	5,967	7,834	0.44	146,579	13.95	5
Filtu	4,657	1,133	1,387	0.30	23,575	14.19	7
Dolo Odo	5,232	2,065	2,872	0.55	49,123	11.90	5
Moyale	8,022	2,769	3,576	0.45	73,881	15.50	5

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)
Somali Region	89,389	40,062	48,675	0.54	882,962	15.37	5
Shinele Zone	2,674	1,542	1,817	0.68	25,257	12.21	7
Shinele	560	159	171	0.31	2,562	13.95	7
Erer	2,114	1,383	1,646	0.78	22,695	12.03	7
Jijiga Zone	68,805	35,216	41,329	0.60	769,210	16.30	5
Jijiga	35,862	21,184	24,008	0.67	514,259	18.91	4
Teferi Ber	18,096	7,579	9,349	0.52	127,413	11.90	5
Kebri Beyah	14,847	6,454	7,972	0.54	127,538	13.60	6
Liben Zone	17,911	3,304	5,529	0.31	88,495	9.45	7
Filtu	4,657	736	1,160	0.25	23,406	12.78	10
Dolo Odo	5,232	1,539	2,763	0.53	38,868	7.53	6
Moyale	8,022	1,028	1,607	0.20	26,221	10.34	5

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)
Somali Region	89,389	6,227	6,946	0.08	45,867	5.98	3
Shinele Zone	2,674	71	85	0.03	109	1.11	1
Shinele	560	35	35	0.06	56	1.59	2
Erer	2,114	36	50	0.02	53	0.78	1
Jijiga Zone	68,805	5,362	5,773	0.08	34,657	5.75	3
Jijiga	35,862	1,615	1,645	0.05	15,548	9.27	5
Teferi Ber	18,096	3,259	3,604	0.20	14,243	3.68	2
Kebri Beyah	14,847	*	*	-	*	*	*
Liben Zone	17,911	794	1,088	0.06	11,101	7.56	4
Filtu	4,657	*	*	-	*	*	*
Dolo Odo	5,232	201	271	0.05	3,455	8.89	5
Moyale	8,022	568	793	0.10	7,549	7.21	3

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)
Somali Region	89,389	17,962	22,955	0.26	340,671	12.12	6
Shinele Zone	2,674	217	224	0.08	2,779	12.11	9
Shinele	560	121	121	0.22	1,555	12.85	10
Erer	2,114	96	103	0.05	1,224	11.23	9
Jijiga Zone	68,805	12,451	15,251	0.22	207,104	11.82	6
Jijiga	35,862	4,970	5,120	0.14	88,050	16.76	6
Teferi Ber	18,096	4,373	5,579	0.31	68,228	10.11	6
Kebri Beyah	14,847	3,108	4,553	0.31	50,826	8.36	6
Liben Zone	17,911	5,293	7,480	0.42	130,788	12.73	7
Filtu	4,657	1,207	1,584	0.34	28,512	14.37	8
Dolo Odo	5,232	1,367	1,946	0.37	26,974	10.15	7
Moyale	8,022	2,718	3,950	0.49	75,302	13.34	6

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)
Somali Region	89,389	58,136	87,687	0.98	569,588	4.60	3
Shinele Zone	2,674	934	1,379	0.52	5,170	2.65	1
Shinele	560	72	125	0.22	461	2.14	2
Erer	2,114	862	1,254	0.59	4,708	2.70	1
Jijiga Zone	68,805	51,359	76,905	1.12	506,396	4.70	3
Jijiga	35,862	26,038	37,058	1.03	212,251	4.29	2
Teferi Ber	18,096	13,324	21,866	1.21	134,877	4.09	4
Kebri Beyah	14,847	11,997	17,981	1.21	159,268	6.27	3
Liben Zone	17,911	5,843	9,403	0.52	58,022	4.12	3
Filtu	4,657	2,547	3,840	0.82	20,814	4.11	3
Dolo Odo	5,232	611	848	0.16	7,073	6.69	2
Moyale	8,022	2,685	4,715	0.59	30,135	3.67	3

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)
Somali Region	89,389	56,807	66,118	0.74	432,066	5.76	3
Shinele Zone	2,674	955	976	0.36	3,107	3.15	1
Shinele	560	75	75	0.13	323	4.31	2
Erer	2,114	879	901	0.43	2,784	3.06	1
Jijiga Zone	68,805	49,902	57,803	0.84	403,095	6.16	3
Jijiga	35,862	25,168	29,690	0.83	181,268	5.21	2
Teferi Ber	18,096	13,076	14,909	0.82	106,261	6.54	3
Kebri Beyah	14,847	11,658	13,204	0.89	115,566	7.89	3
Liben Zone	17,911	5,950	7,339	0.41	25,864	2.91	2
Filtu	4,657	2,483	2,796	0.60	8,289	2.81	2
Dolo Odo	5,232	818	853	0.16	2,387	2.31	1
Moyale	8,022	2,650	3,690	0.46	15,188	3.12	2

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)
Somali Region	89,389	59,313	61,947	0.69	1,508,907	23.62	5
Shinele Zone	2,674	962	974	0.36	18,281	18.65	4
Shinele	560	83	83	0.15	1,895	22.83	4
Erer	2,114	879	891	0.42	16,385	18.26	4
Jijiga Zone	68,805	52,132	54,022	0.79	1,395,185	25.14	5
Jijiga	35,862	26,368	27,088	0.76	710,118	25.73	4
Teferi Ber	18,096	13,470	13,818	0.76	365,021	25.96	6
Kebri Beyah	14,847	12,294	13,115	0.88	320,047	23.08	4
Liben Zone	17,911	6,218	6,951	0.39	95,441	12.43	4
Filtu	4,657	2,555	2,769	0.59	35,237	11.92	5
Dolo Odo	5,232	962	1,002	0.19	13,412	12.98	2
Moyale	8,022	2,701	3,180	0.40	46,792	12.71	4

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)
Somali Region	89,389	58,508	62,867	0.70	1,466,256	21.92	6
Shinele Zone	2,674	1,034	1,081	0.40	15,782	14.08	5
Shinele	560	98	113	0.20	1,676	12.91	6
Erer	2,114	936	969	0.46	14,106	14.20	4
Jijiga Zone	68,805	51,178	54,442	0.79	1,174,291	20.45	5
Jijiga	35,862	25,474	26,475	0.74	576,808	20.97	5
Teferi Ber	18,096	13,064	13,553	0.75	267,467	19.09	6
Kebri Beyah	14,847	12,640	14,414	0.97	330,016	20.79	6
Liben Zone	17,911	6,297	7,344	0.41	276,183	33.93	6
Filtu	4,657	2,524	2,703	0.58	103,468	36.11	9
Dolo Odo	5,232	958	1,010	0.19	89,651	85.89	5
Moyale	8,022	2,814	3,631	0.45	83,063	17.85	4

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)
Somali Region	89,389	57,198	70,981	0.79	546,422	6.81	4
Shinele Zone	2,674	937	966	0.36	5,872	5.83	5
Shinele	560	85	92	0.16	870	8.69	5
Erer	2,114	852	874	0.41	5,003	5.53	4
Jijiga Zone	68,805	50,122	62,927	0.91	467,369	6.54	4
Jijiga	35,862	25,703	26,755	0.75	224,093	8.04	3
Teferi Ber	18,096	12,700	18,183	1.00	123,705	5.25	5
Kebri Beyah	14,847	11,719	17,989	1.21	119,571	5.62	4
Liben Zone	17,911	6,139	7,087	0.40	73,180	9.26	5
Filtu	4,657	2,543	2,715	0.58	32,445	11.36	6
Dolo Odo	5,232	886	969	0.19	12,680	12.20	4
Moyale	8,022	2,710	3,404	0.42	28,055	6.75	4

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)
Somali Region	89,389	59,604	63,109	0.71	1,153,825	17.37	4
Shinele Zone	2,674	973	986	0.37	12,841	12.95	4
Shinele	560	95	95	0.17	1,504	15.83	4
Erer	2,114	877	891	0.42	11,337	12.65	4
Jijiga Zone	68,805	52,409	55,142	0.80	1,058,645	18.30	4
Jijiga	35,862	26,356	26,854	0.75	493,209	18.02	4
Teferi Ber	18,096	13,665	14,796	0.82	284,948	17.69	6
Kebri Beyah	14,847	12,387	13,493	0.91	280,488	19.51	4
Liben Zone	17,911	6,222	6,981	0.39	82,339	10.63	4
Filtu	4,657	2,571	2,760	0.59	28,267	9.67	4
Dolo Odo	5,232	958	1,018	0.19	11,260	10.56	2
Moyale	8,022	2,693	3,203	0.40	42,812	11.47	4

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)
Somali Region	89,389	59,095	81,139	0.91	1,092,145	9.75	5
Shinele Zone	2,674	943	1,032	0.39	9,448	8.46	5
Shinele	560	276	294	0.53	2,211	6.97	6
Erer	2,114	667	738	0.35	7,237	9.05	4
Jijiga Zone	68,805	54,236	75,045	1.09	1,035,214	9.94	5
Jijiga	35,862	29,050	39,442	1.10	569,509	10.50	5
Teferi Ber	18,096	12,756	17,392	0.96	212,515	9.02	5
Kebri Beyah	14,847	12,430	18,211	1.23	253,190	9.59	5
Liben Zone	17,911	3,916	5,063	0.28	47,483	7.32	5
Filtu	4,657	574	699	0.15	9,941	11.89	6
Dolo Odo	5,232	553	791	0.15	6,144	5.85	5
Moyale	8,022	2,789	3,573	0.45	31,399	6.76	5

TABLE 8.14A: - Number of Holders Reporting Hay-Fork (Metal) 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)
Somali Region	89,389	680	731	0.01	8,890	10.25	5
Shinele Zone	2,674	43	43	0.02	485	11.28	10
Shinele	560	26	26	0.05	187	7.18	13
Erer	2,114	*	*	-	*	*	*
Jijiga Zone	68,805	597	648	0.01	7,761	9.82	5
Jijiga	35,862	396	396	0.01	*	*	5
Teferi Ber	18,096	147	147	0.01	1,803	9.74	6
Kebri Beyah	14,847	*	*	-	*	*	*
Liben Zone	17,911	40	40	0.00	*	*	*
Filtu	4,657	-	-	-	-	-	-
Dolo Odo	5,232	14	14	0.00	173	12.38	4
Moyale	8,022	*	*	-	*	*	*

TABLE 8.15A: - 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)
Somali Region	89,389	29,563	33,306	0.37	340,297	8.99	4
Shinele Zone	2,674	649	719	0.27	3,600	4.55	3
Shinele	560	46	46	0.08	303	6.58	4
Erer	2,114	604	673	0.32	3,298	4.41	3
Jijiga Zone	68,805	28,770	32,415	0.47	335,595	9.11	4
Jijiga	35,862	18,186	20,102	0.56	227,636	10.14	3
Teferi Ber	18,096	8,893	10,028	0.55	85,458	7.57	4
Kebri Beyah	14,847	1,691	2,285	0.15	*	6.82	4
Liben Zone	17,911	*	*	-	*	*	*
Filtu	4,657	*	*	-	*	*	*
Dolo Odo	5,232	14	14	0.00	289	20.63	2
Moyale	8,022	*	*	-	*	*	*

TABLE 8.16A: - 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)
Somali Region	89,389	41,576	89,151	1.00	386,633	2.36	2
Shinele Zone	2,674	1,308	3,733	1.40	7,600	0.78	1
Shinele	560	91	112	0.20	474	3.30	3
Erer	2,114	1,218	3,622	1.71	7,126	0.70	1
Jijiga Zone	68,805	36,469	78,189	1.14	349,374	2.37	2
Jijiga	35,862	21,208	34,627	0.97	184,953	3.37	2
Teferi Ber	18,096	11,010	29,233	1.62	113,235	1.62	2
Kebri Beyah	14,847	4,252	14,329	0.97	51,186	1.50	3
Liben Zone	17,911	3,799	7,228	0.40	29,659	3.03	3
Filtu	4,657	707	2,307	0.50	2,870	0.41	2
Dolo Odo	5,232	1,642	1,979	0.38	19,141	8.60	4
Moyale	8,022	1,450	2,942	0.37	7,649	1.33	3

TABLE 8.17A: - Number of Holders Reporting Winnower (Metal) Owned, Quantity Reported, Replacement Value, and Duration of Service of Winnower, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Winnowers Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Winnower (Birr)	Average Duration of Service of Winnower (Years)
Somali Region	89,389	197	197	0.00	*	*	6
Shinele Zone	2,674	55	55	0.02	797	14.49	10
Shinele	560	20	20	0.04	189	9.47	13
Erer	2,114	36	36	0.02	608	16.88	8
Jijiga Zone	68,805	*	*	-	*	*	*
Jijiga	35,862	*	*	-	*	*	*
Teferi Ber	18,096	-	-	-	-	-	-
Kebri Beyah	14,847	-	-	-	-	-	-
Liben Zone	17,911	*	*	-	*	*	*
Filtu	4,657	-	-	-	-	-	-
Dolo Odo	5,232	-	-	-	-	-	-
Moyale	8,022	*	*	-	*	*	*

TABLE 8.18A:- Number of Holders Reporting Winnower(Wood) Owned, Quantity Reported, Replacement Value, and Duration of Service of Winnower, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Winnowers Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Winnower (Birr)	Average Duration of Service of Winnower (Years)
Somali Region	89,389	16,756	18,393	0.21	218,041	11.18	4
Shinele Zone	2,674	530	544	0.20	3,958	7.20	5
Shinele	560	25	25	0.04	220	8.80	7
Erer	2,114	505	519	0.25	3,738	7.12	5
Jijiga Zone	68,805	16,133	17,725	0.26	213,322	11.35	4
Jijiga	35,862	7,688	7,935	0.22	99,775	12.35	4
Teferi Ber	18,096	7,646	8,990	0.50	106,656	10.71	5
Kebri Beyah	14,847	800	800	0.05	6,891	8.61	4
Liben Zone	17,911	*	*	-	*	*	*
Filtu	4,657	-	-	-	-	-	-
Dolo Odo	5,232	-	-	-	-	-	-
Moyale	8,022	*	*	-	*	*	*

TABLE 8. 19A: - Number of Holders Reporting Cart Owned, Quantity Reported, Replacement Value, Duration of Service of Cart, for Private Holdings.

Geographic Area.	Total Number of Crop Holders	Number of Holders Reporting	Number of Carts Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Cart (Birr)	Average Duration of Service of Cart (Years)
Somali Region	89,389	609	674	0.01	650,286	890.80	16
Shinele Zone	2,674	-	-	-	-	-	-
Shinele	560	-	-	-	-	-	-
Erer	2,114	-	-	-	-	-	-
Jijiga Zone	68,805	221	221	0.00	*	*	10
Jijiga	35,862	-	-	-	-	-	-
Teferi Ber	18,096	-	-	-	-	-	-
Kebri Beyah	14,847	221	221	0.01	*	*	10
Liben Zone	17,911	388	453	0.03	460,119	905.59	19
Filtu	4,657	-	-	-	-	-	-
Dolo Odo	5,232	370	424	0.08	444,080	929.83	19
Moyale	8,022	*	*	-	*	*	*

TABLE 8. 20A: - 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)
Somali Region	89,389	296	353	0.00	*	*	6
Shinele Zone	2,674	13	13	0.00	2,123	163.32	6
Shinele	560	13	13	0.02	2,123	163.32	6
Erer	2,114	-	-	-	-	-	-
Jijiga Zone	68,805	179	*	-	*	*	6
Jijiga	35,862	*	*	-	*	*	*
Teferi Ber	18,096	*	*	-	*	*	*
Kebri Beyah	14,847	*	*	-	*	*	*
Liben Zone	17,911	104	104	0.01	*	*	5
Filtu	4,657	-	-	-	-	-	-
Dolo Odo	5,232	-	-	-	-	-	-
Moyale	8,022	104	104	0.01	*	*	5

TABLE 8.21A: - 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)
Somali Region	89,389	1,532	1,687	0.02	363,920	197.30	7
Shinele Zone	2,674	36	36	0.01	4,240	117.77	7
Shinele	560	-	-	-	-	-	-
Erer	2,114	36	36	0.02	4,240	117.77	7
Jijiga Zone	68,805	1,205	1,352	0.02	297,555	197.21	7
Jijiga	35,862	*	*	-	*	*	*
Teferi Ber	18,096	*	*	-	*	*	*
Kebri Beyah	14,847	906	1,028	0.07	213,467	184.88	8
Liben Zone	17,911	291	299	0.02	62,125	207.26	7
Filtu	4,657	*	*	-	*	*	*
Dolo Odo	5,232	8	15	0.00	305	10.17	5
Moyale	8,022	268	268	0.03	61,063	227.85	7

TABLE 8.22A: - Number of Holders Reporting Ass (Specifically for ploughing) Owned, Quantity Reported, Replacement Value and Average age of Ass, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Asses Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Ass (Birr)	Average Age of Ass (Years)
Somali Region	89,389	657	842	0.01	358,052	343.57	7
Shinele Zone	2,674	-	-	-	-	-	-
Shinele	560	-	-	-	-	-	-
Erer	2,114	-	-	-	-	-	-
Jijiga Zone	68,805	634	788	0.01	328,394	350.90	7
Jijiga	35,862	*	*	-	*	*	*
Teferi Ber	18,096	371	412	0.02	152,897	346.86	8
Kebri Beyah	14,847	149	192	0.01	134,281	553.44	6
Liben Zone	17,911	23	54	0.00	29,658	236.56	6
Filtu	4,657	*	*	-	*	*	*
Dolo Odo	5,232	14	29	0.01	17,328	298.76	4
Moyale	8,022	-	-	-	-	-	-

TABLE 8.23A: - Number of Holders Reporting Camel (Specifically For Ploughing) Owned, Quantity Reported, Replacement Value and Average age of Camel, for Private Holdings

Geographic Area.	Total Number of Crop Holders	Number of Holders Reporting	Number of Camels Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Camel (Birr)	Average Age of Camel (Years)
Somali Region	89,389	518	628	0.01	618,116	814.44	10
Shinele Zone	2,674	-	-	-	-	-	-
Shinele	560	-	-	-	-	-	-
Erer	2,114	-	-	-	-	-	-
Jijiga Zone	68,805	518	628	0.01	618,116	814.44	10
Jijiga	35,862	-	-	-	-	-	-
Teferi Ber	18,096	501	611	0.03	594,274	798.08	*
Kebri Beyah	14,847	*	*	-	*	*	*
Liben Zone	17,911	-	-	-	-	-	-
Filtu	4,657	-	-	-	-	-	-
Dolo Odo	5,232	-	-	-	-	-	-
Moyale	8,022	-	-	-	-	-	-

TABLE 8.24A: -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)
Somali Region	89,389	52,276	92,340	1.03	61,276,704	381.48	6
Shinele Zone	2,674	993	1,464	0.55	1,006,307	468.86	5
Shinele	560	73	112	0.20	78,174	460.14	5
Erer	2,114	919	1,352	0.64	928,133	469.58	6
Jijiga Zone	68,805	46,462	80,936	1.18	54,168,330	390.00	6
Jijiga	35,862	22,135	37,789	1.05	23,984,013	372.70	6
Teferi Ber	18,096	12,115	19,654	1.09	13,307,692	442.18	6
Kebri Beyah	14,847	12,211	23,493	1.58	16,876,625	374.17	6
Liben Zone	17,911	4,822	9,940	0.55	6,102,067	299.23	7
Filtu	4,657	1,950	4,071	0.87	2,344,256	284.53	7
Dolo Odo	5,232	852	1,743	0.33	1,038,959	285.49	6
Moyale	8,022	2,020	4,125	0.51	2,718,852	319.62	7

TABLE 8.25A: - Number of Holders Reporting Ass (For transportation/ threshing) Owned, Quantity Reported, Replacement Value and Average age of Ass, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Asses Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Ass (Birr)	Average Age of Ass (Years)
Somali Region	89,389	37,495	45,928	0.51	12,547,418	221.86	9
Shinele Zone	2,674	647	748	0.28	173,860	188.26	6
Shinele	560	129	156	0.28	51,621	254.62	8
Erer	2,114	518	592	0.28	122,239	170.77	6
Jijiga Zone	68,805	30,123	36,327	0.53	8,893,951	204.38	8
Jijiga	35,862	19,068	23,120	0.64	5,538,137	196.60	8
Teferi Ber	18,096	8,344	9,759	0.54	2,502,729	222.21	8
Kebri Beyah	14,847	2,710	3,447	0.23	853,085	206.11	9
Liben Zone	17,911	6,725	8,854	0.49	3,479,607	296.40	12
Filtu	4,657	1,936	2,764	0.59	978,104	246.67	10
Dolo Odo	5,232	2,719	3,494	0.67	1,338,153	295.53	14
Moyale	8,022	2,071	2,596	0.32	1,163,350	350.54	12

TABLE 8.26A: - Number of Holders Reporting Camel (For threshing/ transportation) Owned, Quantity Reported, Replacement Value and Average age of Camel, for Private Holdings

Geographic Area.	Total Number of Crop Holders	Number of Holders Reporting	Number of Camels Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Camel (Birr)	Average Age of Camel (Years)
Somali Region	89,389	11,365	16,091	0.18	17,232,801	772.07	11
Shinele Zone	2,674	165	274	0.10	301,272	676.45	10
Shinele	560	19	26	0.05	26,387	717.65	12
Erer	2,114	145	249	0.12	274,885	669.43	9
Jijiga Zone	68,805	8,113	10,172	0.15	12,255,092	960.97	11
Jijiga	35,862	783	973	0.03	1,099,188	936.81	11
Teferi Ber	18,096	2,697	3,879	0.21	4,109,208	753.44	10
Kebri Beyah	14,847	4,633	5,319	0.36	7,046,696	1,116.92	11
Liben Zone	17,911	3,087	5,645	0.32	4,676,437	436.31	11
Filtu	4,657	1,804	2,959	0.64	2,328,159	442.83	11
Dolo Odo	5,232	276	437	0.08	380,709	546.03	14
Moyale	8,022	1,007	2,249	0.28	1,967,569	406.41	11

TABLE 8.27A: - Number of Holders Reporting Cattle (Working Age for Threshing/ 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)
Somali Region	89,389	49,186	99,077	1.11	64,826,868	334.96	6
Shinele Zone	2,674	1,015	1,514	0.57	1,060,264	470.74	6
Shinele	560	84	134	0.24	92,863	439.39	4
Erer	2,114	931	1,380	0.65	967,401	473.78	6
Jijiga Zone	68,805	44,580	89,777	1.30	58,930,693	337.00	6
Jijiga	35,862	20,187	34,933	0.97	22,727,861	375.87	6
Teferi Ber	18,096	11,885	27,850	1.54	17,423,797	294.33	7
Kebri Beyah	14,847	12,509	26,994	1.82	18,779,035	330.70	6
Liben Zone	17,911	3,590	7,786	0.43	4,835,911	285.13	8
Filtu	4,657	1,426	3,022	0.65	1,822,530	288.03	8
Dolo Odo	5,232	399	901	0.17	528,599	260.55	7
Moyale	8,022	1,765	3,863	0.48	2,484,782	288.59	7

TABLE 8.28A:- Number of Holders Reporting Mule (For threshing/ transportation) Owned, Quantity Reported, Replacement Value and Average age of Mule, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Mules Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Mule (Birr)	Average Age of Mule (Years)
Somali Region	89,389	94	*	-	*	*	10
Shinele Zone	2,674	24	24	0.01	24,693	1,028.88	14
Shinele	560	7	7	0.01	14,637	2,091.00	15
Erer	2,114	*	*	-	*	*	*
Jijiga Zone	68,805	*	*	-	*	*	*
Jijiga	35,862	-	-	-	-	-	-
Teferi Ber	18,096	*	*	-	*	*	*
Kebri Beyah	14,847	*	*	-	*	*	*
Liben Zone	17,911	*	*	-	*	*	*
Filtu	4,657	*	*	-	*	*	*
Dolo Odo	5,232	-	-	-	-	-	-
Moyale	8,022	-	-	-	-	-	-

TABLE 8.29A:- 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)
Somali Region	89,389	425	425	0.00	19,158	45.08	6
Shinele Zone	2,674	52	52	0.02	1,435	27.59	6
Shinele	560	-	-	-	-	-	-
Erer	2,114	52	52	0.02	1,435	27.59	6
Jijiga Zone	68,805	357	357	0.01	16,960	47.51	6
Jijiga	35,862	295	295	0.01	12,180	41.29	5
Teferi Ber	18,096	-	-	-	-	-	-
Kebri Beyah	14,847	*	*	-	*	*	*
Liben Zone	17,911	*	*	-	763	*	*
Filtu	4,657	*	*	-	*	*	*
Dolo Odo	5,232	3	3	0.00	290	96.67	10
Moyale	8,022	-	-	-	-	-	-

TABLE 8.30A: - 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)
Somali Region	89,389	6,264	6,739	0.08	969,582	136.33	26
Shinele Zone	2,674	36	36	0.01	775	21.54	6
Shinele	560	-	-	-	-	-	-
Erer	2,114	36	36	0.02	775	21.54	6
Jijiga Zone	68,805	*	*	-	*	*	*
Jijiga	35,862	*	*	-	*	*	*
Teferi Ber	18,096	-	-	-	-	-	-
Kebri Beyah	14,847	-	-	-	-	-	-
Liben Zone	17,911	5,200	5,676	0.32	924,772	153.97	29
Filtu	4,657	1,846	2,065	0.44	278,153	119.28	29
Dolo Odo	5,232	856	877	0.17	317,478	359.96	39
Moyale	8,022	2,499	2,733	0.34	329,140	114.13	25

TABLE 8.31A: - Number of Holders Reporting 'Gudguad' Owned, Quantity Reported, Replacement Value and Storage Capacity of 'Gudguad', for Private Holdings.

Geographic Area.	Total Number of Crop Holders	Number of Holders Reporting	Number of 'Gudguads' Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per 'Gudguad' (Birr)	Average Storage Capacity of 'Gudguad' (Quintal)
Somali Region	89,389	43,300	56,116	0.63	5,518,748	77.41	14
Shinele Zone	2,674	639	639	0.24	27,126	42.45	13
Shinele	560	17	17	0.03	1,163	68.38	5
Erer	2,114	622	622	0.29	25,963	41.74	13
Jijiga Zone	68,805	42,485	55,213	0.80	5,467,769	77.92	14
Jijiga	35,862	26,867	35,284	0.98	3,163,122	70.86	12
Teferi Ber	18,096	8,935	12,217	0.68	1,649,749	97.58	20
Kebri Beyah	14,847	6,683	7,713	0.52	654,898	79.11	18
Liben Zone	17,911	177	264	0.01	23,854	55.47	10
Filtu	4,657	*	*	-	*	*	*
Dolo Odo	5,232	102	170	0.03	18,624	63.77	10
Moyale	8,022	-	-	-	-	-	-

TABLE 8. 32A - 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)
Somali Region	89,389	5	5	0.00	182	36.47	13
Shinele Zone	2,674	-	-	-	-	-	-
Shinele	560	-	-	-	-	-	-
Erer	2,114	-	-	-	-	-	-
Jijiga Zone	68,805	-	-	-	-	-	-
Jijiga	35,862	-	-	-	-	-	-
Teferi Ber	18,096	-	-	-	-	-	-
Kebri Beyah	14,847	-	-	-	-	-	-
Liben Zone	17,911	5	5	0.00	182	36.47	13
Filtu	4,657	-	-	-	-	-	-
Dolo Odo	5,232	5	5	0.00	182	36.47	13
Moyale	8,022	-	-	-	-	-	-

STATISTICAL TABLES PRESENTING THE CENSUS RESULTS AT ZONAL AND WOREDA LEVELS

Tables 8.1B- 8.32B

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	%
Somali Region	14,753	16.50	54,261	60.70	15,736	17.60	3,124	3.49	872	0.98	643	0.72
Shinele Zone	1,011	37.81	958	35.83	370	13.84	177	6.62	66	2.47	92	3.44
Shinele	125	22.32	324	57.86	77	13.75	28	5.00	6	1.07	-	-
Erer	885	41.86	635	30.04	293	13.86	149	7.05	60	2.84	92	4.35
Jijiga Zone	10,496	15.25	44,470	64.63	11,793	17.14	1,720	2.50	189	0.27	137	0.20
Jijiga	6,573	18.33	22,583	62.97	5,623	15.68	906	2.53	67	0.19	110	0.31
Teferi Ber	2,436	13.46	12,454	68.82	2,862	15.82	325	1.80	19	0.10	-	-
Kebri Beyah	1,485	10.00	9,433	63.53	3,308	22.28	489	3.29	104	0.70	28	0.19
Liben Zone	3,247	18.13	8,833	49.32	3,574	19.95	1,227	6.85	616	3.44	414	2.31
Filtu	935	20.08	2,300	49.39	973	20.89	346	7.43	91	1.95	12	0.26
Dolo Odo	620	11.85	2,829	54.07	1,241	23.72	308	5.89	171	3.27	63	1.20
Moyale	1,694	21.12	3,704	46.17	1,360	16.95	572	7.13	354	4.41	338	4.21

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	%
Somali Region	76,053	85.08	11,310	12.65	1,620	1.81	329	0.37	35	0.04	42	0.05
Shinele Zone	2,339	87.47	260	9.72	62	2.32	13	0.49	-	-	-	-
Shinele	511	91.25	49	8.75	-	-	-	-	-	-	-	-
Erer	1,828	86.47	211	9.98	62	2.93	13	0.61	-	-	-	-
Jijiga Zone	60,956	88.59	6,818	9.91	842	1.22	189	0.27	-	-	-	-
Jijiga	31,966	89.14	3,203	8.93	560	1.56	133	0.37	-	-	-	-
Teferi Ber	16,397	90.61	1,403	7.75	240	1.33	56	0.31	-	-	-	-
Kebri Beyah	12,594	84.83	2,211	14.89	42	0.28	-	-	-	-	-	-
Liben Zone	12,760	71.24	4,231	23.62	715	3.99	128	0.71	35	0.20	42	0.23
Filtu	4,064	87.27	452	9.71	131	2.81	10	0.21	-	-	-	-
Dolo Odo	3,154	60.28	1,647	31.48	299	5.71	77	1.47	35	0.67	20	0.38
Moyale	5,541	69.07	2,132	26.58	286	3.57	41	0.51	-	-	22	0.27

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	%
Somali Region	31,532	35.28	42,454	47.49	12,443	13.92	2,039	2.28	597	0.67	324	0.36
Shinele Zone	320	11.97	1,328	49.66	669	25.02	182	6.81	95	3.55	80	2.99
Shinele	207	36.96	333	59.46	20	3.57	-	-	-	-	-	-
Erer	113	5.35	995	47.07	649	30.70	182	8.61	95	4.49	80	3.78
Jijiga Zone	19,270	28.01	36,430	52.95	10,823	15.73	1,689	2.45	435	0.63	158	0.23
Jijiga	9,613	26.81	18,720	52.20	6,170	17.20	1,177	3.28	75	0.21	107	0.30
Teferi Ber	6,450	35.64	8,624	47.66	2,468	13.64	336	1.86	218	1.20	-	-
Kebri Beyah	3,206	21.59	9,086	61.20	2,185	14.72	176	1.19	142	0.96	52	0.35
Liben Zone	11,943	66.68	4,696	26.22	952	5.32	167	0.93	67	0.37	86	0.48
Filtu	3,524	75.67	958	20.57	112	2.40	48	1.03	15	0.32	-	-
Dolo Odo	3,167	60.53	1,514	28.94	426	8.14	69	1.32	19	0.36	37	0.71
Moyale	5,254	65.49	2,223	27.71	414	5.16	50	0.62	33	0.41	48	0.60

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	%
Somali Region	49,326	55.18	33,094	37.02	5,859	6.55	787	0.88	223	0.25	100	0.11
Shinele Zone	1,131	42.30	1,292	48.32	239	8.94	-	-	12	0.45	-	-
Shinele	401	71.61	147	26.25	12	2.14	-	-	-	-	-	-
Erer	731	34.58	1,144	54.12	227	10.74	-	-	12	0.57	-	-
Jijiga Zone	33,589	48.82	29,880	43.43	4,666	6.78	565	0.82	105	0.15	-	-
Jijiga	14,678	40.93	18,670	52.06	2,236	6.24	245	0.68	33	0.09	-	-
Teferi Ber	10,517	58.12	6,128	33.86	1,179	6.52	225	1.24	47	0.26	-	-
Kebri Beyah	8,394	56.54	5,082	34.23	1,250	8.42	95	0.64	26	0.18	-	-
Liben Zone	14,608	81.56	1,923	10.74	954	5.33	221	1.23	105	0.59	100	0.56
Filtu	3,920	84.17	407	8.74	264	5.67	37	0.79	29	0.62	-	-
Dolo Odo	3,693	70.58	957	18.29	311	5.94	113	2.16	58	1.11	100	1.91
Moyale	6,994	87.19	559	6.97	378	4.71	72	0.90	19	0.24	-	-

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	%
Somali Region	83,162	93.03	5,662	6.33	507	0.57	20	0.02	19	0.02	19	0.02
Shinele Zone	2,603	97.34	61	2.28	6	0.22	2	0.07	2	0.07	-	-
Shinele	525	93.75	35	6.25	-	-	-	-	-	-	-	-
Erer	2,077	98.25	27	1.28	6	0.28	2	0.09	2	0.09	-	-
Jijiga Zone	63,443	92.21	4,970	7.22	373	0.54	19	0.03	-	-	-	-
Jijiga	34,247	95.50	1,585	4.42	30	0.08	-	-	-	-	-	-
Teferi Ber	14,836	81.98	2,933	16.21	308	1.70	19	0.10	-	-	-	-
Kebri Beyah	14,359	96.71	453	3.05	35	0.24	-	-	-	-	-	-
Liben Zone	17,117	95.57	631	3.52	127	0.71	-	-	17	0.09	19	0.11
Filtu	4,633	99.48	24	0.52	-	-	-	-	-	-	-	-
Dolo Odo	5,031	96.16	132	2.52	69	1.32	-	-	-	-	-	-
Moyale	7,454	92.92	474	5.91	58	0.72	-	-	17	0.21	19	0.24

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	%
Somali Region	71,428	79.91	14,074	15.74	3,037	3.40	643	0.72	187	0.21	20	0.02
Shinele Zone	2,456	91.85	211	7.89	7	0.26	-	-	-	-	-	-
Shinele	439	78.39	121	21.61	-	-	-	-	-	-	-	-
Erer	2,018	95.46	89	4.21	7	0.33	-	-	-	-	-	-
Jijiga Zone	56,354	81.90	10,140	14.74	1,893	2.75	349	0.51	69	0.10	-	-
Jijiga	30,892	86.14	4,820	13.44	150	0.42	-	-	-	-	-	-
Teferi Ber	13,723	75.83	3,404	18.81	779	4.30	143	0.79	47	0.26	-	-
Kebri Beyah	11,738	79.06	1,916	12.90	964	6.49	207	1.39	22	0.15	-	-
Liben Zone	12,617	70.44	3,724	20.79	1,138	6.35	294	1.64	118	0.66	20	0.11
Filtu	3,449	74.06	945	20.29	192	4.12	27	0.58	44	0.94	-	-
Dolo Odo	3,865	73.87	921	17.60	334	6.38	91	1.74	21	0.40	-	-
Moyale	5,303	66.11	1,858	23.16	612	7.63	176	2.19	53	0.66	20	0.25

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	%
Somali Region	31,253	34.96	32,169	35.99	24,199	27.07	420	0.47	1,145	1.28	203	0.23
Shinele Zone	1,740	65.07	489	18.29	445	16.64	-	-	-	-	-	-
Shinele	488	87.14	20	3.57	52	9.29	-	-	-	-	-	-
Erer	1,252	59.22	470	22.23	392	18.54	-	-	-	-	-	-
Jijiga Zone	17,446	25.36	28,715	41.73	21,193	30.80	388	0.56	901	1.31	162	0.24
Jijiga	9,825	27.40	16,081	44.84	9,448	26.35	159	0.44	278	0.78	71	0.20
Teferi Ber	4,772	26.37	6,110	33.76	6,610	36.53	61	0.34	452	2.50	91	0.50
Kebri Beyah	2,851	19.20	6,523	43.93	5,134	34.58	168	1.13	171	1.15	-	-
Liben Zone	12,068	67.38	2,965	16.55	2,562	14.30	32	0.18	244	1.36	40	0.22
Filtu	2,110	45.31	1,466	31.48	991	21.28	-	-	75	1.61	15	0.32
Dolo Odo	4,621	88.32	413	7.89	178	3.40	-	-	20	0.38	-	-
Moyale	5,336	66.52	1,086	13.54	1,394	17.38	32	0.40	149	1.86	25	0.31

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	%
Somali Region	32,582	36.45	49,884	55.81	5,059	5.66	1,434	1.60	391	0.44	39	0.04
Shinele Zone	1,718	64.25	937	35.04	17	0.64	-	-	2	0.07	-	-
Shinele	485	86.61	75	13.39	-	-	-	-	-	-	-	-
Erer	1,234	58.37	861	40.73	17	0.80	-	-	2	0.09	-	-
Jijiga Zone	18,903	27.47	43,976	63.91	4,292	6.24	1,293	1.88	341	0.50	-	-
Jijiga	10,694	29.82	22,048	61.48	1,985	5.54	869	2.42	266	0.74	-	-
Teferi Ber	5,021	27.75	11,727	64.80	895	4.95	423	2.34	30	0.17	-	-
Kebri Beyah	3,189	21.48	10,201	68.71	1,412	9.51	-	-	45	0.30	-	-
Liben Zone	11,960	66.77	4,972	27.76	750	4.19	142	0.79	48	0.27	39	0.22
Filtu	2,175	46.70	2,238	48.06	199	4.27	33	0.71	-	-	12	0.26
Dolo Odo	4,414	84.37	783	14.97	35	0.67	-	-	-	-	-	-
Moyale	5,372	66.97	1,950	24.31	516	6.43	109	1.36	48	0.60	27	0.34

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	%
Somali Region	30,075	33.65	57,078	63.85	1,987	2.22	177	0.20	32	0.04	40	0.04
Shinele Zone	1,712	64.02	950	35.53	12	0.45	-	-	-	-	-	-
Shinele	477	85.18	83	14.82	-	-	-	-	-	-	-	-
Erer	1,235	58.42	867	41.01	12	0.57	-	-	-	-	-	-
Jijiga Zone	16,672	24.23	50,540	73.45	1,446	2.10	75	0.11	32	0.05	40	0.06
Jijiga	9,493	26.47	25,945	72.35	277	0.77	75	0.21	32	0.09	40	0.11
Teferi Ber	4,626	25.56	13,123	72.52	347	1.92	-	-	-	-	-	-
Kebri Beyah	2,553	17.20	11,472	77.27	822	5.54	-	-	-	-	-	-
Liben Zone	11,693	65.28	5,587	31.19	529	2.95	102	0.57	-	-	-	-
Filtu	2,102	45.14	2,381	51.13	134	2.88	40	0.86	-	-	-	-
Dolo Odo	4,269	81.59	923	17.64	40	0.76	-	-	-	-	-	-
Moyale	5,321	66.33	2,284	28.47	355	4.43	62	0.77	-	-	-	-

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	%
Somali Region	30,881	34.55	54,537	61.01	3,624	4.05	304	0.34	43	0.05	-	-
Shinele Zone	1,640	61.33	986	36.87	48	1.80	-	-	-	-	-	-
Shinele	462	82.50	83	14.82	15	2.68	-	-	-	-	-	-
Erer	1,178	55.72	903	42.72	33	1.56	-	-	-	-	-	-
Jijiga Zone	17,627	25.62	48,163	70.00	2,807	4.08	165	0.24	43	0.06	-	-
Jijiga	10,388	28.97	24,601	68.60	776	2.16	65	0.18	32	0.09	-	-
Teferi Ber	5,032	27.81	12,606	69.66	428	2.37	30	0.17	-	-	-	-
Kebri Beyah	2,208	14.87	10,956	73.79	1,603	10.80	69	0.46	11	0.07	-	-
Liben Zone	11,614	64.84	5,389	30.09	769	4.29	139	0.78	-	-	-	-
Filtu	2,132	45.78	2,361	50.70	149	3.20	15	0.32	-	-	-	-
Dolo Odo	4,274	81.69	907	17.34	51	0.97	-	-	-	-	-	-
Moyale	5,208	64.92	2,121	26.44	569	7.09	124	1.55	-	-	-	-

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	%
Somali Region	32,191	36.01	50,230	56.19	3,358	3.76	609	0.68	2,960	3.31	41	0.05
Shinele Zone	1,737	64.96	908	33.96	29	1.08	-	-	-	-	-	-
Shinele	475	84.82	78	13.93	7	1.25	-	-	-	-	-	-
Erer	1,262	59.70	830	39.26	22	1.04	-	-	-	-	-	-
Jijiga Zone	18,681	27.15	44,062	64.04	2,513	3.65	556	0.81	2,952	4.29	41	0.06
Jijiga	10,158	28.33	24,749	69.01	888	2.48	35	0.10	32	0.09	-	-
Teferi Ber	5,395	29.81	9,997	55.24	1,102	6.09	425	2.35	1,177	6.50	-	-
Kebri Beyah	3,128	21.07	9,316	62.75	524	3.53	95	0.64	1,743	11.74	41	0.28
Liben Zone	11,772	65.72	5,260	29.37	817	4.56	53	0.30	9	0.05	-	-
Filtu	2,115	45.42	2,385	51.21	142	3.05	15	0.32	-	-	-	-
Dolo Odo	4,346	83.07	803	15.35	83	1.59	-	-	-	-	-	-
Moyale	5,312	66.22	2,072	25.83	591	7.37	38	0.47	9	0.11	-	-

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	%
Somali Region	29,785	33.32	56,472	63.18	2,797	3.13	296	0.33	39	0.04	-	-
Shinele Zone	1,702	63.65	959	35.86	13	0.49	-	-	-	-	-	-
Shinele	465	83.04	95	16.96	-	-	-	-	-	-	-	-
Erer	1,237	58.51	864	40.87	13	0.61	-	-	-	-	-	-
Jijiga Zone	16,396	23.83	49,927	72.56	2,261	3.29	189	0.27	32	0.05	-	-
Jijiga	9,505	26.50	25,957	72.38	333	0.93	35	0.10	32	0.09	-	-
Teferi Ber	4,431	24.49	12,626	69.77	948	5.24	91	0.50	-	-	-	-
Kebri Beyah	2,459	16.56	11,345	76.41	980	6.60	63	0.42	-	-	-	-
Liben Zone	11,690	65.27	5,585	31.18	522	2.91	107	0.60	7	0.04	-	-
Filtu	2,086	44.79	2,412	51.79	129	2.77	30	0.64	-	-	-	-
Dolo Odo	4,274	81.69	918	17.55	20	0.38	20	0.38	-	-	-	-
Moyale	5,330	66.44	2,255	28.11	373	4.65	57	0.71	7	0.09	-	-

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	%
Somali Region	30,294	33.89	41,677	46.62	13,871	15.52	2,663	2.98	687	0.77	197	0.22
Shinele Zone	1,732	64.77	858	32.09	80	2.99	4	0.15	-	-	-	-
Shinele	284	50.71	258	46.07	18	3.21	-	-	-	-	-	-
Erer	1,448	68.50	600	28.38	62	2.93	4	0.19	-	-	-	-
Jijiga Zone	14,570	21.18	37,779	54.91	13,086	19.02	2,548	3.70	663	0.96	159	0.23
Jijiga	6,813	19.00	20,758	57.88	6,748	18.82	1,091	3.04	347	0.97	105	0.29
Teferi Ber	5,340	29.51	8,975	49.60	3,057	16.89	610	3.37	95	0.52	19	0.10
Kebri Beyah	2,418	16.29	8,045	54.19	3,281	22.10	846	5.70	222	1.50	35	0.24
Liben Zone	13,995	78.14	3,040	16.97	705	3.94	111	0.62	23	0.13	37	0.21
Filtu	4,083	87.67	482	10.35	64	1.37	24	0.52	4	0.09	-	-
Dolo Odo	4,680	89.45	430	8.22	81	1.55	4	0.08	-	-	37	0.71
Moyale	5,232	65.22	2,128	26.53	560	6.98	83	1.03	19	0.24	-	-

Table 8.14B:- Number of Crop Holders that Owned Hay-Fork(metal) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Hay-Fork (metal)		One Hay-Fork (metal)		Two Hay-Forks (metal)		Three Hay-Forks (metal)		Four Hay-Forks (metal)		Five and above Hay-Forks (metal)	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region	88,709	99.24	654	0.73	-	-	26	0.03	-	-	-	-
Shinele Zone	2,631	98.39	43	1.61	-	-	-	-	-	-	-	-
Shinele	534	95.36	26	4.64	-	-	-	-	-	-	-	-
Erer	2,097	99.20	17	0.80	-	-	-	-	-	-	-	-
Jijiga Zone	68,207	99.13	572	0.83	-	-	26	0.04	-	-	-	-
Jijiga	35,466	98.90	396	1.10	-	-	-	-	-	-	-	-
Teferi Ber	17,949	99.19	147	0.81	-	-	-	-	-	-	-	-
Kebri Beyah	14,792	99.63	29	0.20	-	-	26	0.18	-	-	-	-
Liben Zone	17,871	99.78	40	0.22	-	-	-	-	-	-	-	-
Filtu	4,657	100.00	-	-	-	-	-	-	-	-	-	-
Dolo Odo	5,218	99.73	14	0.27	-	-	-	-	-	-	-	-
Moyale	7,997	99.69	25	0.31	-	-	-	-	-	-	-	-

Table 8.15B:- 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	%
Somali Region	59,826	66.93	26,230	29.34	3,011	3.37	263	0.29	28	0.03	31	0.03
Shinele Zone	2,025	75.73	606	22.66	29	1.08	7	0.26	-	-	7	0.26
Shinele	514	91.79	46	8.21	-	-	-	-	-	-	-	-
Erer	1,510	71.43	561	26.54	29	1.37	7	0.33	-	-	7	0.33
Jijiga Zone	40,035	58.19	25,499	37.06	2,972	4.32	247	0.36	28	0.04	24	0.03
Jijiga	17,676	49.29	16,347	45.58	1,761	4.91	78	0.22	-	-	-	-
Teferi Ber	9,202	50.85	7,945	43.90	811	4.48	114	0.63	-	-	24	0.13
Kebri Beyah	13,157	88.62	1,207	8.13	400	2.69	55	0.37	28	0.19	-	-
Liben Zone	17,766	99.19	125	0.70	10	0.06	10	0.06	-	-	-	-
Filtu	4,532	97.32	105	2.25	10	0.21	10	0.21	-	-	-	-
Dolo Odo	5,218	99.73	14	0.27	-	-	-	-	-	-	-	-
Moyale	8,016	99.93	6	0.07	-	-	-	-	-	-	-	-

Table 8.16B:- 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	%
Somali Region	47,813	53.49	23,283	26.05	9,036	10.11	3,044	3.41	2,644	2.96	3,569	3.99
Shinele Zone	1,367	51.12	570	21.32	348	13.01	115	4.30	31	1.16	243	9.09
Shinele	469	83.75	84	15.00	-	-	-	-	7	1.25	-	-
Erer	897	42.43	487	23.04	348	16.46	115	5.44	24	1.14	243	11.49
Jijiga Zone	32,335	47.00	20,806	30.24	7,565	10.99	2,504	3.64	2,447	3.56	3,148	4.58
Jijiga	14,654	40.86	12,948	36.11	5,130	14.30	1,775	4.95	1,067	2.98	288	0.80
Teferi Ber	7,087	39.16	5,752	31.79	1,992	11.01	572	3.16	1,069	5.91	1,624	8.97
Kebri Beyah	10,595	71.36	2,106	14.18	443	2.98	156	1.05	311	2.09	1,236	8.32
Liben Zone	14,112	78.79	1,908	10.65	1,123	6.27	425	2.37	165	0.92	178	0.99
Filtu	3,949	84.80	96	2.06	233	5.00	169	3.63	58	1.25	152	3.26
Dolo Odo	3,590	68.62	1,336	25.54	274	5.24	32	0.61	-	-	-	-
Moyale	6,572	81.92	475	5.92	617	7.69	224	2.79	108	1.35	26	0.32

Table 8.17B:- Number of Crop Holders that Owned Winnower (metal) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Winnower (metal)		One Winnower (metal)		Two Winnowers (metal)		Three Winnowers (metal)		Four Winnowers (metal)		Five and above Winnowers (metal)	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region	89,192	99.78	197	0.22	-	-	-	-	-	-	-	-
Shinele Zone	2,619	97.94	55	2.06	-	-	-	-	-	-	-	-
Shinele	540	96.43	20	3.57	-	-	-	-	-	-	-	-
Erer	2,078	98.30	36	1.70	-	-	-	-	-	-	-	-
Jijiga Zone	68,682	99.82	123	0.18	-	-	-	-	-	-	-	-
Jijiga	35,739	99.66	123	0.34	-	-	-	-	-	-	-	-
Teferi Ber	18,096	100.00	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	14,847	100.00	-	-	-	-	-	-	-	-	-	-
Liben Zone	17,892	99.89	19	0.11	-	-	-	-	-	-	-	-
Filtu	4,657	100.00	-	-	-	-	-	-	-	-	-	-
Dolo Odo	5,232	100.00	-	-	-	-	-	-	-	-	-	-
Moyale	8,003	99.76	19	0.24	-	-	-	-	-	-	-	-

Table 8.18B:- Number of Crop Holders that Owned Winnower (wood) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Winnower (wood)		One Winnower (wood)		Two Winnowers (wood)		Three Winnowers (wood)		Four Winnowers (wood)		Five and above Winnowers (wood)	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region	72,632	81.25	15,505	17.35	957	1.07	204	0.23	91	0.10	-	-
Shinele Zone	2,144	80.18	516	19.30	14	0.52	-	-	-	-	-	-
Shinele	535	95.54	25	4.46	-	-	-	-	-	-	-	-
Erer	1,609	76.11	491	23.23	14	0.66	-	-	-	-	-	-
Jijiga Zone	52,672	76.55	14,921	21.69	923	1.34	198	0.29	91	0.13	-	-
Jijiga	28,175	78.57	7,488	20.88	151	0.42	48	0.13	-	-	-	-
Teferi Ber	10,451	57.75	6,633	36.65	772	4.27	149	0.82	91	0.50	-	-
Kebri Beyah	14,047	94.61	800	5.39	-	-	-	-	-	-	-	-
Liben Zone	17,818	99.48	68	0.38	19	0.11	6	0.03	-	-	-	-
Filtu	4,657	100.00	-	-	-	-	-	-	-	-	-	-
Dolo Odo	5,232	100.00	-	-	-	-	-	-	-	-	-	-
Moyale	7,929	98.84	68	0.85	19	0.24	6	0.07	-	-	-	-

Table 8.19B:- Number of Crop Holders that Owned Cart by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Cart		One Cart		Two Carts		Three Carts		Four Carts		Five and above Carts	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region	88,779	99.32	568	0.64	30	0.03	-	-	12	0.01	-	-
Shinele Zone	2,674	100.00	-	-	-	-	-	-	-	-	-	-
Shinele	560	100.00	-	-	-	-	-	-	-	-	-	-
Erer	2,114	100.00	-	-	-	-	-	-	-	-	-	-
Jijiga Zone	68,584	99.68	221	0.32	-	-	-	-	-	-	-	-
Jijiga	35,862	100.00	-	-	-	-	-	-	-	-	-	-
Teferi Ber	18,096	100.00	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	14,626	98.51	221	1.49	-	-	-	-	-	-	-	-
Liben Zone	17,522	97.83	347	1.94	30	0.17	-	-	12	0.07	-	-
Filtu	4,657	100.00	-	-	-	-	-	-	-	-	-	-
Dolo Odo	4,861	92.91	340	6.50	19	0.36	-	-	12	0.23	-	-
Moyale	8,004	99.78	7	0.09	11	0.14	-	-	-	-	-	-

Table 8.20B:- 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	%
Somali Region	89,093	99.67	239	0.27	57	0.06	-	-	-	-	-	-
Shinele Zone	2,661	99.51	13	0.49	-	-	-	-	-	-	-	-
Shinele	547	97.68	13	2.32	-	-	-	-	-	-	-	-
Erer	2,114	100.00	-	-	-	-	-	-	-	-	-	-
Jijiga Zone	68,626	99.74	122	0.18	57	0.08	-	-	-	-	-	-
Jijiga	35,832	99.92	30	0.08	-	-	-	-	-	-	-	-
Teferi Ber	17,999	99.46	40	0.22	57	0.31	-	-	-	-	-	-
Kebri Beyah	14,795	99.65	52	0.35	-	-	-	-	-	-	-	-
Liben Zone	17,807	99.42	104	0.58	-	-	-	-	-	-	-	-
Filtu	4,657	100.00	-	-	-	-	-	-	-	-	-	-
Dolo Odo	5,232	100.00	-	-	-	-	-	-	-	-	-	-
Moyale	7,918	98.70	104	1.30	-	-	-	-	-	-	-	-

Table 8.21B:- 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	%
Somali Region	87,857	98.29	1,403	1.57	103	0.12	26	0.03	-	-	-	-
Shinele Zone	2,638	98.65	36	1.35	-	-	-	-	-	-	-	-
Shinele	560	100.00	-	-	-	-	-	-	-	-	-	-
Erer	2,078	98.30	36.	1.70	-	-	-	-	-	-	-	-
Jijiga Zone	67,599	98.25	1,084	1.58	96	0.14	26	0.04	-	-	-	-
Jijiga	35,676	99.48	186	0.52	-	-	-	-	-	-	-	-
Teferi Ber	17,983	99.38	88	0.49	25	0.14	-	-	-	-	-	-
Kebri Beyah	13,940	93.89	810	5.46	71	0.48	26	0.18	-	-	-	-
Liben Zone	17,620	98.38	283	1.58	8	0.04	-	-	-	-	-	-
Filtu	4,642	99.68	15	0.32	-	-	-	-	-	-	-	-
Dolo Odo	5,224	99.85	-	-	8	0.15	-	-	-	-	-	-
Moyale	7,754	96.66	268	3.34	-	-	-	-	-	-	-	-

Table 8.22B:- Number of Crop Holders that Owned Ass (Specifically for ploughing) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Ass		One Ass		Two Asses		Three Asses		Four Asses		Five and above Asses	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region	88,732	99.27	481	0.54	172	0.19	-	-	4	0.00	-	-
Shinele Zone	2,674	100.00	-	-	-	-	-	-	-	-	-	-
Shinele	560	100.00	-	-	-	-	-	-	-	-	-	-
Erer	2,114	100.00	-	-	-	-	-	-	-	-	-	-
Jijiga Zone	68,170	99.08	481	0.70	154	0.22	-	-	-	-	-	-
Jijiga	35,748	99.68	45	0.13	69	0.19	-	-	-	-	-	-
Teferi Ber	17,725	97.95	330	1.82	41	0.23	-	-	-	-	-	-
Kebri Beyah	14,698	99.00	106	0.71	43	0.29	-	-	-	-	-	-
Liben Zone	17,888	99.87	-	-	19	0.11	-	-	4	0.02	-	-
Filtu	4,649	99.83	-	-	4	0.09	-	-	4	0.09	-	-
Dolo Odo	5,218	99.73	-	-	14	0.27	-	-	-	-	-	-
Moyale	8,022	100.00	-	-	-	-	-	-	-	-	-	-

Table 8.23B:- Number of Crop Holders that Owned Camel (Specifically for ploughing) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Camel		One Camel		Two Camels		Three Camels		Four Camels		Five and above Camels	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region	88,870	99.42	409	0.46	110	0.12	-	-	-	-	-	-
Shinele Zone	2,674	100.00	-	-	-	-	-	-	-	-	-	-
Shinele	560	100.00	-	-	-	-	-	-	-	-	-	-
Erer	2,114	100.00	-	-	-	-	-	-	-	-	-	-
Jijiga Zone	68,286	99.25	409	0.59	110	0.16	-	-	-	-	-	-
Jijiga	35,862	100.00	-	-	-	-	-	-	-	-	-	-
Teferi Ber	17,594	97.23	392	2.17	110	0.61	-	-	-	-	-	-
Kebri Beyah	14,830	99.89	17	0.11	-	-	-	-	-	-	-	-
Liben Zone	17,911	100.00	-	-	-	-	-	-	-	-	-	-
Filtu	4,657	100.00	-	-	-	-	-	-	-	-	-	-
Dolo Odo	5,232	100.00	-	-	-	-	-	-	-	-	-	-
Moyale	8,022	100.00	-	-	-	-	-	-	-	-	-	-

Table 8.24B:- 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	%
Somali Region	37,113	41.52	16,352	18.29	33,340	37.30	1,844	2.06	643	0.72	97	0.11
Shinele Zone	1,682	62.90	530	19.82	454	16.98	8	0.30	-	-	-	-
Shinele	486	86.79	35	6.25	39	6.96	-	-	-	-	-	-
Erer	1,195	56.53	495	23.42	416	19.68	8	0.38	-	-	-	-
Jijiga Zone	22,344	32.47	15,428	22.42	28,857	41.94	1,665	2.42	446	0.65	65	0.09
Jijiga	13,727	38.28	7,701	21.47	13,496	37.63	754	2.10	136	0.38	48	0.13
Teferi Ber	5,980	33.05	5,427	29.99	6,537	36.12	110	0.61	25	0.14	17	0.09
Kebri Beyah	2,636	17.75	2,300	15.49	8,825	59.44	801	5.40	285	1.92	-	-
Liben Zone	13,088	73.07	394	2.20	4,029	22.49	171	0.95	197	1.10	32	0.18
Filtu	2,707	58.13	141	3.03	1,597	34.29	120	2.58	88	1.89	4	0.09
Dolo Odo	4,380	83.72	-	-	832	15.90	-	-	20	0.38	-	-
Moyale	6,002	74.82	253	3.15	1,600	19.95	51	0.64	89	1.11	27	0.34

Table 8.25B:- Number of Crop Holders that Owned Ass (For threshing or transportation) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Ass		One Ass		Two Asses		Three Asses		Four Asses		Five and above Asses	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region	51,895	58.06	30,108	33.68	6,619	7.40	580	0.65	172	0.19	15	0.02
Shinele Zone	2,027	75.80	546	20.42	101	3.78	-	-	-	-	-	-
Shinele	431	76.96	102	18.21	27	4.82	-	-	-	-	-	-
Erer	1,596	75.50	444	21.00	74	3.50	-	-	-	-	-	-
Jijiga Zone	38,682	56.22	24,491	35.59	5,165	7.51	362	0.53	105	0.15	-	-
Jijiga	16,796	46.84	15,381	42.89	3,389	9.45	227	0.63	69	0.19	-	-
Teferi Ber	9,752	53.89	6,999	38.68	1,275	7.05	70	0.39	-	-	-	-
Kebri Beyah	12,137	81.75	2,110	14.21	500	3.37	65	0.44	35	0.24	-	-
Liben Zone	11,186	62.45	5,072	28.32	1,353	7.55	218	1.22	67	0.37	15	0.08
Filtu	2,722	58.45	1,314	28.22	463	9.94	110	2.36	48	1.03	-	-
Dolo Odo	2,513	48.03	2,058	39.33	551	10.53	106	2.03	4	0.08	-	-
Moyale	5,952	74.20	1,700	21.19	338	4.21	2	0.02	15	0.19	15	0.19

Table 8.26B:- Number of Crop Holders that Owned Camel (For threshing or transportation) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Camel		One Camel		Two Camels		Three Camels		Four Camels		Five and above Camels	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region	78,025	87.29	8,262	9.24	2,227	2.49	392	0.44	314	0.35	169	0.19
Shinele Zone	2,509	93.83	68	2.54	93	3.48	-	-	-	-	4	0.15
Shinele	541	96.61	13	2.32	6	1.07	-	-	-	-	-	-
Erer	1,969	93.14	55	2.60	86	4.07	-	-	-	-	4	0.19
Jijiga Zone	60,692	88.21	6,722	9.77	1,019	1.48	143	0.21	163	0.24	66	0.10
Jijiga	35,079	97.82	711	1.98	32	0.09	-	-	-	-	40	0.11
Teferi Ber	15,400	85.10	1,968	10.88	473	2.61	85	0.47	144	0.80	26	0.14
Kebri Beyah	10,214	68.80	4,042	27.22	514	3.46	58	0.39	19	0.13	-	-
Liben Zone	14,824	82.76	1,473	8.22	1,115	6.23	249	1.39	151	0.84	99	0.55
Filtu	2,853	61.26	1,002	21.52	569	12.22	148	3.18	72	1.55	13	0.28
Dolo Odo	4,956	94.72	184	3.52	54	1.03	7	0.13	31	0.59	-	-
Moyale	7,016	87.46	287	3.58	492	6.13	94	1.17	48	0.60	85	1.06

Table 8.27B:- 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	%
Somali Region	40,203	44.98	14,160	15.84	27,052	30.26	4,342	4.86	2,134	2.39	1,498	1.68
Shinele Zone	1,658	62.00	542	20.27	448	16.75	26	0.97	-	-	-	-
Shinele	476	85.00	35	6.25	49	8.75	-	-	-	-	-	-
Erer	1,183	55.96	507	23.98	398	18.83	26	1.23	-	-	-	-
Jijiga Zone	24,225	35.21	13,215	19.21	23,883	34.71	4,163	6.05	1,906	2.77	1,413	2.05
Jijiga	15,676	43.71	7,511	20.94	11,187	31.19	1,098	3.06	246	0.69	144	0.40
Teferi Ber	6,213	34.33	3,616	19.98	4,832	26.70	1,597	8.83	819	4:53	1,019	5.63
Kebri Beyah	2,339	15.75	2,087	14.06	7,864	52.97	1,467	9.88	841	5.66	249	1.68
Liben Zone	14,321	79.96	403	2.25	2,720	15.19	154	0.86	228	1.27	85	0.47
Filtu	3,231	69.38	89	1.91	1,161	24.93	103	2.21	69	1.48	4	0.09
Dolo Odo	4,833	92.37	5	0.10	355	6.79	-	-	24	0.46	15	0.29
Moyale	6,256	77.99	309	3.85	1,205	15.02	51	0.64	135	1.68	66	0.82

Table 8.28B:- Number of Crop Holders that Owned Mule (For threshing or transportation) by Geographic area.

Geographic area	Number of Crop holders that owned											
	No Mule		One Mule		Two Mules		Three Mules		Four Mules		Five and above Mules	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region	89,295	99.89	51	0.06	17	0.02	26	0.03	-	-	-	-
Shinele Zone	2,650	99.10	24	0.90	-	-	-	-	-	-	-	-
Shinele	553	98.75	7	1.25	-	-	-	-	-	-	-	-
Erer	2,097	99.20	17	0.80	-	-	-	-	-	-	-	-
Jijiga Zone	68,740	99.91	28	0.04	11	0.02	26	0.04	-	-	-	-
Jijiga	35,862	100.00	-	-	-	-	-	-	-	-	-	-
Teferi Ber	18,070	99.86	-	-	-	-	26	0.14	-	-	-	-
Kebri Beyah	14,808	99.74	28	0.19	11	0.07	-	-	-	-	-	-
Liben Zone	17,905	99.97	-	-	6	0.03	-	-	-	-	-	-
Filtu	4,651	99.87	-	-	6	0.13	-	-	-	-	-	-
Dolo Odo	5,232	100.00	-	-	-	-	-	-	-	-	-	-
Moyale	8,022	100.00	-	-	-	-	-	-	-	-	-	-

Table 8.29B:- 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	%
Somali Region	88,964	99.52	425	0.48	-	-	-	-	-	-	-	-
Shinele Zone	2,622	98.06	52	1.94	-	-	-	-	-	-	-	-
Shinele	560	100.00	-	-	-	-	-	-	-	-	-	-
Erer	2,062	97.54	52	2.46	-	-	-	-	-	-	-	-
Jijiga Zone	68,448	99.48	357	0.52	-	-	-	-	-	-	-	-
Jijiga	35,567	99.18	295	0.82	-	-	-	-	-	-	-	-
Teferi Ber	18,096	100.00	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	14,785	99.58	62	0.42	-	-	-	-	-	-	-	-
Liben Zone	17,896	99.92	15	0.08	-	-	-	-	-	-	-	-
Filtu	4,645	99.74	12	0.26	-	-	-	-	-	-	-	-
Dolo Odo	5,229	99.94	3	0.06	-	-	-	-	-	-	-	-
Moyale	8,022	100.00	-	-	-	-	-	-	-	-	-	-

Table 8.30B:- 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	%
Somali Region	83,126	92.99	5,807	6.50	437	0.49	19	0.02	-	-	-	-
Shinele Zone	2,638	98.65	36	1.35	-	-	-	-	-	-	-	-
Shinele	560	100.00	-	-	-	-	-	-	-	-	-	-
Erer	2,078	98.30	36	1.70	-	-	-	-	-	-	-	-
Jijiga Zone	67,777	98.51	1,028	1.49	-	-	-	-	-	-	-	-
Jijiga	34,834	97.13	1,028	2.87	-	-	-	-	-	-	-	-
Teferi Ber	18,096	100.00	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	14,847	100.00	-	-	-	-	-	-	-	-	-	-
Liben Zone	12,711	70.97	4,744	26.49	437	2.44	19	0.11	-	-	-	-
Filtu	2,811	60.36	1,646	35.34	181	3.89	19	0.41	-	-	-	-
Dolo Odo	4,376	83.64	834	15.94	22	0.42	-	-	-	-	-	-
Moyale	5,523	68.85	2,264	28.22	235	2.93	-	-	-	-	-	-

Table 8.31B:- Number of Crop Holders that Owned Local Storage 'Gudguad' by Geographic area.

Geographic area	Number of Crop holders that owned											
	No 'Gudguad'		One 'Gudguad'		Two 'Gudguads'		Three 'Gudguads'		Four 'Gudguads'		Five and above 'Gudguads'	
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
Somali Region	46,089	51.56	33,103	37.03	8,282	9.27	1,544	1.73	193	0.22	178	0.20
Shinele Zone	2,035	76.10	639	23.90	-	-	-	-	-	-	-	-
Shinele	543	96.96	17	3.04	-	-	-	-	-	-	-	-
Erer	1,492	70.58	622	29.42	-	-	-	-	-	-	-	-
Jijiga Zone	26,320	38.25	32,345	47.01	8,255	12.00	1,514	2.20	193	0.28	178	0.26
Jijiga	8,995	25.08	19,941	55.60	5,776	16.11	913	2.55	167	0.47	70	0.20
Teferi Ber	9,161	50.62	6,387	35.30	1,940	10.72	546	3.02	-	-	62	0.34
Kebri Beyah	8,164	54.99	6,017	40.53	539	3.63	55	0.37	26	0.18	46	0.31
Liben Zone	17,734	99.01	120	0.67	27	0.15	30	0.17	-	-	-	-
Filtu	4,582	98.39	65	1.40	-	-	10	0.21	-	-	-	-
Dolo Odo	5,130	98.05	55	1.05	27	0.52	20	0.38	-	-	-	-
Moyale	8,022	100.00	-	-	-	-	-	-	-	-	-	-

Table 8.32B:- 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	%
Somali Region	89,384	99.99	5	0.01	-	-	-	-	-	-	-	-
Shinele Zone	2,674	100.00	-	-	-	-	-	-	-	-	-	-
Shinele	560	100.00	-	-	-	-	-	-	-	-	-	-
Erer	2,114	100.00	-	-	-	-	-	-	-	-	-	-
Jijiga Zone	68,805	100.00	-	-	-	-	-	-	-	-	-	-
Jijiga	35,862	100.00	-	-	-	-	-	-	-	-	-	-
Teferi Ber	18,096	100.00	-	-	-	-	-	-	-	-	-	-
Kebri Beyah	14,847	100.00	-	-	-	-	-	-	-	-	-	-
Liben Zone	17,906	99.97	5	0.03	-	-	-	-	-	-	-	-
Filtu	4,657	100.00	-	-	-	-	-	-	-	-	-	-
Dolo Odo	5,227	99.90	5	0.10	-	-	-	-	-	-	-	-
Moyale	8,022	100.00	-	-	-	-	-	-	-	-	-	-

ANNEX TABLES PRESENTING ESTIMATES, STANDARD ERRORS AND COEFFICIENT OF VARIATION FOR SELECTED FARM IMPLEMENT VARIABLES

Annex Tables 8.1-8.4

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	74,636	2,646.93	3.55	102,532	4,487.82	4.38	1,324,660	7,402,330.75	5.59
'Gejeras'	13,335	1,573.49	11.80	15,885	1,915.24	12.06	224,903	2,968,834.72	13.20
Shovels	57,857	2,574.12	4.45	77,555	4,268.95	5.50	1,206,593	7,316,937.76	6.06
Used for Cultivation									
Hoes	40,062	2,535.19	6.33	48,675	3,253.99	6.69	882,962	6,858,473.98	7.77
'Mekeskeshas'	6,227	1,321.49	21.22	6,946	1,418.09	20.42	45,867	809,512.85	17.65
Pick Axes	17,962	1,877.15	10.45	22,955	2,612.39	11.38	340,671	3,325,800.16	9.76
Tractors	-	-	-	-	-	-	-	-	-
Parts for traditional Plough									
'Degers'	58,136	2,620.99	4.51	87,687	4,733.84	5.40	569,588	4,191,993.54	7.36
'Erfes' (Handle)	56,807	2,696.13	4.75	66,118	4,189.57	6.34	432,066	3,218,188.74	7.45
Plough-Beams.	59,313	2,605.90	4.39	61,947	2,667.61	4.31	1,508,907	11,970,065.66	7.93
Plough -Tips (Metal)	58,508	2,574.38	4.40	62,867	2,750.79	4.38	1,466,256	7,257,463.26	4.95
'Wegel' -Tips	57,198	2,626.70	4.59	70,981	4,173.66	5.88	546,422	3,555,653.19	6.51
Yokes	59,604	2,590.42	4.35	63,109	2,805.66	4.45	1,153,825	7,355,236.42	6.37
Used for Harvesting									
Sickles	59,095	3,183.88	5.39	81,139	5,181.36	6.39	1,092,145	8,484,450.28	7.77
Used for Threshing									
Hay-Forks (Metal)	680	191.75	28.21	731	204.82	28.02	8,890	284,001.13	31.95
Hay-Forks (Wood)	29,563	2,768.39	9.36	33,306	3,224.30	9.68	340,297	5,772,409.16	16.96
Threshing Sticks	41,576	3,268.11	7.86	89,151	10,151.14	11.39	386,633	4,916,285.34	12.72
Winnowers (Metal)	197	90.08	45.68	197	90.08	45.68	*	*	*
Winnowers (Wood)	16,756	2,263.53	13.51	18,393	2,619.67	14.24	218,041	3,797,930.19	17.42
Other Farm Equipment									
Carts (Hauling)	609	105.65	17.34	674	107.36	15.93	650,286	10,431,654.27	16.04
Sprayers (Hand Operated)	296	93.49	31.58	353	130.17	36.88	*	*	*
Sprayers (Power Operated)	-	-	-	-	-	-	-	-	-
Tying Tools	-	-	-	-	-	-	-	-	-
Wheelbarrows	1,532	400.61	26.15	1,687	431.87	25.61	363,920	9,577,175.90	26.32
Animals Used for Ploughing									
Asses	657	171.15	26.05	842	226.77	26.94	358,052	8,751,203.90	24.44
Camels	518	229.59	44.30	628	284.36	45.30	618,116	26,554,967.91	42.96
Horses	-	-	-	-	-	-	-	-	-
Mules	-	-	-	-	-	-	-	-	-
Oxen	52,276	2,523.34	4.83	92,340	5,008.02	5.42	61,276,704	340,781,057.44	5.56
AnimalsUsed for Threshing or Transportation									
Asses	37,495	2,554.52	6.81	45,928	3,266.99	7.11	12,547,418	84,248,638.08	6.71
Camels	11,365	1,081.19	9.51	16,091	1,542.97	9.59	17,232,801	179,027,202.89	10.39
Cattle	49,186	2,710.38	5.51	99,077	6,889.01	6.95	64,826,868	420,535,777.93	6.49
Horses	-	-	-	-	-	-	-	-	-
Mules	94	40.71	43.10	*	*	*	*	*	*
Storage Structure									
'Debignits'	425	149.12	35.12	425	149.12	35.12	19,158	635,531.70	33.17
'Gotteras'	6,264	779.65	12.45	6,739	825.84	12.25	969,582	11,970,738.52	12.35
'Gudguads'	43,300	3,730.69	8.62	56,116	5,504.64	9.81	5,518,748	83,172,241.03	15.07
Modern Storages	5	-	-	5	-	-	182	-	-

ANNEX TABLE 8.2:- Standard Errors and Coefficient of Variation For the Number of Holders Reporting, Quantity Reported and Total Value, for Private Holdings, Shinele Zone.

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	1,663	46.63	2.80	3,095	136.86	4.42	32,742	149,611.10	4.57
'Gejeras'	335	32.88	9.80	423	46.97	11.10	4,034	48,221.31	11.95
Shovels	2,354	26.75	1.14	4,016	112.57	2.80	36,256	124,829.42	3.44
Used for Cultivation									
Hoes	1,542	54.49	3.53	1,817	76.12	4.19	25,257	112,778.48	4.47
'Mekeskeshas'	71	0.59	0.84	85	1.44	1.70	109	148.16	1.36
Pick Axes	217	22.99	10.58	224	24.71	11.03	2,779	29,749.89	10.71
Tractors	-	-	-	-	-	-	-	-	-
Parts for traditional Plough									
'Degers'	934	53.94	5.77	1,379	86.83	6.30	5,170	34,643.69	6.70
'Erfes' (Handle)	955	53.66	5.62	976	55.44	5.68	3,107	21,800.30	7.02
Plough-Beams.	962	54.32	5.64	974	56.07	5.75	18,281	116,194.42	6.36
Plough -Tips (Metal)	1,034	56.62	5.48	1,081	61.95	5.73	15,782	95,569.65	6.06
'Wegel' -Tips	937	54.75	5.84	966	57.51	5.95	5,872	41,772.83	7.11
Yokes	973	54.32	5.58	986	56.07	5.68	12,841	84,425.46	6.57
Used for Harvesting									
Sickles	943	52.89	5.61	1,032	62.90	6.10	9,448	61,788.29	6.54
Used for Threshing									
Hay-Forks (Metal)	43	9.03	21.15	43	9.03	21.15	485	16,278.11	33.55
Hay-Forks (Wood)	649	47.17	7.27	719	58.28	8.11	3,600	31,183.29	8.66
Threshing Sticks	1,308	46.17	3.53	3,733	253.30	6.78	7,600	80,210.84	10.55
Winnowers (Metal)	55	15.12	27.32	55	15.12	27.32	797	27,289.87	34.24
Winnowers (Wood)	530	50.76	9.58	544	54.30	9.98	3,958	47,208.09	11.93
Other Farm Equipment									
Carts (Hauling)	-	-	-	-	-	-	-	-	-
Sprayers (Hand Operated)	13	-	-	13	-	-	2,123	-	-
Sprayers (Power Operated)	-	-	-	-	-	-	-	-	-
Tying Tools	-	-	-	-	-	-	-	-	-
Wheelbarrows	36	13.69	38.28	36	13.69	38.28	4,240	157,461.43	37.14
Animals Used for Ploughing									
Asses	-	-	-	-	-	-	-	-	-
Camels	-	-	-	-	-	-	-	-	-
Horses	-	-	-	-	-	-	-	-	-
Mules	-	-	-	-	-	-	-	-	-
Oxen	993	53.80	5.42	1,464	92.06	6.29	1,006,307	6,172,031.34	6.13
AnimalsUsed for Threshing or Transportation									
Asses	647	50.26	7.77	748	61.81	8.26	173,860	1,558,773.68	8.97
Camels	165	28.08	17.05	274	49.69	18.11	301,272	5,648,736.75	18.75
Cattle	1,015	52.90	5.21	1,514	91.39	6.04	1,060,264	6,276,411.99	5.92
Horses	-	-	-	-	-	-	-	-	-
Mules	24	9.45	39.80	24	9.45	39.80	24,693	690,571.14	27.97
Storage Structure									
'Dibignits'	52	19.22	36.75	52	19.22	36.75	1,435	53,573.13	37.34
'Gotteras'	36	15.85	44.29	36	15.85	44.29	775	35,252.36	45.46
'Gudguads'	639	37.86	5.93	639	37.86	5.93	27,126	185,537.73	6.84
Modern Storages	-	-	-	-	-	-	-	-	-

ANNEX TABLE 8.3:- Standard Errors and Coefficient of Variation For the Number of Holders Reporting, Quantity Reported and Total Value, for Private Holdings, Jijiga Zone.

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	58,309	2,465.64	4.23	75,105	3,399.60	4.53	898,591	4,613,995.03	5.13
'Gejeras'	7,849	1,503.34	19.15	9,068	1,828.47	20.16	130,604	2,796,471.67	21.41
Shovels	49,535	2,502.13	5.05	65,705	4,198.07	6.39	1,023,757	7,127,098.29	6.96
Used for Cultivation									
Hoes	35,216	2,489.34	7.07	41,329	3,150.20	7.62	769,210	6,686,636.41	8.69
'Mekeskeshas'	5,362	1,304.54	24.33	5,773	1,386.87	24.02	34,657	759,821.20	21.92
Pick Axes	12,451	1,820.19	14.62	15,251	2,522.13	16.54	207,104	3,012,654.20	14.55
Tractors	-	-	-	-	-	-	-	-	-
Parts for traditional Plough									
'Degers'	51,359	2,577.44	5.02	76,905	4,649.53	6.05	506,396	4,132,104.44	8.16
'Erfes' (Handle)	49,902	2,655.30	5.32	57,803	4,142.49	7.17	403,095	3,202,677.28	7.95
Plough-Beams.	52,132	2,562.72	4.92	54,022	2,610.67	4.83	1,395,185	11,935,269.00	8.55
Plough -Tips (Metal)	51,178	2,526.79	4.94	54,442	2,675.99	4.92	1,174,291	6,987,662.56	5.95
'Wegel' -Tips	50,122	2,582.77	5.15	62,927	4,130.81	6.56	467,369	3,502,203.60	7.49
Yokes	52,409	2,546.92	4.86	55,142	2,752.35	4.99	1,058,645	7,311,890.81	6.91
Used for Harvesting									
Sickles	54,236	3,140.45	5.79	75,045	5,141.21	6.85	1,035,214	8,456,240.55	8.17
Used for Threshing									
Hay-Forks (Metal)	597	190.50	31.90	648	203.65	31.41	7,761	281,574.57	36.28
Hay-Forks (Wood)	28,770	2,766.88	9.62	32,415	3,222.30	9.94	335,595	5,772,057.18	17.20
Threshing Sticks	36,469	3,233.19	8.87	78,189	10,067.52	12.88	349,374	4,907,581.86	14.05
Winnowers (Metal)	*	*	*	*	*	*	*	*	*
Winnowers (Wood)	16,133	2,262.34	14.02	17,725	2,618.26	14.77	213,322	3,797,316.80	17.80
Other Farm Equipment									
Carts (Hauling)	221	104.88	47.46	221	104.88	47.46	*	*	*
Sprayers (Hand Operated)	179	79.40	44.47	*	*	*	*	*	*
Sprayers (Power Operated)	-	-	-	-	-	-	-	-	-
Tying Tools	-	-	-	-	-	-	-	-	-
Wheelbarrows	1,205	389.90	32.35	1,352	421.96	31.20	297,555	9,202,519.56	30.93
Animals Used for Ploughing									
Asses	634	171.04	26.96	788	226.00	28.68	328,394	8,700,923.28	26.50
Camels	518	229.59	44.30	628	284.36	45.30	618,116	26,554,967.91	42.96
Horses	-	-	-	-	-	-	-	-	-
Mules	-	-	-	-	-	-	-	-	-
Oxen	46,462	2,485.90	5.35	80,936	4,929.13	6.09	54,168,330	335,922,106.59	6.20
AnimalsUsed for Threshing or Transportation									
Asses	30,123	2,512.76	8.34	36,327	3,187.20	8.77	8,893,951	78,906,929.56	8.87
Camels	8,113	1,024.93	12.63	10,172	1,379.07	13.56	12,255,092	169,145,205.83	13.80
Cattle	44,580	2,683.01	6.02	89,777	6,828.04	7.61	58,930,693	416,471,606.51	7.07
Horses	-	-	-	-	-	-	-	-	-
Mules	*	*	*	*	*	*	*	*	*
Storage Structure									
'Dibignits'	357	147.63	41.35	357	147.63	41.35	16,960	632,402.63	37.29
'Gotteras'	*	*	*	*	*	*	*	*	*
'Gudguads'	42,485	3,730.23	8.78	55,213	5,504.27	9.97	5,467,769	83,171,518.93	15.21
Modern Storages	-	-	-	-	-	-	-	-	-

ANNEX TABLE 8.4:- Standad Errors and Coefficient of Variation For the Number of Holders Reporting, Quantity Reported and Total Value, for Private Holdings, Liben Zone.

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	14,664	961.60	6.56	24,331	2,926.53	12.03	393,326	5,786,464.11	14.71
'Gejeras'	5,151	463.42	9.00	6,394	568.01	8.88	90,265	995,690.94	11.03
Shovels	5,967	603.90	10.12	7,834	766.49	9.78	146,579	1,651,201.34	11.26
Used for Cultivation									
Hoes	3,304	476.90	14.44	5,529	811.75	14.68	88,495	1,521,459.83	17.19
'Mekeskeshas'	794	210.95	26.57	1,088	295.92	27.20	11,101	279,253.95	25.16
Pick Axes	5,293	458.36	8.66	7,480	680.31	9.09	130,788	1,408,536.92	10.77
Tractors	-	-	-	-	-	-	-	-	-
Parts for traditional Plough									
'Degers'	5,843	472.77	8.09	9,403	885.19	9.41	58,022	705,211.00	12.15
'Erfes' (Handle)	5,950	464.36	7.80	7,339	623.87	8.50	25,864	314,836.14	12.17
Plough-Beams.	6,218	469.24	7.55	6,951	545.36	7.85	95,441	904,612.97	9.48
Plough -Tips (Metal)	6,297	489.46	7.77	7,344	634.11	8.63	276,183	1,958,114.24	7.09
'Wegel' -Tips	6,139	475.22	7.74	7,087	593.78	8.38	73,180	612,776.13	8.37
Yokes	6,222	469.58	7.55	6,981	541.47	7.76	82,339	792,860.63	9.63
Used for Harvesting									
Sickles	3,916	521.38	13.31	5,063	640.67	12.65	47,483	688,530.67	14.50
Used for Threshing									
Hay-Forks (Metal)	40	19.87	49.98	40	19.87	49.98	*	*	*
Hay-Forks (Wood)	*	*	*	*	*	*	*	*	*
Threshing Sticks	3,799	474.28	12.49	7,228	1,275.32	17.64	29,659	281,190.48	9.48
Winnowers (Metal)	*	*	*	*	*	*	*	*	*
Winnowers (Wood)	*	*	*	*	*	*	*	*	*
Other Farm Equipment									
Carts (Hauling)	388	12.69	3.27	453	22.94	5.06	460,119	1,422,409.04	3.09
Sprayers (Hand Operated)	104	49.36	47.42	104	49.36	47.42	*	*	*
Sprayers (Power Operated)	-	-	-	-	-	-	-	-	-
Tying Tools	-	-	-	-	-	-	-	-	-
Wheelbarrows	291	90.96	31.27	299	90.96	30.47	62,125	2,647,855.33	42.62
Animals Used for Ploughing									
Asses	23	6.12	27.02	54	18.74	34.99	29,658	936,751.68	31.59
Camels	-	-	-	-	-	-	-	-	-
Horses	-	-	-	-	-	-	-	-	-
Mules	-	-	-	-	-	-	-	-	-
Oxen	4,822	429.72	8.91	9,940	880.59	8.86	6,102,067	57,008,538.34	9.34
AnimalsUsed for Threshing or Transportation									
Asses	6,725	457.25	6.80	8,854	714.95	8.08	3,479,607	29,480,497.12	8.47
Camels	3,087	343.07	11.11	5,645	690.25	12.23	4,676,437	58,384,334.32	12.48
Cattle	3,590	380.54	10.60	7,786	909.90	11.69	4,835,911	57,985,758.09	11.99
Horses	-	-	-	-	-	-	-	-	-
Mules	*	*	*	*	*	*	*	*	*
Storage Structure									
'Dibignits'	*	*	*	*	*	*	763	33,126.82	43.44
'Gotteras'	5,200	537.23	10.33	5,676	602.30	10.61	924,772	11,748,731.02	12.70
'Gudguads'	177	44.05	24.91	264	51.19	19.42	.23,854	292,732.46	12.27
Modern Storages	5	*	*	5	-	-	182	-	-

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 hth stratum.

M_h is the measure of size of the hth stratum as obtained from the sampling frame.

m_{hi} is the measure of size of the ith sample EA in the hth stratum obtained from the sampling frame.

H_{hi} is the total number of agricultural households of the ith sample EA in the hth stratum.

h_{hi} is number of sample agricultural households successfully covered in the ith sample EA in the hth stratum.

a_{hi} is the sample total of values of area in the ith EA in the hth stratum under a specific crop.

$\hat{A}_h$ is estimate of total area under specific crop in the hth stratum.

2. Estimation of Total Production:

$$\hat{P}_h = \sum_{i=1}^{n_h} W_{hi} P_{hi}$$

in which, $P_{hi} = a_{hi} * \overline{Y}_{hi}$

Where, $\overline{Y}_{hi}$ is average yield per square meter of a specific crop in the ith EA in the hth 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 ith EA in the hth 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 ith EA in the hth stratum.

Y_{hi} is sampled total of production of a specific crop from defined area of land for crop cutting of crop in the ith EA in the hth stratum.

C_{hi} is number of crop cutting of a specific crop in the ith EA in the hth stratum.

$\overline{Y}_{hi}$ is average yield per square meter of a specific crop in the ith EA in the hth stratum.

P_{hi} is estimate of total production of a specific crop in the ith EA in the hth stratum.

$\hat{P}_h$ is estimate of total production quantity of a specific crop in the hth 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.)

$$\hat{y}_h=\sum_{i=1}^{n_h}\frac{M_hH_{hi}}{n_hh_{hi}}\hat{y}_{hi}$$

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.

$$Var(\hat{A}_h)=(1-f_h)\frac{n_h}{n_h-1}\sum_{i=1}^{nh}\left(\hat{A}_{hi}-\frac{\hat{A}h}{nh}\right)^2+f_h\sum_{i=1}^{nh}(1-f_{hi})\left(\frac{h_{hi}}{h_{hi}-1}\right)\sum_{j=1}^{h_{hi}}\left(\hat{A}_{hij}-\frac{\hat{A}hi}{h_{hi}}\right)^2$$

$$Var(\hat{P}_h)=(1-f_h)\frac{n_h}{n_h-1}\sum_{i=1}^{nh}\left(\hat{p}hi-\frac{\hat{p}h}{nh}\right)^2+f_h\sum_{i=1}^{n_h}(1-f_{hi})\left(\frac{h_{hi}}{h_{hi}-1}\right)\sum_{j=1}^{h_{hi}}\left(\hat{P}_{hij}-\frac{\hat{P}_{hi}}{h_{hi}}\right)^2$$

$$Var(\hat{Y}_h)=\frac{1}{\hat{A}_h^2}[Var(\hat{P}_h)+\hat{Y}_h^2Var(\hat{A}_h)-2\hat{Y}_hCov(\hat{P}_h,\hat{A}_h)]$$

Where, $Cov(\hat{P}_h,\hat{A}_h)=(1-f_h)\frac{n_h}{n_h-1}\sum_{i=1}^{n_h}(\hat{A}_{hi}-\frac{\hat{A}_h}{n_h})(\hat{P}_{hi}-\frac{\hat{P}_h}{n_h})$

$$+f_h\sum_{i=1}^{n_h}(1-f_{hi})\left(\frac{h_{hi}}{h_{hi}-1}\right)\sum_{j=1}^{h_{hi}}\left(\hat{A}_{hij}-\frac{\hat{A}_{hi}}{h_{hi}}\right)\left(\hat{P}_{hij}-\frac{\hat{P}hi}{h_{hi}}\right).$$

$$Var(\hat{y}_h)=(1-f_h)\frac{n_h}{n_h-1}\sum_{i=1}^{nh}\left(\hat{y}hi-\frac{\hat{y}h}{nh}\right)^2+f_h\sum_{i=1}^{n_h}(1-f_{hi})\left(\frac{h_{hi}}{h_{hi}-1}\right)\sum_{j=1}^{h_{hi}}\left(\hat{y}_{hij}-\frac{\hat{y}hi}{h_{hi}}\right)^2$$

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 ith 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.

$$Var(\hat{Y})=\sum_h^L Var(\hat{Y}_h),Var(\hat{P})=\sum_h^L Var(\hat{P}_h)\,and\,Var(\hat{A})=\sum_h^L Var(\hat{A}_h)$$

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
SHINILE	SHINILE	8	8	240	236
	ERER	14	11	420	330
	ZONE TOTAL	**22**	**19**	**660**	**566**
JIJIGA	JIJIGA	25	25	750	742
	TEFERI BER	25	25	750	741
	KEBRI BEYAH	25	25	750	740
	ZONE TOTAL	**75**	**75**	**2250**	**2223**
LIBEN	FILTU	25	24	750	675
	DOLO ODO	25	24	750	678
	MOYALE	23	23	690	647
	ZONE TOTAL	**73**	**71**	**2190**	**2000**
	REGION TOTAL	**170**	**165**	**5100**	**4789**

NUMBER OF EAS AND AGRICULTURAL HOUSEHOLDS SAMPLED AND COVERED BY WEREDA (**URBAN**)

ZONE	WEREDA	EAs		HOUSEHOLDS	
		SAMPLED	COVERED	SAMPLED	COVERED
SHINILE	SHINILE	15	15	450	448
	ZONE TOTAL	**15**	**15**	**450**	**448**
JIJIGA	JIJIGA	25	24	535	534
	TEFERI BER	25	25	595	595
	KEBRI BEYAH	25	24	632	630
	ZONE TOTAL	**75**	**73**	**1762**	**1759**
LIBEN	FILTU	2	2	40	40
	DOLO ODO	25	25	684	672
	ZONE TOTAL	**27**	**27**	**724**	**712**
	REGION TOTAL	**117**	**115**	**2936**	**2919**

APPENDIX III

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	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	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	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	OTHERS =5 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 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	6	Use of Agricultural Inputs					12	13	14	15	16	17
						7	8	9	10	11		If column 12 is blank			If column 15 is blank	
			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	Use of fertilizer Did you use Fertilizer Yes → 1 No → 2	If yes in column 7 Type of fertilizer Natural→ 1 Chemical→ 2 Both → 3	Use of Irrigation 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		Production in kilograms	Production In Local units	
Parcel Number	Field Number	Name of crops										Name of Local Units	Area		Name of Local units	Quantity
		CODE										code			Code	

Continued

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 Region	2 Zone	3 Wereda	4	5 Farmers' Association	6 Enumeration Area	7 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	If Column 3, Code 1: 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	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-94/3A

RURAL

Ethiopian Agricultural Sample Enumeration

List of Fields Under Temporary Crops (Including Vegetables and Root Crops) and Agricultural Practices (Meher 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

		Question	3	4	5	6
			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)
0	1	Type of Holding Private → 1 Others → 3 Rented/ contract → 2				
0	2	Crop Area in Local unit	Name / Area	Name / Code / Area	Name / Code / Area	Name / Code / Area
0	3	Has the field been included in the extention package program Yes → 1 No → 2				
0	4	Total number of trees in the field. (Excluding Coffe,Chat,Pineapple,Sugar-cane)	Quantity	Quantity	Quantity	Quantity
0	5	Number of trees of fruit bearing age (Excluding Coffe,Chat,Pineapple,Sugar-cane)	Quantity	Quantity	Quantity	Quantity
0	6	Was the field Irrigated Yes → 1 No → 2				
0	7	Variety of seeds used Improve → 1 Indiginous → 2				
0	8	Was the crop Damaged Yes → 1 No → 2				
0	9	If yes, what was the major cause of damage	Reason (code)	Reason (code)	Reason (code)	Reason (code)
1	0	Persontage of Damage				
1	1	Any control /proventina measure taken for crop Damage Yes → 1 No → 2				
1	2	Chemical → 1 Both → 3 Non chemical → 2				
1	3	If chemica Incectide → 1 1&3 → 5 Herbicid → 2 2&3 → 6 Fungicids → 3 All → 7 1&2 → 4				
1	4	Was the field fertilized Yes → 1 No → 2				
1	5	If fertilized what type? Natural → 1 Both → 3 Chemical → 2				
1	6	Reason for not using chemical fertilizer	Reason (Code)	Reason (Code)	Reason (Code)	Reason (Code)
1	7	If chemical (comercial) fertilizer used 17.1 Type Urea → 1 Both → 3 Dap → 2				
		17.2 Quantity in Kg.	Kg. Gram	Kg. am	Kg. Gram	Kg. Gram
1	8	If natural fertilizer used mainly what type? Manure → 1 Both → 3 Compost → 2 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
01	Type of Holding Private → 1 Others → 3 Rented/contract → 2		
02	Total mixed corp area in local unit	Name of Local Unit / code / Area	Name of Local Unit / code / Area
03	Was the field been included in the extention pakage program Yes → 1 No → 2		
04	Area in percentag share for Each crop		
05	Number of trees for permanent crop (Excluding Coffee, Chat, Pinapple, Sugar-cane)	Quantity	Quantity
06	Number of trees of fruit of permanent crop (Excluding Coffee, Chat, Pinapple, Sugar-cane)	Quantity	Quantity
07	was the field Irrigated yes → 1 No → 2		
08	Variety of seeds used Improved → 1 Indiginous → 2		
09	If Indignous seed was used what was the quantity (for Cereals, Pulses & Oilseeds only)	Kg. Gram	Kg. Gram
10	If Improved seed was used, what was the quantity (for Cereals, Pulses & Oilseeds only)	Kg. Gram	Kg. Gram
11	If Improved seed was used what was the cost/price (for Cereals, Pulses & Oilseeds only)	Birr sent	Birr sent
12	was the crop Damaged Yes → 1 No → 2		
13	If, yes, what was the major cause of Damage	Reason Code	Reason Code
14	percentage of Damage		
15	Any control/ preventive measure Taken for crop damage → 1 → 2		
16	If yes, what type of measure Chemical → 1 Both → 3 Non-chemical → 2		
17	If chemical Insecticide Insecticide → 1 1&3 → 5 Herbicide → 2 2&3 → 6 Fungicide → 3 All → 7 1&2 → 4		
18	Was the field fertilized yes → 1 No → 2		
19	If fertilized what type? Natural → 1 Both → 3 Chemical → 2		
20	One main Reson for not using Chemical fertilizer	Reason Code	Reason Code
21	If chemical fertilizer used 21.1 Type Urea → 1 Both → 3 Dap → 2		
	21.2 Quantity in kg.	Kg. Gram	Kg. Gram
22	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
Sr. No.	Name of Holder	Household ID Number	Holder ID Number	Number of Fields	Crop Productivity Compared to Last Year: 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 Date / Month	Area in Sq.m.	Area in Local Units Name of Local Area Unit / code	Area	Reason if area Measurment not conducted / Code

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?				Type of Crop Stand Pure =1 Mixed =2
												Yes =1 No =2	If yes, Reason for Damage		Percentage Damaged	
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				
				Planting Pattern	Selected Random Rows		Random Distance in Meter for the Selected Rows from Starting Point				From starting point to the center of the field	
Ser. No.	Parcel No.	Field No.	Crop Name / Code	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	Shortest Side Random Distance in Meter	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							
				Planting Pattern	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	Row =1 Broad cast=2	No. of Rows	Total distance in Meter		No. of Fruits		No. of Fruits		No. of Fruits		No. of Fruits	
							Code	Quantity	Weight in Kg.	Quantity	Weight in Kg.	Quantity	Weight in Kg.	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		
Parcel	Field		Code	Date	Number	Weight Kg.	Weight Gm.	Date	Number	Weight Kg.	Weight Gm.	Date	Number	Weight Kg.	Weight Gm.	Date	Number	Weight Kg.	Weight Gm.	Date	Number	Weight Kg.	Weight Gm.	Number	Weight Kg.	Weight 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

CHICKENS

9. CHICKENS Total on February 8, 2002

None

a. Laying hens (over 20 weeks old)		216
b. Non-laying hens (over 20 weeks old)		217
c. Cocks - males (over 20 weeks old)		218
d. Cockerels (8 weeks to 20 weeks old)		219
e. Pullets (8 weeks to 20 weeks old)		220
f. Chicks (below 8 weeks old)		221
		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

10. HONEY BEE COLONIES on February 8, 2002

None

a. Traditinal beehives		223
b. Intermediate beehives		224
c. Modern beehives		225
		226

MILK, EGG AND HONEY PRODUCTION FOR THE LAST 12 MONTHS (Feb. 9, 2001-Feb. 8, 2002)

11. Dairy cows & camels

None

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

13. Average number of clutches (in days)

		235
		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			

Number of Sheep in Age & Purpose on February 8/2002

	None	Total	Male	Female
2. SHEEP of all ages on February 8, 2002				
a. Sheep < 6 months		47	48	49
b. Sheep 6 months & < 1 years old		50	51	52
c. Sheep 1 year to < 2 years old		53	54	55
d. Sheep 2 years and older		56	57	58
(1) Sheep for meat (slaughter purpose)		59	60	61
(2) Sheep for wool only		62	63	64
(3) Sheep for breeding purpose only		65	66	67
(4) Sheep for other purposes		68	69	70
e. Grand Total		71	72	73
1. Total Local breed		74	75	76
2. Total Exotic		77	78	79
3. Total Hybrid		80	81	82
		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				
a. Goats < 6 months		86	87	88
b. Goats 6 months & < 1 year old		89	90	91
c. Goats 1 year to < 2 years old		92	93	94
d. Goats 2 years and older		95	96	97
(1) Goats for meat (slaughter purpose)		98	99	100
(2) Dairy Goats		101	102	103
(3) Goats for breeding purpose only		104		105
(4) Goats for other purposes		106	107	108
e. Grand Total		109	110	111
1. Total Local breed		112	113	114
2. Total Exotic		115	116	117
3. Total Hybrid		118	119	120
		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

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
				Proportions of Total Product For					
Sr. No.	Name of Crop	Code	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
			Proportions in Percentage				
SR. No.	Name of Livestock & Livestock Products	Code	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)		Total Value		Average Age of Service (years)	Do you rent Farm Implements? Yes =1 No =2	If Yes,enter Rate /day	
				Birr	Ct.	Birr	Ct.			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 Area	Household Number	Holder 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

Sr. No.	Questions	3 Parcel No / Field No. / crop name (code)	4 Parcel No. / filed NO. / crop name (code)	5 Parcel No. / filed NO. / crop name (code)	6 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 / Corp Name / Crop Name (code)	4 Parcel No. / Field No. — Corp Name / Corp Name / Corp Name (code)
01	Type of Holding Private → 1 Others → 3 Rented/contract → 2		
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
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
09	If Improved seed was used, (for Cereals, Pulses & Oilseeds) what was the quantity	Kg. / Gram	Kg. / Gram
10	If Improved seed was used (for Cereals, Pulses & Oilseeds) what was the cost/price	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
13	percentage of Damage		
14	Any control/ preventive measure Taken for crop damage → 1 → 2		
15	If yes, what type of measure Chemical → 1 Both → 3 Non-chemical → 2		
16	If chemical in 16, Insecticid → 1 1&3 → 5 Herbicide → 2 2&3 → 6 Fungicide → 3 All → 7 1&2 → 4		
17	Was the field fertilized yes → 1 No → 2		
18	If fertilized what type? Natural → 1 Both → 3 Chemical → 2		
19	One main Reson for not using Chemical fertilizer	Reason / Code	Reason / Code
20	If chemical fertilizer used 20.1 Type Urea → 1 Both → 3 Dap → 2		
	20.2 Quantity in Kilo gram	Kg. / Gram	Kg. / Gram
21	If natural fertilizer used mainly what type ? Manure → 1 Both → 3 Compost → 2 Others → 4 / If others specify/ →		

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
			Type of Tenure Own → 1 Rented → 2 Others → 3	Location of field in Urban Boundary Within → 1 Outside → 2	Use of Agricultural Inputs Type of seeds used Improved seed → 1 Local seed → 2	Use of fertilizer Did you use Fertilizer Yes → 1 No → 2	If yes in column 7 Type of fertilizer Natural → 1 Chemical → 2 Both → 3	Use of Irrigation 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	Number of Trees Total trees	Fruit bearing	Field Area In square Meters	If column 14 is blank Area in local units Name of Local Units	Area	Production in kilograms	If column 17 is blank Production In Local units Name of Local units	Quantity
Parcel Number	Field Number	Name of crops	CODE											code			Code	