Federal Democratic Republic Of Ethiopia
CENTRAL AGRICULTURAL CENSUS COMMISSION

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

Results for BENISHANGUL-GUMUZ REGION



STATISTICAL REPORT ON

FARM MANAGEMENT PRACTICES, LIVESTOCK AND FARM IMPLEMENTS

PART II

Addis Ababa
May, 2003

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STATISTICAL REPORT ON

FARM MANAGEMENT PRACTICES, LIVESTOCK AND FARM IMPLEMENTS

PART II

Addis Ababa
May, 2003

PREPARED AND PRINTED BY
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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 Benishangul-Gumuz Region is the third series of this census reports. 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 demographic and economic characteristics of the agricultural population; 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 Benishangul-Gumuz Regional State. It comprises of 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 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.

As given above, the Agricultural Census report for Benishangul-Gumuz Regional State constitutes eight Chapters presented on over nine hundred pages. Hence, it is neither possible nor comfortable to the reader to present it as a single report. Accordingly, the report is presented in Two Parts with the Introductory Chapter (i.e. Chapter I) and The Census Methodology and Operations (i.e. Chapter II) as common inputs to each Part. Thus, Part I constitutes the first two common Chapters and Chapters III, IV and V. Part II consists of the first two common Chapters and Chapters VI,VII and VIII.

Also, each Part of the report encompasses Appendix I that shows the Estimation Procedures of Totals, Ratios and Sampling Errors; Appendix II gives the Number of EA's and Agricultural Households Sampled and Covered in the region by wereda; and Appendix III shows the Agricultural Sample Enumeration Questionnaires. Moreover, tables that show the Standard Errors (S.E.) and Coefficients of Variations (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 quantitive 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 Benshangul-Gumuz 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 woreda 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.

Benshangul-Gumuz is a regional state with an estimated population of 565 thousand in July 2002 and an area of 49,289.46 sq. kms. For administrative purposes, the Region is divided into three zones and 20 weredas. Agriculture is the dominant sector in the region and biggest employer of the economically active population. The sector in the Region is further characterized by extremely small holdings, mostly private peasant holdings, dispersion of cropland holdings, traditional farming and low level of literacy among the holders.

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

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

2. CENSUS METHODOLOGY

2.1 Scope and Coverage

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

Benishangul-Gumuz Regional State consists of three zones; 20 weredas and 13 towns. The rural parts of region have a total of 735 EAs while the urban parts have a total of 45 EAs.

In the three zones of the region, all the 20 weredas were covered in the census. In these weredas, 436 rural EAs were sampled and all urban EAs numbering 45 were covered but the number of EAs which were completed and found to be acceptable for tabulation amounted to 426 in rural areas and all the E.As in urban areas. The remaining 10 EAs (rural) were not fully or partially covered due to various reasons. With respect to ultimate sampling units (agricultural households), it was planned to cover 13,080 households in rural areas and 1,326 in urban areas but about 12,720 rural and 1,322 urban agricultural households were actually covered. Based on the results of the census, for the rural parts of the region, the coverage rate of sampled EAs was 97.7 percent and the response rate of sampled agricultural households was 97.2 percent. The response rate in the urban domain was about 100 percent. The coverage of sampled EAs and agricultural households by wereda are given in Appendix II.

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

ZONES	NUMBER OF WEREDAS AND TOWNS BY ZONE				NUMBER OF EAs COVERED IN THE CENSUS	
	TOTAL		COVERED IN THE CENSUS			
	Weredas	Towns	Weredas	Towns	RURAL	URBAN
Metekel	7	9	7	9	174	24
Asosa	8	4	8	4	165	21
Kemashi	5	-	5	-	87	-
TOTAL	20	13	20	13	426	45

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

2.3 Sample Design

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

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

2.4 Sample Selection of Primary Sampling Units

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

2.5 Listing of Households and Selection of Agricultural Households

In each sampled enumeration area of the region, a complete and fresh listing of households was carried out by canvassing the households in the EA. After a complete listing of the households and screening of the agricultural households during the listing operation in the selected EA, the agricultural households were serially numbered. From this list, a total of 30

agricultural households were selected systematically using a random start from the pre-assigned column table of random numbers. The sampling interval for each EA was determined by dividing the total number of agricultural households by 30. For crop cutting exercise purposes (rural domain) a total of 20 agricultural households were randomly selected from the 30 sampled agricultural households. The systematic random sampling technique was employed in this case, because its application is simple and flexible, and it can easily yield a proportionate sample.

In the urban parts of the region all the 45 E.A's in the thirteen 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 Asosa and another temporary Branch Census Office in Pawe. These two offices

were 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 Benishangul-Gumuz Region has share of 461enumerators, where 35 of them were held as reserves. For undertaking the census in the urban parts of the region 47 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 Benishangul-Gumuz Region, a total of 95 supervisors and 426 enumerators were involved and various field equipment were given to these field staff. The equipment used include, 8 field vehicles, 531 programmable calculators,531 field compasses,440 measuring tapes, 440 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 were held in Asosa and Pawe Towns. Extensive training was given to the field staff. The

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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).

* 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

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

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

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

- Form 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.

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 Benishangul-Gumuz region, the editing, coding and verification of the filled-in forms in general took about 11.5 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 8.5 working days, while that of the filled-in forms on farm implements, demographic characteristics, Belg season and the urban forms took around 3 working days.

4.2 Data Entry, Cleaning and Tabulation

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

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

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

For Benishangul-Gumuz 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 10 working days, while that of the filled-in forms on farm implements, demographic characteristics, Belg season and the urban forms took about 6.5 working days.

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

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

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

5. MEASURES OF PRECISION

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

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

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

CHAPTER VI

FARM MANAGEMENT PRACTICES

1. INTRODUCTION

Agriculture and allied activities have been described as the main sources of much of the raw materials, investment capital, foreign exchange and labor needed for the economic growth. In this regard, improving the performance of the agriculture sector is of critical importance for fast development of the country's economy.

However, agriculture in Ethiopia is characterized by its low productivity. The reason for this is the use of limited modern agricultural techniques and traditional practices as well as the declining soil fertility due to continuous cropping. Among traditional practices used to increase the crop productivity, the most widely used practice has been maintaining soil fertility through long fallow periods and use of dung and crop residue. These gradually become impossible due to the prevailing rapid and uncontrolled population growth, which led to reduction of the fallow lands and fuel wood deficit in the country. The other practice to increase crop production was based on expanding cultivable cropland. However, this scheme has been in practice for a long time and as a result most of the highlands suitable for cropping has already been exhausted.

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 Benishangul-Gumuz 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. With the exception of urban areas in Kemashi Zone, data are presented for all zones and weredas of Benishangul-Gumuz Region in Statistical Tables 6.1 – 6.65. Also, Estimates, Standard Errors (S.E.) and Coefficients of Variation (C.V.) are given in Annex Tables 6.1 and 6.2 for some relevant variables.

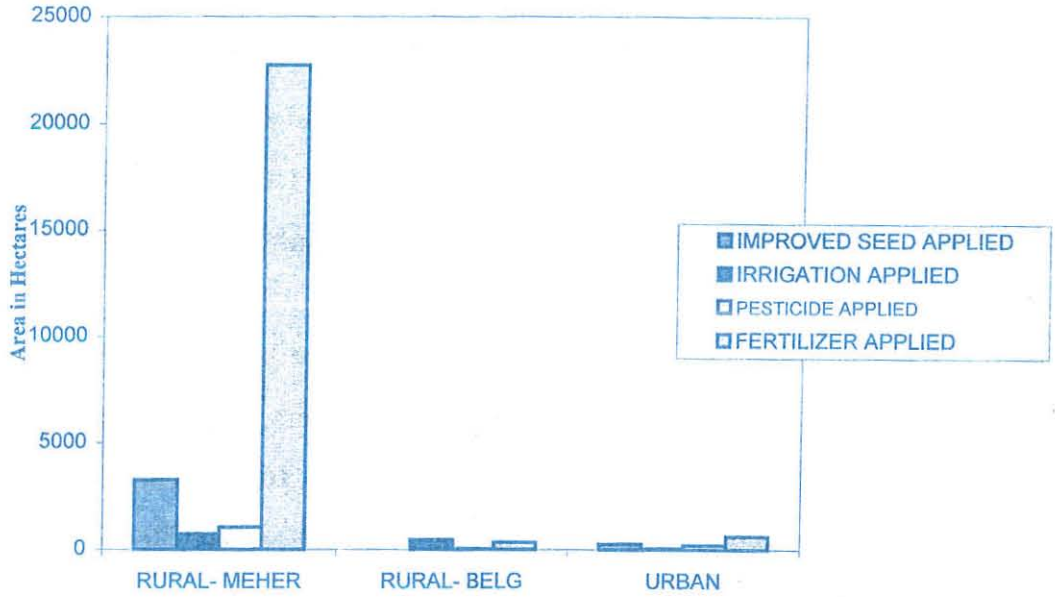
2. CROPLAND AREA UNDER AGRICULTURAL INPUTS AND FARM MANAGEMENT PRACTICES

This section deals with the agricultural inputs applied and the irrigated cropland area for both rural and urban areas of Benishangul-Gumuz 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 Benishangul-Gumuz Region are briefly discussed.

The census data show that Benishangul Gumuz Region predominantly produces grain crops and the major crops either in terms of the magnitude of area and volume of production includes sorghum, maize and finger millet, that accounted for about 64% of the area cultivated under all crops (Summary Table VI.2). On the other hand, vegetables, root crops and permanent crops are not widely grown as grains in the region in terms of both area coverage and production obtained. As a result, the agricultural inputs were applied to a great extent on the area under grain crops in order to increase the volume of production. Among different types of agricultural inputs that were applied, it is found that fertilizers application had relatively high coverage of area under crops. Moreover, the census data indicate that vast majority of agricultural holders have used agricultural inputs on small size of holdings.

In general, the holders in the region as a whole have practiced modern agricultural techniques and technologies but in a much smaller extent.

Fig VI.1 Area under Improved Farm Management Practices in Rural and Urban Areas, for Private Holdings



2.1 Fertilized Cropland Areas

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 Benishangul-Gumuz Region, fertilizers were applied on only 24 thousand hectares (16% of the total cultivated cropland area). Of this total area fertilized cropland, the share of rural and urban areas was found to be 97% and 3%, respectively. Moreover, the proportion of total fertilized cropland areas in rural areas for Meher season was 22,730 hectares (96%) as compared to only 331 hectares (1%) for Belg season. Regarding private holdings in urban areas, data are collected and presented only for Meher season. For details, refer to Summary Table VI.1 and Fig VI.1.

Furthermore, out of the total fertilized cropland areas, 78% were under cereals, 7% under pulses, 8% under oil seeds, 4% under vegetables and root crops, and 3% under permanent crops. Most of the fertilized cropland areas in the region were allotted to cereals in both rural and urban areas (See Summary Table VI.1)

With regard to a specific crop, maize is the most important fertilized crop that comprised an area of 37% of the total cropland area under fertilizers. The second important fertilized crop is sorghum covering 16% of the total cropland area under fertilizers. Teff ranks third taking up 14% of the total cropland area under fertilizers. For details, refer to Summary Table VI.2

The result of the census data indicate that Metekel Zone has relatively the highest share from the total cropland areas with application of fertilizers (50%). It is also seen that the percent of cropland areas under fertilizers was 34 and 16 percent for Asosa Zone and Kemashi Zone, respectively. Moreover, the application of fertilizers in Meher season constituted relatively higher proportion for all the zones as compared to Belg season. (For details, refer to Summary Table VI.3).

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 1.3 thousand 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 85% and 15%, 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 82 percent as compared to only 2 percent for the Belg season.

Furthermore, most of the pesticide applied land areas in the region were under cereal crops (about 93%), whereas only 7% of the fields under pulses, oilseeds, vegetables, root crops,

and permanent crops were treated with pesticides. Out of all cropland areas on which pesticides are applied, finger millet accounts for about 648 hectares followed by Teff and maize, accounting for about 217 and 173 hectares, respectively. For Details, see Summary Tables VI.1 and VI.2.

As it is presented in Summary Table VI.3, the total cropland area with application of pesticides was the highest in Metekel Zone (80%) followed by Asosa Zone (19%). The percent of cropland area under pesticides for Kemashi Zone is negligible.

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 147 thousand hectares. Of this total, only 3.6 thousand hectares (2.4%) was sown with improved variety of seeds. The share of rural and urban areas was found to be 93 percent and 7 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 also negligible (For details, refer to 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 87%, 6% and 3 % of the total area under improved seeds was reported to be under cereals, pulses and oil seeds, respectively. While the remaining three percent of the land area on which improved seeds are applied was covered by coffee. In both the rural and urban areas of private holdings, land areas under cereals constituted the highest proportion of improved seeds as compared to other crops.

As can be seen in Summary Table VI.3, the total cropland area under improved seeds shows variation among the zones. Thus, Metekel Zone (48%) constituted the highest share from the total cropland area under improved seeds. It is also observed that the percent of cropland

area under improved seeds in Asosa Zone and Kemashi Zone were 29 and 23 percent, respectively.

2.4 Cropland Areas Under Irrigation

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 1.2 thousand hectares and this accounted for about one percent of the total cropland areas. Of the total irrigated cropland areas, the share of the rural and urban areas was found to be 96% and 4%, respectively. Thus, there is large difference in the size of the total irrigated cropland area between rural and urban area. Moreover, of the total irrigated cropland areas in rural areas, the Meher season constituted 59 percent compared to 37 percent for Belg season.

As indicated in Summary Table VI.1, out of the total irrigated cropland areas in the region 32% were under cereals, 5.7% under pulses, 3.0% under vegetables, 6.8% under root crops, 9.7% under fruits, 39.9% under stimulant and 2.2% under other permanent crops. In other words, the proportions under irrigation for cereals and stimulant crops were the highest accountings for about 32% and 40% of the total irrigated cropland in rural areas, respectively. On the other hand, in urban areas, the total irrigated area under permanent crops (28 hectares) was relatively higher as compared to grains. With regard to specific crops, coffee with 445 hectares and maize at 357 hectares reported the largest hectares of irrigated cropland areas (For details, refer to Summary Tables VI.1 and VI.2).

The census data in Summary Table VI.3 indicate that irrigated cropland area was relatively highest in Metekel Zone (56%). The irrigated cropland area in Asosa Zone and Kemashi Zone were 38 and 6 percent in the region, respectively.

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..	147368	107884	6968	26861	394	1587	1171	1171	1256	74
Rural	141717	104321	6789	25244	385	1485	1152	1058	1212	69
Meher.....	140812	103942	6684	25244	379	1448	775	1058	1212	69
Belg.....	905	379	105	-	*	37	377	-	-	-
Urban (Meher)....	5651	3563	179	1617	*	102	19	113	44	5
Improved Seeds										
Rural and Urban..	3554	3082	197	116	-	8	*	8	108	-
Percent..	100.00	86.72	5.54	3.26	-	0.23	*	0.23	3.04	-
Rural	3302	2860	185	116	-	4	*	7	98	-
Percent..	92.91	86.61	5.60	3.51	-	0.12	*	0.21	2.97	-
Meher.....	3265	2856	185	116	*	1	*	7	98	*
Percent..	91.87	87.47	5.67	3.55	*	0.03	*	0.21	3.00	*
Belg.....	*	*	*	-	-	*	-	-	-	-
Percent..	*	*	*	-	-	-	-	-	-	-
Urban (Meher)....	253	223	12	-	-	*	*	*	11	-
Percent..	7.12	88.14	4.74	-	-	*	*	*	4.35	-
Irrigation										
Rural and Urban..	1226	392	70	3	*	37	83	119	489	27
Percent..	100.00	31.97	5.71	0.24	*	3.02	6.77	9.71	39.89	2.20
Rural	1183	381	70	3	*	36	83	111	468	26
Percent..	96.49	32.21	5.92	0.25	*	3.04	7.02	9.38	39.56	2.20
Meher.....	726	96	*	3	*	9	9	111	468	26
Percent..	59.22	13.22	*	0.41	*	1.24	1.24	15.29	64.46	3.58
Belg.....	457	285	67	*	*	27	74	-	-	-
Percent..	37.28	62.36	14.66	*	*	5.91	16.19	-	-	-
Urban (Meher)....	43	11	-	-	-	1	-	8	21	1
Percent..	3.51	25.58	-	-	-	2.33	-	18.60	48.84	2.33
Fertilizer										
Rural and Urban..	23687	18456	1655	1909	37	539	429	304	326	30
Percent..	100.00	77.92	6.99	8.06	0.16	2.28	1.81	1.28	1.38	0.13
Rural	23061	17971	1570	1905	37	532	413	295	307	30
Percent..	97.36	77.93	6.81	8.26	0.16	2.31	1.79	1.28	1.33	0.13
Meher.....	22730	17851	1549	1905	37	515	241	295	307	30
Percent..	95.96	78.53	6.81	8.38	0.16	2.27	1.06	1.30	1.35	0.13
Belg.....	331	120	21	*	*	17	172	-	-	-
Percent..	1.40	36.25	6.34	*	*	5.14	51.96	-	-	-
Urban (Meher)....	626	485	*	*		7	16	9	19	-
Percent..	2.64	77.48	*	*		1.12	2.56	1.44	3.04	-
Pesticides										
Rural and Urban..	1269	1184	10	61	-	6	*	2	*	-
Percent..	100.00	93.30	0.79	4.81	-	0.47	*	0.16	*	-
Rural	1074	1001	10	50	-	6	*	1	*	-
Percent..	84.63	93.20	0.93	4.66	-	0.56	*	0.09	*	-
Meher.....	1044	974	*	50	-	5	*	1	*	-
Percent..	82.27	93.30	*	4.79	-	0.48	*	0.10	*	-
Belg.....	30	27	*	-	-	2	*	-	-	-
Percent..	2.36	90.00	*	-	-	6.67	*	-	-	-
Urban (Meher)....	195	183	-	11	-	-	-	*	-	-
Percent..	15.37	93.85	-	5.64	-	-	-	*	-	-

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	147367	3554	2.41	1225	0.83	23687	16.07	1269	0.86
Grain Crops	142109	3397	2.39	470	0.33	22059	15.52	1256	0.88
Cereals	107884	3082	2.86	391	0.36	18456	17.11	1184	1.1
Teff	10994	*	*	*	*	3325	30.24	217	1.97
Barley	1086	*	*	-	-	361	33.24	-	-
Wheat	898	*	*	-	-	419	46.66	*	*
Maize	21531	2737	12.71	357	1.66	8709	40.45	173	0.8
Sorghum	53842	139	0.26	*	*	3799	7.06	135	0.25
Finger millet	18361	156	0.85	*	*	1761	9.59	648	3.53
Oats ('Aja')	28	-	-	-	-	9	32.14	-	-
Rice	1145	23	2.01	*	*	73	6.38	*	*
Pulses	6969	197	2.83	70	1	1656	23.76	*	*
Horse beans	586	*	*	*	*	241	41.13	*	*
Field peas	736	*	*	-	-	262	35.6	-	-
Haricot beans	3955	43	1.09	67	1.69	370	9.36	1	0.03
Chick peas	377	*	*	*	*	49	13	*	*
Lentils	42	-	-	*	*	17	40.48	-	-
Vetch	20	-	-	-	-	2	10	-	-
Soya	1212	149	12.29	*	*	704	58.09	*	*
Fenugreek	*	-	-	*	*	*	*	-	-
Gibto	36	-	-	-	-	*	*	-	-
Oil Seeds	26861	116	0.43	4	0.01	1910	7.11	61	0.23
Neug	13886	*	*	*	*	852	6.14	44	0.32
Linseed	201	-	-	*	*	23	11.44	*	*
Ground nuts	2724	*	*	*	*	44	1.62	*	*
Sufflower	95	*	*	-	-	*	*	-	-
Sesame	9853	77	0.78	*	*	924	9.38	*	*
Rapeseed	101	*	*	*	*	62	61.39	*	*
Other Grains	395	*	*	*	*	37	9.37	-	-
Vegetables	1587	8	0.5	37	2.33	539	33.96	7	0.44
Lettuce	*	-	-	*	*	*	*	*	*
Head cabbage	2	*	*	*	*	1	50	-	-
Kale	*	*	*	10	*	12	*	*	*
Tomatoes	24	2	8.33	12	50	8	33.33	*	*
Green peppers	27	*	*	3	11.11	14	51.85	-	-
Red peppers	921	*	*	10	1.09	336	36.48	4	0.43
Swiss chard	*	*	*	*	*	*	*	-	-
Others	565	*	*	*	*	166	29.38	*	*
Root Crops	1171	*	*	83	7.09	430	36.72	*	*
Beet root	*	*	*	*	*	*	*	-	-
Carrot	2	*	*	*	*	1	50	-	-
Onions	33	1	3.03	15	45.45	17	51.52	*	*
Potatoes	479	*	*	57	11.9	224	46.76	-	-
Garlic	24	*	*	4	16.67	14	58.33	-	-
Taro	9	-	-	*	*	5	55.56	-	-
Sweet potatoes	249	-	-	*	*	90	36.14	-	-
Others	374	*	*	*	*	79	21.12	*	*
Permanent Crops	2501	117	4.68	636	25.43	660	26.39	5	0.2
Fruit Crops	1171	8	0.68	119	10.16	304	25.96	2	0.17
Avocado	8	*	*	*	*	*	*	-	-
Bananas	408	2	0.49	84	20.59	94	23.04	*	*
Guava	17	*	*	*	*	5	29.41	-	-
Lemons	30	*	*	*	*	9	30	*	*
Mangoes	558	4	0.72	20	3.58	127	22.76	1	0.18
Oranges	26	*	*	3	11.54	9	34.62	*	*
Papayas	113	*	*	4	3.54	53	46.9	-	-
Pineapples	*	-	-	*	*	*	*	-	-
Others	11	*	*	*	*	5	45.45	-	-
Stimulant Crops	1256	108	8.6	489	38.93	326	25.96	*	*
Chat	125	-	-	32	25.6	37	29.6	*	*
Coffee	1066	108	10.13	445	41.74	257	24.11	*	*
Hops	66	-	-	12	18.18	32	48.48	*	*
Others	*	-	-	-	-	*	*	-	-
Other Permanent	73	*	*	27	36.99	30	41.1	-	-
Enset	4	*	*	*	*	2	50	-	-
Sugar Cane	55	*	*	27	49.09	24	43.64	-	-
Others	14	-	-	*	*	3	21.43	-	-

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
Benshangul-Gumuz								
Irrigation	1226	100	726	457	1183	100	43	100
Improved Seeds	3555	100	3265	*	3303	100	252	100
Pesticides	1269	100	1044	30	1074	100	195	100
Fertilizers	23687	100	22730	331	23061	100	626	100
Metekel Zone								
Irrigation	682	55.63	518	135	653	55.20	29	67.44
Improved Seeds	1717	48.30	1447	*	1481	44.84	236	93.65
Pesticides	1009	79.51	839	1	840	78.21	169	86.67
Fertilizers	11867	50.10	11076	221	11297	48.99	570	91.05
Asosa Zone								
Irrigation	465	37.93	174	277	451	38.12	14	32.56
Improved Seeds	1015	28.55	996	*	999	30.25	16	6.35
Pesticides	240	18.91	188	25	213	19.83	27	13.85
Fertilizers	7930	33.48	7770	104	7874	34.14	56	8.95
Kemashi Zone								
Irrigation	77	6.28	33	44	77	6.51		
Improved Seeds	823	23.15	821	-	823	24.92		
Pesticides	21	1.65	17	4	21	1.96		
Fertilizers	3890	16.42	3884	6	3890	16.87		

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

In 2001/02 Agricultural Sample Enumeration, the total number of holders applying fertilizers in Benishangul-Gumuz Regional State, is estimated to be about 59 thousands. Of these total private holders, about 58 thousand holders (98%) were in rural and about 2% in urban areas. The application of fertilizers in Meher and Belg seasons for private holdings in rural areas shows a great variation, that is, 97% of the holders applied fertilizers in Meher season while only 9 percent applied in Belg season (See Summary Tables VI.4 and VI.5).

With regard to the type of fertilizers applied, the great majority of holder's applied natural fertilizers (54 thousands). When we come to the utilization of commercial fertilizers, about 7 thousand of the holders applied mixture of DAP and UREA followed by only DAP (5 thousands) and only UREA (3 thousands). However, the application of chemical fertilizers

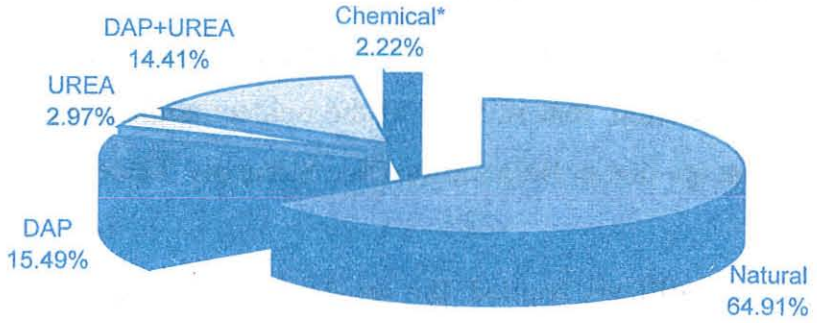
for Belg season was not reported in census enumeration. In urban areas for private holdings, a total of 997 holders applied natural and chemical fertilizers.

Among the types of fertilizers used, natural fertilizers were applied in larger cultivated cropland area, which is about 15 thousand hectares (that is, 65% of the fertilized cropland area). Next to natural fertilizers, considerable amount of cropland area was also covered by DAP which is 3.7 thousand hectares (15.5%) and a mixture of DAP and UREA was applied on 3.4 thousand hectares (14.4%) (For details, refer to Fig VI.2 and Summary Table VI.4).

Furthermore, the data in Summary Table VI.4 indicates that the total quantity of chemical fertilizers applied by holders in the rural areas was estimated at about 6.5 thousand quintals, of which, the share of the DAP and UREA mixture was the highest accounting for about 66 percent of the total quantity of chemical fertilizers applied. This is followed by DAP accounting for about 30 percent (For details, refer to Fig VI.3 and Summary Table VI.4).

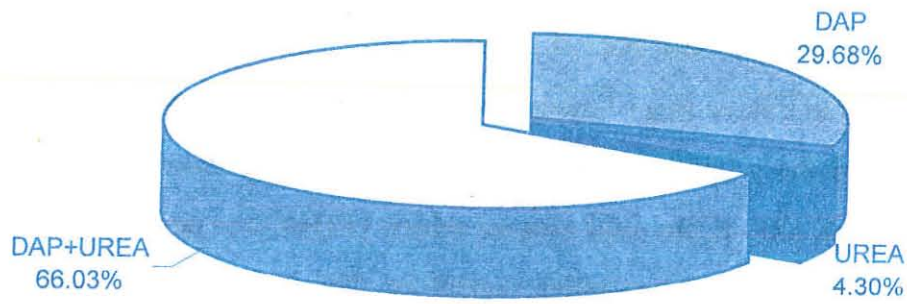
Total amount of fertilizers applied by zone is presented in Summary Table VI.8. The data in the table shows that the highest quantity of chemical fertilizers application was reported in Metekel Zone accounted for about 63%. The application in Kemashi Zone and Assosa Zone were 21 and 16 percent, respectively.

Fig Vi.2 Fertilizers Applied on Cropland Area by Type in Rural and Urban Areas, for Private Holdings



* Cropland area under chemical fertilizers by percent of the total fertilized cropland is only for urban areas

Fig.VI.3 Quantity of Fertilizers Applied by Type in Rural Areas, for Private Holdings.



3.1 Application of Natural Fertilizers in the Rural and Urban Areas

According to the census findings, about 54 thousand holders in rural areas and 427 holders in urban areas applied natural fertilizers on 15 thousand hectares of cropland (comprising 65% of the total fertilized land area). Of the total cropland area on which natural fertilizers are applied, the share of Meher and Belg seasons in rural areas was 63 and one percent, respectively. Moreover, of the total land area on which natural fertilizers are applied 74% was under cereals, 6% under pulses, and 11% under oilseeds, 3% under vegetables, 3% under root crops and 4% under permanent crops. For details, refer to Summary Tables VI.4 to VI.6.

3.2 Application of DAP in the Rural Areas

As illustrated in Summary Table VI.4, about 5 thousand holders in rural areas have applied DAP on about 4 thousand hectares, which is about 16% of the total fertilized land area. The application of DAP varied markedly from one group of crops to another, i.e., 79% of the total DAP was applied for cereals, 17% for pulses, 3% for oil seeds, and the remaining 1 percent is for other crops. Variations with respect to specific crops are also considerable, i.e., relatively higher for Teff at 1.7 thousand hectares and finger millet at 809 hectares (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 two thousand quintals, which is 30% of the total quantity of chemical fertilizers applied. In

general, the quantity of DAP applied was the highest for cereals which was about 1.3 thousand quintals followed by pulses that amounted to 584 quintals.

3.3 Application of UREA in the Rural Areas

Although chemical fertilizers have been widely promoted, only 3 thousand holders in rural areas applied UREA, and the cropland areas applied occupy 704 hectares, which is 3% of the total fertilizers applied. Out of the total area on which UREA was applied, it is reported that 71 % was under cereals and 8% was under vegetables. These values indicate that UREA was applied in a very small proportion of area under other group of crops as compared to cereals and vegetables. Among all crops, the largest UREA applied area was under finger millet at 143 hectares and Teff at 123 hectares. Moreover, the data in the table shows that the total quantity of UREA applied was about 277 quintals in which the highest amount was applied for cereals at 211 quintals followed by vegetables at 25 quintals (For details, refer to Summary Tables VI.4 and VI.5)

3.4 Application of a Mixture of DAP and UREA in the Rural Areas

The census findings depicts the fact that quite significant number of holders have applied a mixture of DAP and UREA on their crop fields. As presented in Summary Table VI.4 there were about 7 thousand holders in rural areas who applied a mixture of DAP and UREA on 3.4 thousand hectares, which is 14% of the total area on which fertilizers were applied. The application of a mixture of DAP and UREA to cereals was on 3 thousand hectares. It was observed that the application of a mixture of UREA and DAP is low in other crops relative to cereals. For instance, the application of a mixture of DAP and UREA for pulses, oilseeds, vegetables, root crops and fruit crops were only 44, 72, 29, 18 and 26 hectares, respectively.

In addition, out of the total quantity of chemical fertilizers applied, the amount of a mixture of DAP and UREA was 4 thousand quintals, which is 66% of the total quantity of chemical fertilizers. The application of a mixture of DAP and UREA to cereals, oilseeds and vegetables amounted to about 4 thousand, 71 and 13 quintals, in that order. Of the total quantity of mixed chemical fertilizers are applied, maize took the highest proportion accounting for about 85% (3.6 thousand quintals). For details, refer to Summary Tables VI.4 and VI.5.

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	59029	50198	11773	9409	2692	18594	14185	18437	131179	266
Percent..	100.00									
Natural	53995	44186	10337	8740	2542	16635	13788	17866	13061	2162
Chemical (Urban)	670	453	171	3	-	7	52	8	14	-
DAP	5018	3844	1003	327	*	385	175	69	*	61
UREA.....	2952	1222	*	204	*	1589	168	267	*	*
DAP+UREA.....	6765	6409	334	188	*	606	304	483	127	-
Urban.....	997	693	191	*	-	39	75	102	77	*
Percent..	1.69									
Natural	427	291	24	*	-	32	28	102	66	*
Chemical	670	453	*	*	-	*	52	8	*	-
Rural Meher	57398	48932	10525	9316	2660	17740	12078	18335	13102	2263
Percent..	97.24									
Natural	52648	43132	9236	8650	2511	15608	11643	17764	12995	2160
DAP	5018	3844	1003	327	*	385	175	69	*	61
UREA.....	2952	1222	*	204	*	1589	168	267	*	*
DAP+UREA.....	6765	6409	334	188	*	606	304	483	127	-
Rural Belg										
Natural	5255	2356	1156	*	*	1636	3294	-	-	-
Percent..	8.90									
	Area in Hectares									
Rural and Urban	23689	18456	1655	1910	36	538	430	305	326	30
Percent..	100.00	77.91	6.99	8.06	0.15	2.27	1.82	1.29	1.38	0.13
Natural	15379	11399	885	1620	35	435	382	271	318	29
Percent..	64.92	74.12	5.75	10.53	0.23	2.83	2.48	1.76	2.07	0.19
Chemical	8310	7057	770	290	1	103	48	34	8	1
Percent..	35.08	84.92	9.27	3.49	0.01	1.24	0.58	0.41	0.10	0.01
Urban	625	485	*	*	-	6	17	9	19	-
Percent..	2.64	77.60	*	*	-	0.96	2.72	1.44	3.04	-
Natural	100	60	6	*	-	4	*	5	16	-
Percent..	0.42	60.00	6.00	*	-	4.00	*	5.00	16.00	-
Chemical (Urban)	525	425	*	-	-	*	13	*	*	-
Percent..	2.22	80.95	*	-		*	2.48	*	*	
Rural Meher	22729	17851	1549	1906	36	515	241	296	307	30
Percent..	95.95	78.54	6.82	8.39	0.16	2.27	1.06	1.30	1.35	0.13
Natural	14944	11219	858	1616	35	414	206	266	302	29
Percent..	63.08	75.07	5.74	10.81	0.23	2.77	1.38	1.78	2.02	0.19
Chemical	7785	6632	691	290	1	101	35	30	5	1
Percent..	32.86	85.19	8.88	3.73	0.01	1.30	0.45	0.39	0.06	0.01
DAP.....	3668	2913	625	99	*	18	9	1	*	-
Percent..	15.48	79.42	17.04	2.70	*	0.49	0.25	0.03	*	-
UREA.....	704	496	*	*	*	54	*	3	*	*
Percent..	2.97	70.45	*	*	*	7.67	*	0.43	*	*
DAP+UREA...	3413	3223	44	72	*	29	18	26	*	-
Percent..	14.41	94.43	1.29	2.11	*	0.85	0.53	0.76	*	-
Rural Belg										-
Natural	335	120	21	*	*	17	172			-
Percent..	1.41	36.25	6.34	*	*	5.14	51.96	-	-	-
	Quantity in Quintals									
Rural Meher	6449	5630	624	122	-	45	16	7	4	1
Percent..	100.00	87.30	9.68	1.89	-	0.70	0.25	0.11	0.06	0.02
DAP	1914	1278	584	37	*	7	4	*	*	-
Percent..	29.68	66.77	30.51	1.93	*	0.37	0.21	*	*	-
UREA.....	277	211	*	14	*	25	*	6	*	*
Percent..	4.30	76.17	*	5.05	*	9.03	*	2.17	*	*
DAP+UREA.....	4258	4141	*	71	*	13	*	*	*	-
Percent..	66.03	97.25	*	1.67	*	0.31	*	*	*	-

To avoid duplication number of holders that applied fertilizers in rural and urban areas for private holdings do not add up to the totals. Hence, the sum of estimates may not be equal to the totals.

SUMMARY TABLE VI.5: Number of Holders Applying Fertilizers, Fertilized Area, and Quantity of Fertilizers by Crop Type in Rural 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	58032	23061	53568	15275	5018	3668	1914
Grain Crops	52049	21484	46394	13869	4682	3638	1899
Cereals	49505	17971	43895	11339	3844	2913	1278
Teff	5068	3281	2247	1030	2223	1691	633
Barley	1512	360	1298	251	127	59	38
Wheat	1027	416	667	168	238	145	114
Maize	43455	8343	38747	5627	755	166	134
Sorghum	10647	3790	10314	3670	111	32	9
Finger millet	2451	1699	1246	579	852	809	337
Oats ('Aja')	218	9	203	7	*	*	*
Rice	177	72	*	*	*	*	*
Pulses	11582	1571	10313	879	1003	625	584
Horse beans	2133	241	2102	233	*	*	*
Field peas	1177	256	1088	227	67	*	17
Haricot beans	7181	368	6839	332	93	*	*
Chick peas	527	46	517	45	*	*	*
Lentils	423	17	405	16	*	*	*
Vetch	77	2	77	2	-	-	-
Soya	1145	630	316	17	786	575	550
Fenugreek	103	*	103	*	-	-	-
Gibto	*	*	*	*	-	-	-
Oil Seeds	9400	1906	8734	1617	327	99	37
Neug	2450	849	2336	787	56	*	*
Linseed	506	23	486	21	*	*	*
Ground nuts	1013	44	951	38	*	*	*
Sufflower	156	*	109	*	*	*	-
Sesame	4109	924	3712	710	164	71	26
Rapeseed	2164	62	2061	58	83	*	*
Other Grains	2692	37	2542	35	*	*	*
Vegetables	18555	532	16603	431	385	18	7
Lettuce	*	*	*	*	-	-	-
Head cabbage	391	1	353	1	*	*	*
Kale	1373	12	1329	10	*	*	-
Tomatoes	1126	8	1126	8	-	-	-
Green peppers	1250	14	1153	12	*	*	*
Red peppers	11245	329	9375	243	310	17	5
Swiss chard	*	*	*	*	-	-	-
Others	6154	166	5922	157	*	*	*
Root Crops	14110	413	13760	378	175	9	4
Beet root	283	*	283	*	-	-	-
Carrot	383	1	383	1	-	-	-
Onions	1788	17	1740	13	39	*	*
Potatoes	3787	209	3668	197	*	*	*
Garlic	2446	13	2324	12	58	*	*
Taro ('Godere')	395	5	364	4	-	-	-
Sweet potatoes	5724	90	5618	84	*	2	*
Others	2805	79	2700	67	-	-	-
Permanent Crops	23126	632	22471	597	191	3	*
Fruit Crops	18335	295	17764	266	69	1	*
Avocado	328	*	328	*	-	-	-
Bananas	6916	92	6737	85	*	*	-
Guava (Zeytuna)	1080	5	1080	5	-	-	-
Lemons	1006	8	970	8	-	-	-
Mangoes	9227	124	8765	105	41	1	*
Oranges	1417	9	1384	8	-	-	-
Papayas	7641	52	7537	51	*	*	*
Pineapples	*	*	*	*	-	-	-
Others	264	2	233	2	*	*	-
Stimulant Crops	13102	307	12995	302	*	*	*
Chat	4030	37	3977	36	*	*	*
Coffee	9855	239	9735	235	*	*	*
Hops	4904	31	4881	31	*	*	*
Others	*	*	*	*	-	-	-
Other Permanent	2263	30	2160	29	61	*	*
Enset	163	2	137	2	18	*	-
Sugar Cane	1630	24	1630	24	-	-	-
Others	489	3	412	3	*	*	*

SUMMARY TABLE VI.5 Contd.

CROP	Application of Fertilizers by Type and Quantity					
	Chemical – UREA			Chemical - DAP and UREA		
	Holders	Hectares	Quintals	Holders	Hectares	Quintals
TOTAL	2952	704	277	6765	3413	4258
Grain Crops	1428	638	237	6485	3339	4239
Cereals	1222	496	211	6409	3223	4141
Teff	271	123	40	627	437	313
Barley	*	*	*	*	*	*
Wheat	*	*	*	96	58	32
Maize	549	91	70	5641	2459	3609
Sorghum	125	52	*	140	37	*
Finger millet	228	143	54	142	*	*
Oats ('Aja')	-	-	-	-	-	-
Rice	*	*	*	65	*	*
Pulses	*	*	*	334	44	*
Horse beans	-	-	-	-	-	-
Field peas	-	-	-	*	*	*
Haricot beans	-	-	-	284	22	*
Chick peas	-	-	-	-	-	-
Lentils	-	-	-	*	*	*
Vetch	-	-	-	-	-	-
Soya	*	*	*	*	*	*
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	*	*	*
Oil Seeds	204	*	14	188	72	71
Neug	-	-	-	*	*	*
Linseed	-	-	-	*	*	*
Ground nuts	*	*	*	44	3	*
Sufflower	*	*	*	-	-	-
Sesame	174	*	11	62	27	*
Rapeseed	*	*	*	*	*	-
Other Grains	*	*	*	*	*	*
Vegetables	1589	54	25	606	29	13
Lettuce	-	-	-	-	-	-
Head cabbage	*	*	*	*	*	*
Kale	*	*	*	*	*	-
Tomatoes	-	-	-	*	*	-
Green peppers	*	*	*	*	*	*
Red peppers	1532	52	24	317	17	13
Swiss chard	-	-	-	-	-	-
Others	*	*	*	188	8	-
Root Crops	168	*	*	304	18	*
Beet root	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onions	*	*	*	*	*	*
Potatoes	*	*	*	*	*	*
Garlic	*	*	*	*	*	*
Taro	*	*	*	*	*	-
Sweet potatoes	*	*	*	*	*	-
Others	*	*	*	*	*	-
Permanent Crops	360	5	7	539	28	*
Fruit Crops	267	3	6	483	26	*
Avocado	-	-	-	-	-	-
Bananas	*	*	*	176	7	*
Guava	-	-	-	-	-	-
Lemons	-	-	-	*	*	-
Mangoes	164	1	3	352	17	-
Oranges	*	*	*	*	*	-
Papayas	*	*	*	84	*	-
Pineapples	-	-	-	-	-	-
Others	*	*	*	*	*	-
Stimulant Crops	*	*	*	127	*	*
Chat	*	*	*	*	*	-
Coffee	*	*	*	107	*	*
Hops	-	-	-	-	-	-
Others	-	-	-	-	-	-
Other Permanent	*	*	*	-	-	-
Enset	*	*	*	-	-	-
Sugar Cane	*	*	*	-	-	-
Others	*	*	*	-	-	-

SUMMARY TABLE VI.6: 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 and Quantity					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectares	Holders	Hectares	Holders	Hectares	Holders	Hectares
TOTAL	997	626	427	100	642	506	28	19
Grain Crops	855	575	309	70	594	490	19	*
Cereals	693	485	291	60	434	413	19	12
Teff	87	44	*	*	71	35	*	*
Barley	6	1	6	1	-	-	-	-
Wheat	*	*	-	-	*	*	*	*
Maize	600	366	290	54	323	311	*	*
Sorghum	13	9	*	*	5	*	*	*
Finger millet	76	62	-	-	76	62	-	-
Oats ('Aja')	-	-	-	-	-	-	-	-
Rice	*	*	-	-	*	*	-	-
Pulses	191	*	24	6	*	*	*	*
Horse beans	*	*	*	*	-	-	-	-
Field peas	17	6	13	*	-	-	*	*
Haricot beans	*	*	*	*	-	-	-	-
Chick peas	*	*	-	-	*	*	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-
Soya	*	*	-	-	*	*	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oil Seeds	*	*	*	*	*	*	-	-
Neug	*	*	*	*	*	*	-	-
Linseed	*	*	*	*	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Sufflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Other Grains	-	-	-	-	-	-	-	-
Vegetables	39	7	32	4	*	*	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Kale	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	39	7	32	4	*	*	-	-
Swiss chard	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Root Crops	75	16	28	*	28	7	24	6
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onions	*	*	*	*	*	*	-	-
Potatoes	60	15	*	*	23	7	24	6
Garlic	26	1	20	1	*	*	-	-
Taro	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-
Permanent Crops	161	28	152	22	20	*	-	-
Fruit Crops	102	9	102	5	8	*	-	-
Avocado	*	*	*	*	-	-	-	-
Bananas	47	1	47	1	-	-	-	-
Guava	*	*	*	*	-	-	-	-
Lemons	*	*	*	*	-	-	-	-
Mangoes	70	3	64	2	8	*	-	-
Oranges	*	*	*	*	-	-	-	-
Papayas	32	*	32	*	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Others	*	*	*	*	*	*	-	-
Stimulant Crops	77	19	66	16	*	*	-	-
Chat	*	*	*	*	-	-	-	-
Coffee	47	18	40	15	*	*	-	-
Hops	27	*	21	*	*	*	-	-
Others	-	-	-	-	-	-	-	-
Other Permanent	*	*	*	*	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar Cane	*	*	*	*	-	-	-	-
Others	-	-	-	-	-	-	-	-

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 cereals, pulses and oil seeds are presented in Summary Table VI.7.

4.1 Number of Holders using Improved Seeds.

As portrayed in Summary Table VI.7 the use of improved seeds is limited to only 15 thousand holders in rural and 378 holders in urban areas of the region. Of the total holders using improved seeds, 42% used utilized improved maize seed, 4% improved sorghum seed, 4% improved haricot beans seed, and 46% improved variety of coffee seeds. The utilization of improved sorghum seeds is very low considering the area it covers that amounts to about 37% of the total cultivated land area in the region.

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.7, the total quantity of improved seeds was estimated to be 859 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 utilization of improved seeds is very low that indicates the holders' continued reliance on low yielding local/traditional seeds.

Considering the total quantity of improved seeds utilized, about 74% accounted for maize followed by about 18% for pulse group. In the case of oil seeds, the quantity of improved seeds used was insignificant. Details are given in Summary Table VI.7

Total amount of improved seeds used by zone is presented in Summary Table VI.8. The data in the table shows that the highest quantity of improved seeds used was reported in Metekel Zone, accounted for about 55%. While, the total quantity of improved seeds used in Kemashi Zone and Assosa Zone were 22% each, respectively.

SUMMARY TABLE VI.7: 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	15838	100.00	15101	459	378	859	100.00	858	*
Grains	8157	51.50	7852	*	250	859	100.00	858	*
Cereals	7429	46.91	7133	*	241	705	82.12	705	*
Teff	*	*	*	-	*	14	1.57	*	-
Barley	*	*	*	-	-	0	0.05	*	-
Wheat	*	*	*	-	-	5	0.60	*	-
Maize	6613	41.75	6345	*	236	632	73.52	631	*
Sorghum	678	4.28	678	-	-	8	0.97	8	-
Finger millet	406	2.53	401	-	*	10	1.12	*	-
Oats ('Aja')	-	-	-	-	-	-	-	-	-
Rice	115	0.73	92	-	-	37	4.29	37	-
Pulses	905	5.71	859	*	23	151	17.62	151	-
Horse beans	*	*	*	-	-	0	0.02	*	-
Field peas	*	*	*	-	-	-	-	-	-
Haricot beans	600	3.79	577	*	-	6	0.67	*	-
Chick peas	12	0.08	*	-	*	1	0.06	*	-
Lentils	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-
Soya	229	1.36	215	-	14	145	16.87	145	-
Fenugreek	-	-	-	-	-	-	-	-	-
Oil Seeds	689	4.35	689	-	-	2	0.26	*	-
Neug	68	0.43	68	-	-	0	0.01	*	-
Linseed	-	-	-	-	-	-	-	-	-
Ground nuts	112	0.71	112	-	-	1	0.16	*	-
Sufflower	*	*	*	-	-	-	-	-	-
Sesame	448	2.83	448	-	-	1	0.10	1	-
Rapeseed	*	*	*	-	-	-	-	-	-
Other Grains	*	*	*	-	-	-	-	-	-
Vegetables	292	1.82	118	171	*	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage	*	*	*	-	-	-	-	-	-
Kale	*	*	*	*	-	-	-	-	-
Tomatoes	150	0.95	-	150	-	-	-	-	-
Green peppers	*	*	*	*	-	-	-	-	-
Red peppers	*	*	*	*	*	-	-	-	-
Swiss chard	*	*	*	-	-	-	-	-	-
Others	*	*	*	-	-	-	-	-	-
Root Crops	398	2.42	109	275	-	-	-	-	-
Beet root	*	*	*	*	-	-	-	-	-
Carrot	*	*	*	*	-	-	-	-	-
Onions	158	0.93	*	85	-	-	-	-	-
Potatoes	*	*	*	*	*	-	-	-	-
Garlic	18	0.11	18	-	-	-	-	-	-
Taro ('Godere')	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-	-
Others	*	*	*	-	-	-	-	-	-
Permanent Crops	7836	49.48	7711	-	125	-	-	-	-
Fruit Crops	900	5.32	842	-	58	-	-	-	-
Avocado	287	1.64	259	-	29	-	-	-	-
Bananas	219	'1.37	217	-	*	-	-	-	-
Guava (Zeytuna)	*	*	*	-	*	-	-	-	-
Lemons	*	*	*	-	-	-	-	-	-
Mangoes	227	1.29	205	-	22	-	-	-	-
Oranges	*	*	*	-	-	-	-	-	-
Papayas	77	0.47	74	-	*	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-	-
Others	*	*	*	-	*	-	-	-	-
Stimulant Crops	7300	45.67	7233	-	67	-	-	-	-
Chat	-	-	-	-	-	-	-	-	-
Coffee	7300	45.67	7233	-	67	-	-	-	-
Other Permanent Crops	*	*	*	-	-	-	-	-	-

Summary Table VI.8 Quantity of Chemical Fertilizers Applied and Improved Seeds Used by Zone and Season in Rural Areas, for Private Holdings

Item	Quantity in Quintals			
	Total	Metekel	Asosa	Kemashi
Chemical Fertilizers				
Total	6449	4053	1043	1353
Percent	100.00	62.85	16.17	20.98
Meher	6449	4053	1043	1353
Belg	-	-	-	-
Improved seeds				
Total	859	474	193	192
Percent	100.00	55.14	22.42	22.40
Meher	858	473	193	192
Percent	100.00	55.11	22.43	22.42
Belg	*	*	-	-
Percent	*	*	-	-

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.9 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 Benshangul-Gumuz 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 (68% in rural and 40 % in urban areas) were found to be illiterate while 9% in rural and 13% in urban areas have participated in informal education. Moreover, the data shows that 19% of the holders in rural and 27% of holders in urban areas have completed grades 1 to 6 and only 3% of the holders in rural and 18 % in urban areas have completed grades 7-12. Furthermore, around 0.2% of the holders in rural and 2% in urban areas had completed an educational level of above grade 12 (i.e. college/university). These estimates show that holders in urban areas are relatively more literate than those in the rural areas. This could probably be attributed to better access to school and/or better awareness of the importance of education among the holders in the urban than those in the rural areas.

Extension packages are outreach programs operating in rural areas for private holdings aiming to transfer modern agricultural technologies to increase crop and livestock productivity. The programs are usually undertaken by follow-up and advisory services by the agricultural development agents. The total number of holders participating in the agricultural extension package programs was 5.7 thousands, which is only about five percent of the total holders in the region. Of the total holders participating in the extension programs, 5.6 thousand holders were in Meher season and 211 holders were in Belg season. The distribution of extension package program participants by educational status shows that 48% were illiterate, 17% have participated in informal education, 29% have completed grades 1 to 6 and 5% have completed grades 7-12 .

As a result of insignificant number of holders who have been exposed to extension packages as well as to education the impact of education on the use of improved farm practices was not clearly exhibited by the census data. The data indicates that out of all holders who have used improved seeds, practiced irrigation, and applied fertilizers and pesticides, 51, 52, 61 and 51 percents were illiterate, respectively (For details, refer to Summary Table VI.9).

The total number of holders applying agricultural inputs and irrigation practice by zone for private holdings in rural and urban areas are presented in Summary Table VI.9. In each zone, the proportion 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 it is used by 29.8 thousand holders (50%) in Asosa Zone compared to 21.9 thousands (37%) in Metekel Zone and 7.4 thousands (13%) in Kemashi Zone. The second most widely used input was improved seeds and is used by 10 thousand holders (64%) in Asosa Zone. The corresponding figures are 4 thousands (25%) in Metekel Zone and 1.8 thousands (11%) in Kemashi Zone. The total number of holders who have followed irrigation schemes in Asosa, Metekel, and Kemashi Zones were 64, 31 and 5 percent, respectively. The proportion of holders that applied pesticides was higher in Asosa Zone (68%) compared to Metekel (29%) and Kemashi (3%) Zones. For details, refer to Summary Table VI.10.

SUMMARY TABLE VI.9: 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 Holders									
			Illiterate		Literate, but no Formal Education		Grade 1 - 6		Grade 7 - 12		Above Grade 12	
	Numb	%	Number	%	Numbe	%	Numbe	%	Number	%	Number	%
All Crop Holders												
Rural and Urban	127570	100.00	85847	67.29	11704	9.17	24884	19.51	4804	3.77	331	0.26
Rural	123726	100.00	84304	68.14	11218	9.07	23851	19.28	4097	3.31	255	0.21
Meher	123726	100.00	84304	68.14	11218	9.07	23851	19.28	4097	3.31	255	0.21
Belg	11268	100.00	6593	58.51	1605	14.24	2659	23.60	330	2.93	-	-
Urban	3826	100.00	1541	40.28	485	12.68	1032	26.97	690	18.03	76	1.99
Improved Seeds												
Rural and Urban	15838	12.42	8077	51.00	2544	16.06	3943	24.90	1231	7.77	43	0.27
Rural	15460	12.50	7952	51.44	2461	15.92	3849	24.90	1169	7.56	29	0.19
Meher	15101	12.21	7784	51.55	2450	16.22	3711	24.57	1127	7.46	29	0.19
Belg	459	4.07	229	49.89	*	*	*	*	*	-	-	-
Urban	379	9.91	125	32.98	83	21.90	95	25.07	*	*	15	3.96
Irrigation												
Rural and Urban	11115	8.71	5772	51.93	1905	17.14	2867	25.79	565	5.08	*	*
Rural	10854	8.77	5667	52.21	1873	17.26	2816	25.94	*	*	-	-
Meher	6780	5.48	3223	47.54	1198	17.67	2013	29.69	*	*	-	-
Belg	6411	56.90	3410	53.19	1196	18.66	1526	23.80	247	3.85	*	*
Urban	261	6.82	105	40.23	32	12.26	51	19.54	*	*	*	*
Fertilizer												
Rural and Urban	59029	46.27	36076	61.12	7248	12.28	12725	21.56	2807	4.76	175	0.30
Rural	58032	46.90	35714	61.54	7126	12.28	12453	21.46	2587	4.46	151	0.26
Meher	57398	46.39	35243	61.40	7076	12.33	12363	21.54	2565	4.47	151	0.26
Belg	5255	46.64	3156	60.06	734	13.97	1124	21.39	*	*	*	-
Urban	998	26.08	363	36.37	122	12.22	269	26.95	220	22.04	24	2.40
Pesticides												
Rural and Urban	4302	3.37	2179	50.65	860	19.99	1153	26.80	*	*	-	-
Rural	4159	3.36	2113	50.81	835	20.08	1120	26.93	*	*	-	-
Meher	2802	2.26	1351	48.22	656	23.41	726	25.91	*	*	-	-
Belg	1458	12.94	783	53.70	221	15.16	432	29.63	*	*	-	-
Urban	143	3.74	66	46.15	24	16.78	33	23.08	*	*	-	-
Extension Program												
Rural	5738	4.64	2765	48.19	959	16.71	1684	29.35	312	5.44	*	*
Meher	5563	4.50	2718	48.86	888	15.96	1649	29.64	290	5.21	*	*
Belg	211	*	*	*	*	*	*	*	*	*	-	-

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SUMMARY TABLE VI.10: Holders Applying Agricultural Inputs and Practices in Rural and Urban Areas and Zones, for Private Holdings

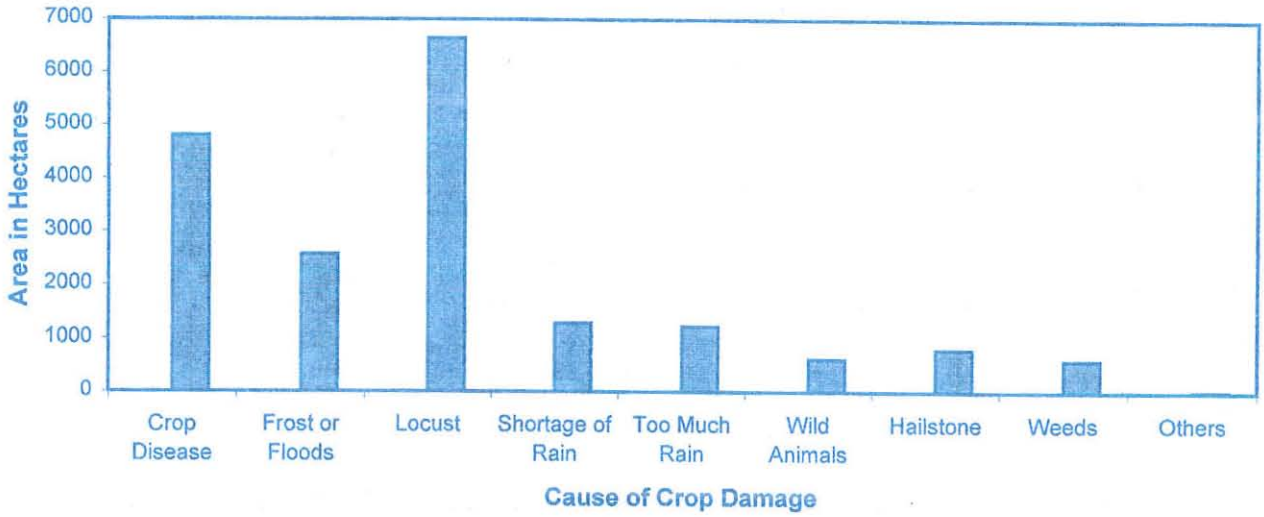
Data Items	Number of Holders							
	Total	Percent	Rural Meher	Rural Belg	Rural	Percent	Urban Meher	Percent
Benshangul-Gumuz								
Irrigation	11115	100	6778	6412	10854	100	261	100
Improved Seeds	15838	100	15101	459	15460	100	378	100
Pesticides	4302	100	2802	1456	4159	100	143	100
Fertilizers	59030	100	57398	5255	58032	100	998	100
Metekel Zone								
Irrigation	3478	31.29	2775	1296	3310	30.50	168	64.37
Improved Seeds	3972	25.08	3454	278	3690	23.87	282	74.60
Pesticides	1227	28.52	1096	*	1138	27.36	89	62.24
Fertilizers	21871	37.05	20664	2506	21000	36.19	871	87.27
Asosa Zone								
Irrigation	7110	63.97	3778	4784	7017	64.65	93	35.63
Improved Seeds	10085	63.68	9897	*	9989	64.61	96	25.40
Pesticides	2944	68.43	1612	1376	2889	69.46	55	38.46
Fertilizers	29761	50.42	29375	2699	29635	51.07	126	12.63
Kemashi Zone								
Irrigation	527	4.74	225	332	527	4.86		
Improved Seeds	1781	11.25	1749	32	1781	11.52		
Pesticides	133	3.09	94	*	133	3.20		
Fertilizers	7397	12.53	7359	50	7397	12.75		

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 Benishangul-Gumuz 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, 13.2% in Meher and 3.4% in Belg seasons were affected by crop damage. The cropland area damage that accounted for 69% fall under holders in rural areas who had holding size that ranges from 1.0 and 5 hectares. On the other hand, holders in rural areas who had holding size of between 0.51 and 1 hectare accounted for 17.4% of the cropland area damage. It was also indicated that holders in rural areas who had relatively large holdings (5.01 and more hectares) comprised about 5.5% of the total cropland area damage.

With regard to the causes of crop damage, it is reported that 36% was damaged due to locusts, 26% was caused by crop disease, 14% was due to frost or flood, 7% each was due to too much rain and shortage of rain, and the remaining 10% was reported due to all other causes of crop damage (For details see Summary Table VI.11 and Fig VI.4).

Fig VI.4 Damaged Cropland Area by Causes of Damage in Rural Areas, for Private Holdings



7. FARM MANAGEMENT PRACTICES OF HOLDERS IN RURAL AREAS

In order to obtain more detailed information concerning the various types of farm management 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.12. Following are discussions of the major findings with respect to these data.

SUMMARY TABLE VI.11: 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	18616	91	1438	3229	6344	6500	804	211
Percent,,	100.00	0.49	7.72	17.35	34.08	34.92	4.32	1.13
Crop Disease	4805	22	459	969	1605	1502	204	*
Percent..	25.81	0.46	9.55	20.17	33.40	31.26	4.25	*
Frost or Floods	2574	6	225	507	870	845	96	*
Percent,,	13.83	0.23	8.74	19.70	33.80	32.83	3.73	*
Locust	6642	41	470	1050	2321	2454	276	*
Percent,,	35.68	0.62	7.08	15.81	34.94	36.95	4.16	*
Shortage of Rain	1289	3	56	179	496	463	82	*
Percent,,	6.92	0.23	4.34	13.89	38.48	17.99	3.19	*
Too Much Rain	1226	5	76	220	398	387	63	*
Percent,,	6.59	0.41	6.20	17.94	32.46	31.57	5.14	*
Wild Animals	617	6	50	102	233	201	25	-
Percent,,	3.31	0.97	8.10	16.53	37.76	32.58	4.05	-
Birds	-	-	-	-	-	-	-	-
Percent,,	-	-	-	-	-	-	-	-
Hailstone	798	3	28	94	225	430	18	-
Percent,,	4.29	0.38	3.51	11.78	28.20	53.88	2.26	-
Pests and Insects	51	-	5	2	15	25	-	*
Percent,,	0.27	-	10.00	4.00	30.00	50.00	-	*
Weeds	599	2	67	105	178	186	40	*
Percent,,	3.22	0.33	11.19	17.53	29.72	31.05	6.68	*
Others	16	3	*	*	*	*	-	-
Percent,,	0.09	18.75	12.50	6.25.0	18.75	43.75	-	-
	Meher Season							
Total	18586	78	1424	3226	6344	6500	804	211
Crop Disease	4797	20	455	967	1605	1502	204	*
Frost or Floods	2571	5	223	507	870	845	96	*
Locust	6633	38	465	1049	2321	2454	276	*
Shortage of Rain	1287	1	56	179	496	463	82	*
Too Much Rain	1225	4	76	220	398	387	63	*
Wild Animals	617	6	50	102	233	201	25	-
Birds	-	-	-	-	-	-	-	-
Hailstone	798	3	28	94	225	430	18	-
Pests and Insects	50	-	5	2	15	25	-	*
Weeds	597	1	66	105	178	186	40	*
Others	11	-	-	*	*	*	-	-
	Belg Season							
Total	31	12	14	*	-	-	-	-
Crop Disease	8	2	4	*	-	-	-	-
Frost or Floods	3	*	*	-	-	-	-	-
Locust	9	3	5	*	-	-	-	-
Shortage of Rain	2	*	-	-	-	-	-	-
Too Much Rain	*	*	-	-	-	-	-	-
Wild Animals	-	-	-	-	-	-	-	-
Birds	-	-	-	-	-	-	-	-
Hailstone	-	-	-	-	-	-	-	-
Pests and Insects	-	-	-	-	-	-	-	-
Weeds	1	*	*	-	-	-	-	-
Others	5	3	2	-	-	-	-	-

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 Benishangul-Gumez Region. As presented earlier, coffee, banana, and maize are relatively sizable crops that are grown by irrigation in this region. The census data reveals that of the total holder in the rural areas only 9.4% reported to have used irrigation practices. Among these holders who practice different sources of water, 84 percent and 12 percent of the holders have used 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 that 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 about 30 holders. Thus, the data on number of holders practicing irrigation was collected in September (for ten households) and December (for twenty households). However, 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.9 and VI.12.

During the 2001/02 EASE, an attempt has also been made to asses the extent of irrigation practice in urban areas. Thus, sources of water for irrigation under permanent crops in urban areas for Meher season have been assessed and the data are presented in Summary Table V1.13. The data in the table shows that only 7 percent of the total holders reported as practicing irrigation during the Meher season and of these holders the sources of water for irrigation were 56, 22, 13 and 11 percent from rivers, lakes, tap water and other sources, respectively. However, holders that use well are very few. In the same summary table, it was observed that out of the total holders only 101 (2.6 percent) holders in urban areas practiced Belg crop production in the past three years prior to 2002/03 (1995 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

SUMMARY TABLE VI.12: 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	123726	100.00
Source of Water for Irrigation		
Holders who Practice Irrigation	11626	9.40
River	9816	84.43
Lake	1344	11.56
Pond	271	2.33
Other	195	1.68
Method to Improve Soil Fertility		
Crop Rotation	71931	58.14
Burning of Soil	10679	8.63
Reason for Not Using Chemical Fertilizer		
Do Not Know Advantages	34066	
Too Expensive	12459	
Shortage of Money	66023	
Insufficient Supply	10606	
No Credit Service	548	
Suspicious of Efficacy	1265	
Other	20783	
Method of Ploughing		
Hand Dug	66984	54.14
Ox/Horse Driven	30664	24.78
Tractor	-	-
Hand Dug and Ox/Horse Driven	23116	18.68
Tractor and Ox/Horse Driven	*	*
Method of Soil Conservation		
Terracing	4586	3.71
Water Catchments	10895	8.81
Afforestation	247	0.20
Plowing Along the Contour	37784	30.54
Others	3520	2.84
All Holders	129549	100.00
Participation in Extension Package by Type		
Rain Shortage Areas Package	1137	0.88
Rain Abundant Areas Package	9156	7.07
Post Harvest Technology Package	658	0.51
Livestock Development Package	*	*
Economically Important Crops Package	979	0.76
Any Two or More Packages	240	0.19
Reason For Not Participating in Extension Packages		
Do Not Know the Advantages	27334	21.10
Shortage of Money	63435	48.97
Suspicious of Efficacy	5058	3.90
Programs Not Available	8643	6.67
Not Sufficient Arable Land	3212	2.48
Others	4624	3.57
Use of Credit or Advisory Services		
Credit Services	8396	6.48
Advisory Services	17458	13.48

used agricultural credit services and about 14 percent of the holders have obtained advice on agricultural practices. This shows that the use of credit and advisory services were limited in scope.

Summary Table VI.13 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.....	3826	100.00
Holders who Practice Irrigation	261	6.82
Sources		
River.....	147	56.32
Lake.....	57	21.84
Well.....	*	*
Tap Water.....	33	12.64
Others.....	29	11.11
Not Stated.....	*	*
Those who Practice Belg from 1999/2000 to 2001/02		
Crop Holders.....	3826	100.00
Holders who Practice Belg.....	101	2.63
Male.....	96	2.51
Female.....	*	*

7.7 Sources and Cost of Chemical Fertilizers.

As illustrated in Summary Table V1.14, it is estimated that a total of 13 thousand holders (11%) reported "Government" as their major sources of chemical fertilizers, while about 2.6 thousand (2.1%) and 458 holders (0.4%) mentioned traders and private organization as their major sources of chemical fertilizers, respectively. Regardless of the source, the average cost was 293 Birr/Quintal for DAP and 257 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 who are willing to participate in the extension package programs.

Summary Table VI.14: 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.....	123726	100.00
Sources		
Government.....	13052	10.55
Private Organization	458	0.37
Traders.....	2555	2.07
Others.....	*	*
Do not Buy.....	104326	84.32
Not Reported.....	2323	1.88
Type of Fertilizers	**Cost in Birr/Quintal**	
DAP.....	293	
UREA.....	257	

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 Table VI.15. Accordingly, about 5 thousand holders have been participating in crop specific package, that is, maize, followed by about 563, 444, 214 and 203 holders who considered haricot beans, sorghum, sesame and Teff, respectively. Moreover, about 172 holders took red peppers, 137 holders neug and 114 holders considered tomatoes from crop specific extension packages.

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.15 shows that a total of 2.4 thousand hectares (2% of the total cropland area) was under extension package programs. Out of the total cropland area under extension package programs, 81.7% was observed under maize, followed by nine percent for sorghum. Moreover, the census data revealed that 2.9% for teff, 2.3% for haricot beans and 1.7% for sesame were also under extension package programs in the region. As can be observed from the data in the table, most of this extension package programs were

mainly practiced in Meher season and the participation of holders in these programs are insignificant in Belg season. For details, see Summary Table VI.15

Summary Table VI.15: 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	5738	100.00	2351	100.00	5563	2347	211	4
Teff	203	3.54	68	2.89	203	68	-	-
Barley	52	0.91	*	*	52	*	-	-
Wheat	*		*	*	*	*	-	-
Maize	4990	86.96	1920	81.67	4885	1919	*	*
Sorguhm	444	7.74	205	8.72	444	205	-	-
Rice	*		*	*	*	*	-	-
Field peas	-	-	-	-	-	-	-	-
Haricot beans	563	9.81	53	2.25	541	53	*	*
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Nueg	137	2.39	21	0.89	137	21	-	-
Linseed	*		*	*	*	*	-	-
Ground nuts	42	0.73	*	*	42	*	-	-
Sesame	214	3.73	39	1.66	214	39	-	-
Rapeseed	*	*	*	*	*	*	-	-
Other Grains	*	*	*	*	*	*	-	-
Tomatoes	114	1.99	2	0.09	-	-	114	2
Red Papper	172	3.00	3	0.13	136	2	*	*
Onion	55	0.96	*	*	*	*	46	-
Potatoes	*	*	*	*	*	*	-	*
Sweet potatoes	*	*	*	*	*	*	*	*
Enset	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-

STATISTICAL TABLES PRESENTING RESULTS AT ZONE AND WEREDA LEVELS

Tables 6.1 – 6.65

TABLE 6.1.1: RURAL MEHER

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL	140811	3265	2.32	726	0.52	22730	16.14	1044	0.74
Grain Crops	136250	3159	2.32	103	0.08	21342	15.66	1035	0.76
Cereals	103942	2856	2.75	96	0.09	17851	17.17	974	0.94
Teff	10737	*	*	*	*	3281	30.56	207	1.93
Barley	1047	*	*	-	-	360	34.38	-	-
Wheat	891	*	*	-	-	416	46.69	*	*
Maize	20482	2530	12.35	62	0.3	8223	40.15	136	0.66
Sorghum	52375	139	0.27	*	*	3790	7.24	124	0 24
Finger millet	17279	142	0.82	*	*	1699	9.83	495	2.86
Oats ('Aja')	28	-	-	-	-	9	32.14	-	-
Rice	1103	23	2.09	-	-	72	6.53	*	*
Pulses	6684	185	2.77	*	*	1549	23.17	*	*
Horse beans	583	*	*	-	-	241	41.34	*	*
Field peas	719	*	*	-	-	256	35.61	-	-
Haricot beans	3779	43	1.14	*	*	347	9.18	*	*
Chick peas	368	*	*	*	*	46	12.5	-	-
Lentils	42	-	-	*	*	17	40.48	-	-
Vetch	20	-	-	-	-	2	10	-	-
Soya	1132	140	12.37	*	*	630	55.65	*	*
Fenugreek	*	-	-	*	*	*	*	-	-
Gibto	36	-	-	-	-	*	*	-	-
Oil Seeds	25244	116	0.46	3	0.01	1905	7.55	50	0.2
Neug	13433	*	*	*	*	849	6.32	*	*
Linseed	200	-	-	*	*	23	11.5	*	*
Ground nuts	2388	*	*	*	*	44	1.84	*	*
Sufflower	94	*	*	-	-	*	*	-	-
Sesame	9028	77	0.85	*	*	924	10.23	*	*
Rapeseed	100	*	*	*	*	62	62	*	*
Other Grains	379	*	*	*	*	37	9.76	-	-
Vegetables	1448	1	0.07	9	0.62	515	35.57	5	0.35
Lettuce	*	-	-	*	*	*	*	-	-
Head cabbage	2	*	*	-	-	1	50	-	-
Kale	*	*	*	-	-	5	*	-	-
Tomatoes	5	-	-	*	*	2	40	-	-
Green peppers	25	*	*	*	*	13	52	-	-
Red peppers	816	*	*	6	0.74	327	40.07	4	0.49
Swiss chard	*	*	*	-	-	*	*	-	-
Others	565	*	*	*	*	166	29.38	*	*
Root Crops	775	*	*	9	1.16	241	31.1	*	*
Beet root	*	*	*	-	-	*	*	-	-
Carrot	1	*	*	-	-	1	100.00	-	-
Onions	19	*	*	1	5.26	9	47.37	-	-
Potatoes	102	*	*	*	*	46	45.1	-	-
Garlic	21	*	*	*	*	12	57.14	-	-
Taro ('Godere')	9	-	-	*	*	5	55.56	-	-
Sweet potatoes	248	-	-	*	*	90	36.29	-	-
Others	373	*	*	*	*	79	21.18	*	*
Permanent Crops	2339	105	4.49	605	25.87	632	27.02	4	0.17
Fruit Crops	1058	7	0.66	111	10.49	295	27.88	1	0.09
Avocado	6	*	*	*	*	*	*	-	-
Bananas	389	2	0.51	79	20.31	92	23.65	-	-
Guava (Zeytuna)	14	*	*	*	*	5	35.71	-	-
Lemons	28	*	*	*	*	8	28.57	*	*
Mangoes	489	3	0.61	18	3.68	124	25.36	*	*
Oranges	22	*	*	3	13.64	9	40.91	*	*
Papayas	101	*	*	3	2.97	52	51.49	-	-
Pineapples	*	-	-	*	*	*	*	-	-
Others	8	*	*	*	*	2	25	-	-
Stimulant Crops	1212	98	8.09	468	38.61	307	25.33	*	*
Chat	123	*	*	32	26.02	37	30.08	*	*
Coffee	1032	98	9.5	424	41.09	239	23.16	*	*
Hops	58	*	*	12	20.69	31	53.45	*	*
Others	*	-	-	-	-	*	*	-	-
Other Permanent Crops	69	*	*	26	37.68	30	43.48	-	-
Enset	4	*	*	*	*	2	50	-	-
Sugar Cane	53	*	*	26	49.06	24	45.28	-	-
Others	12	-	-	*	*	3	25	-	-

TABLE 6.1.2: RURAL BELG

TYPE OF CROP	Total Crop	Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL	905	*	*	456	50.39	331	36.57	30	3.31
Grain Crops	491	*	*	356	72.51	142	28.92	27	5.5
Cereals	379	*	*	285	75.2	120	31.66	27	7.12
Teff	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-
Maize	379	*	*	285	75.2	120	31.66	27	7.12
Sorghum	*	-	-	*	*	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-	-
Pulses	105	*	*	67	63.81	21	20	*	*
Horse beans	*	-	-	*	*	-	-	-	-
Field peas	-	-	-	-	-	-	-	-	-
Haricot beans	104	*	*	66	63.46	21	20.19	*	*
Chick peas	-	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	*	-	-	*	*	*	*	-	-
Neug	-	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-	-
Sufflower	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-
Rapeseed	*	-	-	*	*	*	*	-	-
Other Grains	*	-	-	*	*	*	*	-	-
Vegetables	37	*	*	27	72.97	17	45.95	2	5.41
Lettuce	*	-	-	*	*	*	*	*	*
Head cabbage	*	-	-	*	*	*	*	-	-
Kale	12	*	*	10	83.33	7	58.33	*	*
Tomatoes	17	-	-	10	58.82	6	35.29	*	*
Green peppers	2	*	*	2	100.00	*	*	-	-
Red peppers	5	*	*	4	80	2	40	*	*
Swiss chard	*	*	*	*	*	*	*	-	-
Others	-	-	-	-	-	-	-	-	-
Root Crops	377	1	0.27	74	19.63	172	45.62	*	*
Beet root	*	*	*	*	*	*	*	-	-
Carrot	*	*	*	*	*	*	*	-	-
Onions	15	1	6.67	14	93.33	7	46.67	*	*
Potatoes	360	-	-	57	15.83	163	45.28	-	-
Garlic	2	-	-	2	100.00	1	50	-	-
Taro ('Godere')	-	-	-	-	-	-	-	-	-
Sweet potatoes	*	-	-	*	*	*	*	-	-
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	5651	252	4.46	43	0.76	626	11.08	195	3.45
Grain Crops	5368	235	4.38	11	0.2	575	10.71	194	3.61
Cereals	3563	223	6.26	11	0.31	485	13.61	183	5.14
Teff	257	*	*	-	-	44	17.12	*	*
Barley	*	-	-	-	-	1	*	-	-
Wheat	*	-	-	-	-	*	*	-	-
Maize	669	204	30.49	11	1.64	366	54.71	*	*
Sorghum	1467	-	-	-	-	9	0.61	*	*
Finger millet	1081	*	*	-	-	62	5.74	152	14.06
Oats ('Aja')	-	-	-	-	-	-	-	-	-
Rice	42	-	-	*	*	*	*	-	-
Pulses	179	12	6.7	*	*	*	*	*	*
Horse beans	*	-	-	-	-	*	*	-	-
Field peas	17	-	-	-	-	6	35.29	-	-
Haricot beans	72	-	-	*	*	*	*	-	-
Chick peas	9	*	*	-	-	*	*	*	*
Lentils	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-
Soya	*	9	*	-	-	*	*	-	-
Fenugreek	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-
Oil Seeds	1617	-	-	-	-	*	*	11	0.68
Neug	454	-	-	-	-	*	*	11	2.42
Linseed	*	-	-	-	-	*	*	-	-
Ground nuts	336	-	-	-	-	-	-	-	-
Sufflower	*	-	-	-	-	-	-	-	-
Sesame	*	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-	-
Other Grains	*	-	-	-	-	-	-	-	-
Vegetables	102	*	*	*	*	7	6.86	-	-
Lettuce	-	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-	-
Kale	*	-	-	*	*	-	-	-	-
Tomatoes	2	-	-	*	*	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-	-
Red peppers	100	*	*	-	-	7	7	-	-
Swiss chard	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Root Crops	19	*	*	*	*	16	84.21	-	-
Beet root	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-
Onions	*	*	*	-	-	*	*	-	-
Potatoes	16	*	*	*	*	15	93.75	-	-
Garlic	1	-	-	-	-	1	100.00	-	
Taro ('Godere')	-	-	-	-	-	-	-	-	-
Sweet potatoes	*	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-
Permanent Crops	162	12	7.41	31	19.14	28	17.28	*	*
Fruit Crops	113	1	0.88	8	7.08	9	7.96	*	*
Avocado	*	*	*	*	*	*	*	-	-
Bananas	20	*	*	5	25	1	5	*	*
Guava (Zeytuna)	3	*	*	*	*	*	*	-	-
Lemons	2	-	-	*	*	*	*	*	*
Mangoes	69	*	*	2	2.9	3	4.35	*	*
Oranges	4	-	-	*	*	*	*	*	*
Papayas	11	*	*	1	9.09	*	*	-	-
Pineapples	-	-	-	-	-	-	-	-	-
Others	*	*	*	*	*	*	*	-	-
Stimulant Crops	44	11	25	21	47.73	19	43.18	*	*
Chat	*	-	-	*	*	*	*	*	*
Coffee	34	11	32.35	21	61.76	18	52.94	-	-
Hops	*	-	-	*	*	*	*	-	-
Others	-	-	-	-	-	-	-	-	-
Other Permanent Crops	5	-	-	1	20	*	*	-	-
Enset	-	-	-	-	-	-	-	-	-
Sugar Cane	3	-	-	1	33.33	*	*	-	-
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	%
Benshangul-Gumuz	147367	3554	2.41	1225	0.83	23687	16.07	1269	0.86
Metekel Zone	69975	1717	2.45	683	0.98	11867	16.96	1009	1.44
Dangur	7856	283	3.6	8	0.1	1350	17.18	88	1.12
Guba	3152	47	1.49	1	0.03	79	2.51	*	*
Wenbera	11096	210	1.89	605	5.45	4480	40.37	*	*
Mandura	6636	216	3.25	*	*	471	7.1	*	*
Dibate	19725	475	2.41	*	*	2371	12.02	619	3.14
Pawe	13471	432	3.21	17	0.13	1922	14.27	85	0.63
Bulen	8039	54	0.67	*	*	1194	14.85	*	*
Asosa Zone	56404	1015	1.8	465	0.82	7930	14.06	239	0.42
Menge	8405	60	0.71	2	0.02	541	6.44	10	0.12
Kurmak	3179	*	*	*	*	436	13.72	*	*
Asosa	20686	469	2.27	313	1.51	3299	15.95	138	0.67
Sherkole	2117	*	*	*	*	324	15.3	*	*
Bambasi	10976	108	0.98	98	0.89	1591	14.5	24	0.22
Oda Godere	5003	61	1.22	*	*	1052	21.03	*	*
Komesha	2665	97	3.64	12	0.45	255	9.57	*	*
Mao Komo Special	3372	176	5.22	23	0.68	431	12.78	34	1.01
Kemeshi Zone	20988	823	3.92	77	0.37	3890	18.53	20	0.1
Yaso	3240	18	0.56	*	*	355	10.96	*	*
Sirba Abay	2135	34	1.59	*	*	581	27.21	*	*
Kamashi	4639	111	2.39	7	0.15	892	19.23	6	0.13
Agalo Meti	3105	12	0.39	47	1.51	582	18.74	*	*
Belo Jegonfoy	7869	648	8.23	*	*	1479	18.8	*	*

TABLE 6.3.1:RURAL HOLDINGS

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	141716	3302	2.33	1182	0.83	23061	16.27	1074	0.76
Metekel Zone	65466	1481	2.26	654	1	11297	17.26	841	1.28
Dangur	7114	*	*	*	*	1231	17.3	39	0.55
Guba	2980	47	1.58	*	*	79	2.65	*	*
Wenbera	10980	192	1.75	585	5.33	4404	40.11	*	*
Mandura	6502	214	3.29	*	*	461	7.09	*	*
Dibate	19240	454	2.36	*	*	2332	12.12	507	2.64
Pawe	10943	373	3.41	15	0.14	1703	15.56	85	0.78
Bulen	7706	40	0.52	*	*	1087	14.11	*	*
Asosa Zone	55262	999	1.81	451	0.82	7874	14.25	212	0.38
Menge	8363	58	0.69	2	0.02	539	6.45	*	*
Kurmak	3134	*	*	*	*	435	13.88	*	*
Asosa	20203	463	2.29	311	1.54	3277	16.22	123	0.61
Sherkole	2117	*	*	*	*	324	15.3	*	*
Bambasi	10404	102	0.98	86	0.83	1561	15	16	0.15
Oda Godere	5003	61	1.22	*	*	1052	21.03	*	*
Komesha	2665	97	3.64	12	0.45	255	9.57	*	*
Mao Komo Special	3372	176	5.22	23	0.68	431	12.78	34	1.01
Kemeshi Zone	20988	823	3.92	77	0.37	3890	18.53	20	0.1
Yaso	3240	18	0.56	*	*	355	10.96	*	*
Sirba Abay	2135	34	1.59	*	*	581	27.21	*	*
Kamashi	4639	111	2.39	7	0.15	892	19.23	6	0.13
Agalo Meti	3105	12	0.39	47	1.51	582	18.74	*	*
Belo Jegonfoy	7869	648	8.23	*	*	1479	18.8	*	*

TABLE 6.3.2 RURAL MEHER

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	140811	3265	2.32	726	0.52	22730	16.14	1044	0.74
Metekel Zone	65022	1447	2.23	518	0.8	11076	17.03	839	1.29
Dangur	7042	*	*	*	*	1183	16.8	39	0.55
Guba	2980	47	1.58	*	*	79	2.65	*	*
Wenbera	10614	160	1.51	457	4.31	4231	39.86	*	*
Mandura	6502	214	3.29	*	*	461	7.09	*	*
Dibate	19240	454	2.36	*	*	2332	12.12	507	2.64
Pawe	10938	372	3.4	10	0.09	1702	15.56	84	0.77
Bulen	7706	40	0.52	*	*	1087	14.11	*	*
Asosa Zone	54851	997	1.82	174	0.32	7770	14.17	188	0.34
Menge	8362	58	0.69	2	0.02	539	6.45	*	*
Kurmak	3134	*	*	*	*	435	13.88	*	*
Asosa	19979	462	2.31	125	0.63	3199	16.01	110	0.55
Sherkole	2117	*	*	*	*	324	15.3	*	*
Bambasi	10260	102	0.99	13	0.13	1553	15.14	*	*
Oda Godere	4997	61	1.22	*	*	1051	21.03	*	*
Komesha	2655	97	3.65	*	*	251	9.45	*	*
Mao Komo Special	3346	175	5.23	*	*	418	12.49	31	0.93
Kemeshi Zone	20938	821	3.92	33	0.16	3884	18.55	17	0.08
Yaso	3240	18	0.56	*	*	355	10.96	*	*
Sirba Abay	2135	34	1.59	*	*	581	27.21	*	*
Kamashi	4626	110	2.38	1	0.02	892	19.28	6	0.13
Agalo Meti	3068	12	0.39	*	*	576	18.77	-	-
Belo Jegonfoy	7869	648	8.23	*	*	1479	18.8	*	*

TABLE 6.3.3 RURAL BELG

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	905	*	*	456	50.39	331	36.57	30	3.31
Metekel Zone	444	*	*	135	30.41	221	49.77	*	*
Dangur	73	-	-	*	*	48	65.75	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	366	*	*	128	34.97	172	46.99	*	*
Mandura	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-
Pawe	5	*	*	5	100	*	*	*	
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	411	*	*	277	67.4	104	25.3	25	6.08
Menge	*	-	-	*	*	-	-	*	*
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	224	*	*	187	83.48	78	34.82	13	5.8
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	144	-	-	73	50.69	8	5.56	8	5.56
Oda Godere	*	-	-	*	*	*	*	-	-
Komesha	9	*	*	6	66.67	4	44.44	1	11.11
Mao Komo Special	26	*	*	*	*	*	*	*	*
Kemeshi Zone	51	*	*	44	86.27	6	11.76	*	*
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	13	*	*	6	46.15	-	-	-	-
Agalo Meti	37	-	-	37	100.00	6	16.22	*	*
Belo Jegonfoy	-	-	-	-	-	-	-	-	-

TABLE 6.3.4 URBAN HOLDING

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	5651	252	4.46	43	0.76	626	11.08	195	3.45
Metekel Zone	4509	236	5.23	29	0.64	570	12.64	169	3.75
Dangur	742	123	16.58	3	0.4	119	16.04	48	6.47
Guba	172	-	-	*	*	*	*	-	-
Wenbera	116	18	15.52	20	17.24	76	65.52	*	*
Mandura	133	2	1.5	-	-	9	6.77	-	-
Dibate	485	21	4.33	2	0.41	38	7.84	*	*
Pawe	2528	59	2.33	2	0.08	219	8.66	*	*
Bulen	333	13	3.9	*	*	107	32.13	*	*
Asosa Zone	1142	16	1.4	14	1.23	56	4.9	27	2.36
Menge	43	3	6.98	*	*	3	6.98	3	6.98
Kurmak	45	1	2.22	-	-	1	2.22	1	2.22
Asosa	483	*	*	*	*	23	4.76	*	*
Bambasi	572	*	*	12	2.1	30	5.24	*	*

TABLE 6.4 AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Area	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	142109	3397	2.39	470	0.33	22059	15.52	1256	0.88
Metekei Zone	68103	1663	2.44	125	0.18	11232	16.49	1006	1.48
Dangur	7632	279	3.66	*	*	1282	16.8	88	1.15
Guba	3105	47	1.51	-	-	78	2.51	*	*
Wenbera	10176	171	1.68	92	0.9	4149	40.77	*	*
Mandura	6604	216	3.27	*	*	464	7.03	*	*
Dibate	19444	465	2.39	*	*	2239	11.52	619	3.18
Pawe	13210	431	3.26	4	0.03	1859	14.07	84	0.64
Bulen	7931	53	0.67	*	*	1162	14.65	*	*
Asosa Zone	53526	916	1.71	295	0.55	7085	13.24	231	0.43
Menge	8126	59	0.73	*	*	505	6.21	9	0.11
Kurmak	3109	*	*	-	-	423	13.61	*	*
Asosa	19759	394	1.99	191	0.97	2909	14.72	133	0.67
Sherkole	2017	*	*	*	*	296	14.68	*	*
Bambasi	10254	90	0.88	69	0.67	1366	13.32	23	0.22
Oda Godere	4794	61	1.27	*	*	978	20.4	*	*
Komesha	2515	96	3.82	*	*	232	9.22	*	*
Mao Komo Special	2952	174	5.89	19	0.64	375	12.7	34	1.15
Kemeshi Zone	20480	818	3.99	49	0.24	3741	18.27	20	0.1
Yaso	3193	18	0.56	-	-	345	10.8	*	*
Sirba Abay	2081	34	1.63	*	*	544	26.14	*	*
Kamashi	4571	110	2.41	*	*	874	19.12	6	0.13
Agalo Meti	3045	12	0.39	45	1.48	565	18.56	*	*
Belo Jegonfoy	7591	645	8.5	*	*	1414	18.63	*	*

TABLE 6.4.1 RURAL HOLDING

Geographic Area	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	136741	3162	2.31	459	0.34	21484	15.71	1062	0.78
Metekel Zone	63764	1438	2.26	122	0.19	10703	16.79	838	1.31
Dangur	6916	*	*	*	*	1163	16.82	39	0.56
Guba	2946	47	1.6	-	-	78	2.65	*	*
Wenbera	10098	*	*	92	0.91	4104	40.64	*	*
Mandura	6472	214	3.31	*	*	454	7.01	*	*
Dibate	18965	445	2.35	*	*	2202	11.61	507	2.67
Pawe	10747	372	3.46	4	0.04	1641	15.27	84	0.78
Bulen	7620	40	0.52	-	-	1062	13.94	*	*
Asosa Zone	52496	906	1.73	288	0.55	7039	13.41	204	0.39
Menge	8102	56	0.69	*	*	503	6.21	*	*
Kurmak	3064	*	*	-	-	422	13.77	*	*
Asosa	19332	393	2.03	190	0.98	2890	14.95	117	0.61
Sherkole	2017	*	*	*	*	296	14.68	*	*
Bambasi	9720	84	0.86	62	0.64	1343	13.82	15	0.15
Oda Godere	4794	61	1.27	*	*	978	20.4	*	*
Komesha	2515	96	3.82	*	*	232	9.22	*	*
Mao Komo Special	2952	174	5.89	19	0.64	375	12.7	34	1.15
Kemeshi Zone	20480	818	3.99	49	0.24	3741	18.27	20	0.1
Yaso	3193	18	0.56	-	-	345	10.8	*	*
Sirba Abay	2081	34	1.63	*	*	544	26.14	*	*
Kamashi	4571	110	2.41	*	*	874	19.12	6	0.13
Agalo Meti	3045	12	0.39	45	1.48	565	18.56	*	*
Belo Jegonfoy	7591	645	8.5	*	*	1414	18.63	*	*

TABLE 6.4.2 RURAL MEHER

Geographic Area	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	136250	3159	2.32	103	0.08	21342	15.66	1035	0.76
Metekel Zone	63676	1436	2.26	38	0.06	10649	16.72	837	1.31
Dangur	6916	*	*	*	*	1163	16.82	39	0.56
Guba	2946	47	1.6	-	-	78	2.65	*	*
Wenbera	10013	158	1.58	*	*	4050	40.45	*	*
Mandura	6472	214	3.31	*	*	454	7.01	*	*
Dibate	18965	445	2.35	*	*	2202	11.61	507	2.67
Pawe	10744	372	3.46	*	*	1641	15.27	84	0.78
Bulen	7620	40	0.52	-	-	1062	13.94	*	*
Asosa Zone	52137	905	1.74	52	0.1	6958	13.35	181	0.35
Menge	8102	56	0.69	-	-	503	6.21	*	*
Kurmak	3064	*	*	-	-	422	13.77	*	*
Asosa	19132	392	2.05	25	0.13	2829	14.79	106	0.55
Sherkole	2017	*	*	*	*	296	14.68	*	*
Bambasi	9594	84	0.88	*	*	1336	13.93	*	*
Oda Godere	4788	61	1.27	*	*	977	20.41	*	*
Komesha	2514	96	3.82	*	*	231	9.19	*	*
Mao Komo Special	2927	174	5.94	*	*	364	12.44	31	1.06
Kemeshi Zone	20437	818	4	13	0.06	3735	18.28	16	0.08
Yaso	3193	18	0.56	-	-	345	10.8	*	*
Sirba Abay	2081	34	1.63	*	*	544	26.14	*	*
Kamashi	4564	110	2.41	-	-	874	19.15	6	0.13
Agalo Meti	3009	12	0.4	*	*	559	18.58	-	-
Belo Jegonfoy	7591	645	8.5	*	*	1414	18.63	*	*

TABLE 6.4.3 RURAL BELG

Geographic Area	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	491	*	*	356	72.51	142	28.92	27	5.5
Metekel Zone	88	*	*	83	94.32	54	61.36	*	*
Dangur	-	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	85	*	*	80	94.12	*	*	*	*
Mandura	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-
Pawe	3	-	-	3	100	*	*	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	359	*	*	236	65.74	82	22.84	23	6.41
Menge	*	-	-	*	*	-	-	*	*
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	200	*	*	*	*	61	30.5	12	6
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	127	-	-	61	48.03	7	5.51	8	6.3
Oda Godere	*	-	-	*	*	*	*	-	-
Komesha	*	-	-	*	*	*	*	*	*
Mao Komo Special	25	-	-	*	*	*	*	*	*
Kemeshi Zone	43	-	-	37	86.05	6	13.95	*	*
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	7	-	-	*	*	-	-	-	-
Agalo Meti	37	-	-	37	100	6	16.22	*	*
Belo Jegonfoy	-	-	-	-	-	-	-	-	-

TABLE 6.4.4 URBAN HOLDING

Geographic Area	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	5368	235	4.38	11	0.2	575	10.71	194	3.61
Metekel Zone	4339	225	5.19	3	0.07	529	12.19	168	3.87
Dangur	716	120	16.76	*	*	119	16.62	48	6.7
Guba	159	-	-	-	-	-	-	-	-
Wenbera	78	11	14.1	*	*	45	57.69	*	*
Mandura	132	2	1.52	-	-	9	6.82	-	-
Dibate	480	21	4.38	*	*	37	7.71	*	*
Pawe	2463	59	2.4	*	*	218	8.85	-	-
Bulen	312	13	4.17	*	*	100	32.05	-	-
Asosa Zone	1030	10	0.97	*	*	46	4.47	27	2.62
Menge	23	3	13.04	-	-	3	13.04	3	13.04
Kurmak	45	1	2.22	-	-	1	2.22	1	2.22
Asosa	427	*	*	*	*	19	4.45	*	*
Bambasi	534	*	*	*	*	23	4.31	*	*

TABLE 6.5 AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Area	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	107884	3082	2.86	391	0.36	18456	17.11	1184	1.1
Metekel Zone	51213	1411	2.76	122	0.24	9249	18.06	959	1.87
Dangur	6264	269	4.29	*	*	1127	17.99	84	1.34
Guba	2301	24	1.04	-	-	63	2.74	*	*
Wenbera	8478	162	1.91	91	1.07	3606	42.53	*	*
Mandura	6126	206	3.36	*	*	437	7.13	*	*
Dibate	14259	462	3.24	*	*	2126	14.91	614	4.31
Pawe	7782	236	3.03	4	0.05	978	12.57	68	0.87
Bulen	6003	51	0.85	*	*	913	15.21	*	*
Asosa Zone	40509	879	2.17	221	0.55	6112	15.09	210	0.52
Menge	6865	50	0.73	*	*	456	6.64	9	0.13
Kurmak	2566	*	*	-	-	313	12.2	*	*
Asosa	13691	394	2.88	143	1.04	2464	18	128	0.93
Sherkole	1631	*	*	*	*	248	15.21	*	*
Bambasi	7133	83	1.16	45	0.63	1186	16.63	8	0.11
Oda Godere	3858	56	1.45	*	*	869	22.52	*	*
Komesha	2205	91	4.13	*	*	219	9.93	*	*
Mao Komo Special	2559	169	6.6	17	0.66	358	13.99	34	1.33
Kemeshi Zone	16163	792	4.9	48	0.3	3095	19.15	16	0.1
Yaso	2593	16	0.62	-	-	306	11.8	*	*
Sirba Abay	1815	29	1.6	-	-	452	24.9	*	*
Kamashi	4137	105	2.54	-	-	817	19.75	5	0.12
Agalo Meti	2779	10	0.36	44	1.58	493	17.74	*	*
Belo Jegonfoy	4840	632	13.06	*	*	1026	21.2	*	*

TABLE 6.5.1 RURAL HOLDINGS

Geographic Area	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	104321	2860	2.74	381	0.37	17971	17.23	1001	0.96
Metekel Zone	48454	1199	2.47	119	0.25	8807	18.18	795	1.64
Dangur	5811	*	*	-	-	1014	17.45	36	0.62
Guba	2159	24	1.11	-	-	63	2.92	*	*
Wenbera	8432	*	*	91	1.08	3574	42.39	*	*
Mandura	6002	205	3.42	*	*	429	7.15	*	*
Dibate	13858	442	3.19	*	*	2089	15.07	502	3.62
Pawe	6428	177	2.75	4	0.06	826	12.85	68	1.06
Bulen	5764	38	0.66	-	-	813	14.1	*	*
Asosa Zone	39704	869	2.19	214	0.54	6069	15.29	191	0.48
Menge	6845	47	0.69	*	*	454	6.63	*	*
Kurmak	2533	*	*	-	-	312	12.32	*	*
Asosa	13319	393	2.95	143	1.07	2445	18.36	113	0.85
Sherkole	1631	*	*	*	*	248	15.21	*	*
Bambasi	6754	77	1.14	39	0.58	1165	17.25	8	0.12
Oda Godere	3858	56	1.45	*	*	869	22.52	*	*
Komesha	2205	91	4.13	*	*	219	9.93	*	*
Mao Komo Special	2559	169	6.6	17	0.66	358	13.99	34	1.33
Kemeshi Zone	16163	792	4.9	48	0.3	3095	19.15	16	0.1
Yaso	2593	16	0.62	-	-	306	11.8	*	*
Sirba Abay	1815	29	1.6	-	-	452	24.9	*	*
Kamashi	4137	105	2.54	-	-	817	19.75	5	0.12
Agalo Meti	2779	10	0.36	44	1.58	493	17.74	*	*
Belo Jegonfoy	4840	632	13.06	*	*	1026	21.2	*	*

TABLE 6.5.2 RURAL MEHER

Geographic Area	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	103942	2856	2.75	96	0.09	17851	17.17	974	0.94
Metekel Zone	48366	1196	2.47	35	0.07	8753	18.1	794	1.64
Dangur	5811	*	*	-	-	1014	17.45	36	0.62
Guba	2159	24	1.11	-	-	63	2.92	*	*
Wenbera	8347	*	*	*	*	3520	42.17	*	*
Mandura	6002	205	3.42	*	*	429	7.15	*	*
Dibate	13858	442	3.19	*	*	2089	15.07	502	3.62
Pawe	6425	177	2.75	*	*	826	12.86	68	1.06
Bulen	5764	38	0.66	-	-	813	14.1	*	*
Asosa Zone	39456	868	2.2	49	0.12	6009	15.23	169	0.43
Menge	6845	47	0.69	-	-	454	6.63	*	*
Kurmak	2533	*	*	-	-	312	12.32	*	*
Asosa	13176	392	2.98	23	0.17	2401	18.22	102	0.77
Sherkole	1631	*	*	*	*	248	15.21	*	*
Bambasi	6673	77	1.15	*	*	1159	17.37	-	-
Oda Godere	3852	56	1.45	*	*	868	22.53	*	*
Komesha	2204	91	4.13	*	*	218	9.89	*	*
Mao Komo Special	2542	169	6.65	*	*	349	13.73	31	1.22
Kemeshi Zone	16121	792	4.91	12	0.07	3089	19.16	12	0.07
Yaso	2593	16	0.62	-	-	306	11.8	*	*
Sirba Abay	1815	29	1.6	-	-	452	24.9	*	*
Kamashi	4130	105	2.54	-	-	817	19.78	5	0.12
Agalo Meti	2743	10	0.36	*	*	488	17.79	-	-
Belo Jegonfoy	4840	632	13.06	*	*	1026	21.2	*	*

TABLE 6.5.2a Teff

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	10737	*	*	*	*	3281	30.56	207	1.93
Metekel Zone	6649	*	*	-	-	2581	38.82	195	2.93
Dangur	859	-	-	-	-	431	50.17	*	*
Guba	-	-	-	-	-	-	-	-	-
Wenbera	3180	*	*	-	-	2033	63.93	*	*
Mandura	71	*	*	-	-	*	*	-	-
Dibate	2139	-	-	-	-	65	3.04	161	7.53
Pawe	-	-	-	-	-	-	-	-	-
Bulen	399	-	-	-	-	*	*	*	*
Asosa Zone	3317	*	*	*	*	481	14.5	*	*
Menge	25	-	-	-	-	*	*	-	-
Kurmak	*	-	-	-	-	-	-	-	-
Asosa	2400	*	*	-	-	452	18.83	*	*
Sherkole	2	-	-	-	-	*	*	-	-
Bambasi	388	-	-	-	-	9	2.32	-	-
Oda Godere	107	-	-	-	-	*	*	*	*
Komesha	*	-	-	-	-	*	*	-	-
Mao Komo Special	375	-	-	*	*	*	*	*	*
Kemeshi Zone	770	*	*	-	-	219	28.44	-	-
Yaso	357	*	*	-	-	33	9.24	-	-
Sirba Abay	*	-	-	-	-	*	*	-	-
Kamashi	235	-	-	-	-	137	58.3	-	-
Agalo Meti	144	-	-	-	-	45	31.25	-	-
Belo Jegonfoy	14	-	-	-	-	-	-	-	-

TABLE 6.5.2b Barley

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	1047	*	*	-	-	360	34.38	-	-
Metekel Zone	977	*	*	-	-	357	36.54	-	-
Dangur	136	-	-	-	-	87	63.97	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	528	-	-	-	-	268	50.76	-	-
Mandura	*	-	-	-	-	-	-	-	-
Dibate	*	-	-	-	-	-	-	-	-
Pawe	*	*	*	-	-	*	*	-	-
Bulen	*	-	-	-	-	*	*	-	-
Asosa Zone	69	-	-	-	-	*	*	-	-
Menge	*	-	-	-	-	-	-	-	-
Kurmak	*	-	-	-	-	*	*	-	-
Asosa	*	-	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	*	-	-	-	-	-	-	-	-
Oda Godere	*	-	-	-	-	*	*	-	-
Komesha	-	-	-	-	-	-	-	-	-
Mao Komo Special	67	-	-	-	-	*	*	-	-
Kemeshi Zone	*	-	-	-	-	*	*	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	*	-	-	-	-	*	*	-	-
Belo Jegonfoy	*	-	-	-	-	*	*	-	-

TABLE 6.5.2c Wheat

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	891	*	*	-	-	416	46.69	*	*
Metekel Zone	740	*	*	-	-	410	55.41	-	-
Dangur	8	-	-	-	-	*	*	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	708	*	*	-	-	407	57.49	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	*	-	-	-	-	*	*	-	-
Pawe	*	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	152	-	-	-	-	*	*	*	*
Menge	*	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	*	-	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	*	-	-	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-	-	-
Mao Komo Special	144	-	-	-	-	*	*	*	*
Kemeshi Zone	-	-	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-	-

TABLE 6.5.2d Maize

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	20482	2530	12.35	62	0.3	8223	40.15	136	0.66
Metekel Zone	5339	949	17.77	28	0.52	3061	57.33	41	0.77
Dangur	704	*	*	-	-	322	45.74	*	*
Guba	20	*	*	-	-	*	*	-	-
Wenbera	598	*	*	*	*	430	71.91	-	-
Mandura	434	70	16.13	-	-	238	54.84	*	*
Dibate	1959	435	22.21	*	*	1207	61.61	*	*
Pawe	976	134	13.73	*	*	547	56.05	*	*
Bulen	648	31	4.78	-	-	316	48.77	*	*
Asosa Zone	9855	823	8.35	29	0.29	3524	35.76	86	0.87
Menge	1423	35	2.46	-	-	293	20.59	-	-
Kurmak	162	*	*	-	-	51	31.48	*	*
Asosa	2605	388	14.89	*	*	1294	49.67	*	*
Sherkole	40	*	*	*	*	11	27.5	-	-
Bambasi	2591	75	2.89	*	*	887	34.23	-	-
Oda Godere	1341	39	2.91	-	-	517	38.55	*	*
Komesha	722	91	12.6	*	*	179	24.79	*	*
Mao Komo Special	971	168	17.3	*	*	293	30.18	*	*
Kemeshi Zone	5289	758	14.33	*	*	1637	30.95	9	0.17
Yaso	796	11	1.38	-	-	204	25.63	-	-
Sirba Abay	265	22	8.3	-	-	118	44.53	*	*
Kamashi	1088	95	8.73	-	-	407	37.41	3	0.28
Agalo Meti	635	-	-	*	*	136	21.42	-	-
Belo Jegonfoy	2505	630	25.15	*	*	773	30.86	*	*

TABLE 6.5.2e Sorghum

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	52375	139	0.27	*	*	3790	7.24	124	0.24
Metekel Zone	18158	65	0.36	*	*	778	4.28	58	0.32
Dangur	3453	*	*	-	-	*	*	*	*
Guba	2139	24	1.12	-	-	63	2.95	*	*
Wenbera	3280	*	*	*	*	*	*	-	-
Mandura	2575	*	*	-	-	59	2.29	*	*
Dibate	2916	-	-	-	-	70	2.4	-	-
Pawe	1822	*	*	-	-	18	0.99	*	*
Bulen	1973	*	*	-	-	*	*	-	-
Asosa Zone	25011	40	0.16	*	*	1934	7.73	63	0.25.0
Menge	5395	*	*	-	-	161	2.98	*	*
Kurmak	2366	-	-	-	-	261	11.03	*	*
Asosa	7689	-	-	*	*	646	8.4	35	0.46
Sherkole	1588	*	*	*	*	236	14.86	*	*
Bambasi	3287	*	*	-	-	220	6.69	-	-
Oda Godere	2388	17	0.71	*	*	342	14.32	-	-
Komesha	1452	*	*	-	-	38	2.62	*	*
Mao Komo Special	845	*	*	*	*	30	3.55	-	-
Kemeshi Zone	9207	33	0.36	*	*	1078	11.71	3	0.03
Yaso	1057	4	0.38	-	-	50	4.73	*	*
Sirba Abay	1529	*	*	-	-	329	21.52	-	-
Kamashi	2570	10	0.39	-	-	155	6.03	*	*
Agalo Meti	1922	10	0.52	*	*	301	15.66	-	-
Belo Jegonfoy	2128	*	*	-	-	244	11.47	-	-

TABLE 6.5.2f Finger Millet

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	17279	142	0.82	*	*	1699	9.83	495	2.86
Metekel Zone	15380	137	0.89	*	*	1489	9.68	492	3.2
Dangur	569	*	*	-	-	*	*	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	*	-	-	-	-	-	-	-	-
Mandura	2739	107	3.91	*	*	128	4.67	*	*
Dibate	6653	*	*	-	-	745	11.2	326	4.9
Pawe	2650	*	*	-	-	192	7.25	48	1.81
Bulen	2731	*	*	-	-	*	*	*	*
Asosa Zone	1049	*	*	*	*	59	5.62	*	*
Menge	*	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	481	*	*	*	*	*	*	*	*
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	401	-	-	-	-	43	10.72	-	-
Oda Godere	12	-	-	-	-	*	*	-	-
Komesha	14	-	-	-	-	-	-	-	-
Mao Komo Special	140	*	*	-	-	*	*	*	*
Kemeshi Zone	851	1	0.12	-	-	151	17.74	-	-
Yaso	383	1	0.26	-	-	20	5.22	-	-
Sirba Abay	*	-	-	-	-	*	*	-	-
Kamashi	235	-	-	-	-	116	49.36	-	-
Agalo Meti	42	-	-	-	-	*	*	-	-
Belo Jegonfoy	191	-	-	-	-	9	4.71	-	-

TABLE 6.5.2g Oats

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	28	-	-	-	-	9	32.14	-	-
Metekel Zone	20	-	-	-	-	*	*	-	-
Dangur	-	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	17	-	-	-	-	*	*	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	*	-	-	-	-	-	-	-	-
Pawe	*	-	-	-	-	-	-	-	-
Bulen	*	-	-	-	-	*	*	-	-
Asosa Zone	4	-	-	-	-	2	50	-	-
Menge	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	*	-	-	-	-	*	*	-	-
Sherkole	*	-	-	-	-	*	*	-	-
Bambasi	-	-	-	-	-	-	-	-	-
Oda Godere	2	-	-	-	-	*	*	-	-
Komesha	1	-	-	-	-	*	*	-	-
Mao Komo Special	-	-	-	-	-	-	-	-	-
Kemeshi Zone	3	-	-	-	-	2	66.67	-	-
Yaso	*	-	-	-	-	-	-	-	-
Sirba Abay	*	-	-	-	-	*	*	-	-
Kamashi	*	-	-	-	-	*	*	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	*	-	-	-	-	-	-	-	-

TABLE 6.5.2h Rice

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	1103	23	2.09	-	-	72	6.53	*	*
Metekel Zone	1103	23	2.09	-	-	72	6.53	*	*
Dangur	*	-	-	-	-	*	*	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	50	-	-	-	-	*	*	-	-
Pawe	971	23	2.37	-	-	68	7	*	*
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	-	-	-	-	-	-	-	-	-
Menge	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	-	-	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-	-

TABLE 6.5.3 RURAL BELG

Geographic Area	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	379	*	*	285	75.2	120	31.66	27	7.12
Metekel Zone	88	*	*	83	94.32	54	61.36	*	*
Dangur	-	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	85	*	*	80	94.12	*	*	*	*
Mandura	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-
Pawe	3	-	-	3	100	*	*	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	248	*	*	166	66.94	60	24.19	22	8.87
Menge	*	-	-	*	*	-	-	*	*
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	143	*	*	119	83.22	45	31.47	11	7.69
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	81	-	-	38	46.91	6	7.41	8	9.88
Oda Godere	*	-	-	*	*	*	*	-	-
Komesha	*	-	-	*	*	*	*	*	*
Mao Komo Special	17	-	-	*	*	*	*	*	*
Kemeshi Zone	42	-	-	36	85.71	6	14.29	*	*
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	7	-	-	-	-	-	-	-	-
Agalo Meti	36	-	-	36	100	6	16.67	*	*
Belo Jegonfoy	-	-	-	-	-	-	-	-	-

TABLE 6.5.4 URBAN HOLDINGS

Geographic Area	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	3563	223	6.26	11	0.31	485	13.61	183	5.14
Metekel Zone	2759	213	7.72	3	0.11	442	16.02	164	5.94
Dangur	453	111	24.5	*	*	113	24.94	48	10.6
Guba	142	-	-	-	-	-	-	-	-
Wenbera	46	*	*	*	*	32	69.57	*	*
Mandura	124	2	1.61	-	-	8	6.45	-	-
Dibate	401	21	5.24	*	*	37	9.23	*	*
Pawe	1355	59	4.35	*	*	151	11.14	-	-
Bulen	238	13	5.46	*	*	100	42.02	-	-
Asosa Zone	804	10	1.24	*	*	43	5.35	*	*
Menge	20	3	15	-	-	3	15	3	15
Kurmak	33	1	3.03	-	-	1	3.03	1	3.03
Asosa	373	*	*	*	*	19	5.09	*	*
Bambasi	379	*	*	*	*	21	5.54	-	-

TABLE 6.6: AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

Geographic Area	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	6969	197	2.83	70	1	1656	23.76	*	*
Metekel Zone	4482	178	3.97	*	*	1291	28.8	*	*
Dangur	452	9	1.99	*	*	115	25.44	*	*
Guba	241	10	4.15	-	-	6	2.49	-	-
Wenbera	1009	*	*	*	*	409	40.54	-	-
Mandura	106	*	*	*	*	7	6.6	-	-
Dibate	1581	*	*	*	*	52	3.29	-	-
Pawe	868	147	16.94	-	-	683	78.69	*	*
Bulen	225	*	*	-	-	19	8.44	-	-
Asosa Zone	2079	15	0.72	66	3.17	243	11.69	*	*
Menge	287	*	*	-	-	17	5.92	-	-
Kurmak	211	-	-	-	-	53	25.12	-	-
Asosa	780	*	*	*	*	72	9.23	*	*
Sherkole	57	*	*	-	-	2	3.51	-	-
Bambasi	409	*	*	19	4.65	56	13.69	*	*
Oda Godere	98	*	*	-	-	21	21.43	-	-
Komesha	75	*	*	*	*	9	12	-	-
Mao Komo Special	161	*	*	*	*	12	7.45	-	-
Kemeshi Zone	408	4	0.98	*	*	121	29.66	*	*
Yaso	49	*	*	-	-	20	40.82	-	-
Sirba Abay	85	*	*	-	-	33	38.82	-	-
Kamashi	116	1	0.86	-	-	31	26.72	*	*
Agalo Meti	83	1	1.2	*	*	29	34.94	-	-
Belo Jegonfoy	75	*	*	-	-	8	10.67	-	-

TABLE 6.6.1 RURAL HOLDINGS

Geographic Area	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	6790	185	2.72	70	1.03	1571	23.14	*	*
Metekel Zone	4334	166	3.83	*	*	1208	27.87	*	*
Dangur	437	*	*	*	*	110	25.17	*	*
Guba	241	10	4.15	-	-	6	2.49	-	-
Wenbera	992	*	*	*	*	400	40.32	-	-
Mandura	105	6	5.71	*	*	*	*	-	-
Dibate	1535	*	*	*	*	52	3.39	-	-
Pawe	801	147	18.35	-	-	616	76.9	*	*
Bulen	224	*	*	-	-	19	8.48	-	-
Asosa Zone	2048	15	0.73	66	3.22	241	11.77	*	*
Menge	285	*	*	-	-	17	5.96	-	-
Kurmak	208	-	-	-	-	53	25.48	-	-
Asosa	776	*	*	*	*	72	9.28	*	*
Sherkole	57	*	*	-	-	2	3.51	-	-
Bambasi	387	*	*	19	4.91	54	13.95	*	*
Oda Godere	98	*	*	-	-	21	21.43	-	-
Komesha	75	*	*	*	*	9	12	-	-
Mao Komo Special	161	*	*	*	*	12	7.45	-	-
Kemeshi Zone	408	4	0.98	*	*	121	29.66	*	*
Yaso	49	*	*	-	-	20	40.82	-	-
Sirba Abay	85	*	*	-	-	33	38.82	-	-
Kamashi	116	1	0.86	-	-	31	26.72	*	*
Agalo Meti	83	1	1.2	*	*	29	34.94	-	-
Belo Jegonfoy	75	*	*	-	-	8	10.67	-	-

TABLE 6.6.2 RURAL MEHER

Geographic Area	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	6684	185	2.77	*	*	1549	23.17	*	*
Metekel Zone	4334	166	3.83	*	*	1208	27.87	*	*
Dangur	437	*	*	*	*	110	25.17	*	*
Guba	241	10	4.15	-	-	6	2.49	-	-
Wenbera	992	*	*	*	*	400	40.32	-	-
Mandura	105	6	5.71	*	*	*	*	-	-
Dibate	1535	*	*	*	*	52	3.39	-	-
Pawe	801	147	18.35	-	-	616	76.9	*	*
Bulen	224	*	*	-	-	19	8.48	-	-
Asosa Zone	1944	15	0.77	*	*	220	11.32	-	-
Menge	285	*	*	-	-	17	5.96	-	-
Kurmak	208	-	-	-	-	53	25.48	-	-
Asosa	719	-	-	*	*	56	7.79	-	-
Sherkole	57	*	*	-	-	2	3.51	-	-
Bambasi	348	*	*	-	-	52	14.94	-	-
Oda Godere	98	*	*	-	-	21	21.43	-	-
Komesha	75	*	*	-	-	9	12	-	-
Mao Komo Special	154	*	*	-	-	*	*	-	-
Kemeshi Zone	407	4	0.98	-	-	121	29.73	*	*
Yaso	49	*	*	-	-	20	40.82	-	-
Sirba Abay	85	*	*	-	-	33	38.82	-	-
Kamashi	116	1	0.86	-	-	31	26.72	*	*
Agalo Meti	82	1	1.22	-	-	29	35.37	-	-
Belo Jegonfoy	75	*	*	-	-	8	10.67	-	-

TABLE 6.6.2a Horse beans

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	583	*	*	-	-	241	41.34	*	*
Metekel Zone	516	*	*	-	-	237	45.93	*	*
Dangur	180	-	-	-	-	67	37.22	*	*
Guba	-	-	-	-	-	-	-	-	-
Wenbera	282	*	*	-	-	157	55.67	-	-
Mandura	*	-	-	-	-	-	-	-	-
Dibate	30	-	-	-	-	*	*	-	-
Pawe	*	-	-	-	-	-	-	-	-
Bulen	*	*	*	-	-	*	*	-	-
Asosa Zone	66	*	*	-	-	*	*	-	-
Menge	-	-	-	-	-	-	-	-	-
Kurmak	*	-	-	-	-	-	-	-	-
Asosa	*	-	-	-	-	*	*	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	*	-	-	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-	-	-
Mao Komo Special	63	*	*	-	-	*	*	-	-
Kemeshi Zone	*	-	-	-	-	*	*	-	-
Yaso	*	-	-	-	-	*	*	-	-
Sirba Abay	*	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-	-

TABLE 6.6.2b Field peas

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	719	-	-	-	-	256	35.61	-	-
Metekel Zone	709	*	*	-	-	253	35.68	-	-
Dangur	155	-	-	-	-	35	22.58	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	552	-	-	-	-	217	39.31	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	*	*	*	-	-	*	*	-	-
Pawe	-	-	-	-	-	-	-	-	-
Bulen	*	-	-	-	-	*	*	-	-
Asosa Zone	9	*	*	-	-	*	*	-	-
Menge	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	*	-	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	*	*	*	-	-	*	*	-	-
Oda Godere	*	-	-	-	-	*	*	-	-
Komesha	-	-	-	-	-	-	-	-	-
Mao Komo Special	*	-	-	-	-	*	*	-	-
Kemeshi Zone	*	-	-	-	-	*	*	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	*	-	-	-	-	*	*	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-	-

TABLE 6.6.2C Haricot beans

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	3779	43	1.14	*	*	347	9.18	*	*
Metekel Zone	2102	25	1.19	*	*	64	3.04	-	-
Dangur	18	*	*	*	*	*	*	-	-
Guba	241	10	4.15	-	-	6	2.49	-	-
Wenbera	107	-	-	*	*	*	*	-	-
Mandura	102	6	5.88	*	*	*	*	-	-
Dibate	1408	-	-	-	-	*	*	-	-
Pawe	27	*	*	-	-	*	*	-	-
Bulen	199	*	*	-	-	*	*	-	-
Asosa Zone	1288	14	1.09	-	-	167	12.97	-	-
Menge	284	*	*	-	-	17	5.99	-	-
Kurmak	186	-	-	-	-	52	27.96	-	-
Asosa	377	-	-	-	-	45	11.94	-	-
Sherkole	56	*	*	-	-	2	3.57	-	-
Bambasi	134	*	*	-	-	*	*	-	-
Oda Godere	96	*	*	-	-	19	19.79	-	-
Komesha	75	*	*	-	-	9	12	-	-
Mao Komo Special	80	*	*	-	-	*	*	-	-
Kemeshi Zone	389	4	1.03	-	-	115	29.56	*	*
Yaso	34	*	*	-	-	14	41.18	-	-
Sirba Abay	82	*	*	-	-	33	40.24	-	-
Kamashi	116	1	0.86	-	-	31	26.72	*	*
Agalo Meti	81	1	1.23	-	-	29	35.8	-	-
Belo Jegonfoy	75	*	*	-	-	8	10.67	-	-

TABLE 6.6.2d Chick peas

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	368	*	*	*	*	46	12.5	-	-
Metekel Zone	202	*	*	*	*	11	5.45	-	-
Dangur	*	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	92	-	-	*	*	11	11.96	-	-
Pawe	51	*	*	-	-	-	-	-	-
Bulen	*	-	-	-	-	*	*	-	-
Asosa Zone	152	-	-	*	*	29	19.08	-	-
Menge	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	*	-	-	*	*	*	*	-	-
Sherkole	*	-	-	-	-	*	*	-	-
Bambasi	94	-	-	-	-	*	*	-	-
Oda Godere	*	-	-	-	-	*	*	-	-
Komesha	*	-	-	-	-	*	*	-	-
Mao Komo Special	*	-	-	-	-	-	-	-	-
Kemeshi Zone	14	-	-	-	-	5	35.71	-	-
Yaso	14	-	-	-	-	5	35.71	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-	-

TABLE 6.6.2e Lentils

Geographic Area	Lentils								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	42	-	-	-	-	17	40.48	-	-
Metekel Zone	39	-	-	*	*	17	43.59	-	-
Dangur	*	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	37	-	-	*	*	17	45.95	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	*	-	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-	-	-
Bulen	*	-	-	-	-	*	*	-	-
Asosa Zone	*	-	-	-	-	-	-	-	-
Menge	*	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	*	-	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-	-

TABLE 6.6.2f Vetch

Geographic Area	Vetch								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	20	-	-	-	-	2	10	-	-
Metekel Zone	-	-	-	-	-	-	-	-	-
Dangur	-	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	20	-	-	-	-	2	10	-	-
Menge	-	-	-	-	-	-	-	-	-
Kurmak	*	-	-	-	-	*	*	-	-
Asosa	*	-	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	*	-	-	-	-	*	*	-	-
Oda Godere	*	-	-	-	-	*	*	-	-
Komesha	-	-	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-	-

TABLE 6.6.2g Soya beans

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	1132	140	12.37	-	-	630	55.65	*	*
Metekel Zone	737	140	19	-	-	617	83.72	*	*
Dangur	*	-	-	-	-	*	*	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	*	*	*	-	-	*	*	-	-
Pawe	709	138	19.46	-	-	607	85.61	*	*
Bulen	*	-	-	-	-	*	*	-	-
Asosa Zone	394	*	*	*	*	13	3.3	-	-
Menge	*	-	-	-	-	-	-	-	-
Kurmak	7	-	-	-	-	*	*	-	-
Asosa	276	-	-	*	*	*	*	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	111	*	*	-	-	*	*	-	-
Oda Godere	-	-	-	-	-	-	-	-	-
Komesha	*	-	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-	-	-
Kemeshi Zone	*	-	-	-	-	*	*	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	*	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	*	-	-	-	-	*	*	-	-

TABLE 6.6.2h Gibto

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	36	-	-	-	-	*	*	-	-
Metekel Zone	25	-	-	-	-	*	*	-	-
Dangur	-	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	14	-	-	-	-	*	*	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-
Pawe	*	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	*	-	-	-	-	*	*	-	-
Menge	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	*	-	-	-	-	-	-	-	-
Sherkole	*	-	-	-	-	-	-	-	-
Bambasi	*	-	-	-	-	*	*	-	-
Oda Godere	-	-	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-	-	-
Kemeshi Zone	*	-	-	-	-	*	*	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	*	-	-	-	-	*	*	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	*	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-	-

TABLE 6.6.3 RURAL BELG

Geographic Area	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	105	*	*	67	63.81	21	20	*	*
Metekel Zone	*	-	-	*	*	*	*	-	-
Dangur	-	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	*	-	-	*	*	*	*	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	104	*	*	66	63.46	21	20.19	*	*
Menge	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	58	*	*	*	*	16	27.59	*	*
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	39	-	-	19	48.72	*	*	*	*
Oda Godere	-	-	-	-	-	-	-	-	-
Komesha	*	-	-	*	*	*	*	-	-
Mao Komo Special	7	-	-	*	*	*	*	-	-
Kemeshi Zone	*	-	-	*	*	-	-	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	*	-	-	*	*	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-	-

TABLE 6.6.4 URBAN HOLDINGS

Geographic Area	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	179	12	6.7	*	*	*	*	*	*
Metekel Zone	148	12	8.11	-	-	*	*	-	-
Dangur	15	9	60	-	-	*	*	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	17	*	*	-	-	9	52.94	-	-
Mandura	2	-	-	-	-	2	100	-	-
Dibate	46	-	-	-	-	-	-	-	-
Pawe	*	-	-	-	-	*	*	-	-
Bulen	*	-	-	-	-	-	-	-	-
Asosa Zone	31	-	-	*	*	*	*	*	*
Menge	2	-	-	-	-	-	-	-	-
Kurmak	3	-	-	-	-	-	-	-	-
Asosa	*	-	-	*	*	*	*	-	-
Bambasi	22	-	-	-	-	*	*	*	*

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	%
Benshangul-Gumuz	26861	116	0.43	4	0.01	1910	7.11	61	0.23
Metekel Zone	12244	73	0.6	*	*	679	5.55	37	0.3
Dangur	902	*	*	*	*	*	*	-	-
Guba	562	13	2.31	-	-	9	1.6	-	-
Wenbera	688	*	*	-	-	132	19.19	*	*
Mandura	338	*	*	*	*	*	*	*	*
Dibate	3543	*	*	-	-	*	*	*	*
Pawe	4548	*	*	*	*	197	4.33	*	*
Bulen	1663	*	*	-	-	*	*	-	-
Asosa Zone	10789	21	0.19	3	0.03	713	6.61	20	0.19
Menge	945	*	*	-	-	32	3.39	-	-
Kurmak	326	*	*	-	-	57	17.48	-	-
Asosa	5271	-	-	*	*	370	7.02	*	*
Sherkole	284	*	*	*	*	39	13.73	-	-
Bambasi	2687	*	*	*	*	119	4.43	15	0.56
Oda Godere	835	*	*	*	*	88	10.54	-	-
Komesha	231	5	2.16	-	-	4	1.73	*	*
Mao Komo Special	208	*	*	*	*	5	2.4	*	*
Kemeshi Zone	3828	22	0.57	*	*	518	13.53	*	*
Yaso	517	1	0.19	-	-	18	3.48	*	*
Sirba Abay	180	*	*	*	*	57	31.67	-	-
Kamashi	292	4	1.37	*	*	26	8.9	-	-
Agalo Meti	168	*	*	-	-	37	22.02	-	-
Belo Jegonfoy	2671	11	0.41	-	-	380	14.23	*	*

TABLE 6.7.1 RURAL HOLDINGS

Geographic Area	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	25244	116	0.46	4	0.02	1906	7.55	50	0.2
Metekel Zone	10819	73	0.67	*	*	675	6.24	*	*
Dangur	654	*	*	*	*	*	*	-	-
Guba	545	13	2.39	-	-	9	1.65	-	-
Wenbera	673	*	*	-	-	129	19.17	-	-
Mandura	333	*	*	*	*	*	*	*	*
Dibate	3510	*	*	-	-	*	*	*	*
Pawe	3507	*	*	*	*	197	5.62	*	*
Bulen	1597	*	*	-	-	*	*	-	-
Asosa Zone	10597	21	0.2	3	0.03	713	6.73	*	*
Menge	943	*	*	-	-	32	3.39	-	-
Kurmak	318	*	*	-	-	57	17.92	-	-
Asosa	5220	-	-	*	*	369	7.07	*	*
Sherkole	284	*	*	*	*	39	13.73	-	-
Bambasi	2557	*	*	*	*	119	4.65	*	*
Oda Godere	835	*	*	*	*	88	10.54	-	-
Komesha	231	5	2.16	-	-	4	1.73	*	*
Mao Komo Special	208	*	*	*	*	5	2.4	*	*
Kemeshi Zone	3828	22	0.57	*	*	518	13.53	*	*
Yaso	517	1	0.19	-	-	18	3.48	*	*
Sirba Abay	180	*	*	*	*	57	31.67	-	-
Kamashi	292	4	1.37	*	*	26	8.9	-	-
Agalo Meti	168	*	*	-	-	37	22.02	-	-
Belo Jegonfoy	2671	11	0.41	-	-	380	14.23	*	*

TABLE 6.7.2 RURAL MEHER

Geographic Area	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	25244	116	0.46	3	0.01	1905	7.55	50	0.2
Metekel Zone	10819	73	0.67	*	*	675	6.24	*	*
Dangur	654	*	*	*	*	*	*	-	-
Guba	545	13	2.39	-	-	9	1.65	-	-
Wenbera	673	*	*	-	-	129	19.17	-	-
Mandura	333	*	*	*	*	*	*	*	*
Dibate	3510	*	*	-	-	*	*	*	*
Pawe	3507	*	*	*	*	197	5.62	*	*
Bulen	1597	*	*	-	-	*	*	-	-
Asosa Zone	10597	21	0.2	3	0.03	712	6.72	*	*
Menge	943	*	*	-	-	32	3.39	-	-
Kurmak	318	*	*	-	-	57	17.92	-	-
Asosa	5220	-	-	*	*	369	7.07	*	*
Sherkole	284	*	*	*	*	39	13.73	-	-
Bambasi	2557	*	*	*	*	119	4.65	*	*
Oda Godere	835	*	*	*	*	88	10.54	-	-
Komesha	231	5	2.16	-	-	4	1.73	*	*
Mao Komo Special	208	*	*	-	-	5	2.4	*	*
Kemeshi Zone	3828	22	0.57	*	*	518	13.53	*	*
Yaso	517	1	0.19	-	-	18	3.48	*	*
Sirba Abay	180	*	*	*	*	57	31.67	-	-
Kamashi	292	4	1.37	-	-	26	8.9	-	-
Agalo Meti	168	*	*	-	-	37	22.02	-	-
Belo Jegonfoy	2671	11	0.41	-	-	380	14.23	*	*

TABLE 6.7.2a Nueg

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	13433	*	*	*	*	849	6.32	*	*
Metekel Zone	5874	*	*	*	*	395	6.72	*	*
Dangur	34	*	*	-	-	*	*	-	-
Guba	65	*	*	-	-	*	*	-	-
Wenbera	495	*	*	-	-	98	19.8	-	-
Mandura	252	-	-	-	-	*	*	*	*
Dibate	3229	-	-	-	-	*	*	*	*
Pawe	325	*	*	*	*	*	*	-	-
Bulen	1474	-	-	-	-	*	*	-	-
Asosa Zone	7048	-	-	-	-	403	5.72	*	*
Menge	89	-	-	-	-	*	*	-	-
Kurmak	51	-	-	-	-	*	*	-	-
Asosa	4599	-	-	-	-	336	7.31	*	*
Sherkole	10	-	-	-	-	3	30	-	-
Bambasi	2082	-	-	-	-	59	2.83	*	*
Oda Godere	19	-	-	-	-	*	*	-	-
Komesha	142	-	-	-	-	*	*	*	*
Mao Komo Special	56	-	-	-	-	*	*	-	-
Kemeshi Zone	510	*	*	-	-	51	10	*	*
Yaso	163	-	-	-	-	7	4.29	-	-
Sirba Abay	*	-	-	-	-	*	*	-	-
Kamashi	113	*	*	-	-	18	15.93	-	-
Agalo Meti	18	-	-	-	-	*	*	-	-
Belo Jegonfoy	215	-	-	-	-	24	11.16	*	*

TABLE 6.7.2b Linseed

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	200	-	-	*	*	23	11.5	*	*
Metekel Zone	93	-	-	-	-	11	11.83	-	-
Dangur	18	-	-	-	-	*	*	-	-
Guba	*	-	-	-	-	-	-	-	-
Wenbera	65	-	-	-	-	9	13.85	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	8	-	-	-	-	-	-	-	-
Pawe	*	-	-	-	-	-	-	-	-
Bulen	*	-	-	-	-	*	*	-	-
Asosa Zone	99	-	-	*	*	8	8.08	*	*
Menge	*	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	49	-	-	*	*	*	*	-	-
Sherkole	*	-	-	-	-	-	-	-	-
Bambasi	24	-	-	-	-	*	*	-	-
Oda Godere	*	-	-	-	-	*	*	-	-
Komesha	3	-	-	-	-	*	*	-	-
Mao Komo Special	17	-	-	-	-	*	*	*	*
Kemeshi Zone	8	-	-	-	-	*	*	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	*	-	-	-	-	-	-	-	-
Agalo Meti	*	-	-	-	-	-	-	-	-
Belo Jegonfoy	7	-	-	-	-	*	*	-	-

TABLE 6.7.2C Groundnuts

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	2388	*	*	*	*	44	1.84	*	*
Metekel Zone	1917	*	*	-	-	28	1.46	*	*
Dangur	*	-	-	-	-	*	*	-	-
Guba	10	-	-	-	-	*	*	-	-
Wenbera	*	-	-	-	-	-	-	-	-
Mandura	*	-	-	-	-	-	-	*	*
Dibate	225	*	*	-	-	*	*	*	*
Pawe	1306	*	*	-	-	22	1.68	*	*
Bulen	*	*	*	-	-	-	-	-	-
Asosa Zone	439	*	*	*	*	15	3.42	*	*
Menge	75	*	*	-	-	*	*	-	-
Kurmak	38	-	-	-	-	1	2.63	-	-
Asosa	246	-	-	*	*	*	*	*	*
Sherkole	7	-	-	-	-	*	*	-	-
Bambasi	19	-	-	-	-	*	*	-	-
Oda Godere	17	-	-	-	-	1	5.88	-	-
Komesha	29	-	-	-	-	1	3.45	-	-
Mao Komo Special	7	-	-	-	-	*	*	-	-
Kemeshi Zone	33	*	*	-	-	1	3.03	-	-
Yaso	*	-	-	-	-	-	-	-	-
Sirba Abay	3	*	*	-	-	*	*	-	-
Kamashi	5	*	*	-	-	*	*	-	-
Agalo Meti	4	-	-	-	-	1	25	-	-
Belo Jegonfoy	21	-	-	-	-	-	-	-	-

TABLE 6.7.2d Sufflower

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	94	*	*	-	-	*	*	-	-
Metekel Zone	71	*	*	-	-	*	*	-	-
Dangur	*	-	-	-	-	*	*	-	-
Guba	*	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-	-
Mandura	*	-	-	-	-	-	-	-	-
Dibate	*	*	*	-	-	-	-	-	-
Pawe	47	*	*	-	-	*	*	-	-
Bulen	*	-	-	-	-	-	-	-	-
Asosa Zone	23	*	*	-	-	*	*	-	-
Menge	-	-	-	-	-	-	-	-	-
Kurmak	*	-	-	-	-	-	-	-	-
Asosa	*	-	-	-	-	*	*	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	*	-	-	-	-	*	*	-	-
Oda Godere	*	*	*	-	-	*	*	-	-
Komesha	-	-	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-	-	-
Kemeshi Zone	*	-	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	*	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	*	-	-	-	-	-	-	-	-

TABLE 6.7.2e Sesame

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	9028	77	0.85	*	*	924	10.23	*	*
Metekel Zone	2792	38	1.36	*	*	198	7.09	*	*
Dangur	225	*	*	-	-	*	*	-	-
Guba	469	12	2.56	-	-	7	1.49	-	-
Wenbera	86	-	-	-	-	*	*	-	-
Mandura	76	*	*	*	*	*	*	-	-
Dibate	*	-	-	-	-	*	*	-	-
Pawe	1823	*	*	-	-	160	8.78	*	*
Bulen	85	*	*	-	-	-	-	-	-
Asosa Zone	2960	18	0.61	*	*	264	8.92	*	*
Menge	776	*	*	-	-	30	3.87	-	-
Kurmak	228	*	*	-	-	55	24.12	-	-
Asosa	306	-	-	-	-	*	*	-	-
Sherkole	266	*	*	*	*	35	13.16	-	-
Bambasi	430	*	*	*	*	57	13.26	*	*
Oda Godere	775	*	*	*	*	81	10.45	-	-
Komesha	57	5	8.77	-	-	*	*	*	*
Mao Komo Special	121	*	*	-	-	-	-	-	-
Kemeshi Zone	3277	21	0.64	*	*	462	14.1	*	*
Yaso	352	1	0.28	-	-	11	3.13	*	*
Sirba Abay	176	*	*	*	*	57	32.39	-	-
Kamashi	174	3	1.72	-	-	7	4.02	-	-
Agalo Meti	145	*	*	-	-	35	24.14	-	-
Belo Jegonfoy	2429	11	0.45	-	-	352	14.49	-	-

TABLE 6.7.2f Rapeseed

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	100	*	*	*	*	62	62	*	*
Metekel Zone	72	*	*	*	*	40	55.56	*	*
Dangur	18	-	-	*	*	6	33.33	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	22	*	*	-	-	20	90.91	-	-
Mandura	*	*	*	-	-	*	*	*	*
Dibate	20	-	-	-	-	*	*	-	-
Pawe	*	-	-	-	-	*	*	-	-
Bulen	*	-	-	-	-	*	*	-	-
Asosa Zone	28	-	-	*	*	22	78.57	-	-
Menge	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	*	-	-	*	*	*	*	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	*	-	-	-	-	*	*	-	-
Oda Godere	*	-	-	-	-	*	*	-	-
Komesha	*	-	-	-	-	-	-	-	-
Mao Komo Special	6	-	-	-	-	*	*	-	-
Kemeshi Zone	*	*	*	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	*	*	*	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	*	-	-	-	-	-	-	-	-

TABLE 6.7.3 URBAN HOLDINGS

Geographic Area	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	1617	-	-	-	-	*	*	11	0.68
Metekel Zone	1425	-	-	-	-	*	*	*	*
Dangur	247	-	-	-	-	-	-	-	-
Guba	17	-	-	-	-	-	-	-	-
Wenbera	15	-	-	-	-	*	*	*	*
Mandura	6	-	-	-	-	-	-	-	-
Dibate	33	-	-	-	-	-	-	-	-
Pawe	*	-	-	-	-	-	-	-	-
Bulen	66	-	-	-	-	-	-	-	-
Asosa Zone	192	-	-	-	-	*	*	*	*
Menge	2	-	-	-	-	-	-	-	-
Kurmak	8	-	-	-	-	-	-	-	-
Asosa	51	-	-	-	-	*	*	-	-
Bambasi	131	-	-	-	-	-	-	*	*

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	%
Benshangul-Gumuz	395	*	*	*	*	37	9.37	-	-
Metekel Zone	164	*	*	*	*	13	7.93	-	-
Dangur	*	-	-	-	-	*	*	-	-
Guba	1	-	-	-	-	-	-	-	-
Wenbera	*	-	-	-	-	*	*	-	-
Mandura	33	*	*	*	*	*	*	-	-
Dibate	61	-	-	*	*	*	*	-	-
Pawe	12	-	-	-	-	2	16.67	-	-
Bulen	*	-	-	-	-	*	*	-	-
Asosa Zone	150	*	*	*	*	17	11.33	-	-
Menge	28	-	-	-	-	*	*	-	-
Kurmak	5	-	-	-	-	*	*	-	-
Asosa	17	-	-	*	*	3	17.65	-	-
Sherkole	46	*	*	-	-	7	15.22	-	-
Bambasi	25	*	*	*	*	5	20	-	-
Oda Godere	3	-	-	-	-	*	*	-	-
Komesha	3	-	-	-	-	*	*	-	-
Mao Komo Special	23	-	-	-	-	*	*	-	-
Kemeshi Zone	81	-	-	*	*	7	8.64	-	-
Yaso	35	-	-	-	-	1	2.86	-	-
Sirba Abay	2	-	-	-	-	*	*	-	-
Kamashi	25	-	-	-	-	*	*	-	-
Agalo Meti	15	-	-	*	*	6	40	-	-
Belo Jegonfoy	4	-	-	-	-	*	*	-	-

TABLE 6.8.1 RURAL HOLDINGS

Geographic Area	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	386	*	*	*	*	37	9.59	-	-
Metekel Zone	157	*	*	*	*	13	8.28	-	-
Dangur	*	-	-	-	-	*	*	-	-
Guba	1	-	-	-	-	-	-	-	-
Wenbera	*	-	-	-	-	*	*	-	-
Mandura	33	*	*	*	*	*	*	-	-
Dibate	61	-	-	*	*	*	*	-	-
Pawe	12	-	-	-	-	2	16.67	-	-
Bulen	*	-	-	-	-	*	*	-	-
Asosa Zone	147	*	*	*	*	17	11.56	-	-
Menge	28	-	-	-	-	*	*	-	-
Kurmak	5	-	-	-	-	*	*	-	-
Asosa	17	-	-	*	*	3	17.65	-	-
Sherkole	46	*	*	-	-	7	15.22	-	-
Bambasi	23	*	*	*	*	5	21.74	-	-
Oda Godere	3	-	-	-	-	*	*	-	-
Komesha	3	-	-	-	-	*	*	-	-
Mao Komo Special	23	-	-	-	-	*	*	-	-
Kemeshi Zone	81	-	-	*	*	7	8.64	-	-
Yaso	35	-	-	-	-	1	2.86	-	-
Sirba Abay	2	-	-	-	-	*	*	-	-
Kamashi	25	-	-	-	-	*	*	-	-
Agalo Meti	15	-	-	*	*	6	40	-	-
Belo Jegonfoy	4	-	-	-	-	*	*	-	-

TABLE 6.8.2 RURAL MEHER

Geographic Area	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	379	*	*	*	*	37	9.76	-	-
Metekel Zone	157	*	*	*	*	13	8.28	-	-
Dangur	*	-	-	-	-	*	*	-	-
Guba	1	-	-	-	-	-	-	-	-
Wenbera	*	-	-	-	-	*	*	-	-
Mandura	33	*	*	*	*	*	*	-	-
Dibate	61	-	-	*	*	*	*	-	-
Pawe	12	-	-	-	-	2	16.67	-	-
Bulen	*	-	-	-	-	*	*	-	-
Asosa Zone	141	*	*	*	*	16	11.35	-	-
Menge	28	-	-	-	-	*	*	-	-
Kurmak	5	-	-	-	-	*	*	-	-
Asosa	17	-	-	*	*	3	17.65	-	-
Sherkole	46	*	*	-	-	7	15.22	-	-
Bambasi	16	*	*	-	-	5	31.25	-	-
Oda Godere	3	-	-	-	-	*	*	-	-
Komesha	3	-	-	-	-	*	*	-	-
Mao Komo Special	23	-	-	-	-	*	*	-	-
Kemeshi Zone	81	-	-	*	*	7	8.64	-	-
Yaso	35	-	-	-	-	1	2.86	-	-
Sirba Abay	2	-	-	-	-	*	*	-	-
Kamashi	25	-	-	-	-	*	*	-	-
Agalo Meti	15	-	-	*	*	6	40	-	-
Belo Jegonfoy	4	-	-	-	-	*	*	-	-

TABLE 6.9 AREA OF CROPLAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, BOTH SEASONS, FORPRIVATE HOLDINGS

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	1587	8	0.5	37	2.33	539	33.96	7	0.44
Metekel Zone	608	*	*	10	1.64	154	25.33	*	*
Dangur	100	*	*	*	*	7	7	-	-
Guba	29	*	*	-	-	*	*	-	-
Wenbera	26	*	*	*	*	*	*	-	-
Mandura	24	*	*	-	-	7	29.17	*	*
Dibate	168	-	-	*	*	81	48.21	-	-
Pawe	183	*	*	2	1.09	36	19.67	*	*
Bulen	78	*	*	-	-	16	20.51	-	-
Asosa Zone	799	1	0.13	25	3.13	307	38.42	5	0.63
Menge	79	*	*	*	*	16	20.25	*	*
Kurmak	18	-	-	-	-	5	27.78	*	*
Asosa	183	*	*	17	9.29	89	48.63	*	*
Sherkole	43	-	-	*	*	12	27.91	-	-
Bambasi	310	*	*	4	1.29	138	44.52	*	*
Oda Godere	124	*	*	*	*	40	32.26	*	*
Komesha	19	*	*	2	10.53	3	15.79	*	*
Mao Komo Special	22	*	*	*	*	6	27.27	-	-
Kemeshi Zone	179	1	0.56	2	1.12	78	43.58	-	-
Yaso	38	-	-	-	-	9	23.68	-	-
Sirba Abay	41	-	-	-	-	33	80.49	-	-
Kamashi	14	1	7.14	2	14.29	3	21.43	-	-
Agalo Meti	11	-	-	*	*	6	54.55	-	-
Belo Jegonfoy	75	*	*	*	*	27	36	-	-

TABLE 6.9.1 RURAL HOLDINGS

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	1485	4	0.27	36	2.42	532	35.82	7	0.47
Metekel Zone	531	1	0.19	10	1.88	154	29	*	*
Dangur	85	-	-	*	*	7	8.24	-	-
Guba	29	*	*	-	-	*	*	-	-
Wenbera	26	*	*	*	*	*	*	-	-
Mandura	24	*	*	-	-	7	29.17	*	*
Dibate	167	-	-	*	*	81	48.5	-	-
Pawe	127	*	*	2	1.57	36	28.35	*	*
Bulen	73	*	*	-	-	16	21.92	-	-
Asosa Zone	774	1	0.13	24	3.1	301	38.89	5	0.65
Menge	79	*	*	*	*	16	20.25	*	*
Kurmak	18	-	-	-	-	5	27.78	*	*
Asosa	182	*	*	17	9.34	89	48.9	*	*
Sherkole	43	-	-	*	*	12	27.91	-	-
Bambasi	287	*	*	3	1.05	131	45.64	*	*
Oda Godere	124	*	*	*	*	40	32.26	*	*
Komesha	19	*	*	2	10.53	3	15.79	*	*
Mao Komo Special	22	*	*	*	*	6	27.27	-	-
Kemeshi Zone	179	1	0.56	2	1.12	78	43.58	-	-
Yaso	38	-	-	-	-	9	23.68	-	-
Sirba Abay	41	-	-	-	-	33	80.49	-	-
Kamashi	14	1	7.14	2	14.29	3	21.43	-	-
Agalo Meti	11	-	-	*	*	6	54.55	-	-
Belo Jegonfoy	75	*	*	*	*	27	36	-	-

TABLE 6.9.2 RURAL MEHER

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	1448	1	0.07	9	0.62	515	35.57	5	0.35
Metekel Zone	525	*	*	*	*	149	28.38	*	*
Dangur	85	-	-	-	-	7	8.24	-	-
Guba	29	*	*	-	-	*	*	-	-
Wenbera	*	-	-	*	*	*	*	-	-
Mandura	24	*	*	-	-	7	29.17	*	*
Dibate	167	-	-	*	*	81	48.5	-	-
Pawe	124	-	-	-	-	35	28.23	*	*
Bulen	73	*	*	-	-	16	21.92	-	-
Asosa Zone	745	*	*	*	*	288	38.66	4	0.54
Menge	78	*	*	*	*	16	20.51	*	*
Kurmak	18	-	-	-	-	5	27.78	*	*
Asosa	168	*	*	*	*	79	47.02	*	*
Sherkole	43	-	-	*	*	12	27.91	-	-
Bambasi	279	-	-	*	*	131	46.95	*	*
Oda Godere	124	*	*	*	*	40	32.26	*	*
Komesha	14	*	*	-	-	2	14.29	-	-
Mao Komo Special	21	*	*	*	*	5	23.81	-	-
Kemeshi Zone	178	*	*	1	0.56	78	43.82	-	-
Yaso	38	-	-	-	-	9	23.68	-	-
Sirba Abay	41	-	-	-	-	33	80.49	-	-
Kamashi	13	-	-	*	*	3	23.08	-	-
Agalo Meti	11	-	-	*	*	6	54.55	-	-
Belo Jegonfoy	75	*	*	*	*	27	36	-	-

TABLE 6.9.2a Head cabbage

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	2	*	*	-	-	1	50	-	-
Metekel Zone	*	-	-	-	-	*	*	-	-
Dangur	-	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	*	-	-	-	-	*	*	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	2	*	*	-	-	1	50	-	-
Menge	*	-	-	-	-	*	*	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	1	*	*	-	-	*	*	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	*	-	-	-	-	*	*	-	-
Oda Godere	-	-	-	-	-	-	-	-	-
Komesha	*	*	*	-	-	*	*	-	-
Mao Komo Special	-	-	-	-	-	-	-	-	-
Kemeshi Zone	*	*	*	-	-	*	*	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	*	*	*	-	-	*	*	-	-

TABLE 6.9.2b Kale

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	*	*	*	-	-	5	*	-	-
Metekel Zone	5	*	*	-	-	4	80	-	-
Dangur	-	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-	-
Mandura	*	-	-	-	-	*	*	-	-
Dibate	*	-	-	-	-	*	*	-	-
Pawe	4	-	-	-	-	*	*	-	-
Bulen	*	*	*	-	-	-	-	-	-
Asosa Zone	*	-	-	-	-	*	*	-	-
Menge	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	*	-	-	-	-	*	*	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	*	-	-	-	-	*	*	-	-
Oda Godere	*	-	-	-	-	*	*	-	-
Komesha	*	-	-	-	-	-	-	-	-
Mao Komo Special	*	-	-	-	-	-	-	-	-
Kemeshi Zone	*	-	-	-	-	*	*	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	*	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	*	-	-	-	-	*	*	-	-

TABLE 6.9.2c Tomatoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	5	-	-	*	*	2	40	-	-
Metekel Zone	*	-	-	*	*	*	*	-	-
Dangur	-	-	-	-	-	-	-	-	-
Guba	*	-	-	-	-	*	*	-	-
Wenbera	*	-	-	*	*	*	*	-	-
Mandura	*	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-
Pawe	*	-	-	-	-	*	*	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	4	-	-	*	*	*	*	-	-
Menge	*	-	-	*	*	*	*	-	-
Kurmak	*	-	-	-	-	*	*	-	-
Asosa	*	-	-	*	*	*	*	-	-
Sherkole	*	-	-	-	-	*	*	-	-
Bambasi	*	-	-	-	-	-	-	-	-
Oda Godere	*	-	-	-	-	*	*	-	-
Komesha	*	-	-	-	-	*	*	-	-
Mao Komo Special	*	-	-	-	-	*	*	-	-
Kemeshi Zone	*	-	-	-	-	*	*	-	-
Yaso	*	-	-	-	-	-	-	-	-
Sirba Abay	*	-	-	-	-	*	*	-	-
Kamashi	*	-	-	-	-	-	-	-	-
Agalo Meti	*	-	-	-	-	*	*	-	-
Belo Jegonfoy	*	-	-	-	-	*	*	-	-

TABLE 6.9.2d Green peppers

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	25	*	*	*	*	13	52	-	-
Metekel Zone	10	-	-	*	*	6	60	-	-
Dangur	*	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	1	-	-	*	*	*	*	-	-
Mandura	1	-	-	-	-	*	*	-	-
Dibate	4	-	-	*	*	3	75	-	-
Pawe	3	-	-	-	-	*	*	-	-
Bulen	*	-	-	-	-	*	*	-	-
Asosa Zone	5	-	-	*	*	*	*	-	-
Menge	*	-	-	-	-	*	*	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	*	-	-	-	-	*	*	-	-
Sherkole	*	-	-	-	-	-	-	-	-
Bambasi	1	-	-	*	*	*	*	-	-
Oda Godere	*	-	-	-	-	*	*	-	-
Komesha	*	-	-	-	-	*	*	-	-
Mao Komo Special	1	-	-	-	-	*	*	-	-
Kemeshi Zone	10	*	*	-	-	5	50	-	-
Yaso	1	-	-	-	-	1	100.00	-	
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	*	-	-	-	-	-	-	-	-
Agalo Meti	1	-	-	-	-	*	*	-	-
Belo Jegonfoy	8	*	*	-	-	4	50	-	-

TABLE 6.9.2e Red peppers

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	816	*	*	6	0.74	327	40.07	4	0.49
Metekel Zone	363	*	*	*	*	114	31.4	*	*
Dangur	30	-	-	-	-	*	*	-	-
Guba	*	-	-	-	-	-	-	-	-
Wenbera	2	-	-	*	*	*	*	-	-
Mandura	9	*	*	-	-	2	22.22	*	*
Dibate	145	-	-	*	*	69	47.59	-	-
Pawe	107	-	-	-	-	24	22.43	*	*
Bulen	69	-	-	-	-	14	20.29	-	-
Asosa Zone	384	-	-	*	*	188	48.96	*	*
Menge	3	-	-	-	-	*	*	-	-
Kurmak	*	-	-	-	-	*	*	-	-
Asosa	99	-	-	*	*	53	53.54	*	*
Sherkole	*	-	-	-	-	*	*	-	-
Bambasi	268	-	-	-	-	128	47.76	*	*
Oda Godere	12	-	-	*	*	6	50	-	-
Komesha	*	-	-	-	-	*	*	-	-
Mao Komo Special	2	-	-	-	-	1	50	-	-
Kemeshi Zone	69	-	-	*	*	25	36.23	-	-
Yaso	17	-	-	-	-	7	41.18	-	-
Sirba Abay	1	-	-	-	-	*	*	-	-
Kamashi	7	-	-	*	*	1	14.29	-	-
Agalo Meti	1	-	-	*	*	*	*	-	-
Belo Jegonfoy	43	-	-	-	-	15	34.88	-	-

TABLE 6.9.2f Other Vegetables

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	565	*	*	*	*	166	29.38	*	*
Metekel Zone	145	*	*	*	*	24	16.55	-	-
Dangur	55	-	-	-	-	*	*	-	-
Guba	29	*	*	-	-	*	*	-	-
Wenbera	*	-	-	-	-	*	*	-	-
Mandura	12	*	*	-	-	3	25	-	-
Dibate	18	-	-	*	*	*	*	-	-
Pawe	10	-	-	-	-	6	60	-	-
Bulen	*	-	-	-	-	*	*	-	-
Asosa Zone	321	*	*	*	*	94	29.28	*	*
Menge	74	*	*	-	-	16	21.62	*	*
Kurmak	17	-	-	-	-	4	23.53	*	*
Asosa	41	-	-	-	-	23	56.1	-	-
Sherkole	43	-	-	*	*	11	25.58	-	-
Bambasi	6	-	-	-	-	2	33.33	-	-
Oda Godere	111	-	-	-	-	33	29.73	*	*
Komesha	12	-	-	-	-	2	16.67	-	-
Mao Komo Special	18	*	*	*	*	3	16.67	-	-
Kemeshi Zone	98	-	-	*	*	48	48.98	-	-
Yaso	20	-	-	-	-	1	5	-	-
Sirba Abay	40	-	-	-	-	32	80	-	-
Kamashi	6	-	-	-	-	*	*	-	-
Agalo Meti	9	-	-	-	-	5	55.56	-	-
Belo Jegonfoy	23	-	-	*	*	8	34.78	-	-

TABLE 6.9.3 RURAL BELG

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	37	*	*	27	72.97	17	45.95	2	5.41
Metekel Zone	6	*	*	6	100.00	*	*	*	
Dangur	*	-	-	*	*	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	*	-	-	*	*	*	*	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-
Pawe	2	*	*	2	100	*	*	*	*
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	29	*	*	19	65.52	13	44.83	2	6.9
Menge	*	-	-	*	*	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	14	*	*	13	92.86	10	71.43	*	*
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	8	-	-	3	37.5	1	12.5	*	*
Oda Godere	*	-	-	*	*	-	-	-	-
Komesha	*	-	-	2	*	*	*	*	*
Mao Komo Special	*	*	*	*	*	*	*	-	-
Kemeshi Zone	2	*	*	2	100	-	-	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	1	*	*	1	100	-	-	-	-
Agalo Meti	*	-	-	*	*	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-	-

TABLE 6.9.4 URBAN HOLDINGS

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz Killil	102	*	*	*	*	7	6.86	-	-
Metekel Zone	*	*	*	-	-	*	*	-	-
Dangur	14	*	*	-	-	-	-	-	-
Guba	*	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	*	-	-	-	-	-	-	-	-
Pawe	*	-	-	-	-	-	-	-	-
Bulen	*	-	-	-	-	*	*	-	-
Asosa Zone	25	-	-	*	*	6	24	-	-
Menge	1	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	*	-	-	-	-	*	*	-	-
Bambasi	23	-	-	*	*	6	26.09	-	-

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	%
Benshangul-Gumuz	1171	*	*	83	7.09	430	36.72	*	*
Metekel Zone	488	*	*	47	9.63	243	49.8	-	-
Dangur	85	-	-	*	*	54	63.53	-	-
Guba	*	-	-	-	-	-	-	-	-
Wenbera	349	*	*	46	13.18	172	49.28	-	-
Mandura	*	-	-	-	-	-	-	-	-
Dibate	31	-	-	*	*	*	*	-	-
Pawe	20	-	-	-	-	9	45	-	-
Bulen	*	*	*	-	-	*	*	-	-
Asosa Zone	592	*	*	29	4.9	154	26.01	*	*
Menge	92	*	*	*	*	5	5.43	-	-
Kurmak	28	-	-	-	-	6	21.43	-	-
Asosa	244	*	*	15	6.15	84	34.43	*	*
Sherkole	36	-	-	*	*	10	27.78	-	-
Bambasi	60	-	-	10	16.67	16	26.67	-	-
Oda Godere	49	*	*	*	*	23	46.94	-	-
Komesha	58	*	*	3	5.17	7	12.07	*	*
Mao Komo Special	25	*	*	*	*	5	20	-	-
Kemeshi Zone	91	*	*	7	7.69	32	35.16	-	-
Yaso	6	-	-	-	-	*	*	-	-
Sirba Abay	6	-	-	-	-	2	33.33	-	-
Kamashi	33	*	*	5	15.15	14	42.42	-	-
Agalo Meti	24	-	-	*	*	8	33.33	-	-
Belo Jegonfoy	22	*	*	-	-	7	31.82	-	-

TABLE 6.10.1 RURAL HOLDINGS

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	1152	*	*	83	7.2	413	35.85	*	*
Metekel Zone	471	*	*	47	9.98	227	48.2	-	-
Dangur	85	-	-	*	*	54	63.53	-	-
Guba	*	-	-	-	-	-	-	-	-
Wenbera	331	*	*	46	13.9	155	46.83	-	-
Mandura	*	-	-	-	-	-	-	-	-
Dibate	31	-	-	*	*	*	*	-	-
Pawe	20	-	-	-	-	9	45	-	-
Bulen	*	*	*	-	-	*	*	-	-
Asosa Zone	591	*	*	29	4.91	154	26.06	*	*
Menge	92	*	*	*	*	5	5.43	-	-
Kurmak	28	-	-	-	-	6	21.43	-	-
Asosa	244	*	*	15	6.15	84	34.43	*	*
Sherkole	36	-	-	*	*	10	27.78	-	-
Bambasi	59	-	-	10	16.95	16	27.12	-	-
Oda Godere	49	*	*	*	*	23	46.94	-	-
Komesha	58	*	*	3	5.17	7	12.07	*	*
Mao Komo Special	25	*	*	*	*	5	20	-	-
Kemeshi Zone	91	*	*	7	7.69	32	35.16	-	-
Yaso	6	-	-	-	-	*	*	-	-
Sirba Abay	6	-	-	-	-	2	33.33	-	-
Kamashi	33	*	*	5	15.15	14	42.42	-	-
Agalo Meti	24	-	-	*	*	8	33.33	-	-
Belo Jegonfoy	22	*	*	-	-	7	31.82	-	-

TABLE 6.10.2 RURAL MEHER

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	775	*	*	9	1.16	241	31.1	*	*
Metekel Zone	121	*	*	*	*	64	52.89	-	-
Dangur	12	-	-	*	*	6	50	-	-
Guba	*	-	-	-	-	-	-	-	-
Wenbera	54	*	*	*	*	40	74.07	-	-
Mandura	*	-	-	-	-	-	-	-	-
Dibate	31	-	-	*	*	*	*	-	-
Pawe	20	-	-	-	-	9	45	-	-
Bulen	*	*	*	-	-	*	*	-	-
Asosa Zone	568	*	*	*	*	145	25.53	*	*
Menge	92	*	*	*	*	5	5.43	-	-
Kurmak	28	-	-	-	-	6	21.43	-	-
Asosa	234	-	-	*	*	78	33.33	-	-
Sherkole	36	-	-	*	*	10	27.78	-	-
Bambasi	50	-	-	*	*	16	32	-	-
Oda Godere	49	*	*	*	*	23	46.94	-	-
Komesha	55	*	*	*	*	4	7.27	*	*
Mao Komo Special	25	*	*	-	-	5	20	-	-
Kemeshi Zone	85	*	*	*	*	32	37.65	-	-
Yaso	6	-	-	-	-	*	*	-	-
Sirba Abay	6	-	-	-	-	2	33.33	-	-
Kamashi	28	-	-	-	-	14	50	-	-
Agalo Meti	24	-	-	*	*	8	33.33	-	-
Belo Jegonfoy	22	*	*	-	-	7	31.82	-	-

TABLE 6.10.2a Carrot

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	1	*	*	-	-	1	100.00	-	
Metekel Zone	*	-	-	-	-	-	-	-	-
Dangur	*	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-	-
Mandura	*	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	1	*	*	-	-	*	*	-	-
Menge	*	-	-	-	-	*	*	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	*	-	-	-	-	*	*	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	*	-	-	-	-	*	*	-	-
Oda Godere	*	*	*	-	-	*	*	-	-
Komesha	*	-	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-	-	-
Kemeshi Zone	*	*	*	-	-	*	*	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	*	*	*	-	-	*	*	-	-

TABLE 6.10.2b Onions

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	19	*	*	1	5.26	9	47.37	-	-
Metekel Zone	3	*	*	*	*	2	66.67	-	-
Dangur	1	-	-	*	*	*	*	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	2	*	*	*	*	1	50	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	*	-	-	-	-	*	*	-	-
Pawe	-	-	-	-	-	-	-	-	-
Bulen	*	*	*	-	-	-	-	-	-
Asosa Zone	14	*	*	*	*	7	50	-	-
Menge	*	-	-	*	*	*	*	-	-
Kurmak	*	-	-	-	-	*	*	-	-
Asosa	*	-	-	-	-	*	*	-	-
Sherkole	*	-	-	-	-	-	-	-	-
Bambasi	*	-	-	-	-	*	*	-	-
Oda Godere	2	-	-	-	-	1	50	-	-
Komesha	4	*	*	*	*	1	25	-	-
Mao Komo Special	5	-	-	-	-	1	20	-	-
Kemeshi Zone	1	*	*	*	*	1	100	-	-
Yaso	*	-	-	-	-	*	*	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	*	-	-	*	*	*	*	-	-
Belo Jegonfoy	*	*	*	-	-	*	*	-	-

TABLE 6.10.2c Potatoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	102	*	*	*	*	46	45.1	-	-
Metekel Zone	65	-	-	*	*	35	53.85	-	-
Dangur	*	-	-	-	-	*	*	-	-
Guba	*	-	-	-	-	-	-	-	-
Wenbera	41	-	-	*	*	32	78.05	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	19	-	-	-	-	*	*	-	-
Pawe	*	-	-	-	-	*	*	-	-
Bulen	*	-	-	-	-	*	*	-	-
Asosa Zone	20	*	*	-	-	6	30	-	-
Menge	5	-	-	-	-	*	*	-	-
Kurmak	*	-	-	-	-	-	-	-	-
Asosa	*	-	-	-	-	*	*	-	-
Sherkole	*	-	-	-	-	-	-	-	-
Bambasi	3	-	-	-	-	2	66.67	-	-
Oda Godere	4	-	-	-	-	2	50	-	-
Komesha	*	-	-	-	-	-	-	-	-
Mao Komo Special	4	*	*	-	-	*	*	-	-
Kemeshi Zone	17	-	-	-	-	5	29.41	-	-
Yaso	2	-	-	-	-	-	-	-	-
Sirba Abay	*	-	-	-	-	*	*	-	-
Kamashi	8	-	-	-	-	3	37.5	-	-
Agalo Meti	4	-	-	-	-	*	*	-	-
Belo Jegonfoy	3	-	-	-	-	*	*	-	-

TABLE 6.10.2d Garlic

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	21	*	*	*	*	12	57.14	-	-
Metekel Zone	17	-	-	*	*	11	64.71	-	-
Dangur	6	-	-	-	-	3	50	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	10	-	-	*	*	7	70	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	*	-	-	*	*	*	*	-	-
Pawe	-	-	-	-	-	-	-	-	-
Bulen	*	-	-	-	-	*	*	-	-
Asosa Zone	3	-	-	-	-	1	33.33	-	-
Menge	*	-	-	-	-	*	*	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	*	-	-	-	-	*	*	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	*	-	-	-	-	*	*	-	-
Oda Godere	*	-	-	-	-	*	*	-	-
Komesha	*	-	-	-	-	*	*	-	-
Mao Komo Special	*	-	-	-	-	*	*	-	-
Kemeshi Zone	*	*	*	*	*	*	*	-	-
Yaso	*	-	-	-	-	*	*	-	-
Sirba Abay	*	-	-	-	-	*	*	-	-
Kamashi	*	-	-	-	-	-	-	-	-
Agalo Meti	*	-	-	*	*	*	*	-	-
Belo Jegonfoy	*	*	*	-	-	*	*	-	-

TABLE 6.10.2e Taro ('Godere')

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	9	-	-	*	*	5	55.56	-	-
Metekel Zone	6	-	-	*	*	3	50	-	-
Dangur	*	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	*	-	-	*	*	*	*	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-
Pawe	5	-	-	-	-	3	60	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	*	-	-	*	*	1	*	-	-
Menge	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	*	-	-	-	-	*	*	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	*	-	-	-	-	*	*	-	-
Oda Godere	*	-	-	*	*	*	*	-	-
Komesha	*	-	-	-	-	-	-	-	-
Mao Komo Special	*	-	-	-	-	-	-	-	-
Kemeshi Zone	1	-	-	-	-	*	*	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	*	-	-	-	-	-	-	-	-
Kamashi	*	-	-	-	-	-	-	-	-
Agalo Meti	*	-	-	-	-	*	*	-	-
Belo Jegonfoy	1	-	-	-	-	*	*	-	-

TABLE 6.10.2f Sweet potatoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	248	-	-	*	*	90	36.29	-	-
Metekel Zone	20	-	-	-	-	7	35	-	-
Dangur	*	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-	-
Mandura	*	-	-	-	-	-	-	-	-
Dibate	4	-	-	-	-	1	25	-	-
Pawe	15	-	-	-	-	6	40	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	166	-	-	*	*	57	34.34	-	-
Menge	13	-	-	-	-	*	*	-	-
Kurmak	*	-	-	-	-	-	-	-	-
Asosa	85	-	-	*	*	38	44.71	-	-
Sherkole	*	-	-	-	-	*	*	-	-
Bambasi	25	-	-	*	*	10	40	-	-
Oda Godere	9	-	-	-	-	4	44.44	-	-
Komesha	17	-	-	-	-	2	11.76	-	-
Mao Komo Special	15	-	-	-	-	2	13.33	-	-
Kemeshi Zone	62	-	-	-	-	26	41.94	-	-
Yaso	4	-	-	-	-	*	*	-	-
Sirba Abay	4	-	-	-	-	1	25	-	-
Kamashi	20	-	-	-	-	11	55	-	-
Agalo Meti	16	-	-	-	-	7	43.75	-	-
Belo Jegonfoy	17	-	-	-	-	6	35.29	-	-

TABLE 6.10.2g Other root crops

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	373	*	*	4	1	79	21.18	*	*
Metekel Zone	*	-	-	-	-	*	*	-	-
Dangur	*	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-	-
Mandura	*	-	-	-	-	-	-	-	-
Dibate	*	-	-	-	-	*	*	-	-
Pawe	-	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	360	*	*	*	*	73	20.28	*	*
Menge	74	*	*	-	-	4	5.41	-	-
Kurmak	26	-	-	-	-	5	19.23	-	-
Asosa	*	-	-	*	*	*	*	-	-
Sherkole	33	-	-	*	*	9	27.27	-	-
Bambasi	20	-	-	-	-	*	*	-	-
Oda Godere	33	-	-	*	*	15	45.45	-	-
Komesha	33	-	-	-	-	*	*	*	*
Mao Komo Special	1	-	-	-	-	*	*	-	-
Kemeshi Zone	*	-	-	-	-	*	*	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	*	-	-	-	-	*	*	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	*	-	-	-	-	-	-	-	-
Belo Jegonfoy	*	-	-	-	-	*	*	-	-

TABLE 6.10.3 RURAL BELG

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	377	1	0.27	74	19.63	172	45.62	*	*
Metekel Zone	349	*	*	46	13.18	163	46.7	-	-
Dangur	73	-	-	*	*	48	65.75	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	277	*	*	44	15.88	115	41.52	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	23	*	*	22	95.65	9	39.13	*	*
Menge	*	-	-	*	*	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	10	*	*	10	100	6	60	*	*
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	10	-	-	9	90	*	*	-	-
Oda Godere	-	-	-	-	-	-	-	-	-
Komesha	3	*	*	3	100	2	66.67	*	*
Mao Komo Special	*	-	-	*	*	-	-	-	-
Kemeshi Zone	6	*	*	6	100	-	-	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	5	*	*	5	100	-	-	-	-
Agalo Meti	*	-	-	*	*	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-	-

TABLE 6.10.4 URBAN HOLDINGS

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz Killil	19	*	*	*	*	16	84.21	-	-
Metekel Zone	18	*	*	-	-	16	88.89	-	-
Dangur	-	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	18	*	*	-	-	16	88.89	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	*	-	-	*	*	*	*	-	-
Menge	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	*	-	-	*	*	*	*	-	-
Bambasi	*	-	-	-	-	-	-	-	-

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	%
Benshangul-Gumuz	2501	117	4.68	636	25.43	660	26.39	5	0.2
Metekel Zone	776	17	2.19	500	64.43	238	30.67	*	*
Dangur	40	*	*	*	*	8	20	*	*
Guba	17	*	*	1	5.88	1	5.88	-	-
Wenbera	546	*	*	461	84.43	153	28.02	*	*
Mandura	4	*	*	*	*	*	*	-	-
Dibate	83	*	*	14	16.87	43	51.81	*	*
Pawe	58	*	*	11	18.97	18	31.03	*	*
Bulen	28	1	3.57	*	*	*	*	*	*
Asosa Zone	1487	97	6.52	117	7.87	383	25.76	*	*
Menge	109	*	*	1	0.92	15	13.76	*	*
Kurmak	25	-	-	*	*	3	12	-	-
Asosa	500	75	15	90	18	218	43.6	*	*
Sherkole	21	*	*	*	*	6	28.57	*	*
Bambasi	351	18	5.13	16	4.56	71	20.23	*	*
Oda Godere	36	*	*	*	*	12	33.33	-	-
Komesha	72	*	*	*	*	13	18.06	*	*
Mao Komo Special	373	*	*	3	0.8	45	12.06	*	*
Kemeshi Zone	238	*	*	*	*	39	16.39	*	*
Yaso	4	-	-	*	*	*	*	-	-
Sirba Abay	7	*	*	*	*	*	*	-	-
Kamashi	22	-	-	*	*	2	9.09	-	-
Agalo Meti	25	*	*	*	*	3	12	-	-
Belo Jegonfoy	181	*	*	*	*	31	17.13	*	*

TABLE 6.11.1 RURAL MEHER

Geographic Area	Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	2339	105	4.49	605	25.87	632	27.02	4	0.17
Metekel Zone	700	*	*	475	67.86	213	30.43	*	*
Dangur	28	*	*	*	*	8	28.57	*	*
Guba	5	*	*	*	*	*	*	-	-
Wenbera	526	*	*	441	83.84	138	26.24	*	*
Mandura	3	*	*	*	*	*	*	-	-
Dibate	78	*	*	*	*	42	53.85	*	*
Pawe	49	*	*	10	20.41	17	34.69	-	-
Bulen	*	*	*	*	*	*	*	-	-
Asosa Zone	1401	91	6.5	111	7.92	379	27.05	*	*
Menge	90	*	*	*	*	15	16.67	*	*
Kurmak	25	-	-	*	*	3	12	-	-
Asosa	445	70	15.73	89	20	214	48.09	*	*
Sherkole	21	*	*	*	*	6	28.57	*	*
Bambasi	338	18	5.33	11	3.25	71	21.01	*	*
Oda Godere	36	*	*	*	*	12	33.33	-	-
Komesha	72	*	*	*	*	13	18.06	*	*
Mao Komo Special	373	*	*	3	0.8	45	12.06	*	*
Kemeshi Zone	238	*	*	*	*	39	16.39	*	*
Yaso	4	-	-	*	*	*	*	-	-
Sirba Abay	7	*	*	*	*	*	*	-	-
Kamashi	22	-	-	*	*	2	9.09	-	-
Agalo Meti	25	*	*	*	*	3	12	-	-
Belo Jegonfoy	181	*	*	*	*	31	17.13	*	*

TABLE 6.11.2 URBAN HOLDINGS

Geographic Area	Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	162	12	7.41	31	19.14	28	17.28	*	*
Metekel Zone	75	*	*	25	33.33	24	32	*	*
Dangur	12	*	*	2	16.67	-	-	-	-
Guba	*	-	-	*	*	*	*	-	-
Wenbera	20	*	*	20	100.00	15	75	-	-
Mandura	1	-	-	-	-	*	*	-	-
Dibate	5	*	*	1	20	*	*	*	*
Pawe	9	*	*	2	22.22	*	*	*	*
Bulen	16	1	6.25	*	*	*	*	*	*
Asosa Zone	87	*	*	6	6.9	*	*	*	*
Menge	18	-	-	*	*	-	-	-	-
Kurmak	*	-	-	-	-	-	-	-	-
Asosa	55	*	*	*	*	*	*	*	*
Bambasi	13	*	*	5	38.46	*	*	-	-

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	%
Benshangul-Gumuz	1171	8	0.68	119	10.16	304	25.96	2	0.17
Metekel Zone	189	2	1.06	61	32.28	68	35.98	*	*
Dangur	13	*	*	2	15.38	*	*	-	-
Guba	17	*	*	1	5.88	*	*	-	-
Wenbera	43	*	*	36	83.72	17	39.53	-	-
Mandura	2	*	*	*	*	*	*	-	-
Dibate	45	*	*	*	*	20	44.44	*	*
Pawe	50	*	*	9	18	16	32	*	*
Bulen	20	*	*	*	*	*	*	*	*
Asosa Zone	775	6	0.77	57	7.35	200	25.81	1	0.13
Menge	102	*	*	*	*	14	13.73	*	*
Kurmak	24	-	-	*	*	2	8.33	-	-
Asosa	322	4	1.24	40	12.42	110	34.16	*	*
Sherkole	20	*	*	*	*	6	30	*	*
Bambasi	160	1	0.63	11	6.88	39	24.38	*	*
Oda Godere	33	*	*	*	*	11	33.33	-	-
Komesha	68	-	-	*	*	12	17.65	*	*
Mao Komo Special	46	*	*	*	*	6	13.04	*	*
Kemeshi Zone	206	*	*	1	0.49	36	17.48	*	*
Yaso	4	-	-	*	*	*	*	-	-
Sirba Abay	6	*	*	*	*	*	*	-	-
Kamashi	20	-	-	*	*	*	*	-	-
Agalo Meti	15	*	*	*	*	2	13.33	-	-
Belo Jegonfoy	162	*	*	*	*	31	19.14	*	*

TABLE 6.12.1 RURAL MEHER

Geographic Area	Fruit Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	1058	7	0.66	111	10.49	295	27.88	1	0.09
Metekel Zone	148	1	0.68	57	38.51	60	40.54	-	-
Dangur	5	*	*	*	*	*	*	-	-
Guba	4	*	*	*	*	*	*	-	-
Wenbera	43	*	*	36	83.72	17	39.53	-	-
Mandura	1	*	*	*	*	*	*	-	-
Dibate	41	*	*	*	*	20	48.78	-	-
Pawe	42	*	*	8	19.05	14	33.33	-	-
Bulen	*	*	*	*	*	*	*	-	-
Asosa Zone	704	6	0.85	53	7.53	200	28.41	*	*
Menge	84	*	*	*	*	14	16.67	*	*
Kurmak	24	-	-	*	*	2	8.33	-	-
Asosa	276	4	1.45	39	14.13	110	39.86	-	-
Sherkole	20	*	*	*	*	6	30	*	*
Bambasi	152	1	0.66	7	4.61	39	25.66	*	*
Oda Godere	33	*	*	*	*	11	33.33	-	-
Komesha	68	-	-	*	*	12	17.65	*	*
Mao Komo Special	46	*	*	*	*	6	13.04	*	*
Kemeshi Zone	206	*	*	1	0.49	36	17.48	*	*
Yaso	4	-	-	*	*	*	*	-	-
Sirba Abay	6	*	*	*	*	*	*	-	-
Kamashi	20	-	-	*	*	*	*	-	-
Agalo Meti	15	*	*	*	*	2	13.33	-	-
Belo Jegonfoy	162	*	*	*	*	31	19.14	*	*

TABLE 6.12.1a Avocado

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	6	*	*	*	*	*	*	-	-
Metekel Zone	*	-	-	*	*	*	*	-	-
Dangur	-	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-	-
Mandura	*	-	-	*	*	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-
Pawe	*	-	-	-	-	*	*	-	-
Bulen	*	-	-	*	*	*	*	-	-
Asosa Zone	3	*	*	*	*	*	*	-	-
Menge	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	*	*	*	*	*	*	*	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	1	*	*	*	*	*	*	-	-
Oda Godere	-	-	-	-	-	-	-	-	-
Komesha	*	-	-	-	-	-	-	-	-
Mao Komo Special	*	-	-	-	-	-	-	-	-
Kemeshi Zone	2	-	-	-	-	*	*	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	1	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	1	-	-	-	-	*	*	-	-

TABLE 6.12.1b Bananas

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	389	2	0.51	79	20.31	92	23.65	-	-
Metekel Zone	81	*	*	36	44.44	31	38.27	-	-
Dangur	*	*	*	*	*	*	*	-	-
Guba	*	-	-	*	*	-	-	-	-
Wenbera	29	-	-	24	82.76	14	48.28	-	-
Mandura	*	-	-	*	*	-	-	-	-
Dibate	25	*	*	*	*	12	48	-	-
Pawe	17	*	*	8	47.06	2	11.76	-	-
Bulen	*	-	-	*	*	*	*	-	-
Asosa Zone	237	*	*	42	17.72	53	22.36	-	-
Menge	9	-	-	*	*	*	*	-	-
Kurmak	13	-	-	*	*	-	-	-	-
Asosa	94	*	*	30	31.91	30	31.91	-	-
Sherkole	*	-	-	*	*	*	*	-	-
Bambasi	69	*	*	6	8.7	13	18.84	-	-
Oda Godere	8	-	-	-	-	*	*	-	-
Komesha	14	-	-	*	*	2	14.29	-	-
Mao Komo Special	27	*	*	*	*	4	14.81	-	-
Kemeshi Zone	71	*	*	1	1.41	8	11.27	-	-
Yaso	3	-	-	*	*	*	*	-	-
Sirba Abay	3	-	-	*	*	*	*	-	-
Kamashi	16	-	-	*	*	*	*	-	-
Agalo Meti	10	*	*	*	*	1	10	-	-
Belo Jegonfoy	38	*	*	-	-	7	18.42	-	-

TABLE 6.12.1c Guava (Zeytuna)

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	14	*	*	*	*	5	35.71	-	-
Metekel Zone	2	-	-	-	-	*	*	-	-
Dangur	*	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	*	-	-	-	-	*	*	-	-
Pawe	2	-	-	-	-	*	*	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	10	*	*	*	*	4	40	-	-
Menge	1	-	-	*	*	*	*	-	-
Kurmak	*	-	-	*	*	-	-	-	-
Asosa	4	*	*	*	*	*	*	-	-
Sherkole	*	-	-	-	-	*	*	-	-
Bambasi	4	*	*	-	-	2	50	-	-
Oda Godere	*	-	-	-	-	-	-	-	-
Komesha	1	-	-	-	-	*	*	-	-
Mao Komo Special	-	-	-	-	-	-	-	-	-
Kemeshi Zone	1	-	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	1	-	-	-	-	-	-	-	-

TABLE 6.12.1d Lemons

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	28	*	*	*	*	8	28.57	*	*
Metekel Zone	9	*	*	*	*	*	*	-	-
Dangur	*	-	-	*	*	*	*	-	-
Guba	1	-	-	-	-	-	-	-	-
Wenbera	*	-	-	*	*	*	*	-	-
Mandura	*	-	-	*	*	*	*	-	-
Dibate	1	-	-	*	*	*	*	-	-
Pawe	2	-	-	*	*	*	*	-	-
Bulen	*	*	*	*	*	*	*	-	-
Asosa Zone	17	*	*	*	*	5	29.41	*	*
Menge	3	*	*	*	*	1	33.33	-	-
Kurmak	1	-	-	-	-	*	*	-	-
Asosa	*	-	-	-	-	1	*	-	-
Sherkole	2	-	-	*	*	*	*	*	*
Bambasi	*	-	-	*	*	*	*	-	-
Oda Godere	*	-	-	-	-	*	*	-	-
Komesha	3	-	-	*	*	1	33.33	-	-
Mao Komo Special	*	-	-	-	-	*	*	-	-
Kemeshi Zone	2	-	-	-	-	*	*	-	-
Yaso	*	-	-	-	-	*	*	-	-
Sirba Abay	*	-	-	-	-	*	*	-	-
Kamashi	*	-	-	-	-	*	*	-	-
Agalo Meti	1	-	-	-	-	*	*	-	-
Belo Jegonfoy	*	-	-	-	-	*	*	-	-

TABLE 6.12.1e Mangoes

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	489	3	0.61	18	3.68	124	25.36	*	*
Metekel Zone	25	*	*	*	*	11	44	-	-
Dangur	*	*	*	*	*	*	*	-	-
Guba	3	-	-	*	*	*	*	-	-
Wenbera	*	*	*	*	*	*	*	-	-
Mandura	*	-	-	*	*	*	*	-	-
Dibate	7	*	*	*	*	*	*	-	-
Pawe	6	-	-	*	*	4	66.67	-	-
Bulen	*	-	-	*	*	*	*	-	-
Asosa Zone	339	3	0.88	*	*	88	25.96	*	*
Menge	60	*	*	*	*	8	13.33	-	-
Kurmak	8	-	-	*	*	1	12.5	-	-
Asosa	132	*	*	*	*	50	37.88	-	-
Sherkole	11	-	-	*	*	3	27.27	-	-
Bambasi	56	*	*	*	*	13	23.21	*	*
Oda Godere	17	-	-	-	-	*	*	-	-
Komesha	43	-	-	*	*	7	16.28	-	-
Mao Komo Special	12	-	-	-	-	*	*	-	-
Kemeshi Zone	125	-	-	*	*	26	20.8	*	*
Yaso	*	-	-	-	-	-	-	-	-
Sirba Abay	*	-	-	-	-	*	*	-	-
Kamashi	2	-	-	-	-	*	*	-	-
Agalo Meti	1	-	-	-	-	*	*	-	-
Belo Jegonfoy	120	-	-	*	*	24	20	*	*

TABLE 6.12.1f Oranges

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	22	*	*	3	13.64	9	40.91	*	*
Metekel Zone	3	*	*	*	*	1	33.33	-	-
Dangur	*	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	*	-	-	*	*	*	*	-	-
Mandura	*	*	*	-	-	-	-	-	-
Dibate	*	-	-	*	*	*	*	-	-
Pawe	*	-	-	-	-	*	*	-	-
Bulen	*	-	-	-	-	-	-	-	-
Asosa Zone	18	-	-	1	5.56	7	38.89	*	*
Menge	3	-	-	*	*	1	33.33	*	*
Kurmak	*	-	-	-	-	-	-	-	-
Asosa	4	-	-	*	*	3	75	-	-
Sherkole	*	-	-	-	-	*	*	-	-
Bambasi	3	-	-	*	*	1	33.33	-	-
Oda Godere	*	-	-	-	-	*	*	-	-
Komesha	1	-	-	*	*	*	*	*	*
Mao Komo Special	6	-	-	*	*	2	33.33	*	*
Kemeshi Zone	2	-	-	*	*	*	*	-	-
Yaso	*	-	-	-	-	*	*	-	-
Sirba Abay	*	-	-	*	*	*	*	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	2	-	-	*	*	*	*	-	-
Belo Jegonfoy	*	-	-	-	-	*	*	-	-

TABLE 6.12.1g Papayas

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	101	*	*	3	2.97	52	51.49	-	-
Metekel Zone	23	*	*	2	8.7	10	43.48	-	-
Dangur	*	-	-	*	*	*	*	-	-
Guba	1	*	*	-	-	-	-	-	-
Wenbera	*	-	-	*	*	*	*	-	-
Mandura	*	-	-	*	*	*	*	-	-
Dibate	6	*	*	*	*	3	50	-	-
Pawe	14	-	-	*	*	6	42.86	-	-
Bulen	*	-	-	-	-	*	*	-	-
Asosa Zone	75	*	*	1	1.33	42	56	-	-
Menge	8	-	-	-	-	3	37.5	-	-
Kurmak	2	-	-	-	-	*	*	-	-
Asosa	35	*	*	*	*	23	65.71	-	-
Sherkole	2	*	*	-	-	1	50	-	-
Bambasi	16	*	*	*	*	9	56.25	-	-
Oda Godere	*	-	-	-	-	*	*	-	-
Komesha	5	-	-	*	*	*	*	-	-
Mao Komo Special	*	-	-	-	-	*	*	-	-
Kemeshi Zone	4	*	*	-	-	*	*	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	*	*	*	-	-	*	*	-	-
Kamashi	*	-	-	-	-	-	-	-	-
Agalo Meti	1	-	-	-	-	*	*	-	-
Belo Jegonfoy	1	-	-	-	-	*	*	-	-

TABLE 6.12.1h Other Fruits

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	8	*	*	*	*	2	25	-	-
Metekel Zone	*	-	-	*	*	*	*	-	-
Dangur	*	-	-	*	*	-	-	-	-
Guba	*	-	-	-	-	-	-	-	-
Wenbera	*	-	-	*	*	*	*	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	*	-	-	-	-	*	*	-	-
Pawe	-	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	5	*	*	*	*	1	20	-	-
Menge	*	-	-	-	-	-	-	-	-
Kurmak	*	-	-	-	-	*	*	-	-
Asosa	*	*	*	*	*	*	*	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	*	*	*	*	*	*	*	-	-
Oda Godere	*	*	*	*	*	*	*	-	-
Komesha	*	-	-	-	-	*	*	-	-
Mao Komo Special	*	-	-	-	-	-	-	-	-
Kemeshi Zone	*	-	-	-	-	*	*	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	*	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	*	-	-	-	-	*	*	-	-

TABLE 6.12.2 URBAN HOLDINGS

Geographic Area	Fruit Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	113	1	0.88	8	7.08	9	7.96	*	*
Metekel Zone	42	1	2.38	4	9.52	8	19.05	*	*
Dangur	*	*	*	1	*	-	-	-	-
Guba	*	-	-	*	*	*	*	-	-
Wenbera	-	-	-	-	-	-	-	-	-
Mandura	1	-	-	-	-	*	*	-	-
Dibate	4	*	*	*	*	*	*	*	*
Pawe	8	*	*	*	*	*	*	*	*
Bulen	9	*	*	*	*	*	*	*	*
Asosa Zone	72	*	*	4	5.56	*	*	*	*
Menge	18	-	-	-	-	-	-	-	-
Kurmak	*	-	-	-	-	-	-	-	-
Asosa	45	*	*	*	*	*	*	*	*
Bambasi	8	-	-	4	50	*	*	-	-

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	%
Benshangul-Gumuz	1256	108	8.6	489	38.93	326	25.96	*	*
Metekel Zone	571	*	*	436	76.36	165	28.9	*	*
Dangur	23	-	-	*	*	7	30.43	*	*
Guba	-	-	-	-	-	-	-	-	-
Wenbera	502	*	*	425	84.66	136	27.09	*	*
Mandura	2	*	*	*	*	*	*	-	-
Dibate	34	*	*	*	*	20	58.82	*	*
Pawe	1	-	-	*	*	*	*	*	*
Bulen	*	*	*	*	*	*	*	-	-
Asosa Zone	657	90	13.7	36	5.48	160	24.35	*	*
Menge	1	*	*	*	*	*	*	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	147	71	48.3	31	21.09	89	60.54	*	*
Sherkole	*	-	-	-	-	-	-	-	-
Bambasi	*	17	*	2	*	30	*	*	*
Oda Godere	2	*	*	-	-	*	*	-	-
Komesha	2	*	*	*	*	1	50	-	-
Mao Komo Special	325	*	*	*	*	39	12	-	-
Kemeshi Zone	28	*	*	*	*	1	3.57	-	-
Yaso	*	-	-	-	-	*	*	-	-
Sirba Abay	*	-	-	-	-	*	*	-	-
Kamashi	*	-	-	-	-	-	-	-	-
Agalo Meti	10	-	-	*	*	*	*	-	-
Belo Jegonfoy	*	*	*	*	*	-	-	-	-

TABLE 6.13.1: RURAL MEHER

Geographic Area	Stimulant Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	1212	98	8.09	468	38.61	307	25.33	*	*
Metekel Zone	542	*	*	416	76.75	149	27.49	*	*
Dangur	23	-	-	*	*	7	30.43	*	*
Guba	-	-	-	-	-	-	-	-	-
Wenbera	482	*	*	405	84.02	121	25.1	*	*
Mandura	1	*	*	*	*	*	*	-	-
Dibate	33	*	*	*	*	20	60.61	*	*
Pawe	1	-	-	*	*	*	*	-	-
Bulen	*	*	*	*	*	*	*	-	-
Asosa Zone	642	85	13.24	35	5.45	156	24.3	*	*
Menge	*	*	*	*	*	*	*	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	137	66	48.18	30	21.9	86	62.77	*	*
Sherkole	*	-	-	-	-	-	-	-	-
Bambasi	*	17	*	*	*	30	*	*	*
Oda Godere	2	*	*	-	-	*	*	-	-
Komesha	2	*	*	*	*	1	50	-	-
Mao Komo Special	325	*	*	*	*	39	12	-	-
Kemeshi Zone	28	*	*	*	*	1	3.57	-	-
Yaso	*	-	-	-	-	*	*	-	-
Sirba Abay	*	-	-	-	-	*	*	-	-
Kamashi	*	-	-	-	-	-	-	-	-
Agalo Meti	10	-	-	*	*	*	*	-	-
Belo Jegonfoy	*	*	*	*	*	-	-	-	-

TABLE 6.13.1a Chat

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	123	*	*	32	26.02	37	30.08	*	*
Metekel Zone	5	*	*	*	*	1	20	*	*
Dangur	*	-	-	*	*	*	*	*	*
Guba	1	-	-	-	-	-	-	-	-
Wenbera	1	-	-	*	*	*	*	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	*	*	*	*	*	*	*	-	-
Pawe	*	-	-	-	-	*	*	-	-
Bulen	*	-	-	*	*	*	*	-	-
Asosa Zone	116	*	*	*	*	36	31.03	*	*
Menge	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	33	*	*	*	*	16	48.48	*	*
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	15	*	*	*	*	6	40	-	-
Oda Godere	-	-	-	-	-	-	-	-	-
Komesha	*	-	-	-	-	*	*	-	-
Mao Komo Special	59	-	-	*	*	14	23.73	-	-
Kemeshi Zone	*	-	-	*	*	*	*	-	-
Yaso	*	-	-	-	-	*	*	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	*	-							-

TABLE 6.13.1b Coffee

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	1032	98	9.5	424	41.09	239	23.16	*	*
Metekel Zone	497	*	*	403	81.09	129	25.96	*	*
Dangur	*	-	-	*	*	*	*	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	465	*	*	397	85.38	112	24.09	*	*
Mandura	1	*	*	*	*	*	*	-	-
Dibate	28	*	*	*	*	16	57.14	-	-
Pawe	*	-	-	*	*	*	*	-	-
Bulen	*	*	*	*	*	*	*	-	-
Asosa Zone	521	85	16.31	17	3.26	109	20.92	*	*
Menge	*	*	*	*	*	*	*	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	92	66	71.74	15	16.3	59	64.13	*	*
Sherkole	*	-	-	-	-	-	-	-	-
Bambasi	*	16	*	*	*	23	*	*	*
Oda Godere	2	*	*	-	-	*	*	-	-
Komesha	2	*	*	*	*	1	50	-	-
Mao Komo Special	266	*	*	*	*	25	9.4	-	-
Kemeshi Zone	14	*	*	*	*	*	*	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	*	-	-	-	-	*	*	-	-
Kamashi	*	-	-	-	-	-	-	-	-
Agalo Meti	10	-	-	*	*	*	*	-	-
Belo Jegonfoy	*	*	*	*	*	-	-	-	-

TABLE 6.13.1c Hops

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	58	*	*	12	20.69	31	53.45	*	*
Metekel Zone	43	*	*	12	27.91	20	46.51	*	*
Dangur	*	-	-	*	*	7	*	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	17	-	-	8	47.06	9	52.94	-	-
Mandura	*	-	-	*	*	-	-	-	-
Dibate	5	-	-	*	*	*	*	*	*
Pawe	*	-	-	*	*	*	*	-	-
Bulen	*	*	*	*	*	-	-	-	-
Asosa Zone	15	-	-	1	6.67	11	73.33	*	*
Menge	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	12	-	-	1	8.33	10	83.33	*	*
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	2	-	-	-	-	1	50	-	-
Oda Godere	-	-	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-	-	-
Mao Komo Special	*	-	-	-	-	*	*	-	-
Kemeshi Zone	*	-	-	-	-	*	*	-	-
Yaso	*	-	-	-	-	*	*	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	*	-	-	-	-	-	-	-	-
Agalo Meti	*	-	-	-	-	*	*	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-	-

TABLE 6.13.2 URBAN HOLDINGS

Geographic Area	Stimulant Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz Killil	44	11	25	21	47.73	19	43.18	*	*
Metekel Zone	30	*	*	21	70	16	53.33	*	*
Dangur	*	-	-	*	*	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	20	*	*	20	100	15	75	-	-
Mandura	1	-	-	-	-	-	-	-	-
Dibate	1	-	-	*	*	*	*	-	-
Pawe	*	-	-	*	*	*	*	*	*
Bulen	*	*	*	*	*	*	*	-	-
Asosa Zone	14	*	*	*	*	*	*	-	-
Menge	*	-	-	*	*	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	10	*	*	*	*	*	*	-	-
Bambasi	5	*	*	*	*	*	*	-	-

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	%
Benshangul-Gumuz	73	*	*	27	36.99	30	41.1	-	-
Metekel Zone	15	-	-	3	20	*	*	-	-
Dangur	*	-	-	*	*	*	*	-	-
Guba	1	-	-	-	-	*	*	-	-
Wenbera	1	-	-	-	-	*	*	-	-
Mandura	*	-	-	*	*	-	-	-	-
Dibate	*	-	-	*	*	*	*	-	-
Pawe	6	-	-	*	*	2	33.33	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	55	*	*	24	43.64	23	41.82	-	-
Menge	*	-	-	-	-	*	*	-	-
Kurmak	*	-	-	-	-	*	*	-	-
Asosa	32	-	-	20	62.5	19	59.38	-	-
Sherkole	*	-	-	-	-	*	*	-	-
Bambasi	12	*	*	3	25	2	16.67	-	-
Oda Godere	*	-	-	-	-	*	*	-	-
Komesha	3	-	-	*	*	*	*	-	-
Mao Komo Special	2	-	-	-	-	*	*	-	-
Kemeshi Zone	3	*	*	*	*	2	66.67	-	-
Yaso	*	-	-	-	-	*	*	-	-
Sirba Abay	*	*	*	*	*	*	*	-	-
Kamashi	1	-	-	-	-	1	100	-	-
Agalo Meti	*	-	-	-	-	-	-	-	-
Belo Jegonfoy	1	-	-	*	*	-	-	-	-

TABLE 6.14.1 RURAL MEHER

Geographic Area	Other permanent crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	69	*	*	26	37.68	30	43.48	-	-
Metekel Zone	11	-	-	*	*	*	*	-	-
Dangur	*	-	-	*	*	*	*	-	-
Guba	1	-	-	-	-	*	*	-	-
Wenbera	1	-	-	-	-	*	*	-	-
Mandura	*	-	-	*	*	-	-	-	-
Dibate	*	-	-	*	*	*	*	-	-
Pawe	6	-	-	*	*	*	*	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	54	*	*	23	42.59	23	42.59	-	-
Menge	*	-	-	-	-	*	*	-	-
Kurmak	*	-	-	-	-	*	*	-	-
Asosa	32	-	-	20	62.5	19	59.38	-	-
Sherkole	*	-	-	-	-	*	*	-	-
Bambasi	11	*	*	2	18.18	2	18.18	-	-
Oda Godere	*	-	-	-	-	*	*	-	-
Komesha	3	-	-	*	*	*	*	-	-
Mao Komo Special	2	-	-	-	-	*	*	-	-
Kemeshi Zone	3	*	*	*	*	2	66.67	-	-
Yaso	*	-	-	-	-	*	*	-	-
Sirba Abay	*	*	*	*	*	*	*	-	-
Kamashi	1	-	-	-	-	1	100.00	-	
Agalo Meti	*	-	-	-	-	-	-	-	-
Belo Jegonfoy	1	-	-	*	*	-	-	-	-

TABLE 6.14.1a Enset

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	4	*	*	*	*	2	50	-	-
Metekel Zone	-	-	-	-	-	-	-	-	-
Dangur	-	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	2	-	-	-	-	*	*	-	-
Menge	-	-	-	-	-	-	-	-	-
Kurmak	*	-	-	-	-	*	*	-	-
Asosa	*	-	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	*	-	-	-	-	*	*	-	-
Oda Godere	*	-	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-	-	-
Mao Komo Special	2	-	-	-	-	*	*	-	-
Kemeshi Zone	2	*	*	*	*	2	100.00	-	
Yaso	*	-	-	-	-	*	*	-	-
Sirba Abay	*	*	*	*	*	*	*	-	-
Kamashi	1	-	-	-	-	1	100.00	-	
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	*	-	-	-	-	-	-	-	-

TABLE 6.14.1b Sugar cane

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	53	*	*	26	49.06	24	45.28	-	-
Metekel Zone	9	-	-	*	*	*	*	-	-
Dangur	*	-	-	*	*	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-	-
Mandura	*	-	-	*	*	-	-	-	-
Dibate	*	-	-	*	*	*	*	-	-
Pawe	5	-	-	*	*	*	*	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	43	*	*	23	53.49	20	46.51	-	-
Menge	-	-	-	-	-	-	-	-	-
Kurmak	*	-	-	-	-	-	-	-	-
Asosa	31	-	-	20	64.52	19	61.29	-	-
Sherkole	-	-	-	-	-	-	-	-	-
Bambasi	10	*	*	2	20	1	10	-	-
Oda Godere	-	-	-	-	-	-	-	-	-
Komesha	*	-	-	*	*	*	*	-	-
Mao Komo Special	*	-	-	-	-	-	-	-	-
Kemeshi Zone	1	-	-	*	*	-	-	-	-
Yaso	-	-	-	-	-	-	-	-	-
Sirba Abay	*	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	*	-	-	-	-	-	-	-	-
Belo Jegonfoy	1	-	-	*	*	-	-	-	-

TABLE 6.14.1c Other of Other Permanent Crops

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz	12	-	-	*	*	3	25	-	-
Metekel Zone	2	-	-	-	-	1	50	-	-
Dangur	*	-	-	-	-	*	*	-	-
Guba	1	-	-	-	-	*	*	-	-
Wenbera	1	-	-	-	-	*	*	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	*	-	-	-	-	*	*	-	-
Pawe	*	-	-	-	-	*	*	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	9	-	-	*	*	*	*	-	-
Menge	*	-	-	-	-	*	*	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	*	-	-	*	*	*	*	-	-
Sherkole	*	-	-	-	-	*	*	-	-
Bambasi	*	-	-	-	-	-	-	-	-
Oda Godere	*	-	-	-	-	*	*	-	-
Komesha	*	-	-	-	-	*	*	-	-
Mao Komo Special	*	-	-	-	-	-	-	-	-
Kemeshi Zone	*	-	-	-	-	*	*	-	-
Yaso	*	-	-	-	-	*	*	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	*	-	-	-	-	-	-	-	-

TABLE 6.14.2 URBAN HOLDINGS

Geographic Area	Other permanent crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Benshangul-Gumuz Killil	5	-	-	1	20	*	*	-	-
Metekel Zone	*	-	-	*	*	*	*	-	-
Dangur	*	-	-	*	*	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-
Pawe	*	-	-	*	*	*	*	-	-
Bulen	-	-	-	-	-	-	-	-	-
Asosa Zone	1	-	-	1	100	-	-	-	-
Menge	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	-	-	-	-	-	-	-	-	-
Bambasi	1	-	-	1	100	-	-	-	-

TABLE 6.15: NUMBER OF HOLDERS APPLYING FERTILIZERS, FERTILIZED AREA, AND QUANTITY OF FERTILIZERS BY CROP TYPE IN RURAL AREAS FOR MEHER SEASON

CROP	Application of total Fertilizers		Application of Fertilizers by Type and Quantity				
			Natural			Chemical – DAP	
	Holders	Hectares	Holders	Hectares	Holders	Hectares	Quintals
TOTAL	57398	22730	52648	14944	5018	3668	1914
Grain Crops	51566	21342	45754	13727	4682	3638	1899
Cereals	48932	17851	43132	11219	3844	2913	1278
Teff	5068	3281	2247	1030	2223	1691	633
Barley	1512	360	1298	251	127	59	38
Wheat	1027	416	667	168	238	145	114
Maize	42683	8223	37813	5507	755	166	134
Sorghum	10647	3790	10314	3670	111	32	9
Finger millet	2451	1699	1246	579	852	809	337
Oats ('Aja')	218	9	203	7	*	*	*
Rice	177	72	*	*	*	*	*
Pulses	10525	1549	9236	858	1003	625	584
Horse beans	2133	241	2102	233	*	*	*
Field peas	1177	256	1088	227	67	*	17
Haricot beans	6116	347	5754	310	93	*	*
Chick peas	527	46	517	45	*	*	*
Lentils	423	17	405	16	*	*	*
Vetch	77	2	77	2	-	-	-
Soya	1145	630	316	17	786	575	550
Fenugreek	103	*	103	*	-	-	-
Gibto	*	*	*	*	-	-	-
Oil Seeds	9316	1905	8650	1616	327	99	37
Neug	2450	849	2336	787	56	*	*
Linseed	506	23	486	21	*	*	*
Ground nuts	1013	44	951	38	*	*	*
Sufflower	156	*	109	*	*	*	-
Sesame	4109	924	3712	710	164	71	26
Rapeseed	2080	62	1977	58	83	*	*
Other Grains	2660	37	2511	35	*	*	*
Vegetables	17740	515	15608	414	385	18	7
Lettuce	*	*	*	*	-	-	-
Head cabbage	372	1	334	1	*	*	*
Kale	387	5	343	2	*	*	-
Tomatoes	289	2	268	2	-	-	-
Green peppers	1100	13	1003	11	*	*	*
Red peppers	11081	327	9133	241	310	17	5
Swiss chard	*	*	*	*	-	-	-
Others	6154	166	5922	157	*	*	*
Root Crops	12078	241	11643	206	175	9	4
Beet root	224	*	224	*	-	-	-
Carrot	261	1	261	1	-	-	-
Onions	1122	9	991	5	39	*	*
Potatoes	1573	46	1454	34	*	*	*
Garlic	2333	12	2212	12	58	*	*
Taro ('Godere')	395	5	364	4	-	-	-
Sweet potatoes	5682	90	5577	84	*	2	*
Others	2805	79	2700	66	-	-	-
Permanent Crops	23126	632	22471	597	191	3	*
Fruit Crops	18335	295	17764	266	69	1	*
Avocado	328	*	328	*	-	-	-
Bananas	6916	92	6737	85	*	*	-
Guava (Zeytuna)	1080	5	1080	5	-	-	-
Lemons	1006	8	970	8	-	-	-
Mangoes	9227	124	8765	105	41	1	*
Oranges	1417	9	1384	8	-	-	-
Papayas	7641	52	7537	51	*	*	*
Pineapples	*	*	*	*	-	-	-
Others	264	2	233	2	*	*	-
Stimulant Crops	13102	307	12995	302	*	*	*
Chat	4030	37	3977	36	*	*	*
Coffee	9855	239	9735	235	*	*	*
Hops	4904	31	4881	31	*	*	*
Others	*	*	*	*	-	-	-
Other Permanent Crops	2263	30	2160	29	61	*	*
Enset	163	2	137	2	18	*	-
Sugar Cane	1630	24	1630	24	-	-	-
Others	489	3	412	3	*	*	*

TABLE 6.15 CONTD.

CROP	Application of Fertilizers by Type and Quantity					
	Chemical – UREA			Chemical - DAP & UREA		
	Holders	Hectares	Quintals	Holders	Hectares	Quintals
TOTAL	2952	704	277	6765	3413	4258
Grain Crops	1428	638	237	6485	3339	4239
Cereals	1222	496	211	6409	3223	4141
Teff	271	123	40	627	437	313
Barley	*	*	*	*	*	*
Wheat	*	*	*	96	58	32
Maize	549	91	70	5641	2459	3609
Sorghum	125	52	*	140	37	*
Finger millet	228	143	54	142	*	*
Oats ('Aja')	-	-	-	-	-	-
Rice	*	*	*	65	*	*
Pulses	*	*	*	334	44	*
Horse beans	-	-	-	-	-	-
Field peas	-	-	-	*	*	*
Haricot beans	-	-	-	284	22	*
Chick peas	-	-	-	-	-	-
Lentils	-	-	-	*	*	*
Vetch	-	-	-	-	-	-
Soya	*	*	*	*	*	*
Fenugreek	-	-	-	-	-	-
Gibto	-	-	-	*	*	*
Oil Seeds	204	*	14	188	72	71
Neug	-	-	-	*	*	*
Linseed	-	-	-	*	*	*
Ground nuts	*	*	*	44	3	*
Sufflower	*	*	*	-	-	-
Sesame	174	*	11	62	27	*
Rapeseed	*	*	*	*	*	-
Other Grains	*	*	*	*	*	*
Vegetables	1589	54	25	606	29	13
Lettuce	-	-	-	-	-	-
Head cabbage	*	*	*	*	*	*
Kale	*	*	*	*	*	-
Tomatoes	-	-	-	*	*	-
Green peppers	*	*	*	*	*	*
Red peppers	1532	52	24	317	17	13
Swiss chard	-	-	-	-	-	-
Others	*	*	*	188	8	-
Root Crops	168	*	*	304	18	*
Beet root	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Onions	*	*	*	*	*	*
Potatoes	*	*	*	*	*	*
Garlic	*	*	*	*	*	*
Taro ('Godere')	*	*	*	*	*	-
Sweet potatoes	*	*	*	*	*	-
Others	*	*	*	*	*	-
Permanent Crops	360	5	7	539	28	*
Fruit Crops	267	3	6	483	26	*
Avocado	-	-	-	-	-	-
Bananas	*	*	*	176	7	*
Guava (Zeytuna)	-	-	-	-	-	-
Lemons	-	-	-	*	*	-
Mangoes	164	1	3	352	17	-
Oranges	*	*	*	*	*	-
Papayas	*	*	*	84	*	-
Pineapples	-	-	-	-	-	-
Others	*	*	*	*	*	-
Stimulant Crops	*	*	*	127	*	*
Chat	*	*	*	*	*	-
Coffee	*	*	*	107	*	*
Hops	-	-	-	-	-	-
Others	-	-	-	-	-	-
Other Permanent Crops	*	*	*	-	-	-
Enset	*	*	*	-	-	-
Sugar Cane	*	*	*	-	-	-
Others	*	*	*	-	-	-

TABLE 6.15.1 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	5255	335	5255	335	-	-	-
Grain Crops	2445	142	2445	142	-	-	-
Cereals	2356	120	2356	120	-	-	-
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-
Maize	2356	120	2356	120	-	-	-
Sorghum	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-
Oats ('Aja')	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulses	1156	21	1156	21	-	-	-
Horse beans	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-
Haricot beans	1156	21	1156	21	-	-	-
Chick peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-
Soya	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oil Seeds	*	*	*	*	-	-	-
Neug	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-
Sufflower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Rapeseed	*	*	*	*	-	-	-
Other Grains	*	*	*	*	-	-	-
Vegetables	1636	17	1636	17	-	-	-
Lettuce	*	*	*	*	-	-	-
Head cabbage	*	*	*	*	-	-	-
Kale	1008	7	1008	7	-	-	-
Tomatoes	857	6	857	6	-	-	-
Green peppers	*	*	*	*	-	-	-
Red peppers	328	2	328	2	-	-	-
Swiss chard	*	*	*	*	-	-	-
Others	-	-	-	-	-	-	-
Root Crops	3294	172	3294	172	-	-	-
Beet root	*	*	*	*	-	-	-
Carrot	*	*	*	*	-	-	-
Onions	801	7	801	7	-	-	-
Potatoes	2469	163	2469	163	-	-	-
Garlic	130	1	130	1	-	-	-
Taro ('Godere')	-	-	-	-	-	-	-
Sweet potatoes	*	*	*	*	-	-	-
Others	*	*	*	*	-	-	-

TABLE 6.16: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AREAS, FOR PRIVATE HOLDINGS

All Crops							
Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	58032	23061	53568	15275	5018	3668	1914
Metekel Zone	21000	11297	18894	6148	3004	2926	1733
Dangur	2693	1231	2587	677	255	285	150
Guba	166	79	159	77	7	2	1
Wenbera	5155	4404	4709	2493	1148	1264	621
Mandura	1024	461	897	347	73	*	*
Dibate	5389	2332	4960	1216	593	560	298
Pawe	4767	1703	3862	474	869	692	607
Bulen	1806	1087	1719	*	*	*	*
Asosa Zone	29635	7874	28186	6380	1724	473	128
Menge	2308	539	2207	487	*	*	*
Kurmak	1119	435	1066	409	*	*	-
Asosa	13284	3277	12865	2357	1218	355	83
Sherkole	1407	324	1391	322	*	*	-
Bambasi	5461	1561	5182	1422	201	37	*
Oda Godere	3088	1052	3035	1007	*	*	*
Komesha	1017	255	805	118	79	34	*
Mao Komo Special	1950	431	1633	259	149	26	16
Kemeshi Zone	7397	3890	6488	2747	289	268	53
Yaso	1432	355	1394	353	18	*	-
Sirba Abay	1172	581	1152	553	-	-	-
Kamashi	916	892	836	562	139	197	38
Agalo Meti	1175	582	1089	527	68	*	*
Belo Jegonfoy	2701	1479	2018	752	64	37	9

TABEL 6.16: CONTD.

All Crops						
Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	2952	704	277	6765	3413	4258
Metekel Zone	1201	496	202	2763	1726	2118
Dangur	44	*	*	*	249	241
Guba	-	-	-	-	-	-
Wenbera	247	117	60	724	529	536
Mandura	*	*	*	126	52	75
Dibate	136	77	50	910	480	779
Pawe	748	272	79	602	265	348
Bulen	*	*	*	143	*	*
Asosa Zone	1644	149	61	2460	872	854
Menge	*	*	*	87	*	42
Kurmak	*	*	*	*	*	*
Asosa	1220	90	32	1331	475	392
Sherkole	*	*	*	*	*	-
Bambasi	231	27	5	259	75	102
Oda Godere	*	*	*	117	45	46
Komesha	*	*	*	256	102	94
Mao Komo Special	86	19	10	364	127	141
Kemeshi Zone	107	60	14	1542	815	1286
Yaso	*	*	-	*	*	*
Sirba Abay	-	-	-	83	28	35
Kamashi	30	41	9	215	93	127
Agalo Meti	*	*	*	*	*	*
Belo Jegonfoy	53	17	5	1201	673	1117

TABEL 6.16.1: RURAL MEHER

Geographic Level	All Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	57398	22730	52648	14944	5018	3668	1914
Metekel Zone	20664	11076	18442	5927	3004	2926	1733
Dangur	2503	1183	2380	629	255	285	150
Guba	166	79	159	77	7	2	1
Wenbera	5036	4231	4506	2321	1148	1264	621
Mandura	1024	461	897	347	73	*	*
Dibate	5389	2332	4960	1216	593	560	298
Pawe	4740	1702	3822	474	869	692	607
Bulen	1806	1087	1719	*	*	*	*
Asosa Zone	29375	7770	27756	6276	1724	473	128
Menge	2308	539	2207	487	*	*	*
Kurmak	1119	435	1066	409	*	*	-
Asosa	13053	3199	12488	2279	1218	355	83
Sherkole	1407	324	1391	322	*	*	-
Bambasi	5461	1553	5182	1414	201	37	*
Oda Godere	3088	1051	3035	1006	*	*	*
Komesha	988	251	760	114	79	34	*
Mao Komo Special	1950	418	1626	246	149	26	16
Kemeshi Zone	7359	3884	6450	2741	289	268	53
Yaso	1432	355	1394	353	18	*	-
Sirba Abay	1172	581	1152	553	-	-	-
Kamashi	916	892	836	562	139	197	38
Agalo Meti	1137	576	1050	521	68	*	*
Belo Jegonfoy	2701	1479	2018	752	64	37	9

TABEL 6.16.1: CONTD.

Geographic Level	All Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	2952	704	277	6765	3413	4258
Metekel Zone	1201	496	202	2763	1726	2118
Dangur	44	*	*	*	249	241
Guba	-	-	-	-	-	-
Wenbera	247	117	60	724	529	536
Mandura	*	*	*	126	52	75
Dibate	136	77	50	910	480	779
Pawe	748	272	79	602	265	348
Bulen	*	*	*	143	*	*
Asosa Zone	1644	149	61	2460	872	854
Menge	*	*	*	87	*	42
Kurmak	*	*	*	*	*	*
Asosa	1220	90	32	1331	475	392
Sherkole	*	*	*	*	*	-
Bambasi	231	27	5	259	75	102
Oda Godere	*	*	*	117	45	46
Komesha	*	*	*	256	102	94
Mao Komo Special	86	19	10	364	127	141
Kemeshi Zone	107	60	14	1542	815	1286
Yaso	*	*	-	*	*	*
Sirba Abay	-	-	-	83	28	35
Kamashi	30	41	9	215	93	127
Agalo Meti	*	*	*	*	*	*
Belo Jegonfoy	53	17	5	1201	673	1117

TABEL 6.16.2: RURAL BELG

Geographic Level	All Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	5255	335	5255	335	-	-	-
Metekel Zone	2506	221	2506	221	-	-	-
Dangur	781	48	781	48	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	1674	172	1674	172	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	*	*	*	*	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	2699	108	2699	108	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	2321	81	2321	81	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	159	9	159	9	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	131	4	131	4	-	-	-
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	50	6	50	6	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	50	6	50	6	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABEL 6.17: URBAN HOLDINGS.

Geographic Label	All Crops							
	Application of Total Fertilizers		Type of Fertilizer Applied					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Benshangul-Gumuz	997	626	427	100	642	506	28	19
Metekel Zone	871	570	361	78	563	472	28	19
Dangur	123	119	*	*	123	112	-	-
Guba	15	*	15	*	-	-	-	-
Wenbera	138	76	84	30	55	27	28	19
Mandura	36	9	30	8	12	2	-	-
Dibate	53	38	18	*	38	24	-	-
Pawe	298	219	*	4	*	215	-	-
Bulen	208	107	154	15	91	92	-	-
Asosa Zone	126	56	66	22	78	34	-	-
Menge	3	3	-	-	3	3	-	-
Kurmak	3	1	-	-	3	1	-	-
Asosa	53	23	*	6	38	17	-	-
Bambasi	66	30	39	16	34	14	-	-

TABLE 6.18: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Level	Grain Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	52049	21484	46394	13869	4682	3638	1899
Metekel Zone	19174	10703	16427	5610	2867	2914	1726
Dangur	2100	1163	1959	610	255	285	150
Guba	162	78	155	76	7	2	1
Wenbera	4709	4104	3887	2208	1055	1257	617
Mandura	985	454	863	340	73	*	*
Dibate	5045	2202	4397	1093	575	558	297
Pawe	4470	1641	3544	443	843	689	606
Bulen	1704	1062	1622	*	*	*	*
Asosa Zone	26228	7039	24473	5634	1556	457	121
Menge	1969	503	1833	451	*	*	*
Kurmak	1074	422	1022	396	-	-	-
Asosa	12363	2890	11702	2011	1150	350	79
Sherkole	1338	296	1322	294	*	*	-
Bambasi	4482	1343	4291	1242	127	27	*
Oda Godere	2766	978	2705	935	*	*	*
Komesha	752	232	527	100	61	32	*
Mao Komo Special	1483	375	1070	204	149	26	15
Kemeshi Zone	6647	3741	5493	2626	259	267	52
Yaso	1240	345	1223	343	-	-	-
Sirba Abay	1096	544	1067	515	-	-	-
Kamashi	802	874	711	546	139	195	38
Agalo Meti	1087	565	1013	511	55	*	*
Belo Jegonfoy	2421	1414	1478	711	64	37	9

TABLE 6.18: CONTD.

Geographic Level	Grain Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	1428	638	237	6485	3339	4239
Metekel Zone	812	470	185	2709	1709	2114
Dangur	*	*	*	*	249	241
Guba	-	-	-	-	-	-
Wenbera	237	117	58	701	521	533
Mandura	*	*	*	120	52	75
Dibate	112	70	44	910	480	779
Pawe	407	254	68	582	255	346
Bulen	*	*	*	138	*	*
Asosa Zone	552	109	39	2234	840	840
Menge	*	*	*	78	*	42
Kurmak	*	*	*	*	*	*
Asosa	375	71	15	1212	456	386
Sherkole	*	*	*	*	*	-
Bambasi	*	*	*	171	67	*
Oda Godere	-	-	-	117	43	46
Komesha	*	*	*	246	98	93
Mao Komo Special	80	19	10	364	127	141
Kemeshi Zone	64	59	14	1542	790	1286
Yaso	-	-	-	*	*	*
Sirba Abay	-	-	-	83	28	35
Kamashi	21	40	9	215	93	127
Agalo Meti	*	*	*	*	*	*
Belo Jegonfoy	36	16	*	1201	650	1117

TABEL 6.18.1: RURAL MEHER

Geographic Level	Grain Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	51566	21342	45754	13727	4682	3638	1899
Metekel Zone	19075	10649	16263	5555	2867	2914	1726
Dangur	2100	1163	1959	610	255	285	150
Guba	162	78	155	76	7	2	1
Wenbera	4622	4050	3736	2155	1055	1257	617
Mandura	985	454	863	340	73	*	*
Dibate	5045	2202	4397	1093	575	558	297
Pawe	4456	1641	3531	443	843	689	606
Bulen	1704	1062	1622	*	*	*	*
Asosa Zone	25894	6958	24048	5552	1556	457	121
Menge	1969	503	1833	451	*	*	*
Kurmak	1074	422	1022	396	-	-	-
Asosa	12078	2829	11353	1950	1150	350	79
Sherkole	1338	296	1322	294	*	*	-
Bambasi	4461	1336	4270	1235	127	27	*
Oda Godere	2757	977	2696	934	*	*	*
Komesha	734	231	502	100	61	32	*
Mao Komo Special	1483	364	1048	192	149	26	15
Kemeshi Zone	6597	3735	5443	2620	259	267	52
Yaso	1240	345	1223	343	-	-	-
Sirba Abay	1096	544	1067	515	-	-	-
Kamashi	802	874	711	546	139	195	38
Agalo Meti	1037	559	964	505	55	*	*
Belo Jegonfoy	2421	1414	1478	711	64	37	9

TABEL 6.18.1: CONTD.

Geographic Level	Grain Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	1428	638	237	6485	3339	4239
Metekel Zone	812	470	185	2709	1709	2114
Dangur	*	*	*	*	249	241
Guba	-	-	-	-	-	-
Wenbera	237	117	58	701	521	533
Mandura	*	*	*	120	52	75
Dibate	112	70	44	910	480	779
Pawe	407	254	68	582	255	346
Bulen	*	*	*	138	*	*
Asosa Zone	552	109	39	2234	840	840
Menge	*	*	*	78	*	42
Kurmak	*	*	*	*	*	*
Asosa	375	71	15	1212	456	386
Sherkole	*	*	*	*	*	-
Bambasi	*	*	*	171	67	*
Oda Godere	-	-	-	117	43	46
Komesha	*	*	*	246	98	93
Mao Komo Special	80	19	10	364	127	141
Kemeshi Zone	64	59	14	1542	790	1286
Yaso	-	-	-	*	*	*
Sirba Abay	-	-	-	83	28	35
Kamashi	21	40	9	215	93	127
Agalo Meti	*	*	*	*	*	*
Belo Jegonfoy	36	16	*	1201	650	1117

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TABEL 6.18.2 : RURAL BELG

Geographic Level	Grain Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	2445	142	2445	142	-	-	-
Metekel Zone	485	54	485	54	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	461	*	461	*	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	*	*	*	*	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	1910	82	1910	82	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	1655	61	1655	61	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	135	7	135	7	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	39	*	39	*	-	-	-
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	50	6	50	6	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	50	6	50	6	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABEL 6.19: URBAN HOLDINGS

Geographic Label	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
Benshangul-Gumuz	855	575	309	70	594	490	19	*
Metekel Zone	763	529	270	54	531	461	19	*
Dangur	123	119	*	*	123	112	-	-
Guba	-	-	-	-	-	-	-	-
Wenbera	69	45	35	11	28	20	19	*
Mandura	36	9	30	8	6	2	-	-
Dibate	48	37	10	*	38	24	-	-
Pawe	291	218	*	*	*	215	-	-
Bulen	196	100	142	12	91	87	-	-
Asosa Zone	91	46	39	16	64	30	-	-
Menge	3	3	-	-	3	3	-	-
Kurmak	3	1	-	-	3	1	-	-
Asosa	36	19	*	*	*	*	-	-
Bambasi	49	23	26	12	27	11	-	-

TABLE 6.20: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AREAS, FOR PRIVATE HOLDINGS.

Geographic Level	Cereals						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	49505	17971	43895	11339	3844	2913	1278
Metekel Zone	17853	8807	15225	4595	2203	2241	1117
Dangur	1992	1014	1816	495	246	251	*
Guba	149	63	147	62	2	1	1
Wenbera	4515	3574	3597	1733	1035	1216	594
Mandura	956	429	845	316	73	*	*
Dibate	4596	2089	3890	990	564	548	290
Pawe	4072	826	3441	380	223	101	57
Bulen	1572	813	1490	620	*	*	*
Asosa Zone	25429	6069	23627	4702	1454	443	118
Menge	1955	454	1812	405	*	*	*
Kurmak	1049	312	997	286	-	-	-
Asosa	12209	2445	11473	1584	1104	349	79
Sherkole	1284	248	1274	247	-	-	-
Bambasi	4049	1165	3880	1071	106	23	*
Oda Godere	2708	869	2648	825	-	-	-
Komesha	707	219	495	92	61	32	*
Mao Komo Special	1468	358	1048	191	134	22	14
Kemeshi Zone	6223	3095	5043	2042	187	229	43
Yaso	1121	306	1105	304	-	-	-
Sirba Abay	1054	452	1025	424	-	-	-
Kamashi	731	817	620	490	132	195	38
Agalo Meti	1080	493	1006	442	55	*	*
Belo Jegonfoy	2238	1026	1286	382	-	-	-

TABLE 6.20: CONTD.

Geographic Level	Cereals					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	1222	496	211	6409	3223	4141
Metekel Zone	653	340	161	2679	1631	2050
Dangur	*	*	*	*	249	241
Guba	-	-	-	-	-	-
Wenbera	237	117	58	701	508	522
Mandura	-	-	-	110	51	75
Dibate	112	70	44	910	480	779
Pawe	256	124	45	561	221	320
Bulen	*	*	*	138	*	114
Asosa Zone	532	108	38	2197	816	830
Menge	*	*	*	70	*	33
Kurmak	*	*	*	*	*	*
Asosa	355	71	14	1212	441	385
Sherkole	*	*	*	*	*	-
Bambasi	*	*	*	162	65	*
Oda Godere	-	-	-	117	43	46
Komesha	*	*	*	233	94	92
Mao Komo Special	80	19	10	357	126	141
Kemeshi Zone	38	48	12	1534	776	1260
Yaso	-	-	-	*	*	*
Sirba Abay	-	-	-	83	28	35
Kamashi	21	40	9	215	92	127
Agalo Meti	*	*	*	*	*	*
Belo Jegonfoy	*	*	*	1193	639	1093

TABEL 6.20.1 RURAL MEHER

Geographic Level	Cereals						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	48932	17851	43132	11219	3844	2913	1278
Metekel Zone	17694	8753	14993	4541	2203	2241	1117
Dangur	1992	1014	1816	495	246	251	*
Guba	149	63	147	62	2	1	1
Wenbera	4370	3520	3378	1679	1035	1216	594
Mandura	956	429	845	316	73	*	*
Dibate	4596	2089	3890	990	564	548	290
Pawe	4059	826	3428	380	223	101	57
Bulen	1572	813	1490	620	*	*	*
Asosa Zone	25065	6009	23146	4642	1454	443	118
Menge	1955	454	1812	405	*	*	*
Kurmak	1049	312	997	286	-	-	-
Asosa	11904	2401	11080	1540	1104	349	79
Sherkole	1284	248	1274	247	-	-	-
Bambasi	4016	1159	3847	1066	106	23	*
Oda Godere	2700	868	2639	824	-	-	-
Komesha	688	218	470	92	61	32	*
Mao Komo Speciàl	1468	349	1026	183	134	22	14
Kemeshi Zone	6174	3089	4993	2036	187	229	43
Yaso	1121	306	1105	304	-	-	-
Sirba Abay	1054	452	1025	424	-	-	-
Kamashi	731	817	620	490	132	195	38
Agalo Meti	1030	488	957	436	55	*	*
Belo Jegonfoy	2238	1026	1286	382	-	-	-

TABEL 6.20.1 : CONTD.

Geographic Level	Cereals					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	1222	496	211	6409	3223	4141
Metekel Zone	653	340	161	2679	1631	2050
Dangur	*	*	*	*	249	241
Guba	-	-	-	-	-	-
Wenbera	237	117	58	701	508	522
Mandura	-	-	-	110	51	75
Dibate	112	70	44	910	480	779
Pawe	256	124	45	561	221	320
Bulen	*	*	*	138	*	114
Asosa Zone	532	108	38	2197	816	830
Menge	*	*	*	70	*	33
Kurmak	*	*	*	*	*	*
Asosa	355	71	14	1212	441	385
Sherkole	*	*	*	*	*	-
Bambasi	*	*	*	162	65	*
Oda Godere	-	-	-	117	43	46
Komesha	*	*	*	233	94	92
Mao Komo Special	80	19	10	357	126	141
Kemeshi Zone	38	48	12	1534	776	1260
Yaso	-	-	-	*	*	*
Sirba Abay	-	-	-	83	28	35
Kamashi	21	40	9	215	92	127
Agalo Meti	*	*	*	*	*	*
Belo Jegonfoy	*	*	*	1193	639	1093

TABEL 6.20.1a: Teff

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	5068	3281	2247	1030	2223	1691	633
Metekel Zone	2861	2581	1445	890	1125	1245	561
Dangur	476	431	194	88	229	229	*
Guba	-	-	-	-	-	-	-
Wenbera	2201	2033	1123	718	849	987	431
Mandura	*	*	-	-	-	-	-
Dibate	100	65	*	*	*	*	*
Pawe	-	-	-	-	-	-	-
Bulen	75	*	*	*	*	*	*
Asosa Zone	1766	481	570	92	933	318	40
Menge	*	*	*	*	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	1580	452	421	66	933	318	40
Sherkole	*	*	*	*	-	-	-
Bambasi	57	9	44	*	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	*	*	-	-	-	-	-
Mao Komo Special	56	*	37	*	-	-	-
Kemeshi Zone	442	219	231	48	165	128	32
Yaso	134	33	134	33	-	-	-
Sirba Abay	*	*	*	*	-	-	-
Kamashi	132	137	*	*	110	94	27
Agalo Meti	155	45	74	8	55	*	*
Belo Jegonfoy	-	-	-	-	-	-	-

TABEL 6.20.1a CONTD.

Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	271	123	40	627	437	313
Metekel Zone	86	54	*	410	393	304
Dangur	*	*	*	*	*	*
Guba	-	-	-	-	-	-
Wenbera	79	*	*	329	284	224
Mandura	-	-	-	*	*	*
Dibate	-	-	-	-	-	-
Pawe	-	-	-	-	-	-
Bulen	-	-	-	-	-	-
Asosa Zone	163	32	4	182	38	7
Menge	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-
Asosa	146	30	4	163	37	7
Sherkole	-	-	-	-	-	-
Bambasi	*	*	*	-	-	-
Oda Godere	-	-	-	-	-	-
Komesha	*	*	*	-	-	-
Mao Komo Special	-	-	-	*	*	-
Kemeshi Zone	21	37	8	*	*	*
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	*	*	*
Kamashi	21	37	8	-	-	-
Agalo Meti	-	-	-	*	*	*
Belo Jegonfoy	-	-	-	-	-	-

TABEL 6.20.1b: Barley

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	1512	360	1298	251	127	59	38
Metekel Zone	1432	357	1219	248	127	59	38
Dangur	382	87	365	82	*	*	*
Guba	-	-	-	-	-	-	-
Wenbera	1026	268	830	164	119	57	36
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	*	*	*	*	-	-	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	66	*	66	*	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	*	*	*	*	-	-	-
Asosa	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	*	*	*	*	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	*	*	*	*	-	-	-
Belo Jegonfoy	*	*	*	*	-	-	-

TABEL 6.20.1c: Wheat

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	1027	416	667	168	238	145	114
Metekel Zone	976	410	616	162	238	145	114
Dangur	*	*	*	*	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	935	407	576	159	238	145	114
Mandura	-	-	-	-	-	-	-
Dibate	*	*	*	*	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	*	*	*	*	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABEL 6.20.1c:CONTD.

Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	*	*	*	96	58	32
Metekel Zone	*	*	*	96	58	32
Dangur	-	-	-	-	-	-
Guba	-	-	-	-	-	-
Wenbera	*	*	*	96	58	32
Mandura	-	-	-	-	-	-
Dibate	-	-	-	-	-	-
Pawe	-	-	-	-	-	-
Bulen	-	-	-	-	-	-
Asosa Zone	-	-	-	-	-	-
Menge	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-
Asosa	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-
Komesha	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-

TABEL 6.20.1d: Maize

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	42683	8223	37813	5507	755	166	134
Metekel Zone	14817	3061	12940	2000	334	81	64
Dangur	1617	322	1517	161	*	*	-
Guba	9	*	9	*	-	-	-
Wenbera	2866	430	2282	270	140	*	*
Mandura	866	238	790	193	*	*	-
Dibate	4346	1207	3760	747	85	28	44
Pawe	3823	547	3342	344	81	6	4
Bulen	1290	316	1240	285	*	*	*
Asosa Zone	22581	3524	20714	2634	422	86	70
Menge	1841	293	1708	244	*	*	*
Kurmak	587	51	536	24	-	-	-
Asosa	11602	1294	10820	863	168	23	38
Sherkole	242	11	242	11	-	-	-
Bambasi	3869	887	3736	818	*	*	*
Oda Godere	2377	517	2316	474	-	-	-
Komesha	651	179	440	71	50	*	*
Mao Komo Special	1411	293	916	129	134	22	14
Kemeshi Zone	5286	1637	4159	872	-	-	-
Yaso	1057	204	1040	202	-	-	-
Sirba Abay	776	118	743	93	-	-	-
Kamashi	626	407	522	317	-	-	-
Agalo Meti	858	136	838	123	-	-	-
Belo Jegonfoy	1969	773	1016	138	-	-	-

TABEL 6.20.1d: CONTD.

Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	549	91	70	5641	2459	3609
Metekel Zone	237	44	42	2076	937	1541
Dangur	*	*	*	*	*	*
Guba	-	-	-	-	-	-
Wenbera	*	*	*	*	*	*
Mandura	-	-	-	93	45	68
Dibate	*	*	*	850	422	739
Pawe	110	24	19	478	173	286
Bulen	-	-	-	78	30	58
Asosa Zone	301	45	27	2098	760	811
Menge	*	*	*	61	*	33
Kurmak	*	*	*	*	*	*
Asosa	167	*	*	1146	393	368
Sherkole	-	-	-	-	-	-
Bambasi	-	-	-	162	65	*
Oda Godere	-	-	-	117	43	46
Komesha	*	*	*	233	88	92
Mao Komo Special	80	19	10	338	124	139
Kemeshi Zone	*	*	*	1467	762	1256
Yaso	-	-	-	*	*	*
Sirba Abay	-	-	-	74	25	34
Kamashi	-	-	-	211	90	127
Agalo Meti	*	*	*	*	*	*
Belo Jegonfoy	*	*	*	1152	634	1093

TABEL 6.20.1e: Sorghum

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	10647	3790	10314	3670	111	32	9
Metekel Zone	1317	778	1223	747	*	*	2
Dangur	*	*	*	*	-	-	-
Guba	146	63	143	62	2	1	1
Wenbera	514	*	498	*	-	-	-
Mandura	123	59	*	54	*	*	-
Dibate	90	70	90	70	-	-	-
Pawe	112	18	69	*	*	*	*
Bulen	*	*	*	*	-	-	-
Asosa Zone	7224	1934	7048	1859	77	*	*
Menge	553	161	544	160	-	-	-
Kurmak	801	261	801	261	-	-	-
Asosa	2550	646	2445	601	*	*	*
Sherkole	1267	236	1257	235	-	-	-
Bambasi	722	220	688	210	*	*	*
Oda Godere	1062	342	1062	342	-	-	-
Komesha	123	38	112	20	*	*	*
Mao Komo Special	145	30	138	29	-	-	-
Kemeshi Zone	2106	1078	2043	1064	*	*	*
Yaso	193	50	193	50	-	-	-
Sirba Abay	621	329	621	329	-	-	-
Kamashi	211	155	197	152	*	*	*
Agalo Meti	554	301	541	299	-	-	-
Belo Jegonfoy	526	244	491	234	-	-	-

TABEL 6.20.1e: CONTD.

Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	125	52	*	140	37	*
Metekel Zone	*	*	*	39	*	*
Dangur	-	-	-	*	*	*
Guba	-	-	-	-	-	-
Wenbera	*	*	-	-	-	-
Mandura	-	-	-	*	*	*
Dibate	-	-	-	-	-	-
Pawe	*	*	*	*	*	*
Bulen	*	*	-	-	-	-
Asosa Zone	88	*	*	*	*	*
Menge	-	-	-	*	*	-
Kurmak	-	-	-	-	-	-
Asosa	*	*	*	*	*	*
Sherkole	*	*	*	*	*	-
Bambasi	*	*	*	-	-	-
Oda Godere	-	-	-	-	-	-
Komesha	-	-	-	*	*	-
Mao Komo Special	-	-	-	*	*	*
Kemeshi Zone	*	*	*	59	8	*
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	*	*	-
Agalo Meti	-	-	-	*	*	*
Belo Jegonfoy	*	*	*	42	5	-

TABEL 6.20.1f : Finger Millet

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	2451	1699	1246	579	852	809	337
Metekel Zone	1734	1489	689	485	703	696	326
Dangur	*	*	*	*	*	*	*
Guba	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-
Mandura	168	128	*	*	*	*	*
Dibate	797	745	194	124	477	503	239
Pawe	326	192	56	20	109	84	41
Bulen	*	*	*	*	*	*	*
Asosa Zone	415	59	331	46	*	*	*
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	201	*	201	*	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	168	43	83	*	*	*	*
Oda Godere	*	*	*	*	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	302	151	226	49	64	99	5
Yaso	96	20	96	20	-	-	-
Sirba Abay	*	*	*	*	-	-	-
Kamashi	124	116	49	14	64	99	5
Agalo Meti	27	*	27	*	-	-	-
Belo Jegonfoy	46	9	46	9	-	-	-

TABEL 6.20.1.f: CONTD.

Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	228	143	54	142	*	*
Metekel Zone	217	140	53	142	*	*
Dangur	*	*	*	-	-	-
Guba	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-
Mandura	-	-	-	-	-	-
Dibate	56	60	28	69	58	*
Pawe	148	70	20	*	*	*
Bulen	*	*	*	*	*	*
Asosa Zone	-	-	-	-	-	-
Menge	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-
Asosa	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-
Komesha	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-
Kemeshi Zone	*	*	*	-	-	-
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	*	*	*	-	-	-
Agalo Meti	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-

TABEL 6.20.1g: Oats ('Aja')

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	218	9	203	7	*	*	*
Metekel Zone	83	*	68	*	*	*	*
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	78	*	64	*	*	*	*
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	115	2	115	2	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	*	*	*	*	-	-	-
Sherkole	*	*	*	*	-	-	-
Bambasi	-	-	-	-	-	-	-
Oda Godere	70	*	70	*	-	-	-
Komesha	*	*	*	*	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	20	2	20	2	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	*	*	*	*	-	-	-
Kamashi	*	*	*	*	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABEL 6.20.1h : Rice

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	177	72	*	*	*	*	*
Metekel Zone	177	72	*	*	*	*	*
Dangur	*	*	*	*	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	*	*	*	*	-	-	-
Pawe	160	68	*	*	*	*	*
Bulen	-	-	-	-	-	-	-
Asosa Zone	-	-	-	-	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABEL 6.20.1h : CONTD.

Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	*	*	*	65	*	*
Metekel Zone	*	*	*	65	*	*
Dangur	-	-	-	-	-	-
Guba	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-
Mandura	-	-	-	-	-	-
Dibate	-	-	-	-	-	-
Pawe	*	*	*	65	*	*
Bulen	-	-	-	-	-	-
Asosa Zone	-	-	-	-	-	-
Menge	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-
Asosa	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-
Komesha	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-

TABEL 6.20.2: RURAL BELG

Geographic Level	Cereals						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	2356	120	2356	120	-	-	-
Metekel Zone	485	54	485	54	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	461	*	461	*	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	*	*	*	*	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	1822	60	1822	60	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	1586	45	1586	45	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	115	6	115	6	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	39	*	39	*	-	-	-
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	50	6	50	6	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	50	6	50	6	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABEL 6.21: URBAN HOLDINGS

Geographic Label	Cereals							
	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Benshangul-Gumuz	693	485	291	60	434	413	19	12
Metekel Zone	602	442	252	46	371	384	19	12
Dangur	123	113	*	*	119	106	-	-
Guba	-	-	-	-	-	-	-	-
Wenbera	55	32	17	*	19	17	19	12
Mandura	30	8	30	8	-	-	-	-
Dibate	48	37	10	*	38	24	-	-
Pawe	149	151	*	*	103	149	-	-
Bulen	196	100	142	12	91	87	-	-
Asosa Zone	91	43	39	14	64	29	-	-
Menge	3	3	-	-	3	3	-	-
Kurmak	3	1	-	-	3	1	-	-
Asosa	36	19	*	*	*	*	-	-
Bambasi	49	21	26	10	27	11	-	-

TABLE 6.22: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AREAS, FOR PRIVATE HOLDINGS.

Pulses							
Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	11582	1571	10313	879	1003	625	584
Metekel Zone	4871	1208	3943	546	900	616	583
Dangur	590	110	565	94	*	*	*
Guba	35	6	35	6	-	-	-
Wenbera	2038	400	1991	368	78	*	*
Mandura	124	*	124	*	-	-	-
Dibate	906	52	885	49	*	*	*
Pawe	976	616	141	5	767	571	542
Bulen	202	19	202	19	-	-	-
Asosa Zone	5049	241	4736	213	96	*	*
Menge	409	17	396	14	*	*	-
Kurmak	599	53	599	53	-	-	-
Asosa	2749	72	2545	56	*	*	*
Sherkole	57	2	57	2	-	-	-
Bambasi	525	54	504	53	*	*	*
Oda Godere	390	21	381	21	*	*	*
Komesha	169	9	134	5	*	*	-
Mao Komo Special	151	12	120	8	*	*	*
Kemeshi Zone	1662	121	1634	120	*	*	*
Yaso	262	20	262	20	-	-	-
Sirba Abay	436	33	436	33	-	-	-
Kamashi	374	31	358	30	*	*	*
Agalo Meti	249	29	236	29	-	-	-
Belo Jegonfoy	341	8	341	8	-	-	-

TABLE 6.22: CONTD.

Pulses						
Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	*	*	*	334	44	*
Metekel Zone	*	*	*	69	*	*
Dangur	-	-	-	-	-	-
Guba	-	-	-	-	-	-
Wenbera	-	-	-	*	*	*
Mandura	-	-	-	*	*	-
Dibate	-	-	-	-	-	-
Pawe	*	*	*	34	*	*
Bulen	-	-	-	-	-	-
Asosa Zone	-	-	-	244	19	*
Menge	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-
Asosa	-	-	-	*	*	*
Sherkole	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-
Komesha	-	-	-	35	4	-
Mao Komo Special	-	-	-	*	*	-
Kemeshi Zone	-	-	-	*	*	*
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	*	*	-
Agalo Meti	-	-	-	*	*	*
Belo Jegonfoy	-	-	-	-	-	-

TABEL 6.22.1: RURAL MEHER

Pulses							
Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	10525	1549	9236	858	1003	625	584
Metekel Zone	4863	1208	3934	546	900	616	583
Dangur	590	110	565	94	*	*	*
Guba	35	6	35	6	-	-	-
Wenbera	2029	400	1982	368	78	*	*
Mandura	124	*	124	*	-	-	-
Dibate	906	52	885	49	*	*	*
Pawe	976	616	141	5	767	571	542
Bulen	202	19	202	19	-	-	-
Asosa Zone	4000	220	3668	192	96	*	*
Menge	409	17	396	14	*	*	-
Kurmak	599	53	599	53	-	-	-
Asosa	1846	56	1623	40	*	*	*
Sherkole	57	2	57	2	-	-	-
Bambasi	446	52	425	51	*	*	*
Oda Godere	390	21	381	21	*	*	*
Komesha	160	9	125	5	*	*	-
Mao Komo Special	93	*	62	*	*	*	*
Kemeshi Zone	1662	121	1634	120	*	*	*
Yaso	262	20	262	20	-	-	-
Sirba Abay	436	33	436	33	-	-	-
Kamashi	374	31	358	30	*	*	*
Agalo Meti	249	29	236	29	-	-	-
Belo Jegonfoy	341	8	341	8	-	-	-

TABEL 6.22.1: CONTD.

Pulses						
Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	*	*	*	334	44	*
Metekel Zone	*	*	*	69	*	*
Dangur	-	-	-	-	-	-
Guba	-	-	-	-	-	-
Wenbera	-	-	-	*	*	*
Mandura	-	-	-	*	*	-
Dibate	-	-	-	-	-	-
Pawe	*	*	*	34	*	*
Bulen	-	-	-	-	-	-
Asosa Zone	-	-	-	244	19	*
Menge	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-
Asosa	-	-	-	*	*	*
Sherkole	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-
Komesha	-	-	-	35	4	-
Mao Komo Special	-	-	-	*	*	-
Kemeshi Zone	-	-	-	*	*	*
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	*	*	-
Agalo Meti	-	-	-	*	*	*
Belo Jegonfoy	-	-	-	-	-	-

TABEL 6.22.1a : Horse beans

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	2133	241	2102	233	*	*	*
Metekel Zone	2078	237	2047	230	*	*	*
Dangur	431	67	414	64	*	*	*
Guba	-	-	-	-	-	-	-
Wenbera	1519	157	1505	153	*	*	*
Mandura	-	-	-	-	-	-	-
Dibate	77	*	77	*	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	*	*	*	*	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	*	*	*	*	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	*	*	*	*	-	-	-
Yaso	*	*	*	*	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-

TABEL 6.22.1b : Field peas

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	1177	256	1088	227	67	*	17
Metekel Zone	1104	253	1027	224	67	*	17
Dangur	207	35	191	29	*	*	*
Guba	-	-	-	-	-	-	-
Wenbera	830	217	782	195	*	*	*
Mandura	-	-	-	-	-	-	-
Dibate	*	*	*	*	*	*	*
Pawe	-	-	-	-	-	-	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	48	*	48	*	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	*	*	*	*	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	*	*	*	*	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	*	*	*	*	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABEL 6.22.1c : Haricot beans

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	6116	347	5754	310	93	*	*
Metekel Zone	1142	64	1107	56	*	*	*
Dangur	*	*	*	*	-	-	-
Guba	35	6	35	6	-	-	-
Wenbera	*	*	*	*	-	-	-
Mandura	124	*	124	*	-	-	-
Dibate	618	*	618	*	-	-	-
Pawe	113	*	78	*	*	*	*
Bulen	142	*	142	*	-	-	-
Asosa Zone	3412	167	3101	140	75	*	*
Menge	409	17	396	14	*	*	-
Kurmak	566	52	566	52	-	-	-
Asosa	1603	45	1379	28	*	*	*
Sherkole	53	2	53	2	-	-	-
Bambasi	183	*	183	*	-	-	-
Oda Godere	375	19	366	19	*	*	*
Komesha	158	9	123	5	*	*	-
Mao Komo Special	64	*	*	*	*	*	*
Kemeshi Zone	1562	115	1546	114	*	*	*
Yaso	212	14	212	14	-	-	-
Sirba Abay	434	33	434	33	-	-	-
Kamashi	374	31	358	30	*	*	*
Agalo Meti	230	29	230	29	-	-	-
Belo Jegonfoy	311	8	311	8	-	-	-

TABEL 6.22.1C :CONTD.

Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	-	-	-	284	22	*
Metekel Zone	-	-	-	*	*	*
Dangur	-	-	-	-	-	-
Guba	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-
Mandura	-	-	-	*	*	-
Dibate	-	-	-	-	-	-
Pawe	-	-	-	*	*	*
Bulen	-	-	-	-	-	-
Asosa Zone	-	-	-	244	19	*
Menge	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-
Asosa	-	-	-	*	*	*
Sherkole	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-
Komesha	-	-	-	35	4	-
Mao Komo Special	-	-	-	*	*	-
Kemeshi Zone	-	-	-	*	*	-
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	*	*	-
Agalo Meti	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-

TABEL 6.22.1d : Chick peas

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	527	46	517	45	*	*	*
Metekel Zone	*	11	*	11	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	*	11	*	11	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	313	29	303	*	*	*	*
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	*	*	*	*	-	-	-
Sherkole	*	*	*	*	-	-	-
Bambasi	201	*	191	*	*	*	*
Oda Godere	*	*	*	*	-	-	-
Komesha	*	*	*	*	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	46	5	46	5	-	-	-
Yaso	46	5	46	5	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABEL 6.22.1e : Lentils

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	423	17	405	16	*	*	*
Metekel Zone	423	17	405	16	*	*	*
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	418	17	400	16	*	*	*
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	-	-	-	-	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABEL 6.22.1f : Vetch

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	77	2	77	2	-	-	-
Metekel Zone	-	-	-	-	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	77	2	77	2	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	*	*	*	*	-	-	-
Asosa	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	*	*	*	*	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABEL 6.22.1g : Soya beans

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	1145	630	316	17	786	575	550
Metekel Zone	900	617	82	*	775	574	550
Dangur	*	*	*	*	*	*	*
Guba	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	*	*	-	-	*	*	*
Pawe	863	607	63	*	757	565	536
Bulen	*	*	*	*	-	-	-
Asosa Zone	184	13	173	13	*	*	-
Menge	-	-	-	-	-	-	-
Kurmak	*	*	*	*	-	-	-
Asosa	125	*	125	*	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	53	*	*	*	*	*	-
Oda Godere	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	60	*	60	*	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	60	*	60	*	-	-	-

TABEL 6.22.1h : Fenugreek

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	103	*	103	*	-	-	-
Metekel Zone	103	*	103	*	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	61	*	61	*	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	*	*	*	*	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	-	-	-	-	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABEL 6.22.2: RURAL BELG

Pulses							
Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	1156	21	1156	21	-	-	-
Metekel Zone	*	*	*	*	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	*	*	*	*	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	1147	21	1147	21	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	989	16	989	16	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	79	*	79	*	-	-	-
Oda Godere	-	-	-	-	-	-	-
Komesha	*	*	*	*	-	-	-
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABEL 6.23: URBAN HOLDINGS

Geographic Label	Pulses							
	Application of Total Fertilizers		Type of Fertilizers applied					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Benshangul-Gumuz	191	*	24	6	*	*	*	*
Metekel Zone	*	*	18	*	*	*	*	*
Dangur	11	*	-	-	11	*	-	-
Guba	-	-	-	-	-	-	-	-
Wenbera	27	9	18	*	*	*	*	*
Mandura	6	2	-	-	6	2	-	-
Dibate	-	-	-	-	-	-	-	-
Pawe	*	*	-	-	*	*	-	-
Bulen	-	-	-	-	-	-	-	-
Asosa Zone	*	*	*	*	-	-	-	-
Menge	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-
Asosa	*	*	*	*	-	-	-	-
Bambasi	*	*	*	*	-	-	-	-

TABLE 6.24: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AREAS, FOR PRIVATE HOLDINGS .

Geographic Level	Oil Seeds						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	9400	1906	8734	1617	327	99	37
Metekel Zone	2778	675	2363	457	192	57	*
Dangur	350	*	336	21	*	*	*
Guba	45	9	40	8	*	*	-
Wenbera	893	129	827	106	*	*	*
Mandura	79	*	71	*	*	*	-
Dibate	477	*	465	*	*	*	*
Pawe	672	197	386	58	89	*	*
Bulen	*	*	*	*	-	-	-
Asosa Zone	4907	713	4783	703	71	4	*
Menge	322	32	322	32	-	-	-
Kurmak	408	57	408	57	-	-	-
Asosa	2071	369	2052	369	-	-	-
Sherkole	528	39	517	38	*	*	-
Bambasi	775	119	733	113	*	*	*
Oda Godere	649	88	649	88	-	-	-
Komesha	46	4	33	*	*	*	*
Mao Komo Special	108	5	69	*	*	*	*
Kemeshi Zone	1715	518	1588	456	64	37	9
Yaso	131	18	131	18	-	-	-
Sirba Abay	350	57	350	57	-	-	-
Kamashi	201	26	201	26	-	-	-
Agalo Meti	292	37	279	34	-	-	-
Belo Jegonfoy	741	380	627	322	64	37	9

TABEL 6.24: CONTD.

Geographic Level	Oil seeds					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	204	*	14	188	72	71
Metekel Zone	158	*	11	107	*	*
Dangur	*	*	*	-	-	-
Guba	-	-	-	-	-	-
Wenbera	-	-	-	*	*	*
Mandura	-	-	-	*	*	-
Dibate	-	-	-	-	-	-
Pawe	154	*	11	56	*	*
Bulen	-	-	-	*	*	*
Asosa Zone	*	*	*	46	*	*
Menge	-	-	-	*	*	*
Kurmak	-	-	-	-	-	-
Asosa	*	*	*	-	-	-
Sherkole	-	-	-	*	*	-
Bambasi	-	-	-	*	*	-
Oda Godere	-	-	-	-	-	-
Komesha	-	-	-	*	*	*
Mao Komo Special	-	-	-	*	*	-
Kemeshi Zone	*	*	*	*	*	*
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-
Agalo Meti	-	-	-	*	*	*
Belo Jegonfoy	*	*	*	*	*	*

TABLE 6.24.1: RURAL MEHER

Geographic Level	Oil Seeds						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	9316	1905	8650	1616	327	99	37
Metekel Zone	2778	675	2363	457	192	57	*
Dangur	350	*	336	21	*	*	*
Guba	45	9	40	8	*	*	-
Wenbera	893	129	827	106	*	*	*
Mandura	79	*	71	*	*	*	-
Dibate	477	*	465	*	*	*	*
Pawe	672	197	386	58	89	*	*
Bulen	*	*	*	*	-	-	-
Asosa Zone	4823	712	4699	703	71	4	*
Menge	322	32	322	32	-	-	-
Kurmak	408	57	408	57	-	-	-
Asosa	2002	369	1983	369	-	-	-
Sherkole	528	39	517	38	*	*	-
Bambasi	775	119	733	113	*	*	*
Oda Godere	649	88	649	88	-	-	-
Komesha	46	4	33	*	*	*	*
Mao Komo Special	93	5	54	*	*	*	*
Kemeshi Zone	1715	518	1588	456	64	37	9
Yaso	131	18	131	18	-	-	-
Sirba Abay	350	57	350	57	-	-	-
Kamashi	201	26	201	26	-	-	-
Agalo Meti	292	37	279	34	-	-	-
Belo Jegonfoy	741	380	627	322	64	37	9

TABLE 6.24.1: CONTD.

Geographic Level	Oil seeds					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	204	*	14	188	72	71
Metekel Zone	158	*	11	107	*	*
Dangur	*	*	*	-	-	-
Guba	-	-	-	-	-	-
Wenbera	-	-	-	*	*	*
Mandura	-	-	-	*	*	-
Dibate	-	-	-	-	-	-
Pawe	154	*	11	56	*	*
Bulen	-	-	-	*	*	*
Asosa Zone	*	*	*	46	*	*
Menge	-	-	-	*	*	*
Kurmak	-	-	-	-	-	-
Asosa	*	*	*	-	-	-
Sherkole	-	-	-	*	*	-
Bambasi	-	-	-	*	*	-
Oda Godere	-	-	-	-	-	-
Komesha	-	-	-	*	*	*
Mao Komo Special	-	-	-	*	*	-
Kemeshi Zone	*	*	*	*	*	*
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-
Agalo Meti	-	-	-	*	*	*
Belo Jegonfoy	*	*	*	*	*	*

TABLE 6.24.1a: Neug

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	2450	849	2336	787	56	*	*
Metekel Zone	586	395	514	*	*	*	*
Dangur	*	*	*	*	-	-	-
Guba	*	*	*	*	-	-	-
Wenbera	263	98	228	79	*	*	*
Mandura	*	*	*	*	-	-	-
Dibate	*	*	*	*	*	*	*
Pawe	*	*	*	*	-	-	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	1462	403	1420	397	*	*	-
Menge	*	*	*	*	-	-	-
Kurmak	*	*	*	*	-	-	-
Asosa	1068	336	1068	336	-	-	-
Sherkole	58	3	52	*	*	*	-
Bambasi	247	59	218	54	*	*	-
Oda Godere	*	*	*	*	-	-	-
Komesha	*	*	*	*	-	-	-
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	401	51	401	51	-	-	-
Yaso	50	7	50	7	-	-	-
Sirba Abay	*	*	*	*	-	-	-
Kamashi	159	18	159	18	-	-	-
Agalo Meti	24	*	24	*	-	-	-
Belo Jegonfoy	164	24	164	24	-	-	-

TABLE 6.24.1b: Linseed

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	506	23	486	21	*	*	*
Metekel Zone	116	11	107	10	-	-	-
Dangur	*	*	*	*	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	102	9	93	*	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	356	8	344	8	*	*	*
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	*	*	*	*	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	88	*	88	*	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	*	*	-	-	*	*	*
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	35	*	35	*	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	35	*	35	*	-	-	-

TABLE 6.24.1c: Groundnuts

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	1013	44	951	38	*	*	*
Metekel Zone	396	28	338	23	*	*	*
Dangur	*	*	*	*	-	-	-
Guba	*	*	*	*	-	-	-
Wenbera	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	*	*	*	*	-	-	-
Pawe	236	22	178	17	*	*	*
Bulen	-	-	-	-	-	-	-
Asosa Zone	582	15	579	14	*	*	-
Menge	56	*	56	*	-	-	-
Kurmak	60	1	60	1	-	-	-
Asosa	225	*	225	*	-	-	-
Sherkole	30	*	30	*	-	-	-
Bambasi	*	*	*	*	-	-	-
Oda Godere	125	1	125	1	-	-	-
Komesha	27	1	23	1	*	*	-
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	35	1	35	1	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	*	*	*	*	-	-	-
Kamashi	*	*	*	*	-	-	-
Agalo Meti	27	1	27	1	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABLE 6.24.1c: CONTD.

Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	*	*	*	44	3	*
Metekel Zone	*	*	*	36	*	*
Dangur	-	-	-	-	-	-
Guba	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-
Mandura	-	-	-	-	-	-
Dibate	-	-	-	-	-	-
Pawe	*	*	*	36	*	*
Bulen	-	-	-	-	-	-
Asosa Zone	-	-	-	*	*	*
Menge	-	-	-	*	*	*
Kurmak	-	-	-	-	-	-
Asosa	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-
Komesha	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-

TABLE 6.24.1d: Sufflower

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	156	*	109	*	*	*	-
Metekel Zone	*	*	*	*	*	*	-
Dangur	*	*	*	*	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	*	*	*	*	*	*	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	*	*	*	*	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	*	*	*	*	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	*	*	*	*	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABLE 6.24.1e: Sesame

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	4109	924	3712	710	164	71	26
Metekel Zone	501	198	271	48	82	*	*
Dangur	*	*	*	*	*	*	*
Guba	37	7	32	6	*	*	-
Wenbera	*	*	*	*	-	-	-
Mandura	*	*	*	*	-	-	-
Dibate	*	*	*	*	-	-	-
Pawe	372	160	154	28	68	*	*
Bulen	-	-	-	-	-	-	-
Asosa Zone	2144	264	2105	262	*	*	*
Menge	282	30	282	30	-	-	-
Kurmak	349	55	349	55	-	-	-
Asosa	*	*	*	*	-	-	-
Sherkole	457	35	452	35	*	*	-
Bambasi	414	57	402	57	*	*	*
Oda Godere	459	81	459	81	-	-	-
Komesha	*	*	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	1463	462	1336	401	64	37	9
Yaso	84	11	84	11	-	-	-
Sirba Abay	347	57	347	57	-	-	-
Kamashi	64	7	64	7	-	-	-
Agalo Meti	274	35	261	32	-	-	-
Belo Jegonfoy	694	352	581	294	64	37	9

TABLE 6.24.1e: CONTD.

Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	174	*	11	62	27	*
Metekel Zone	129	*	8	*	*	*
Dangur	-	-	-	-	-	-
Guba	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-
Mandura	-	-	-	-	-	-
Dibate	-	-	-	-	-	-
Pawe	129	*	8	*	*	*
Bulen	-	-	-	-	-	-
Asosa Zone	*	*	*	*	*	*
Menge	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-
Asosa	*	*	*	-	-	-
Sherkole	-	-	-	*	*	-
Bambasi	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-
Komesha	-	-	-	*	*	*
Mao Komo Special	-	-	-	-	-	-
Kemeshi Zone	*	*	*	*	*	*
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-
Agalo Meti	-	-	-	*	*	*
Belo Jegonfoy	*	*	*	*	*	*

TABLE 6.24.1f: Rapeseed

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	2080	62	1977	58	83	*	*
Metekel Zone	1346	40	1274	36	*	*	*
Dangur	232	6	232	6	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	617	20	566	17	*	*	*
Mandura	*	*	*	*	*	*	-
Dibate	339	*	339	*	-	-	-
Pawe	48	*	*	*	-	-	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	734	22	703	21	*	*	*
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	563	*	563	*	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	*	*	*	*	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	61	*	*	*	*	*	*
Kemeshi Zone	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABLE 6.24.1g: Other Grains

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	2660	37	2511	35	*	*	*
Metekel Zone	992	13	898	12	*	*	-
Dangur	*	*	*	*	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	*	*	*	*	*	*	-
Mandura	63	*	*	*	-	-	-
Dibate	593	*	593	*	-	-	-
Pawe	200	2	133	1	-	-	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	1386	16	1330	16	*	*	*
Menge	*	*	*	*	-	-	-
Kurmak	*	*	*	*	-	-	-
Asosa	686	3	643	2	*	*	*
Sherkole	*	7	*	7	-	-	-
Bambasi	364	5	351	5	*	*	-
Oda Godere	77	*	77	*	-	-	-
Komesha	*	*	*	*	-	-	-
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	282	7	282	7	-	-	-
Yaso	64	1	64	1	-	-	-
Sirba Abay	*	*	*	*	-	-	-
Kamashi	*	*	*	*	-	-	-
Agalo Meti	140	6	140	6	-	-	-
Belo Jegonfoy	45	*	45	*	-	-	-

TABLE 6.25: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AREAS, FOR PRIVATE HOLDINGS

Vegetables							
Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	18555	532	16603	431	385	18	7
Metekel Zone	4136	154	3467	123	101	4	2
Dangur	270	7	250	6	-	-	-
Guba	19	*	19	*	-	-	-
Wenbera	218	*	218	*	-	-	-
Mandura	246	7	240	7	-	-	-
Dibate	1914	81	1859	79	*	*	*
Pawe	1126	36	541	9	60	3	1
Bulen	344	16	340	16	-	-	-
Asosa Zone	12269	301	11129	238	271	*	5
Menge	642	16	642	16	-	-	-
Kurmak	188	5	188	5	-	-	-
Asosa	6541	89	5760	65	152	*	*
Sherkole	543	12	538	11	-	-	-
Bambasi	2271	131	1975	93	*	*	*
Oda Godere	1387	40	1378	39	-	-	-
Komesha	192	3	167	3	*	*	*
Mao Komo Special	504	6	480	6	*	*	*
Kemeshi Zone	2150	78	2007	71	*	*	-
Yaso	464	9	460	9	-	-	-
Sirba Abay	530	33	530	33	-	-	-
Kamashi	138	3	121	2	-	-	-
Agalo Meti	276	6	263	6	*	*	-
Belo Jegonfoy	742	27	633	20	-	-	-

TABLE 6.25:CONTD.

Vegetables						
Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	1589	54	25	606	29	13
Metekel Zone	496	18	10	173	8	2
Dangur	*	*	*	*	*	-
Guba	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-
Mandura	*	*	*	*	*	-
Dibate	*	*	*	-	-	-
Pawe	470	17	9	140	7	2
Bulen	-	-	-	*	*	-
Asosa Zone	1084	35	15	311	14	11
Menge	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-
Asosa	866	14	10	203	5	*
Sherkole	*	*	*	-	-	-
Bambasi	208	21	4	67	7	*
Oda Godere	-	-	-	*	*	-
Komesha	-	-	-	*	*	*
Mao Komo Special	-	-	-	*	*	-
Kemeshi Zone	*	*	*	121	7	-
Yaso	*	*	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	*	*	-
Agalo Meti	-	-	-	-	-	-
Belo Jegonfoy	*	*	*	104	6	-

TABLE 6.25.1: RURAL MEHER

Geographic Level	Vegetables						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	17740	515	15608	414	385	18	7
Metekel Zone	4019	149	3336	119	101	4	2
Dangur	270	7	250	6	-	-	-
Guba	19	*	19	*	-	-	-
Wenbera	138	*	138	*	-	-	-
Mandura	246	7	240	7	-	-	-
Dibate	1914	81	1859	79	*	*	*
Pawe	1088	35	490	8	60	3	1
Bulen	344	16	340	16	-	-	-
Asosa Zone	11572	288	10265	225	271	*	5
Menge	642	16	642	16	-	-	-
Kurmak	188	5	188	5	-	-	-
Asosa	5997	79	5060	55	152	*	*
Sherkole	543	12	538	11	-	-	-
Bambasi	2247	131	1941	93	*	*	*
Oda Godere	1387	40	1378	39	-	-	-
Komesha	121	2	96	2	*	*	*
Mao Komo Special	445	5	422	4	*	*	*
Kemeshi Zone	2150	78	2007	71	*	*	-
Yaso	464	9	460	9	-	-	-
Sirba Abay	530	33	530	33	-	-	-
Kamashi	138	3	121	2	-	-	-
Agalo Meti	276	6	263	6	*	*	-
Belo Jegonfoy	742	27	633	20	-	-	-

TABLE 6.25.1: CONTD.

Geographic Level	Vegetables					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	1589	54	25	606	29	13
Metekel Zone	496	18	10	173	8	2
Dangur	*	*	*	*	*	-
Guba	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-
Mandura	*	*	*	*	*	-
Dibate	*	*	*	-	-	-
Pawe	470	17	9	140	7	2
Bulen	-	-	-	*	*	-
Asosa Zone	1084	35	15	311	14	11
Menge	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-
Asosa	866	14	10	203	5	*
Sherkole	*	*	*	-	-	-
Bambasi	208	21	4	67	7	*
Oda Godere	-	-	-	*	*	-
Komesha	-	-	-	*	*	*
Mao Komo Special	-	-	-	*	*	-
Kemeshi Zone	*	*	*	121	7	-
Yaso	*	*	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	*	*	-
Agalo Meti	-	-	-	-	-	-
Belo Jegonfoy	*	*	*	104	6	-

TABLE 6.25.1a: Head Cabbage

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	372	1	334	1	*	*	*
Metekel Zone	*	*	*	*	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	*	*	*	*	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	298	1	261	1	*	*	*
Menge	*	*	*	*	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	208	*	184	*	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	50	*	50	*	-	-	-
Oda Godere	-	-	-	-	-	-	-
Komesha	*	*	*	*	*	*	*
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	65	*	65	*	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	65	*	65	*	-	-	-

TABLE 6.25.1b: Kale

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	387	5	343	2	*	*	-
Metekel Zone	136	4	92	*	*	*	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-
Mandura	*	*	*	*	-	-	-
Dibate	*	*	*	*	-	-	-
Pawe	81	*	*	*	*	*	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	*	*	*	*	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	*	*	*	*	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	*	*	*	*	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	54	*	54	*	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	54	*	54	*	-	-	-

TABLE 6.25.1c Tomatoes

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	289	2	268	2	-	-	-
Metekel Zone	*	*	*	*	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	*	*	*	*	-	-	-
Wenbera	*	*	*	*	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	*	*	*	*	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	235	*	214	1	-	-	-
Menge	*	*	*	*	-	-	-
Kurmak	34	*	34	*	-	-	-
Asosa	*	*	*	*	-	-	-
Sherkole	*	*	*	*	-	-	-
Bambasi	-	-	-	-	-	-	-
Oda Godere	53	*	53	*	-	-	-
Komesha	*	*	*	*	-	-	-
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	21	*	21	*	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	*	*	*	*	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	*	*	*	*	-	-	-
Belo Jegonfoy	*	*	*	*	-	-	-

TABLE 6.25.1d: Green Peppers

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	1100	13	1003	11	*	*	*
Metekel Zone	431	6	356	4	*	*	*
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	*	*	*	*	-	-	-
Mandura	*	*	*	*	-	-	-
Dibate	175	3	164	2	*	*	*
Pawe	171	*	113	*	*	*	*
Bulen	*	*	*	*	-	-	-
Asosa Zone	*	*	*	*	-	-	-
Menge	*	*	*	*	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	*	*	*	*	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	*	*	*	*	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	*	*	*	*	-	-	-
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	229	5	229	5	-	-	-
Yaso	40	1	40	1	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	24	*	24	*	-	-	-
Belo Jegonfoy	165	4	165	4	-	-	-

TABLE 6.25.1e: Red peppers

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	11081	327	9133	241	310	17	5
Metekel Zone	2831	114	2235	89	67	3	*
Dangur	*	*	*	*	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	84	*	84	*	-	-	-
Mandura	136	2	128	2	-	-	-
Dibate	1573	69	1530	68	*	*	*
Pawe	656	24	136	2	*	*	*
Bulen	277	14	273	14	-	-	-
Asosa Zone	7235	188	5904	127	229	*	4
Menge	48	*	48	*	-	-	-
Kurmak	*	*	*	*	-	-	-
Asosa	4386	53	3371	30	133	*	*
Sherkole	*	*	*	*	-	-	-
Bambasi	2026	128	1710	90	*	*	*
Oda Godere	621	6	621	6	-	-	-
Komesha	*	*	*	*	-	-	-
Mao Komo Special	106	1	106	1	-	-	-
Kemeshi Zone	1016	25	994	25	*	*	-
Yaso	378	7	374	7	-	-	-
Sirba Abay	*	*	*	*	-	-	-
Kamashi	102	1	102	1	-	-	-
Agalo Meti	76	*	63	*	*	*	-
Belo Jegonfoy	396	15	391	15	-	-	-

TABLE 6.25.1e: CONTD.

Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	1532	52	24	317	17	13
Metekel Zone	471	17	9	68	*	*
Dangur	*	*	*	*	*	-
Guba	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-
Mandura	*	*	*	-	-	-
Dibate	*	*	*	-	-	-
Pawe	445	16	8	*	*	*
Bulen	-	-	-	*	*	-
Asosa Zone	1052	35	14	249	12	11
Menge	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-
Asosa	844	14	10	183	5	*
Sherkole	-	-	-	-	-	-
Bambasi	208	21	4	67	7	*
Oda Godere	-	-	-	-	-	-
Komesha	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-
Kemeshi Zone	*	*	*	-	-	-
Yaso	*	*	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-
Belo Jegonfoy	*	*	*	-	-	-

TABLE 6.25.1f: Other Vegetables

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	6154	166	5922	157	*	*	*
Metekel Zone	915	24	871	23	-	-	-
Dangur	*	*	*	*	-	-	-
Guba	11	*	11	*	-	-	-
Wenbera	*	*	*	*	-	-	-
Mandura	92	3	84	3	-	-	-
Dibate	296	*	296	*	-	-	-
Pawe	265	6	228	5	-	-	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	4227	94	4160	93	*	*	*
Menge	561	16	561	16	-	-	-
Kurmak	163	4	163	4	-	-	-
Asosa	1557	23	1538	22	*	*	*
Sherkole	517	11	512	11	-	-	-
Bambasi	225	2	225	2	-	-	-
Oda Godere	880	33	871	33	-	-	-
Komesha	87	2	77	1	-	-	-
Mao Komo Special	237	3	214	3	*	*	*
Kemeshi Zone	1012	48	891	41	-	-	-
Yaso	104	1	104	1	-	-	-
Sirba Abay	461	32	461	32	-	-	-
Kamashi	45	*	28	*	-	-	-
Agalo Meti	187	5	187	5	-	-	-
Belo Jegonfoy	214	8	110	2	-	-	-

TABLE 6.25.1f: CONTD.

Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	*	*	*	188	8	-
Metekel Zone	*	*	*	*	*	-
Dangur	-	-	-	-	-	-
Guba	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-
Mandura	-	-	-	*	*	-
Dibate	-	-	-	-	-	-
Pawe	*	*	*	*	*	-
Bulen	-	-	-	-	-	-
Asosa Zone	*	*	*	*	*	-
Menge	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-
Asosa	-	-	-	-	-	-
Sherkole	*	*	*	-	-	-
Bambasi	-	-	-	-	-	-
Oda Godere	-	-	-	*	*	-
Komesha	-	-	-	*	*	-
Mao Komo Special	-	-	-	*	*	-
Kemeshi Zone	-	-	-	121	7	-
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	*	*	-
Agalo Meti	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	104	6	-

TABLE 6.25.2: RURAL BELG

Vegetables							
Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	1636	17	1636	17	-	-	-
Metekel Zone	140	*	140	*	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	*	*	*	*	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	*	*	*	*	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	1496	13	1496	13	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	1284	10	1284	10	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	58	1	58	1	-	-	-
Oda Godere	-	-	-	-	-	-	-
Komesha	96	*	96	*	-	-	-
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABLE 6.26: URBAN HOLDINGS

Vegtables								
Geographic Label	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Benshangul-Gumuz	39	7	32	4	*	*	-	-
Metekel Zone	*	*	*	*	-	-	-	-
Dangur	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-	-
Bulen	*	*	*	*	-	-	-	-
Asosa Zone	34	6	26	4	*	*	-	-
Menge	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-
Asosa	*	*	*	*	-	-	-	-
Bambasi	32	6	25	4	*	*	-	-

TABLE 6.27: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AREAS, FOR PRIVATE HOLDINGS.

Root Crops							
Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	14110	413	13760	378	175	9	4
Metekel Zone	4670	227	4496	207	95	*	*
Dangur	1230	54	1222	54	*	*	*
Guba	-	-	-	-	-	-	-
Wenbera	2702	155	2625	144	*	*	*
Mandura	-	-	-	-	-	-	-
Dibate	272	*	263	2	-	-	-
Pawe	439	9	361	7	*	*	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	8061	154	7899	141	66	*	*
Menge	238	5	238	4	-	-	-
Kurmak	323	6	323	6	-	-	-
Asosa	4264	84	4156	73	*	*	*
Sherkole	292	10	292	10	-	-	-
Bambasi	1018	16	1018	16	-	-	-
Oda Godere	1021	23	1004	22	-	-	-
Komesha	440	7	409	5	25	*	*
Mao Komo Special	465	5	459	5	-	-	-
Kemeshi Zone	1378	32	1365	30	14	1	1
Yaso	74	*	74	*	-	-	-
Sirba Abay	129	2	129	2	-	-	-
Kamashi	358	14	345	13	14	1	1
Agalo Meti	263	8	263	8	-	-	-
Belo Jegonfoy	555	7	555	7	-	-	-

TABLE 6.27: CONTD.

Root Crops						
Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	168	*	*	304	18	*
Metekel Zone	56	*	*	93	*	*
Dangur	*	*	-	-	-	-
Guba	-	-	-	-	-	-
Wenbera	*	*	*	*	*	*
Mandura	-	-	-	-	-	-
Dibate	*	*	*	-	-	-
Pawe	*	*	*	46	*	-
Bulen	-	-	-	-	-	-
Asosa Zone	111	*	*	198	*	*
Menge	*	*	*	*	*	-
Kurmak	-	-	-	-	-	-
Asosa	*	*	*	*	*	*
Sherkole	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-
Oda Godere	*	*	*	*	*	*
Komesha	-	-	-	*	*	*
Mao Komo Special	*	*	-	-	-	-
Kemeshi Zone	-	-	-	*	*	*
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-
Agalo Meti	-	-	-	*	*	*
Belo Jegonfoy	-	-	-	-	-	-

TABLE 6.27.1: RURAL MEHER

Root Crops							
Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	12078	241	11643	206	175	9	4
Metekel Zone	3284	64	3087	44	95	*	*
Dangur	854	6	836	6	*	*	*
Guba	-	-	-	-	-	-	-
Wenbera	1692	40	1601	29	*	*	*
Mandura	-	-	-	-	-	-	-
Dibate	272	*	263	2	-	-	-
Pawe	439	9	361	7	*	*	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	7416	145	7191	132	66	*	*
Menge	238	5	238	4	-	-	-
Kurmak	323	6	323	6	-	-	-
Asosa	3729	78	3580	67	*	*	*
Sherkole	292	10	292	10	-	-	-
Bambasi	993	16	993	16	-	-	-
Oda Godere	1021	23	1004	22	-	-	-
Komesha	354	4	302	3	25	*	*
Mao Komo Special	465	5	459	5	-	-	-
Kemeshi Zone	1378	32	1365	30	14	1	1
Yaso	74	*	74	*	-	-	-
Sirba Abay	129	2	129	2	-	-	-
Kamashi	358	14	345	13	14	1	1
Agalo Meti	263	8	263	8	-	-	-
Belo Jegonfoy	555	7	555	7	-	-	-

TABLE 6.27.1: CONTD.

Root Crops						
Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	168	*	*	304	18	*
Metekel Zone	56	*	*	93	*	*
Dangur	*	*	-	-	-	-
Guba	-	-	-	-	-	-
Wenbera	*	*	*	*	*	*
Mandura	-	-	-	-	-	-
Dibate	*	*	*	-	-	-
Pawe	*	*	*	46	*	-
Bulen	-	-	-	-	-	-
Asosa Zone	111	*	*	198	*	*
Menge	*	*	*	*	*	-
Kurmak	-	-	-	-	-	-
Asosa	*	*	*	*	*	*
Sherkole	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-
Oda Godere	*	*	*	*	*	*
Komesha	-	-	-	*	*	*
Mao Komo Special	*	*	-	-	-	-
Kemeshi Zone	-	-	-	*	*	*
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-
Agalo Meti	-	-	-	*	*	*
Belo Jegonfoy	-	-	-	-	-	-

TABLE 6.27.1a: Beet root

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	224	*	224	*	-	-	-
Metekel Zone	-	-	-	-	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	178	*	178	*	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	*	*	*	*	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	59	*	59	*	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	*	*	*	*	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	46	*	46	*	-	-	-
Yaso	*	*	*	*	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	*	*	*	*	-	-	-

TABLE 6.27.1b:Carrot

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	261	1	261	1	-	-	-
Metekel Zone	-	-	-	-	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	216	*	216	*	-	-	-
Menge	*	*	*	*	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	137	*	137	*	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	*	*	*	*	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	44	*	44	*	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	44	*	44	*	-	-	-

TABLE 6.27.1c: Onions

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	1122	9	991	5	39	*	*
Metekel Zone	421	2	407	2	*	*	*
Dangur	*	*	*	*	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	269	1	255	1	*	*	*
Mandura	-	-	-	-	-	-	-
Dibate	*	*	*	*	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	536	7	420	3	25	*	*
Menge	*	*	*	*	-	-	-
Kurmak	*	*	*	*	-	-	-
Asosa	*	*	*	*	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	*	*	*	*	-	-	-
Oda Godere	147	1	138	1	-	-	-
Komesha	112	1	65	*	25	*	*
Mao Komo Special	132	1	132	1	-	-	-
Kemeshi Zone	164	1	164	1	-	-	-
Yaso	*	*	*	*	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	*	*	*	*	-	-	-
Belo Jegonfoy	119	*	119	*	-	-	-

TABLE 6.27.1d :Potatoes

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	1573	46	1454	34	*	*	*
Metekel Zone	888	35	796	24	*	*	*
Dangur	*	*	*	*	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	720	32	628	20	*	*	*
Mandura	-	-	-	-	-	-	-
Dibate	90	*	90	*	-	-	-
Pawe	*	*	*	*	-	-	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	502	6	487	6	-	-	-
Menge	*	*	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	*	*	*	*	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	160	2	160	2	-	-	-
Oda Godere	171	2	171	2	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	92	*	86	*	-	-	-
Kemeshi Zone	183	5	170	4	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	*	*	*	*	-	-	-
Kamashi	70	3	70	3	-	-	-
Agalo Meti	50	*	*	*	-	-	-
Belo Jegonfoy	43	*	43	*	-	-	-

TABLE 6.27.1e Garlic

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	2333	12	2212	12	58	*	*
Metekel Zone	1914	11	1858	11	*	*	*
Dangur	759	3	741	3	*	*	*
Guba	-	-	-	-	-	-	-
Wenbera	1103	7	1064	7	*	*	*
Mandura	-	-	-	-	-	-	-
Dibate	*	*	*	*	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	363	1	298	1	*	*	*
Menge	*	*	*	*	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	237	*	178	*	*	*	*
Sherkole	-	-	-	-	-	-	-
Bambasi	47	*	47	*	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	*	*	*	*	*	*	*
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	56	*	56	*	-	-	-
Yaso	15	*	15	*	-	-	-
Sirba Abay	*	*	*	*	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	*	*	*	*	-	-	-
Belo Jegonfoy	*	*	*	*	-	-	-

TABLE 6.27.1f: Taro ('Godere')

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	395	5	364	4	-	-	-
Metekel Zone	195	3	163	3	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	*	*	*	*	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	183	3	151	3	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	181	1	181	1	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	*	*	*	*	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	*	*	*	*	-	-	-
Oda Godere	44	*	44	*	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	*	*	*	*	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	*	*	*	*	-	-	-
Belo Jegonfoy	*	*	*	*	-	-	-

TABLE 6.27.1g: Sweet potatoes

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	5682	90	5577	84	*	2	*
Metekel Zone	447	7	401	5	*	*	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	155	1	155	1	-	-	-
Pawe	292	6	246	4	*	*	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	4203	57	4158	55	*	*	*
Menge	*	*	*	*	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	2571	38	2531	36	*	*	*
Sherkole	*	*	*	*	-	-	-
Bambasi	632	10	632	10	-	-	-
Oda Godere	509	4	509	4	-	-	-
Komesha	187	2	182	2	-	-	-
Mao Komo Special	205	2	205	2	-	-	-
Kemeshi Zone	1032	26	1019	25	14	1	1
Yaso	*	*	*	*	-	-	-
Sirba Abay	98	1	98	1	-	-	-
Kamashi	329	11	316	10	14	1	1
Agalo Meti	230	7	230	7	-	-	-
Belo Jegonfoy	354	6	354	6	-	-	-

TABLE 6.27.1h: Other Root Crops

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	2805	79	2700	66	-	-	-
Metekel Zone	*	*	-	-	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	*	*	-	-	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	2767	73	2672	66	-	-	-
Menge	127	4	127	4	-	-	-
Kurmak	313	5	313	5	-	-	-
Asosa	*	*	*	*	-	-	-
Sherkole	266	9	266	9	-	-	-
Bambasi	150	*	150	*	-	-	-
Oda Godere	389	15	380	14	-	-	-
Komesha	63	*	63	*	-	-	-
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	28	*	28	*	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	*	*	*	*	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	17	*	17	*	-	-	-

TABLE 6.27.2: RURAL BELG

Geographic Level	Root Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	3294	172	3294	172	-	-	-
Metekel Zone	2351	163	2351	163	-	-	-
Dangur	781	48	781	48	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	1570	115	1570	115	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	943	9	943	9	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	787	6	787	6	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	*	*	*	*	-	-	-
Oda Godere	-	-	-	-	-	-	-
Komesha	131	2	131	2	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABLE 6.28: URBAN HOLDINGS

Geographic Label	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
Benshangul-Gumuz	75	16	28	*	28	7	24	6
Metekel Zone	74	16	28	*	27	7	24	6
Dangur	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-
Wenbera	74	16	28	*	27	7	24	6
Mandura	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-
Asosa Zone	*	*	-	-	*	*	-	-
Menge	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-
Asosa	*	*	-	-	*	*	-	-
Bambasi	-	-	-	-	-	-	-	-

TABLE 6.29: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AREAS, FOR MEHER SEASON.

Geographic Level	Permanent Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	23126	632	22471	597	191	3	*
Metekel Zone	6019	213	5862	209	116	*	*
Dangur	1072	8	1062	8	*	*	-
Guba	*	*	*	*	-	-	-
Wenbera	2148	138	2082	135	*	*	*
Mandura	*	*	*	*	-	-	-
Dibate	1427	42	1427	42	-	-	-
Pawe	1138	17	1060	16	*	*	*
Bulen	182	*	177	*	-	-	-
Asosa Zone	15699	379	15457	367	58	1	*
Menge	860	15	851	15	-	-	-
Kurmak	191	3	183	3	*	*	-
Asosa	9353	214	9219	207	*	*	*
Sherkole	310	6	310	6	-	-	-
Bambasi	3040	71	3008	70	*	*	*
Oda Godere	696	12	679	11	-	-	-
Komesha	390	13	354	10	*	*	*
Mao Komo Special	859	45	853	45	-	-	-
Kemeshi Zone	1408	39	1152	20	18	*	-
Yaso	79	*	61	*	18	*	-
Sirba Abay	193	*	193	*	-	-	-
Kamashi	98	2	83	1	-	-	-
Agalo Meti	304	3	291	3	-	-	-
Belo Jegonfoy	734	31	525	13	-	-	-

TABLE 6.29 CONTD:

Geographic Level	Permanent Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	360	5	7	539	28	*
Metekel Zone	75	*	*	*	*	*
Dangur	-	-	-	-	-	-
Guba	-	-	-	-	-	-
Wenbera	*	*	*	*	*	*
Mandura	-	-	-	-	-	-
Dibate	*	*	-	-	-	-
Pawe	*	*	*	*	*	-
Bulen	*	*	-	-	-	-
Asosa Zone	251	*	*	242	8	*
Menge	-	-	-	*	*	-
Kurmak	-	-	-	-	-	-
Asosa	240	*	*	150	4	*
Sherkole	-	-	-	-	-	-
Bambasi	-	-	-	*	*	-
Oda Godere	*	*	-	*	*	-
Komesha	*	*	-	*	3	-
Mao Komo Special	-	-	-	*	*	-
Kemeshi Zone	34	1	*	216	17	-
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	*	*	*	*	*	-
Agalo Meti	*	*	-	-	-	-
Belo Jegonfoy	*	*	-	209	17	-

TABLE 6.30: URBAN HOLDINGS

Geographic Label	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
Benshangul-Gumuz	161	28	152	22	20	*	-	-
Metekel Zone	140	24	135	20	14	*	-	-
Dangur	-	-	-	-	-	-	-	-
Guba	15	*	15	*	-	-	-	-
Wenbera	48	15	43	15	*	*	-	-
Mandura	6	*	6	*	6	*	-	-
Dibate	11	*	11	*	-	-	-	-
Pawe	8	*	8	*	-	-	-	-
Bulen	53	*	53	2	*	*	-	-
Asosa Zone	*	*	*	*	*	*	-	-
Menge	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-
Asosa	*	*	*	*	*	*	-	-
Bambasi	*	*	*	*	-	-	-	-

TABLE 6.31: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AREAS, FOR MEHER SEASON

Geographic Level	Fruit Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	18335	295	17764	266	69	1	*
Metekel Zone	3427	60	3313	58	*	*	*
Dangur	135	*	135	*	-	-	-
Guba	*	*	*	*	-	-	-
Wenbera	765	17	722	16	-	-	-
Mandura	*	*	*	*	-	-	-
Dibate	1240	20	1240	20	-	-	-
Pawe	1077	14	1010	14	*	*	*
Bulen	176	*	171	*	-	-	-
Asosa Zone	13627	200	13399	190	47	1	*
Menge	843	14	834	14	-	-	-
Kurmak	184	2	175	2	*	*	-
Asosa	7960	110	7831	105	*	*	*
Sherkole	305	6	305	6	-	-	-
Bambasi	2656	39	2635	39	*	*	-
Oda Godere	679	11	662	10	-	-	-
Komesha	373	12	337	8	*	*	*
Mao Komo Special	627	6	620	6	-	-	-
Kemeshi Zone	1281	36	1052	18	-	-	-
Yaso	31	*	31	*	-	-	-
Sirba Abay	189	*	189	*	-	-	-
Kamashi	48	*	41	*	-	-	-
Agalo Meti	280	2	267	2	-	-	-
Belo Jegonfoy	734	31	525	13	-	-	-

TABLE 6.31: CONTD.

Geographic Level	Fruit Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	267	3	6	483	26	*
Metekel Zone	55	*	*	*	*	*
Dangur	-	-	-	-	-	-
Guba	-	-	-	-	-	-
Wenbera	*	*	*	*	*	*
Mandura	-	-	-	-	-	-
Dibate	*	*	-	-	-	-
Pawe	*	*	*	*	*	-
Bulen	*	*	-	-	-	-
Asosa Zone	*	*	*	200	7	-
Menge	-	-	-	*	*	-
Kurmak	-	-	-	-	-	-
Asosa	*	*	*	108	*	-
Sherkole	-	-	-	-	-	-
Bambasi	-	-	-	*	*	-
Oda Godere	*	*	-	*	*	-
Komesha	*	*	-	*	3	-
Mao Komo Special	-	-	-	*	*	-
Kemeshi Zone	*	*	-	216	17	-
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	*	*	-
Agalo Meti	*	*	-	-	-	-
Belo Jegonfoy	*	*	-	209	17	-

TABLE 6.31a: Avocado

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	328	*	328	*	-	-	-
Metekel Zone	*	*	*	*	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	*	*	*	*	-	-	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	253	*	253	*	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	*	*	*	*	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	76	*	76	*	-	-	-
Oda Godere	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	52	*	52	*	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	52	*	52	*	-	-	-

TABLE 6.31b: Bananas

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	6916	92	6737	85	*	*	-
Metekel Zone	1703	31	1671	31	-	-	-
Dangur	*	*	*	*	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	610	14	581	13	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	831	12	831	12	-	-	-
Pawe	152	2	152	2	-	-	-
Bulen	97	*	93	*	-	-	-
Asosa Zone	4584	53	4555	50	*	*	-
Menge	*	*	*	*	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	2802	30	2802	30	-	-	-
Sherkole	*	*	*	*	-	-	-
Bambasi	1046	13	1035	13	-	-	-
Oda Godere	165	*	156	*	-	-	-
Komesha	45	2	42	*	*	*	-
Mao Komo Special	456	4	450	3	-	-	-
Kemeshi Zone	628	8	511	4	-	-	-
Yaso	*	*	*	*	-	-	-
Sirba Abay	92	*	92	*	-	-	-
Kamashi	41	*	41	*	-	-	-
Agalo Meti	221	1	208	1	-	-	-
Belo Jegonfoy	268	7	164	2	-	-	-

TABLE 6.31b: CONTD.

Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	*	*	*	176	7	*
Metekel Zone	*	*	-	*	*	*
Dangur	-	-	-	-	-	-
Guba	-	-	-	-	-	-
Wenbera	-	-	-	*	*	*
Mandura	-	-	-	-	-	-
Dibate	-	-	-	-	-	-
Pawe	-	-	-	-	-	-
Bulen	*	*	-	-	-	-
Asosa Zone	*	*	*	*	2	-
Menge	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-
Asosa	*	*	*	-	-	-
Sherkole	-	-	-	-	-	-
Bambasi	-	-	-	*	*	-
Oda Godere	-	-	-	*	*	-
Komesha	-	-	-	*	*	-
Mao Komo Special	-	-	-	*	*	-
Kemeshi Zone	*	*	-	104	5	-
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-
Agalo Meti	*	*	-	-	-	-
Belo Jegonfoy	-	-	-	104	5	-

TABLE 6.31c: Guava (Zeyetuna)

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	1080	5	1080	5	-	-	-
Metekel Zone	147	*	147	*	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	*	*	*	*	-	-	-
Pawe	132	*	132	*	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	933	4	933	4	-	-	-
Menge	79	*	79	*	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	399	*	399	*	-	-	-
Sherkole	*	*	*	*	-	-	-
Bambasi	443	2	443	2	-	-	-
Oda Godere	-	-	-	-	-	-	-
Komesha	*	*	*	*	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABLE 6.31d: Lemons

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	1006	8	970	8	-	-	-
Metekel Zone	282	*	256	*	-	-	-
Dangur	*	*	*	*	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	*	*	-	-	-	-	-
Mandura	*	*	*	*	-	-	-
Dibate	129	*	129	*	-	-	-
Pawe	78	*	66	*	-	-	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	663	5	652	4	-	-	-
Menge	119	1	119	1	-	-	-
Kurmak	*	*	*	*	-	-	-
Asosa	243	1	243	1	-	-	-
Sherkole	66	*	66	*	-	-	-
Bambasi	96	*	96	*	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	79	1	69	*	-	-	-
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	62	*	62	*	-	-	-
Yaso	*	*	*	*	-	-	-
Sirba Abay	*	*	*	*	-	-	-
Kamashi	*	*	*	*	-	-	-
Agalo Meti	*	*	*	*	-	-	-
Belo Jegonfoy	*	*	*	*	-	-	-

TABLE 6.31e: Mangoes

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	9227	124	8765	105	41	1	*
Metekel Zone	896	11	838	10	*	*	*
Dangur	*	*	*	*	-	-	-
Guba	*	*	*	*	-	-	-
Wenbera	186	*	172	*	-	-	-
Mandura	*	*	*	*	-	-	-
Dibate	341	*	341	*	-	-	-
Pawe	272	4	229	4	*	*	*
Bulen	*	*	*	*	-	-	-
Asosa Zone	7683	88	7495	82	*	1	*
Menge	509	8	509	8	-	-	-
Kurmak	108	1	108	1	-	-	-
Asosa	4587	50	4455	47	-	-	-
Sherkole	228	3	228	3	-	-	-
Bambasi	1463	13	1452	13	*	*	-
Oda Godere	395	*	386	*	-	-	-
Komesha	312	7	276	4	*	*	*
Mao Komo Special	82	*	82	*	-	-	-
Kemeshi Zone	648	26	432	12	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	*	*	*	*	-	-	-
Kamashi	*	*	*	*	-	-	-
Agalo Meti	24	*	24	*	-	-	-
Belo Jegonfoy	542	24	333	11	-	-	-

TABLE 6.31e: CONTD.

Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	164	1	3	352	17	-
Metekel Zone	*	*	*	*	*	-
Dangur	-	-	-	-	-	-
Guba	-	-	-	-	-	-
Wenbera	-	-	-	*	*	-
Mandura	-	-	-	-	-	-
Dibate	*	*	-	-	-	-
Pawe	*	*	*	-	-	-
Bulen	-	-	-	-	-	-
Asosa Zone	*	*	*	122	4	-
Menge	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-
Asosa	*	*	*	*	*	-
Sherkole	-	-	-	-	-	-
Bambasi	-	-	-	*	*	-
Oda Godere	-	-	-	*	*	-
Komesha	*	*	-	*	2	-
Mao Komo Special	-	-	-	-	-	-
Kemeshi Zone	*	*	-	216	13	-
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	*	*	-
Agalo Meti	-	-	-	-	-	-
Belo Jegonfoy	*	*	-	209	13	-

TABLE 6.31f : Oranges

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	1417	9	1384	8	-	-	-
Metekel Zone	164	1	164	1	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	*	*	*	*	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	*	*	*	*	-	-	-
Pawe	*	*	*	*	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	1175	7	1143	7	-	-	-
Menge	120	1	120	1	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	508	3	485	3	-	-	-
Sherkole	*	*	*	*	-	-	-
Bambasi	239	1	239	1	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	62	*	51	*	-	-	-
Mao Komo Special	206	2	206	2	-	-	-
Kemeshi Zone	77	*	77	*	-	-	-
Yaso	*	*	*	*	-	-	-
Sirba Abay	*	*	*	*	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	24	*	24	*	-	-	-
Belo Jegonfoy	*	*	*	*	-	-	-

TABLE 6.31g: Papayas

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	7641	52	7537	51	*	*	*
Metekel Zone	1418	10	1384	9	*	*	*
Dangur	*	*	*	*	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	*	*	*	*	-	-	-
Mandura	*	*	*	*	-	-	-
Dibate	499	3	499	3	-	-	-
Pawe	740	6	707	6	*	*	*
Bulen	79	*	79	*	-	-	-
Asosa Zone	6127	42	6056	41	*	*	*
Menge	211	3	202	3	-	-	-
Kurmak	67	*	67	*	-	-	-
Asosa	4267	23	4205	22	*	*	*
Sherkole	91	1	91	1	-	-	-
Bambasi	1210	9	1210	9	-	-	-
Oda Godere	173	*	173	*	-	-	-
Komesha	55	*	55	*	-	-	-
Mao Komo Special	*	*	*	*	-	-	-
Kemeshi Zone	96	*	96	*	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	37	*	37	*	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	29	*	29	*	-	-	-
Belo Jegonfoy	30	*	30	*	-	-	-

TABLE 6.31g: CONTD.

Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	*	*	*	84	*	-
Metekel Zone	*	*	-	*	*	-
Dangur	-	-	-	-	-	-
Guba	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-
Mandura	-	-	-	-	-	-
Dibate	-	-	-	-	-	-
Pawe	*	*	-	*	*	-
Bulen	-	-	-	-	-	-
Asosa Zone	*	*	*	*	*	-
Menge	-	-	-	*	*	-
Kurmak	-	-	-	-	-	-
Asosa	*	*	*	*	*	-
Sherkole	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-
Komesha	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-

TABLE 6.31h: Other Fruit Crops

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	264	2	233	2	*	*	-
Metekel Zone	*	*	*	*	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	*	*	*	*	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	*	*	*	*	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	220	1	203	*	*	*	-
Menge	-	-	-	-	-	-	-
Kurmak	18	*	*	*	*	*	-
Asosa	*	*	*	*	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	*	*	*	*	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	*	*	*	*	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	*	*	*	*	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	*	*	*	*	-	-	-

TABLE 6.32: URBAN HOLDINGS

Fruit crops								
Geographic Label	Application of Total Fertilizers		Application of Fertilizers by Type and Quality					
			Natural		Chemical		Natural and Chemical	
	Holders	Hectars	Holders	Hectars	Holders	Hectars	Holders	Hectars
Benshangul-Gumuz	102	9	102	5	8	*	-	-
Metekel Zone	88	8	88	5	8	*	-	-
Dangur	-	-	-	-	-	-	-	-
Guba	15	*	15	*	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-
Mandura	6	*	6	*	6	*	-	-
Dibate	9	*	9	*	-	-	-	-
Pawe	*	*	*	*	-	-	-	-
Bulen	53	*	53	2	*	*	-	-
Asosa Zone	*	*	*	*	-	-	-	-
Menge	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-
Asosa	*	*	*	*	-	-	-	-
Bambasi	*	*	*	*	-	-	-	-

TABLE 6.33: NUMBER OF HOLDERS APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL ASREAS, FOR MEHER SEASON

Stimulant Crops							
Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	13102	307	12995	302	*	*	*
Metekel Zone	3714	149	3662	147	*	*	*
Dangur	989	7	979	7	*	*	-
Guba	-	-	-	-	-	-	-
Wenbera	1911	121	1868	119	*	*	*
Mandura	*	*	*	*	-	-	-
Dibate	702	20	702	20	-	-	-
Pawe	71	*	71	*	-	-	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	9301	156	9245	154	*	*	*
Menge	*	*	*	*	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	6886	86	6841	83	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	1845	30	1835	30	*	*	*
Oda Godere	*	*	*	*	-	-	-
Komesha	49	1	49	1	-	-	-
Mao Komo Special	456	39	456	39	-	-	-
Kemeshi Zone	87	1	87	1	-	-	-
Yaso	42	*	42	*	-	-	-
Sirba Abay	*	*	*	*	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	37	*	37	*	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

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TABLE 6.33: CONTD.

Geographic Level	Stimulant Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	*	*	*	127	*	*
Metekel Zone	-	-	-	*	*	-
Dangur	-	-	-	-	-	-
Guba	-	-	-	-	-	-
Wenbera	-	-	-	*	*	-
Mandura	-	-	-	-	-	-
Dibate	-	-	-	-	-	-
Pawe	-	-	-	-	-	-
Bulen	-	-	-	-	-	-
Asosa Zone	*	*	*	*	*	*
Menge	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-
Asosa	*	*	*	*	*	*
Sherkole	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-
Komesha	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-

TABLE 6.33a: Chat

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	4030	37	3977	36	*	*	*
Metekel Zone	114	*	114	*	-	-	-
Dangur	*	*	*	*	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	*	*	*	*	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	*	*	*	*	-	-	-
Pawe	*	*	*	*	-	-	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	3916	36	3863	36	*	*	*
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	3033	16	2990	16	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	613	6	602	6	*	*	*
Oda Godere	-	-	-	-	-	-	-
Komesha	*	*	*	*	-	-	-
Mao Komo Special	267	14	267	14	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABLE 6.33b: Coffee

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	9855	239	9735	235	*	*	*
Metekel Zone	1732	129	1690	127	*	*	*
Dangur	*	*	*	*	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	1046	112	1003	110	*	*	*
Mandura	*	*	*	*	-	-	-
Dibate	595	16	595	16	-	-	-
Pawe	*	*	*	*	-	-	-
Bulen	*	*	*	*	-	-	-
Asosa Zone	8092	109	8013	107	*	*	*
Menge	*	*	*	*	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	5988	59	5920	57	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	1643	23	1633	22	*	*	*
Oda Godere	*	*	*	*	-	-	-
Komesha	49	1	49	1	-	-	-
Mao Komo Special	347	25	347	25	-	-	-
Kemeshi Zone	*	*	*	*	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	*	*	*	*	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	*	*	*	*	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABLE 6.33b:CONTD.

Geographic Level	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectar	Quintal	Holder	Hectar	Quintal
Benshangul-Gumuz	*	*	*	107	*	*
Metekel Zone	-	-	-	*	*	-
Dangur	-	-	-	-	-	-
Guba	-	-	-	-	-	-
Wenbera	-	-	-	*	*	-
Mandura	-	-	-	-	-	-
Dibate	-	-	-	-	-	-
Pawe	-	-	-	-	-	-
Bulen	-	-	-	-	-	-
Asosa Zone	*	*	*	*	*	*
Menge	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-
Asosa	*	*	*	*	*	*
Sherkole	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-
Komesha	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-
Yaso	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-

TABLE 6.35b: Sugar Cane

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	1630	24	1630	24	-	-	-
Metekel Zone	67	*	67	*	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	*	*	*	*	-	-	-
Pawe	*	*	*	*	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	1563	20	1563	20	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	1449	19	1449	18	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	110	1	110	1	-	-	-
Oda Godere	-	-	-	-	-	-	-
Komesha	*	*	*	*	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABLE 6.35c: Other of Other Permanent Crops

Geographic Level	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectar	Holder	Hectar	Holder	Hectar	Quintal
Benshangul-Gumuz	489	3	412	3	*	*	*
Metekel Zone	308	1	253	1	*	*	*
Dangur	*	*	*	*	-	-	-
Guba	*	*	*	*	-	-	-
Wenbera	184	*	156	*	*	*	-
Mandura	-	-	-	-	-	-	-
Dibate	*	*	*	*	-	-	-
Pawe	*	*	*	*	*	*	*
Bulen	-	-	-	-	-	-	-
Asosa Zone	166	*	144	*	-	-	-
Menge	*	*	*	*	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	*	*	*	*	-	-	-
Sherkole	*	*	*	*	-	-	-
Bambasi	-	-	-	-	-	-	-
Oda Godere	*	*	*	*	-	-	-
Komesha	*	*	*	*	-	-	-
Mao Komo Special	-	-	-	-	-	-	-
Kemeshi Zone	15	*	15	*	-	-	-
Yaso	15	*	15	*	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

TABLE 6.36: HOLDERS APPLYING IMPROVED SEEDS AND QUANTITY BY TYPE OF CROP FOR RURAL AREAS IN MEHER SEASON, FOR PRIVATE HOLDINGS

Geographic Level	All crop		Grains		Cereals		Teff	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
Benshangul-Gumuz	15101	858	7852	858	7133	705	*	*
Metekel Zone	3454	473	3173	473	2783	324	*	*
Dangur	*	*	*	*	*	*	-	-
Guba	87	*	80	*	80	-	-	-
Wenbera	485	*	407	*	*	*	*	*
Mandura	438	*	421	*	415	*	*	*
Dibate	1129	120	1000	120	955	119	-	-
Pawe	915	229	892	229	586	82	-	-
Bulen	142	11	119	11	109	11	-	-
Asosa Zone	9897	193	2996	193	2741	189	*	*
Menge	234	10	174	10	145	9	-	-
Kurmak	76	*	76	*	51	*	-	-
Asosa	6878	92	1345	92	1345	92	*	*
Sherkole	94	*	91	*	48	*	-	-
Bambasi	1494	13	284	13	224	11	-	-
Oda Godere	239	*	207	*	169	*	-	-
Komesha	302	28	287	28	262	28	-	-
Mao Komo Special	579	35	532	35	497	35	-	-
Kemeshi Zone	1749	192	1683	192	1609	192	3	-
Yaso	69	*	69	*	60	*	3	-
Sirba Abay	125	4	105	4	86	4	-	-
Kamashi	282	21	282	21	272	21	-	-
Agalo Meti	29	1	25	1	19	1	-	-
Belo Jegonfoy	1245	165	1203	165	1171	165	-	-
	Barley		Wheat		Maize		Sorguhm	
Benshangul-Gumuz	*	*	*	*	6345	631	678	8
Metekel Zone	*	*	*	*	2264	254	359	*
Dangur	-	-	-	-	*	*	*	*
Guba	-	-	-	-	*	-	75	-
Wenbera	-	-	*	*	*	*	*	-
Mandura	-	-	-	-	215	*	222	*
Dibate	-	-	-	-	955	114	-	-
Pawe	*	*	-	-	419	45	*	*
Bulen	-	-	-	-	85	9	*	*
Asosa Zone	-	-	-	-	2575	187	190	*
Menge	-	-	-	-	114	9	*	-
Kurmak	-	-	-	-	51	*	-	-
Asosa	-	-	-	-	1303	91	-	-
Sherkole	-	-	-	-	*	*	48	*
Bambasi	-	-	-	-	214	11	*	-
Oda Godere	-	-	-	-	122	*	64	-
Komesha	-	-	-	-	262	28	*	*
Mao Komo Special	-	-	-	-	489	34	*	*
Kemeshi Zone	-	-	-	-	1506	190	129	2
Yaso	-	-	-	-	35	*	28	*
Sirba Abay	-	-	-	-	74	4	28	*
Kamashi	-	-	-	-	237	21	42	*
Agalo Meti	-	-	-	-	-	-	19	1
Belo Jegonfoy	-	-	-	-	1159	165	*	*

TABLE 6.36: 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
Benshangul-Gumuz	15101	858	7852	858	7133	705	*	*
Metekel Zone	3454	473	3173	473	2783	324	*	*
Dangur	*	*	*	*	*	*	-	-
Guba	87	*	80	*	80	-	-	-
Wenbera	485	*	407	*	*	*	*	*
Mandura	438	*	421	*	415	*	*	*
Dibate	1129	120	1000	120	955	119	-	-
Pawe	915	229	892	229	586	82	-	-
Bulen	142	11	119	11	109	11	-	-
Asosa Zone	9897	193	2996	193	2741	189	*	*
Menge	234	10	174	10	145	9	-	-
Kurmak	76	*	76	*	51	*	-	-
Asosa	6878	92	1345	92	1345	92	*	*
Sherkole	94	*	91	*	48	*	-	-
Bambasi	1494	13	284	13	224	11	-	-
Oda Godere	239	*	207	*	169	*	-	-
Komesha	302	28	287	28	262	28	-	-
Mao Komo Special	579	35	532	35	497	35	-	-
Kemeshi Zone	1749	192	1683	192	1609	192	3	-
Yaso	69	*	69	*	60	*	3	-
Sirba Abay	125	4	105	4	86	4	-	-
Kamashi	282	21	282	21	272	21	-	-
Agalo Meti	29	1	25	1	19	1	-	-
Belo Jegonfoy	1245	165	1203	165	1171	165	-	-
	Barley		Wheat		Maize		Sorguhm	
Benshangul-Gumuz	*	*	*	*	6345	631	678	8
Metekel Zone	*	*	*	*	2264	254	359	*
Dangur	-	-	-	-	*	*	*	*
Guba	-	-	-	-	*	-	75	-
Wenbera	-	-	*	*	*	*	*	-
Mandura	-	-	-	-	215	*	222	*
Dibate	-	-	-	-	955	114	-	-
Pawe	*	*	-	-	419	45	*	*
Bulen	-	-	-	-	85	9	*	*
Asosa Zone	-	-	-	-	2575	187	190	*
Menge	-	-	-	-	114	9	*	-
Kurmak	-	-	-	-	51	*	-	-
Asosa	-	-	-	-	1303	91	-	-
Sherkole	-	-	-	-	*	*	48	*
Bambasi	-	-	-	-	214	11	*	-
Oda Godere	-	-	-	-	122	*	64	-
Komesha	-	-	-	-	262	28	*	*
Mao Komo Special	-	-	-	-	489	34	*	*
Kemeshi Zone	-	-	-	-	1506	190	129	2
Yaso	-	-	-	-	35	*	28	*
Sirba Abay	-	-	-	-	74	4	28	*
Kamashi	-	-	-	-	237	21	42	*
Agalo Meti	-	-	-	-	-	-	19	1
Belo Jegonfoy	-	-	-	-	1159	165	*	*

TABLE 6.36: CONTD.

Geographic Area	Millet		Rice		Pulse		Horse bean	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
Benshangul-Gumuz	401	*	92	37	859	151	*	*
Metekel Zone	361	*	92	37	581	149	*	*
Dangur	*	*	-	-	*	-	-	-
Guba	-	-	-	-	66	-	-	-
Wenbera	-	-	-	-	*	-	*	-
Mandura	246	*	-	-	177	-	-	-
Dibate	*	*	-	-	*	*	-	-
Pawe	*	-	92	37	272	147	-	-
Bulen	*	*	-	-	*	*	*	*
Asosa Zone	*	*	-	-	214	*	*	-
Menge	-	-	-	-	*	-	-	-
Kurmak	-	-	-	-	-	-	-	-
Asosa	*	-	-	-	-	-	-	-
Sherkole	-	-	-	-	*	-	-	-
Bambasi	-	-	-	-	50	*	-	-
Oda Godere	-	-	-	-	*	-	-	-
Komesha	-	-	-	-	*	*	-	-
Mao Komo Special	*	*	-	-	*	*	*	-
Kemeshi Zone	10	*	-	-	64	*	-	-
Yaso	10	*	-	-	3	-	-	-
Sirba Abay	-	-	-	-	*	-	-	-
Kamashi	-	-	-	-	34	*	-	-
Agalo Meti	-	-	-	-	12	*	-	-
Belo Jegonfoy	-	-	-	-	*	*	-	-
	Field peas		Haricot Beans		Chick peas		Soya beans	
Benshangul-Gumuz	*	-	577	*	*	*	215	145
Metekel Zone	*	-	329	*	*	*	205	145
Dangur	-	-	*	-	-	-	-	-
Guba	-	-	66	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-
Mandura	-	-	177	-	-	-	-	-
Dibate	*	-	-	-	-	-	*	*
Pawe	-	-	*	*	*	*	196	143
Bulen	-	-	*	-	-	-	-	-
Asosa Zone	*	-	184	*	-	-	*	-
Menge	-	-	*	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-
Asosa	-	-	-	-	-	-	-	-
Sherkole	-	-	*	-	-	-	-	-
Bambasi	*	-	*	*	-	-	*	-
Oda Godere	-	-	*	-	-	-	-	-
Komesha	-	-	*	*	-	-	-	-
Mao Komo Special	-	-	*	*	-	-	-	-
Kemeshi Zone	-	-	64	*	-	-	-	-
Yaso	-	-	3	-	-	-	-	-
Sirba Abay	-	-	*	-	-	-	-	-
Kamashi	-	-	34	*	-	-	-	-
Agalo Meti	-	-	12	*	-	-	-	-
Belo Jegonfoy	-	-	*	*	-	-	-	-

TABLE 6.36: CONTD.

Geographic Area	Oil Seeds		Neug		Ground nuts		Sufflower	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
Benshangul-Gumuz	689	*	68	*	112	*	*	-
Metekel Zone	389	*	60	*	*	*	*	-
Dangur	*	*	*	-	-	-	-	-
Guba	64	*	*	*	-	-	-	-
Wenbera	*	-	*	-	-	-	-	-
Mandura	*	-	-	-	-	-	-	-
Dibate	*	-	-	-	*	-	*	-
Pawe	*	-	*	-	*	-	*	-
Bulen	*	*	-	-	*	*	-	-
Asosa Zone	182	*	-	-	*	*	*	-
Menge	*	*	-	-	*	*	-	-
Kurmak	*	-	-	-	-	-	-	-
Asosa	-	-	-	-	-	-	-	-
Sherkole	*	*	-	-	-	-	-	-
Bambasi	*	-	-	-	-	-	-	-
Oda Godere	*	*	-	-	-	-	*	-
Komesha	28	*	-	-	-	-	-	-
Mao Komo Special	*	*	-	-	-	-	-	-
Kemeshi Zone	118	*	*	-	*	-	-	-
Yaso	15	*	-	-	-	-	-	-
Sirba Abay	24	*	-	-	*	-	-	-
Kamashi	32	*	*	-	*	-	-	-
Agalo Meti	*	*	-	-	-	-	-	-
Belo Jegonfoy	39	-	-	-	-	-	-	-

TABLE 6.36: CONTD.

Geographic Area	Sesame		Rapeseed		Other Grains	
	Holder	Quintal	Holder	Quintal	Holder	Quintal
Benshangul-Gumuz	448	1	*	-	*	-
Metekel Zone	178	*	*	-	*	-
Dangur	*	*	-	-	-	-
Guba	64	-	-	-	-	-
Wenbera	-	-	*	-	*	-
Mandura	*	-	*	-	*	-
Dibate	-	-	-	-	-	-
Pawe	*	-	-	-	-	-
Bulen	*	*	-	-	-	-
Asosa Zone	167	*	-	-	-	-
Menge	*	-	-	-	-	-
Kurmak	*	-	-	-	-	-
Asosa	-	-	-	-	-	-
Sherkole	*	*	-	-	-	-
Bambasi	*	-	-	-	-	-
Oda Godere	*	*	-	-	-	-
Komesha	28	*	-	-	-	-
Mao Komo Special	*	*	-	-	-	-
Kemeshi Zone	103	*	*	-	*	-
Yaso	15	*	-	-	-	-
Sirba Abay	20	*	-	-	-	-
Kamashi	21	*	*	-	*	-
Agalo Meti	*	*	-	-	-	-
Belo Jegonfoy	39	-	-	-	-	-

TABLE 6.36: CONTD.,

Geographic Area	Number of Holders who used Improved Seeds						
	Vegetable	Head cabbage	Kale	Green peppers	Red peppers	Swiss chard	Other Vegetables
Benshangul-Gumuz	118	*	*	*	*	*	*
Metekel Zone	*	-	*	-	*	-	*
Dangur	-	-	-	-	-	-	-
Guba	*	-	-	-	-	-	*
Wenbera	-	-	-	-	-	-	-
Mandura	*	-	-	-	*	-	*
Dibate	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	*	-	*	-	-	-	-
Asosa Zone	*	*	-	-	-	*	*
Menge	*	-	-	-	-	-	*
Kurmak	-	-	-	-	-	-	-
Asosa	*	*	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-	-
Oda Godere	*	-	-	-	-	*	-
Komesha	*	*	-	-	-	-	-
Mao Komo Special	*	-	-	-	-	-	*
Kemeshi Zone	32	18	-	*	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	32	18	-	*	-	-	-

TABLE 6.36: CONTD

Area	Number of Holders who used Improved Seeds						
	Root crops	Beet roots	Carrot	Onion	Potatoes	Garlic	Other root crop
Benshangul-Gumuz	109	*	*	*	*	18	*
Metekel Zone	*	-	-	*	-	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	*	-	-	*	-	-	-
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	*	-	-	*	-	-	-
Asosa Zone	35	*	*	*	*	-	*
Menge	*	-	-	-	-	-	*
Kurmak	-	-	-	-	-	-	-
Asosa	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-	-
Oda Godere	*	*	*	-	-	-	-
Komesha	*	*	-	*	-	-	-
Mao Komo Special	*	-	-	-	*	-	-
Kemeshi Zone	30	*	*	*	-	18	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	30	*	*	*	-	18	-

TABLE 6.36: CONTD.

Geographic Level	Number of Holders who used Improved Seeds						
	Permanent	Fruit crop	Avocado	Banana	Guavas (Zeytuna)	Lemons	Mango
Benshangul-Gumuz	7711	842	259	217	*	*	205
Metekel Zone	357	127	-	75	-	*	*
Dangur	*	*	-	*	-	-	*
Guba	*	*	-	-	-	-	-
Wenbera	*	*	-	-	-	-	*
Mandura	*	*	-	-	-	-	-
Dibate	213	*	-	*	-	-	*
Pawe	*	*	-	*	-	-	-
Bulen	*	*	-	-	-	*	-
Asosa Zone	7301	688	259	122	*	*	170
Menge	*	*	-	-	-	*	*
Kurmak	-	-	-	-	-	-	-
Asosa	5897	458	*	*	*	-	*
Sherkole	*	*	-	-	-	-	-
Bambasi	1243	174	81	*	*	-	*
Oda Godere	*	*	-	-	-	-	-
Komesha	*	-	-	-	-	-	-
Mao Komo Special	*	*	-	*	-	-	-
Kemeshi Zone	54	*	-	*	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	*	*	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	*	*	-	*	-	-	-
Belo Jegonfoy	*	*	-	*	-	-	-

TABLE 6.36: CONTD

Geographic Level	Number of Holders who used Improved Seeds					
	Orange	Papaya	Other fruits	Stimulant	Coffee	Other Permanent Crops
Benshangul-Gumuz	*	74	*	7233	7233	*
Metekel Zone	*	*	-	247	247	-
Dangur	-	-	-	-	-	-
Guba	-	*	-	-	-	-
Wenbera	-	-	-	*	*	-
Mandura	*	-	-	*	*	-
Dibate	-	*	-	185	185	-
Pawe	-	-	-	-	-	-
Bulen	-	-	-	*	*	-
Asosa Zone	-	*	*	6972	6972	*
Menge	-	-	-	*	*	-
Kurmak	-	-	-	-	-	-
Asosa	-	*	*	5725	5725	-
Sherkole	-	*	-	-	-	-
Bambasi	-	*	*	1142	1142	*
Oda Godere	-	-	*	*	*	-
Komesha	-	-	-	*	*	-
Mao Komo Special	-	-	-	*	*	-
Kemeshi Zone	-	*	-	*	*	*
Yaso	-	-	-	-	-	-
Sirba Abay	-	*	-	-	-	*
Kamashi	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	*	*	-

TABLE 6.37:Holders Applying Agricultural Inputs and Participating in Extension Programs by Area 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	127570	100.00	15838	12.42	11115	8.71	59029	46.27	4302	3.37	5738	4.5
Illiterate	85847	67.29	8077	9.41	5772	6.72	36076	42.02	2179	2.54	2765	3.22
Literate, but no formal Education	11704	9.17	2544	21.74	1905	16.28	7248	61.93	860	7.35	959	8.19
Completed Grade 1..	2854	2.24	248	8.69	174	6.1	1396	48.91	*	*	97	3.4
Completed Grade 2..	5678	4.45	964	16.98	685	12.06	2760	48.61	301	5.3	452	7.96
Completed Grade 3..	5098	4.00	781	15.32	527	10.34	2558	50.18	298	5.85	294	5.77
Completed Grade 4..	4436	3.48	763	17.2	569	12.83	2330	52.52	279	6.29	396	8.93
Completed Grade 5..	3589	2.81	638	17.78	505	14.07	2004	55.84	149	4.15	284	7.91
Completed Grade 6..	3229	2.53	549	17	407	12.6	1677	51.94	56	1.73	161	4.99
Completed Grade 7..	1928	1.51	515	26.71	212	11	1128	58.51	*	*	110	5.71
Completed Grade 8..	1141	0.89	239	20.95	150	13.15	679	59.51	-	-	*	*
Completed Grade 9..	606	0.48	160	26.4	107	17.66	382	63.04	*	*	34	5.61
Completed Grade 10	341	0.27	88	25.81	*	*	183	53.67	*	*	*	*
Completed Grade 11	221	0.17	*	*	*	*	168	76.02	-	-	*	*
Completed Grade 12	567	0.44	175	30.86	52	9.17	267	47.09	*	*	55	9.7
Above Grade 12.....	331	0.26	43	12.99	*	*	175	52.87	-	-	*	*
Not Reported	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.37.1: 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	123726	100.00	15460	12.5	10854	8.77	58032	46.9	4159	3.36	5738	4.64
Illiterate	84304	68.14	7952	9.43	5667	6.72	35714	42.36	2113	2.51	2765	3.28
Literate, but no formal Education	11218	9.07	2461	21.94	1873	16.7	7126	63.52	835	7.44	959	8.55
Completed Grade 1..	2806	2.27	245	8.73	174	6.2	1387	49.43	*	*	97	3.46
Completed Grade 2..	5562	4.50	958	17.22	673	12.1	2746	49.37	289	5.2	452	8.13
Completed Grade 3..	4856	3.92	776	15.98	519	10.69	2477	51.01	287	5.91	294	6.05
Completed Grade 4..	4295	3.47	746	17.37	557	12.97	2297	53.48	277	6.45	396	9.22
Completed Grade 5..	3264	2.64	613	18.78	492	15.07	1909	58.49	145	4.44	284	8.7
Completed Grade 6..	3068	2.48	511	16.66	401	13.07	1637	53.36	*	*	161	5.25
Completed Grade 7..	1718	1.39	507	29.51	201	11.7	1085	63.15	*	*	110	6.4
Completed Grade 8..	1066	0.86	217	20.36	136	12.76	647	60.69	-	-	*	*
Completed Grade 9..	474	0.38	152	32.07	*	*	301	63.5	*	*	34	7.17
Completed Grade 10	307	0.25	88	28.66	*	*	171	55.7	*	*	*	*
Completed Grade 11	196	0.16	*	*	*	*	153	78.06	-	-	*	*
Completed Grade 12	336	0.27	152	45.24	*	*	230	68.45	-	-	55	16.37
Above Grade 12.....	255	0.21	29	11.37	-	-	151	59.22	-	-	*	*
Not Reported	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.37.2: 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	123726	100.00	15101	12.21	6778	5.48	57398	46.39	2801	2.26	5563	4.5
Illiterate	84304	68.14	7784	9.23	3223	3.82	35243	41.8	1351	1.6	2718	3.22
Literate, but no formal Education	11218	9.07	2450	21.84	1198	10.68	7076	63.08	656	5.85	888	7.92
Completed Grade 1..	2806	2.27	227	8.09	116	4.13	1378	49.11	*	*	97	3.46
Completed Grade 2..	5562	4.50	937	16.85	530	9.53	2737	49.21	136	2.45	452	8.13
Completed Grade 3..	4856	3.92	700	14.42	376	7.74	2448	50.41	170	3.5	294	6.05
Completed Grade 4..	4295	3.47	746	17.37	378	8.8	2279	53.06	209	4.87	374	8.71
Completed Grade 5..	3264	2.64	600	18.38	316	9.68	1884	57.72	124	3.8	271	8.3
Completed Grade 6..	3068	2.48	501	16.33	297	9.68	1637	53.36	*	*	161	5.25
Completed Grade 7..	1718	1.39	486	28.29	141	8.21	1085	63.15	*	*	99	5.76
Completed Grade 8..	1066	0.86	207	19.42	87	8.16	625	58.63	-	-	*	*
Completed Grade 9..	474	0.38	152	32.07	*	*	301	63.5	*	*	34	7.17
Completed Grade 10	307	0.25	77	25.08	-	-	171	55.7	*	*	*	*
Completed Grade 11	196	0.16	*	*	*	*	153	78.06	-	-	*	*
Completed Grade 12	336	0.27	152	45.24	*	*	230	68.45	-	-	55	16.37
Above Grade 12.....	255	0.21	29	11.37	-	-	151	59.22	-	-	*	*
Not Reported	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.37.3: 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.....	11268	100.00	459	4.07	6411	56.9	5255	46.64	1457	12.93	211	1.87
Illiterate.....	6593	58.51	229	3.47	3410	51.72	3156	47.87	783	11.88	*	*
Literate, but no formal Education.....	1605	14.24	*	*	1196	74.52	734	45.73	221	13.77	*	*
Completed Grade 1.	288	2.56	*	*	114	39.58	159	55.21	*	*	-	-
Completed Grade 2.	627	5.56	*	*	402	64.11	252	40.19	172	27.43	-	-
Completed Grade 3.	574	5.09	*	*	283	49.3	287	50	117	20.38	-	-
Completed Grade 4.	428	3.80	-	-	272	63.55	178	41.59	*	*	*	*
Completed Grade 5.	393	3.49	*	*	257	65.39	151	38.42	*	*	*	*
Completed Grade 6.	349	3.10	*	*	231	66.19	127	36.39	*	*	*	*
Completed Grade 7.	160	1.42	*	*	97	60.63	*	*	*	*	*	*
Completed Grade 8.	170	1.51	*	*	87	51.18	117	68.82	-	-	-	-
Completed Grade 9.	*	*	*	-	-	*	*	*	*	-	-	-
Completed Grade 10	*	*	*	*	*	*	*	-	-	-	-	*
Completed Grade 11	-	-	-	-	-	-	-	-	-	-	-	-
Completed Grade 12	-	-	-	-	-	-	-	-	-	-	-	-
Above Grade 12.....	-	-	-	-	-	-	-	-	-	-	-	-
Not Reported.....	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.37.4: 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	3826	100.00	378	9.88	261	6.82	997	26.06	144	3.76
Illiterate	1541	40.28	125	8.11	105	6.81	363	23.56	66	4.28
Literate, but no formal Education	485	12.68	83	17.11	32	6.6	122	25.15	24	4.95
Completed Grade 1	48	1.25	*	*	-	-	*	*	-	-
Completed Grade 2	116	3.03	*	*	12	10.34	14	12.07	12	10.34
Completed Grade 3	242	6.33	*	*	8	3.31	*	*	12	4.96
Completed Grade 4	141	3.69	*	*	12	8.51	32	22.7	*	*
Completed Grade 5	325	8.49	25	7.69	*	*	*	*	*	*
Completed Grade 6	160	4.18	38	23.75	*	*	40	25	*	*
Completed Grade 7	209	5.46	*	*	*	*	43	20.57	4	1.91
Completed Grade 8	75	1.96	22	29.33	14	18.67	32	42.67	-	-
Completed Grade 9	132	3.45	*	*	*	*	*	*	-	-
Completed Grade 10	34	0.89	-	-	-	-	*	*	*	*
Completed Grade 11	25	0.65	*	*	-	-	*	*	-	-
Completed Grade 12	215	5.62	*	*	*	*	37	17.21	*	*
Above Grade 12	76	1.99	15	19.74	*	*	24	31.58	-	-
Not Reported	-		-	-	-	-	-	-	-	-

TABLE 6.38: 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
Benshangul-Gumuz	127570	85847	11704	2854	5678	5098	4436	3589	3229	1928	1141	606	341	221	567	331
Metekel Zone	50535	34705	4481	882	2010	2033	1605	1551	1171	794	491	253	114	111	133	199
Dangur	6837	5167	630	141	295	195	127	53	84	*	*	*	*	-	-	-
Guba	3950	3273	177	70	101	93	71	59	41	25	13	*	*	-	14	-
Wenbera	8970	5953	482	287	543	455	323	326	224	179	104	*	34	-	*	*
Mandura	5612	4634	272	108	175	149	62	86	31	35	*	*	*	-	6	-
Dibate	9327	6487	1023	139	317	351	338	238	123	135	66	*	*	-	*	*
Pawe	10317	5249	1504	47	295	620	516	677	525	336	164	122	*	96	47	108
Bulen	5521	3942	393	90	283	170	169	113	144	*	53	*	*	*	39	*
Asosa Zone	58400	41012	6530	1216	2154	1844	1723	1247	1093	515	256	180	178	106	268	76
Menge	8645	6718	822	118	249	249	203	78	90	107	2	-	*	-	2	-
Kurmak	3733	2467	524	115	143	136	151	86	61	14	*	-	*	-	1	-
Asosa	18961	11839	2438	363	613	598	811	665	582	250	164	155	140	*	211	45
Sherkole	4453	3792	146	91	155	118	54	63	*	*	*	-	*	-	-	-
Bambasi	9336	6133	1441	66	390	413	276	181	178	101	48	*	*	*	36	*
Oda Godere	6042	4867	219	213	313	110	81	91	*	*	*	*	*	*	*	-
Komesha	2949	2199	341	60	104	75	78	45	48	-	-	-	-	-	-	-
Mao Komo Special	4280	2997	599	192	186	146	69	*	*	*	-	-	-	-	-	-
Kemeshi Zone	18635	10130	692	756	1514	1222	1108	791	965	618	393	173	49	*	166	56
Yaso	3676	2434	210	98	172	164	162	130	182	32	46	-	*	-	*	*
Sirba Abay	2509	1771	77	81	175	177	95	73	37	*	*	*	-	-	-	-
Kamashi	2771	1245	85	158	260	245	298	135	200	63	*	*	*	-	*	*
Agalo Meti	3577	1691	*	175	335	352	260	242	181	155	112	27	*	*	*	-
Belo Jegonfoy	6102	2990	299	243	571	283	294	212	365	355	209	122	-	-	133	*

TABLE 6.38.1: 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
Benshangul-Gumuz	123726	84304	11218	2806	5562	4856	4295	3264	3068	1718	1066	474	307	196	336	255
Metekel Zone	48170	33721	4152	845	1956	1835	1524	1327	1103	658	458	149	96	96	74	175
Dangur	6464	4916	561	137	279	195	123	50	79	*	*	*	*	-	-	-
Guba	3770	3208	151	63	83	85	56	48	33	22	*	*	-	-	7	-
Wenbera	8780	5863	472	287	540	445	303	316	220	168	94	*	*	-	*	-
Mandura	5509	4604	260	90	169	137	56	86	31	*	*	*	*	-	-	-
Dibate	9128	6411	973	136	315	335	322	231	114	126	66	*	*	-	-	*
Pawe	9308	4904	1373	47	290	478	508	497	516	246	164	41	*	96	*	99
Bulen	5210	3816	363	84	281	161	157	99	110	*	*	*	-	-	*	*
Asosa Zone	56921	40452	6374	1206	2093	1799	1663	1146	1001	442	214	153	163	96	97	*
Menge	8611	6713	815	118	246	247	200	70	86	107	-	-	*	-	-	-
Kurmak	3723	2467	523	115	143	136	150	85	60	*	*	-	*	-	-	-
Asosa	18077	11555	2350	353	592	571	781	595	519	211	145	136	132	*	*	-
Sherkole	4453	3792	146	91	155	118	54	63	*	*	*	-	*	-	-	-
Bambasi	8786	5862	1382	66	353	397	250	159	153	72	*	*	-	*	*	*
Oda Godere	6042	4867	219	213	313	110	81	91	*	*	*	*	*	*	*	-
Komesha	2949	2199	341	60	104	75	78	45	48	-	-	-	-	-	-	-
Mao Komo Special	4280	2997	599	192	186	146	69	*	*	*	-	-	-	-	-	-
Kemeshi Zone	18635	10130	692	756	1514	1222	1108	791	965	618	393	173	49	*	166	56
Yaso	3676	2434	210	98	172	164	162	130	182	32	46	-	*	-	*	*
Sirba Abay	2509	1771	77	81	175	177	95	73	37	*	*	*	-	-	-	-
Kamashi	2771	1245	85	158	260	245	298	135	200	63	*	*	*	-	*	*
Agalo Meti	3577	1691	*	175	335	352	260	242	181	155	112	27	*	*	*	-
Belo Jegonfoy	6102	2990	299	243	571	283	294	212	365	355	209	122	-	-	133	*

TABLE 6.38.2: 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
Benshangul-Gumuz	11268	6593	1605	288	627	574	428	393	349	160	170	*	*	-	-	-
Metekel Zone	4369	2656	385	180	282	249	119	162	166	85	64	*	*	-	-	-
Dangur	1170	884	143	*	*	-	*	*	-	*	*	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wenbera	3039	1699	207	162	229	236	72	127	166	77	45	*	*	-	-	-
Mandura	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pawe	160	*	*	-	-	*	*	*	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asosa Zone	6531	3754	1209	80	318	325	272	195	170	*	*	*	-	-	-	-
Menge	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asosa	4149	2264	807	*	187	172	202	164	*	*	*	*	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bambasi	1788	1158	304	*	87	117	45	*	56	-	-	-	-	-	-	-
Oda Godere	68	*	-	-	*	-	-	-	-	-	-	-	-	-	-	-
Komesha	242	114	73	-	*	-	*	*	*	-	-	-	-	-	-	-
Mao Komo Special	274	158	*	*	*	*	*	-	*	-	-	-	-	-	-	-
Kemeshi Zone	369	183	*	*	*	-	*	37	*	*	-	-	*	-	-	-
Yaso	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kamashi	80	19	*	*	-	-	*	*	-	*	-	-	*	-	-	-
Agalo Meti	289	163	-	*	*	-	*	*	*	-	-	-	*	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.38.3: 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
Benshangul-Gumuz	3826	1541	485	48	116	242	141	325	160	209	75	132	34	25	215	76
Metekel Zone	2365	984	329	38	54	197	81	224	68	136	34	104	19	*	59	24
Dangur	373	251	70	*	16	-	*	*	*	*	*	*	*	-	-	-
Guba	180	65	26	*	18	*	15	11	*	*	*	*	*	-	*	-
Wenbera	190	90	*	-	*	*	20	*	*	*	*	*	*	-	*	*
Mandura	103	30	12	18	6	12	6	-	-	6	6	-	-	-	6	-
Dibate	199	76	50	*	*	16	16	*	9	9	-	*	*	-	*	-
Pawe	1009	345	132	-	*	*	*	*	*	*	-	*	-	-	*	9
Bulen	311	126	31	*	*	9	*	14	34	*	*	*	*	*	29	*
Asosa Zone	1460	557	156	*	62	45	61	101	92	73	41	28	*	*	156	52
Menge	34	5	7	-	3	2	3	8	3	-	2	-	-	-	2	-
Kurmak	10	-	1	-	-	-	1	1	1	5	-	-	-	-	1	-
Asosa	866	281	*	*	*	27	*	*	63	39	20	19	*	*	137	45
Bambasi	550	271	60	-	37	16	26	22	25	29	20	9	*	*	16	*

TABLE 6.39: 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
Benshangul-Gumuz	15838	8077	2544	248	964	781	763	638	549	515	239	160	88	*	175	43
Metekel Zone	3972	1943	604	37	210	248	194	178	199	142	76	42	*	*	*	26
Dangur	381	242	94	*	*	-	*	*	*	*	*	-	*	-	-	-
Guba	87	75	*	-	-	*	-	-	-	-	*	-	-	-	-	-
Wenbera	696	325	*	*	*	*	-	-	*	*	*	-	*	-	*	*
Mandura	444	256	107	-	*	*	-	-	*	*	*	*	-	-	-	-
Dibate	1173	606	162	-	92	*	77	85	*	*	*	*	*	-	-	-
Pawe	1017	368	164	*	-	123	107	76	83	*	*	*	-	*	*	*
Bulen	174	71	*	-	*	*	*	*	*	-	*	*	-	-	*	-
Asosa Zone	10085	5600	1877	145	422	454	501	376	302	151	*	*	*	*	*	-
Menge	237	143	69	-	-	*	-	-	-	*	-	-	*	-	-	-
Kurmak	78	*	*	-	-	-	*	-	-	1	-	-	-	-	-	-
Asosa	7013	3729	1284	*	293	310	409	319	225	106	*	*	*	*	*	-
Sherkole	94	83	-	-	-	*	-	-	-	-	-	-	-	-	-	-
Bambasi	1530	866	381	-	52	82	67	*	*	*	*	-	-	-	-	-
Oda Godere	239	169	*	*	*	-	-	*	-	*	-	-	-	-	-	-
Komesha	307	158	68	-	*	*	*	*	*	-	-	-	-	-	-	-
Mao Komo Special	587	420	*	*	*	*	-	*	*	-	-	-	-	-	-	-
Kemeshi Zone	1781	535	64	66	333	79	68	85	48	222	90	75	*	*	87	*
Yaso	69	52	15	3	-	-	-	-	-	-	-	-	-	-	-	-
Sirba Abay	125	72	*	-	*	*	*	*	-	-	-	-	-	-	-	-
Kamashi	314	94	19	-	56	*	43	*	26	*	*	-	*	-	-	*
Agalo Meti	29	13	-	-	*	6	-	-	-	-	-	-	-	*	-	-
Belo Jegonfoy	1245	304	*	64	251	50	*	72	*	204	82	75	-	-	87	-

TABLE 6.39.1: 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
Benshangul-Gumuz	15460	7952	2461	245	958	776	746	613	511	507	217	152	88	*	152	29
Metekel Zone	3690	1825	539	*	203	243	188	170	186	136	57	35	*	*	*	*
Dangur	*	*	*	*	-	-	-	-	-	-	-	-	*	-	-	-
Guba	87	75	*	-	-	*	-	-	-	-	*	-	-	-	-	-
Wenbera	656	305	*	*	*	*	-	-	*	*	*	-	*	-	*	-
Mandura	438	256	107	-	*	*	-	-	*	*	*	*	-	-	-	-
Dibate	1129	598	145	-	89	*	74	85	*	*	*	*	*	-	-	-
Pawe	980	355	148	*	-	123	107	75	83	*	*	*	-	*	-	*
Bulen	142	*	*	-	*	*	*	*	*	-	-	-	-	-	*	-
Asosa Zone	9989	5592	1858	145	422	454	490	358	278	150	*	*	*	*	*	-
Menge	234	143	66	-	-	*	-	-	-	*	-	-	*	-	-	-
Kurmak	76	*	*	-	-	-	*	-	-	-	-	-	-	-	-	-
Asosa	6948	3725	1284	*	293	310	400	304	200	106	*	*	*	*	*	-
Sherkole	94	83	-	-	-	*	-	-	-	-	-	-	-	-	-	-
Bambasi	1505	862	366	-	52	82	67	*	*	*	*	-	-	-	-	-
Oda Godere	239	169	*	*	*	-	-	*	-	*	-	-	-	-	-	-
Komesha	307	158	68	-	*	*	*	*	*	-	-	-	-	-	-	-
Mao Komo Special	587	420	*	*	*	*	-	*	*	-	-	-	-	-	-	-
Kemeshi Zone	1781	535	64	66	333	79	68	85	48	222	90	75	*	*	87	*
Yaso	69	52	15	3	-	-	-	-	-	-	-	-	-	-	-	-
Sirba Abay	125	72	*	-	*	*	*	*	-	-	-	-	-	-	-	-
Kamashi	314	94	19	-	56	*	43	*	26	*	*	-	*	-	-	*
Agalo Meti	29	13	-	-	*	6	-	-	-	-	-	-	-	*	-	-
Belo Jegonfoy	1245	304	*	64	251	50	*	72	*	204	82	75	-	-	87	-

TABLE 6.39.2: RURAL MEHER

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
Benshangul-Gumuz	15101	7784	2450	227	937	700	746	600	501	486	207	152	77	*	152	29
Metekel Zone	3454	1708	539	*	193	190	188	157	175	125	47	35	*	*	*	*
Dangur	*	*	*	*	-	-	-	-	-	-	-	-	*	-	-	-
Guba	87	75	*	-	-	*	-	-	-	-	*	-	-	-	-	-
Wenbera	485	226	*	-	*	*	-	-	*	*	*	-	*	-	*	-
Mandura	438	256	107	-	*	*	-	-	*	*	*	*	-	-	-	-
Dibate	1129	598	145	-	89	*	74	85	*	*	*	*	*	-	-	-
Pawe	915	317	148	*	-	110	107	61	83	*	*	*	-	*	-	*
Bulen	142	*	*	-	*	*	*	*	*	-	-	-	-	-	*	-
Asosa Zone	9897	5541	1858	137	411	431	490	358	278	150	*	*	*	*	*	-
Menge	234	143	66	-	-	*	-	-	-	*	-	-	*	-	-	-
Kurmak	76	*	*	-	-	-	*	-	-	-	-	-	-	-	-	-
Asosa	6878	3679	1284	*	293	287	400	304	200	106	*	*	*	*	*	-
Sherkole	94	83	-	-	-	*	-	-	-	-	-	-	-	-	-	-
Bambasi	1494	862	366	-	*	82	67	*	*	*	*	-	-	-	-	-
Oda Godere	239	169	*	*	*	-	-	*	-	*	-	-	-	-	-	-
Komesha	302	153	68	-	*	*	*	*	*	-	-	-	-	-	-	-
Mao Komo Special	579	420	*	*	*	*	-	*	*	-	-	-	-	-	-	-
Kemeshi Zone	1749	535	53	66	333	79	68	85	48	211	90	75	-	*	87	*
Yaso	69	52	15	3	-	-	-	-	-	-	-	-	-	-	-	-
Sirba Abay	125	72	*	-	*	*	*	*	-	-	-	-	-	-	-	-
Kamashi	282	94	*	-	56	*	43	*	26	*	*	-	-	-	-	*
Agalo Meti	29	13	-	-	*	6	-	-	-	-	-	-	-	*	-	-
Belo Jegonfoy	1245	304	*	64	251	50	*	72	*	204	82	75	-	-	87	-

TABLE 6.39.3: 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
Benshangul-Gumuz	459	229	*	*	*	*	-	*	*	*	*	-	*	-	-	-
Metekel Zone	278	132	-	*	*	*	-	*	*	*	*	-	-	-	-	-
Dangur	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wenbera	*	*	-	*	*	*	-	-	*	*	*	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pawe	*	*	-	-	-	*	-	*	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asosa Zone	*	*	-	*	*	*	-	*	-	-	-	-	-	-	-	-
Menge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asosa	*	*	-	-	-	*	-	-	-	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bambasi	*	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Komesha	*	*	-	-	-	-	-	*	-	-	-	-	-	-	-	-
Mao Komo Special	*	-	-	*	-	-	-	-	-	-	-	-	-	-	-	-
Kemeshi Zone	32	-	*	-	-	-	-	-	-	*	-	-	*	-	-	-
Yaso	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kamashi	32	-	*	-	-	-	-	-	-	*	-	-	*	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.39.4: URBAN 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
Benshangul-Gumuz	378	125	83	*	*	*	*	25	38	*	22	*	-	*	*	15
Metekel Zone	282	117	65	*	*	*	*	8	13	*	19	*	-	-	*	15
Dangur	123	68	30	*	*	-	*	*	*	*	*	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wenbera	40	20	-	-	-	-	-	-	-	-	*	-	-	-	*	*
Mandura	6	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-
Dibate	44	8	17	-	*	*	*	-	*	*	-	*	-	-	-	-
Pawe	37	*	*	-	-	-	-	*	-	-	-	-	-	-	*	*
Bulen	32	*	*	-	-	-	-	*	*	-	*	*	-	-	*	-
Asosa Zone	96	*	18	-	-	-	*	*	*	1	*	*	-	*	*	-
Menge	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Kurmak	2	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-
Asosa	*	*	-	-	-	-	*	*	*	-	-	*	-	*	*	-
Bambasi	25	*	15	-	-	-	-	*	-	-	*	-	-	-	-	-

TABLE 6.40: 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
Benshangul-Gumuz	11115	5772	1905	174	685	527	569	505	407	212	150	107	*	*	52	*
Metekel Zone	3479	1627	565	*	236	224	220	232	140	*	71	*	-	-	*	*
Dangur	301	206	53	-	*	*	*	*	-	*	-	-	-	-	-	-
Guba	33	13	-	-	-	*	-	*	-	-	*	-	-	-	*	-
Wenbera	2322	1024	*	*	219	184	136	163	91	*	68	-	-	-	*	*
Mandura	77	68	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibate	239	108	*	-	-	*	*	-	-	*	-	*	-	-	-	-
Pawe	437	180	90	-	*	*	53	54	*	-	-	*	-	-	*	*
Bulen	69	*	*	-	-	*	*	-	*	-	-	-	-	-	-	-
Asosa Zone	7110	3919	1318	110	370	290	288	236	233	126	*	103	-	*	*	-
Menge	86	*	42	-	-	2	-	-	-	-	-	-	-	-	-	-
Kurmak	*	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-
Asosa	5184	2774	927	*	254	188	243	202	179	108	*	103	-	*	*	-
Sherkole	45	*	-	-	-	*	-	*	-	-	-	-	-	-	-	-
Bambasi	1295	812	220	-	75	93	*	*	*	*	*	-	-	-	-	-
Oda Godere	63	*	-	-	*	-	-	-	-	-	-	-	-	-	-	-
Komesha	256	113	91	-	*	-	*	*	*	-	-	-	-	-	-	-
Mao Komo Special	145	83	*	*	*	-	-	-	*	-	-	-	-	-	-	-
Kemeshi Zone	527	226	21	*	79	*	61	37	*	*	-	-	*	-	-	-
Yaso	19	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Sirba Abay	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kamashi	87	*	21	-	-	-	22	*	-	*	-	-	*	-	-	-
Agalo Meti	315	170	-	*	*	*	*	*	*	-	-	-	*	-	-	-
Belo Jegonfoy	82	*	-	-	52	-	-	-	*	-	-	-	-	-	-	-

TABLE 6.40.1: 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
Benshangul-Gumuz	10854	5667	1873	174	673	519	557	492	401	201	136	*	*	*	*	-
Metekel Zone	3310	1555	542	*	224	218	214	223	134	*	63	-	-	-	*	-
Dangur	255	178	*	-	*	*	*	*	-	*	-	-	-	-	-	-
Guba	14	*	-	-	-	-	-	*	-	-	-	-	-	-	-	-
Wenbera	2282	1006	*	*	216	184	136	157	91	*	63	-	-	-	*	-
Mandura	77	68	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibate	*	105	*	-	-	-	*	-	-	*	-	-	-	-	-	-
Pawe	403	159	90	-	-	*	51	54	*	-	-	-	-	-	-	-
Bulen	*	*	-	-	-	*	*	-	*	-	-	-	-	-	-	-
Asosa Zone	7017	3886	1310	110	370	288	281	232	233	119	*	*	-	*	-	-
Menge	84	*	42	-	-	-	-	-	-	-	-	-	-	-	-	-
Kurmak	*	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-
Asosa	5148	2768	925	*	254	188	243	202	179	108	*	*	-	*	-	-
Sherkole	45	*	-	-	-	*	-	*	-	-	-	-	-	-	-	-
Bambasi	1240	785	214	-	75	93	*	*	*	*	*	-	-	-	-	-
Oda Godere	63	*	-	-	*	-	-	-	-	-	-	-	-	-	-	-
Komesha	256	113	91	-	*	-	*	*	*	-	-	-	-	-	-	-
Mao Komo Special	145	83	*	*	*	-	-	-	*	-	-	-	-	-	-	-
Kemeshi Zone	527	226	21	*	79	*	61	37	*	*	-	-	*	-	-	-
Yaso	19	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Sirba Abay	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kamashi	87	*	21	-	-	-	22	*	-	*	-	-	*	-	-	-
Agalo Meti	315	170	-	*	*	*	*	*	*	-	-	-	*	-	-	-
Belo Jegonfoy	82	*	-	-	52	-	-	-	*	-	-	-	-	-	-	-

TABLE 6.40.2: 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
Benshangul-Gumuz	6778	3223	1198	116	530	376	378	316	297	141	87	*	-	*	*	-
Metekel Zone	2775	1217	473	*	187	209	173	200	134	*	*	-	-	-	*	-
Dangur	92	*	*	-	-	*	*	*	-	-	-	-	-	-	-	-
Guba	14	*	-	-	-	-	-	*	-	-	-	-	-	-	-	-
Wenbera	2007	866	263	*	187	175	107	147	91	*	*	-	-	-	*	-
Mandura	77	68	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibate	*	105	*	-	-	-	*	-	-	*	-	-	-	-	-	-
Pawe	306	98	79	-	-	*	39	*	*	-	-	-	-	-	-	-
Bulen	*	*	-	-	-	*	*	-	*	-	-	-	-	-	-	-
Asosa Zone	3778	1938	703	*	277	154	170	116	*	*	*	*	-	*	-	-
Menge	75	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Kurmak	*	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-
Asosa	2936	1415	543	*	212	*	143	*	*	*	*	*	-	*	-	-
Sherkole	45	*	-	-	-	*	-	*	-	-	-	-	-	-	-	-
Bambasi	513	333	86	-	*	*	*	-	-	*	*	-	-	-	-	-
Oda Godere	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Komesha	56	*	*	-	*	-	*	-	-	-	-	-	-	-	-	-
Mao Komo Special	91	61	*	*	*	-	-	-	-	-	-	-	-	-	-	-
Kemeshi Zone	225	68	21	-	66	*	34	-	*	-	-	-	-	-	-	-
Yaso	19	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Sirba Abay	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kamashi	54	*	21	-	-	-	22	-	-	-	-	-	-	-	-	-
Agalo Meti	46	*	-	-	*	*	-	-	*	-	-	-	-	-	-	-
Belo Jegonfoy	82	*	-	-	52	-	-	-	*	-	-	-	-	-	-	-

TABLE 6.40.3: RURAL BELG

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
Benshangul-Gumuz	6411	3410	1196	114	402	283	272	257	231	97	87	*	*	-	-	-
Metekel Zone	1296	651	176	*	115	98	*	59	82	*	*	-	-	-	-	-
Dangur	163	138	*	-	*	-	-	-	-	*	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wenbera	973	438	133	*	107	84	*	*	82	*	*	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pawe	160	*	*	-	-	*	*	*	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asosa Zone	4784	2596	1009	*	259	185	204	161	136	*	*	*	-	-	-	-
Menge	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asosa	3526	1866	739	*	187	*	183	141	*	*	*	*	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bambasi	943	581	173	-	64	82	*	*	*	-	-	-	-	-	-	-
Oda Godere	*	*	-	-	*	-	-	-	-	-	-	-	-	-	-	-
Komesha	200	94	73	-	-	-	*	*	*	-	-	-	-	-	-	-
Mao Komo Special	69	*	*	*	-	-	-	-	*	-	-	-	-	-	-	-
Kemeshi Zone	332	163	*	*	*	-	*	37	*	*	-	-	*	-	-	-
Yaso	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kamashi	43	-	*	-	-	-	-	*	-	*	-	-	*	-	-	-
Agalo Meti	289	163	-	*	*	-	*	*	*	-	-	-	*	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.40.4: URBAN 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
Benshangul-Gumuz	261	105	32	-	12	8	12	*	*	*	14	*	-	-	*	*
Metekel Zone	168	72	24	-	12	*	*	*	*	*	*	*	-	-	11	*
Dangur	46	28	15	-	*	-	-	-	-	-	-	-	-	-	-	-
Guba	19	*	-	-	-	*	-	*	-	-	*	-	-	-	*	-
Wenbera	40	18	-	-	*	-	-	*	-	-	*	-	-	-	*	*
Mandura	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibate	15	*	*	-	-	*	-	-	-	*	-	*	-	-	-	-
Pawe	33	*	-	-	*	-	*	-	-	-	-	*	-	-	*	*
Bulen	16	-	*	-	-	-	*	-	*	-	-	-	-	-	-	-
Asosa Zone	93	33	8	-	-	2	*	*	-	*	*	*	-	-	*	-
Menge	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asosa	36	*	*	-	-	-	-	-	-	-	*	*	-	-	*	-
Bambasi	55	27	*	-	-	-	*	*	-	*	*	-	-	-	-	-

TABLE 6.41: 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
Benshangul-Gumuz	59029	36076	7248	1396	2760	2558	2330	2004	1677	1128	679	382	183	168	267	175
Metekel Zone	21871	12901	2638	402	943	1089	864	989	728	460	337	167	65	91	77	120
Dangur	2816	1926	453	*	82	67	79	*	*	*	*	-	*	-	-	-
Guba	181	127	-	*	6	*	*	*	*	*	*	-	-	-	*	-
Wenbera	5293	3069	368	202	331	358	183	270	204	153	85	*	*	-	*	*
Mandura	1061	681	170	*	55	*	*	*	*	*	*	*	*	-	-	-
Dibate	5442	3546	669	*	236	227	235	194	77	106	*	*	*	-	-	*
Pawe	5065	2389	765	*	125	335	262	372	281	126	121	*	*	76	*	64
Bulen	2014	1163	213	50	108	73	77	81	95	*	53	*	-	*	25	*
Asosa Zone	29761	19595	4174	678	1106	1077	980	709	630	242	175	133	107	*	*	*
Menge	2312	1689	317	29	40	70	76	*	*	*	-	-	*	-	-	-
Kurmak	1122	757	107	75	*	*	65	40	34	1	*	-	-	-	1	-
Asosa	13337	8038	2069	275	483	483	592	448	345	153	145	*	*	*	*	*
Sherkole	1407	1196	41	*	59	49	*	*	*	*	-	-	*	-	-	-
Bambasi	5528	3613	1015	*	171	248	144	97	118	*	*	*	-	*	-	*
Oda Godere	3088	2419	149	103	197	70	*	*	*	*	*	*	*	*	*	-
Komesha	1017	645	197	*	36	*	48	*	44	-	-	-	-	-	-	-
Mao Komo Special	1950	1238	279	119	97	116	*	*	*	*	-	-	-	-	-	-
Kemeshi Zone	7397	3580	436	316	711	392	486	305	318	425	168	83	*	-	126	41
Yaso	1432	913	117	22	96	78	80	40	32	-	*	-	-	-	*	*
Sirba Abay	1172	753	*	44	86	91	66	49	37	*	*	-	-	-	-	-
Kamashi	916	386	64	30	99	58	112	41	59	32	*	-	*	-	-	*
Agalo Meti	1175	523	-	63	96	83	89	72	101	94	38	*	-	-	*	-
Belo Jegonfoy	2701	1005	222	159	333	80	139	103	89	291	94	75	-	-	101	*

TABLE 6.41.1: 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
Benshangul-Gumuz	58032	35714	7126	1387	2746	2477	2297	1909	1637	1085	647	301	171	153	230	151
Metekel Zone	21000	12610	2545	393	929	1009	835	901	689	422	307	86	54	76	*	97
Dangur	2693	1858	432	*	*	67	75	*	*	*	*	-	*	-	-	-
Guba	166	127	-	*	6	*	2	-	*	*	-	-	-	-	-	-
Wenbera	5155	3002	363	202	331	353	173	266	200	142	75	*	*	-	*	-
Mandura	1024	669	158	*	55	*	*	*	*	*	*	*	*	-	-	-
Dibate	5389	3536	659	*	233	222	228	194	73	97	*	*	*	-	-	*
Pawe	4767	2342	747	*	120	265	262	302	273	125	121	*	*	76	*	*
Bulen	1806	1077	186	*	106	73	*	76	76	*	*	*	-	-	*	*
Asosa Zone	29635	19523	4145	678	1106	1077	977	703	630	238	172	133	107	*	*	*
Menge	2308	1689	314	29	40	70	76	*	*	*	-	-	*	-	-	-
Kurmak	1119	757	107	75	*	*	64	40	34	-	*	-	-	-	-	-
Asosa	13284	8009	2061	275	483	483	590	445	345	150	145	*	*	*	*	-
Sherkole	1407	1196	41	*	59	49	*	*	*	*	-	-	*	-	-	-
Bambasi	5461	3570	997	*	171	248	144	93	118	*	*	*	-	*	-	*
Oda Godere	3088	2419	149	103	197	70	*	*	*	*	*	*	*	*	*	-
Komesha	1017	645	197	*	36	*	48	*	44	-	-	-	-	-	-	-
Mao Komo Special	1950	1238	279	119	97	116	*	*	*	*	-	-	-	-	-	-
Kemeshi Zone	7397	3580	436	316	711	392	486	305	318	425	168	83	*	-	126	41
Yaso	1432	913	117	22	96	78	80	40	32	-	*	-	-	-	*	*
Sirba Abay	1172	753	*	44	86	91	66	49	37	*	*	-	-	-	-	-
Kamashi	916	386	64	30	99	58	112	41	59	32	*	-	*	-	-	*
Agalo Meti	1175	523	-	63	96	83	89	72	101	94	38	*	-	-	*	-
Belo Jegonfoy	2701	1005	222	159	333	80	139	103	89	291	94	75	-	-	101	*

TABLE 6.41.2: RURAL MEHER

Geographic Area	Holders Applying Fertilizer															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Benshangul-Gumuz	57398	35243	7076	1378	2737	2448	2279	1884	1637	1085	625	301	171	153	230	151
Metekel Zone	20664	12346	2525	384	920	1000	835	877	689	422	307	86	54	76	*	97
Dangur	2503	1677	432	*	*	67	75	*	*	*	*	-	*	-	-	-
Guba	166	127	-	*	6	*	2	-	*	*	-	-	-	-	-	-
Wenbera	5036	2932	344	192	331	344	173	254	200	142	75	*	*	-	*	-
Mandura	1024	669	158	*	55	*	*	*	*	*	*	*	*	-	-	-
Dibate	5389	3536	659	*	233	222	228	194	73	97	*	*	*	-	-	*
Pawe	4740	2328	747	*	120	265	262	288	273	125	121	*	*	76	*	*
Bulen	1806	1077	186	*	106	73	*	76	76	*	*	*	-	-	*	*
Asosa Zone	29375	19355	4115	678	1106	1056	958	703	630	238	150	133	107	*	*	*
Menge	2308	1689	314	29	40	70	76	*	*	*	-	-	*	-	-	-
Kurmak	1119	757	107	75	*	*	64	40	34	-	*	-	-	-	-	-
Asosa	13053	7865	2036	275	483	462	572	445	345	150	123	*	*	*	*	-
Sherkole	1407	1196	41	*	59	49	*	*	*	*	-	-	*	-	-	-
Bambasi	5461	3570	997	*	171	248	144	93	118	*	*	*	-	*	-	*
Oda Godere	3088	2419	149	103	197	70	*	*	*	*	*	*	*	*	*	-
Komesha	988	621	192	*	36	*	48	*	44	-	-	-	-	-	-	-
Mao Komo Special	1950	1238	279	119	97	116	*	*	*	*	-	-	-	-	-	-
Kemeshi Zone	7359	3542	436	316	711	392	486	305	318	425	168	83	*	-	126	41
Yaso	1432	913	117	22	96	78	80	40	32	-	*	-	-	-	*	*
Sirba Abay	1172	753	*	44	86	91	66	49	37	*	*	-	-	-	-	-
Kamashi	916	386	64	30	99	58	112	41	59	32	*	-	*	-	-	*
Agalo Meti	1137	485	-	63	96	83	89	72	101	94	38	*	-	-	*	-
Belo Jegonfoy	2701	1005	222	159	333	80	139	103	89	291	94	75	-	-	101	*

TABLE 6.41.3: 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
Benshangul-Gumuz	5255	3156	734	159	252	287	178	151	127	*	117	*	-	-	-	-
Metekel Zone	2506	1589	199	105	130	166	*	81	90	*	*	*	-	-	-	-
Dangur	781	593	107	-	*	-	*	*	-	*	*	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wenbera	1674	971	92	105	94	153	*	*	90	*	*	*	-	-	-	-
Mandura	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pawe	*	*	-	-	-	*	-	*	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asosa Zone	2699	1522	535	*	122	120	118	*	*	*	*	*	-	-	-	-
Menge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asosa	2321	1331	436	*	*	*	98	*	*	*	*	*	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bambasi	159	68	*	-	*	*	*	-	*	-	-	-	-	-	-	-
Oda Godere	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Komesha	131	71	35	-	-	-	*	*	*	-	-	-	-	-	-	-
Mao Komo Special	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Kemeshi Zone	50	44	-	*	-	-	-	-	-	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Agalo Meti	50	44	-	*	-	-	-	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.41.4: 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
Benshangul-Gumuzl	997	363	122	*	14	*	32	*	40	43	32	*	*	*	37	24
Metekel Zone	871	291	93	*	14	*	30	*	40	39	30	*	*	*	28	23
Dangur	123	68	22	*	*	-	*	*	*	*	*	-	*	-	-	-
Guba	15	-	-	-	-	-	*	*	-	-	*	-	-	-	*	-
Wenbera	138	67	*	-	-	*	*	*	*	*	*	*	*	-	*	*
Mandura	36	12	12	-	-	-	-	-	-	6	6	-	-	-	-	-
Dibate	53	10	11	-	*	*	*	-	*	9	-	*	*	-	-	-
Pawe	298	*	*	-	*	*	-	*	*	*	-	*	-	-	-	8
Bulen	208	87	27	*	*	-	*	*	19	*	*	*	-	*	20	*
Asosa Zone	126	72	29	-	-	-	*	*	-	*	*	-	-	-	*	*
Menge	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Kurmak	3	-	-	-	-	-	1	-	-	1	-	-	-	-	1	-
Asosa	53	*	*	-	-	-	*	*	-	*	-	-	-	-	*	*
Bambasi	66	43	18	-	-	-	-	*	-	-	*	-	-	-	-	-

TABLE 6.42: APPLICATION OF PESTICIDES BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders With Application of Pesticides															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Benshangul-Gumuz	4302	2179	860	*	301	298	279	149	56	*	-	*	*	-	*	-
Metekel Zone	1226	750	182	*	46	82	*	67	*	*	-	-	*	-	*	-
Dangur	147	93	*	-	*	-	*	-	*	-	-	-	-	-	-	-
Guba	*	*	-	-	*	-	-	-	-	-	-	-	-	-	-	-
Wenbera	45	*	-	-	*	*	-	-	-	-	-	-	*	-	-	-
Mandura	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-
Dibate	612	390	101	-	*	*	*	*	-	*	-	-	*	-	-	-
Pawe	165	55	42	-	-	*	*	*	-	*	-	-	-	-	*	-
Bulen	73	43	*	*	-	*	-	-	-	-	-	-	-	-	-	-
Asosa Zone	2944	1350	666	*	241	212	204	81	*	*	-	*	-	-	*	-
Menge	64	*	*	-	2	-	*	-	-	-	-	-	-	-	-	-
Kurmak	27	*	*	-	-	-	-	-	-	2	-	-	-	-	-	-
Asosa	2248	1013	555	*	167	185	*	*	-	*	-	*	-	-	*	-
Sherkole	*	-	-	-	-	*	*	-	-	-	-	-	-	-	-	-
Bambasi	295	148	*	-	35	*	*	*	*	-	-	-	-	-	-	-
Oda Godere	*	*	-	-	*	-	-	-	-	-	-	-	-	-	-	-
Komesha	103	56	*	-	*	-	*	-	-	-	-	-	-	-	-	-
Mao Komo Special	171	89	34	-	*	-	-	-	*	*	-	-	-	-	-	-
Kemeshi Zone	133	79	*	-	14	*	*	-	-	-	-	-	-	-	-	-
Yaso	*	*	-	-	-	*	-	-	-	-	-	-	-	-	-	-
Sirba Abay	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kamashi	24	*	-	-	14	-	-	-	-	-	-	-	-	-	-	-
Agalo Meti	*	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	47	*	*	-	-	-	*	-	-	-	-	-	-	-	-	-

TABLE 6.42.1: 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
Benshangul-Gumuz	4159	2113	835	*	289	287	277	145	*	*	-	*	*	-	-	-
Metekel Zone	1138	711	167	*	*	70	*	64	*	*	-	-	*	-	-	-
Dangur	114	71	*	-	-	-	*	-	*	-	-	-	-	-	-	-
Guba	*	*	-	-	*	-	-	-	-	-	-	-	-	-	-	-
Wenbera	*	*	-	-	*	*	-	-	-	-	-	-	-	-	-	-
Mandura	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-
Dibate	572	380	89	-	*	*	*	*	-	-	-	-	*	-	-	-
Pawe	162	55	42	-	-	*	-	*	-	*	-	-	-	-	-	-
Bulen	70	*	*	*	-	*	-	-	-	-	-	-	-	-	-	-
Asosa Zone	2889	1323	656	*	236	212	204	81	*	*	-	*	-	-	-	-
Menge	61	*	*	-	-	-	*	-	-	-	-	-	-	-	-	-
Kurmak	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Asosa	2213	997	547	*	167	185	*	*	-	*	-	*	-	-	-	-
Sherkole	*	-	-	-	-	*	*	-	-	-	-	-	-	-	-	-
Bambasi	280	136	*	-	*	*	*	*	*	-	-	-	-	-	-	-
Oda Godere	*	*	-	-	*	-	-	-	-	-	-	-	-	-	-	-
Komesha	103	56	*	-	*	-	*	-	-	-	-	-	-	-	-	-
Mao Komo Special	171	89	34	-	*	-	-	-	*	*	-	-	-	-	-	-
Kemeshi Zone	133	79	*	-	14	*	*	-	-	-	-	-	-	-	-	-
Yaso	*	*	-	-	-	*	-	-	-	-	-	-	-	-	-	-
Sirba Abay	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kamashi	24	*	-	-	14	-	-	-	-	-	-	-	-	-	-	-
Agalo Meti	*	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	47	*	*	-	-	-	*	-	-	-	-	-	-	-	-	-

TABLE 6.42.2: RURAL MEHER

Geographic Area	Holders With Application of Pesticides															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate But not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Benshangul-Gumuz	2801	1351	656	*	136	170	209	124	*	*	-	*	*	-	-	-
Metekel Zone	1096	711	155	*	*	70	*	*	*	*	-	-	*	-	-	-
Dangur	114	71	*	-	-	-	*	-	*	-	-	-	-	-	-	-
Guba	*	*	-	-	*	-	-	-	-	-	-	-	-	-	-	-
Wenbera	*	*	-	-	-	*	-	-	-	-	-	-	-	-	-	-
Mandura	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-
Dibate	572	380	89	-	*	*	*	*	-	-	-	-	*	-	-	-
Pawe	139	55	*	-	-	*	-	*	-	*	-	-	-	-	-	-
Bulen	70	*	*	*	-	*	-	-	-	-	-	-	-	-	-	-
Asosa Zone	1612	587	*	*	*	*	149	*	*	*	-	*	-	-	-	-
Menge	*	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Kurmak	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Asosa	1257	425	*	*	*	*	*	*	-	*	-	*	-	-	-	-
Sherkole	*	-	-	-	-	*	*	-	-	-	-	-	-	-	-	-
Bambasi	67	*	-	-	-	*	-	*	*	-	-	-	-	-	-	-
Oda Godere	*	*	-	-	*	-	-	-	-	-	-	-	-	-	-	-
Komesha	58	*	*	-	*	-	*	-	-	-	-	-	-	-	-	-
Mao Komo Special	116	*	*	-	-	-	-	-	*	*	-	-	-	-	-	-
Kemeshi Zone	94	53	*	-	14	*	*	-	-	-	-	-	-	-	-	-
Yaso	*	*	-	-	-	*	-	-	-	-	-	-	-	-	-	-
Sirba Abay	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kamashi	24	*	-	-	14	-	-	-	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	47	*	*	-	-	-	*	-	-	-	-	-	-	-	-	-

TABLE 6.42.3: RURAL BELG

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
Benshangul-Gumuz	1457	783	221	*	172	117	*	*	*	*	-	-	-	-	-	-
Metekel Zone	*	-	*	-	*	-	-	*	-	-	-	-	-	-	-	-
Dangur	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wenbera	*	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pawe	*	-	*	-	-	-	-	*	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asosa Zone	1376	757	209	*	154	117	*	*	*	*	-	-	-	-	-	-
Menge	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asosa	1037	593	*	*	*	*	*	-	-	*	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bambasi	213	103	*	-	*	*	*	*	*	-	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Komesha	45	32	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Mao Komo Special	73	*	*	-	*	-	-	-	*	-	-	-	-	-	-	-
Kemeshi Zone	*	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Agalo Meti	*	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.42.4: URBAN HOLDINGS

Geographic Area	Holders With Application of Pesticides															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Benshangul-Gumuz	144	66	24	-	12	12	*	*	*	4	-	-	*	-	*	-
Metekel Zone	89	39	15	-	*	12	*	*	*	*	-	-	*	-	*	-
Dangur	33	22	*	-	*	-	-	-	*	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wenbera	*	*	-	-	-	-	-	-	-	-	-	-	*	-	-	-
Mandura	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibate	41	10	11	-	*	12	-	*	-	*	-	-	-	-	-	-
Pawe	*	-	-	-	-	-	*	-	-	-	-	-	-	-	*	-
Bulen	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asosa Zone	55	*	*	-	*	-	-	-	-	2	-	-	-	-	*	-
Menge	3	-	2	-	2	-	-	-	-	-	-	-	-	-	-	-
Kurmak	2	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
Asosa	*	*	*	-	-	-	-	-	-	-	-	-	-	-	*	-
Bambasi	15	11	-	-	*	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.43: 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
Benshangul-Gumuz	5738	2765	959	97	452	294	396	284	161	110	*	34	*	*	55	*
Metekel Zone	2165	1065	333	*	161	108	122	126	93	*	*	*	*	-	*	-
Dangur	*	*	*	-	-	-	-	-	-	-	-	-	*	-	-	-
Guba	36	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wenbera	*	*	*	-	*	*	-	*	*	*	*	-	-	-	*	-
Mandura	178	85	*	*	*	-	-	*	*	*	*	*	-	-	-	-
Dibate	938	487	137	-	80	*	58	61	*	*	-	*	*	-	-	-
Pawe	375	140	82	-	-	*	58	*	*	-	-	*	-	-	-	-
Bulen	84	*	*	-	*	*	*	*	-	-	-	-	-	-	*	-
Asosa Zone	2688	1461	573	*	97	133	208	*	*	*	*	-	-	*	-	-
Menge	218	151	37	-	*	*	-	-	-	-	-	-	-	-	-	-
Kurmak	98	54	*	-	-	-	*	-	-	-	-	-	-	-	-	-
Asosa	1336	588	337	-	*	*	185	*	-	*	*	-	-	*	-	-
Sherkole	34	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bambasi	207	126	60	-	*	-	*	-	-	-	-	-	-	-	-	-
Oda Godere	85	*	-	-	*	*	-	*	-	-	-	-	-	-	-	-
Komesha	246	132	67	-	*	*	-	*	*	-	-	-	-	-	-	-
Mao Komo Special	464	338	*	*	*	*	-	*	*	-	-	-	-	-	-	-
Kemeshi Zone	884	239	53	68	194	53	66	82	33	23	*	*	*	-	*	*
Yaso	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sirba Abay	71	*	*	-	*	*	*	*	-	-	-	-	-	-	-	-
Kamashi	261	51	23	*	43	*	47	-	26	*	*	-	*	-	-	*
Agalo Meti	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	520	136	*	64	135	31	*	72	*	*	-	*	-	-	*	-

TABLE 6.43.1: RURAL MEHER

Geographic Area	Holders Participating in Agricultural Extension															
	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
Benshangul-Gumuz	5563	2718	888	97	452	294	374	271	161	99	*	34	*	*	55	*
Metekel Zone	2138	1052	333	*	161	108	122	113	93	*	*	*	*	-	*	-
Dangur	*	*	*	-	-	-	-	-	-	-	-	-	*	-	-	-
Guba	36	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wenbera	*	*	*	-	*	*	-	*	*	*	*	-	-	-	*	-
Mandura	178	85	*	*	*	-	-	*	*	*	*	*	-	-	-	-
Dibate	938	487	137	-	80	*	58	61	*	*	-	*	*	-	-	-
Pawe	348	126	82	-	-	*	58	*	*	-	-	*	-	-	-	-
Bulen	84	*	*	-	*	*	*	*	-	-	-	-	-	-	*	-
Asosa Zone	2572	1428	513	*	97	133	186	*	*	*	*	-	-	*	-	-
Menge	218	151	37	-	*	*	-	-	-	-	-	-	-	-	-	-
Kurmak	98	54	*	-	-	-	*	-	-	-	-	-	-	-	-	-
Asosa	1231	566	277	-	*	*	162	*	-	*	*	-	-	*	-	-
Sherkole	34	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bambasi	197	115	60	-	*	-	*	-	-	-	-	-	-	-	-	-
Oda Godere	85	*	-	-	*	*	-	*	-	-	-	-	-	-	-	-
Komesha	246	132	67	-	*	*	-	*	*	-	-	-	-	-	-	-
Mao Komo Special	464	338	*	*	*	*	-	*	*	-	-	-	-	-	-	-
Kemeshi Zone	852	239	42	68	194	53	66	82	33	*	*	*	-	-	*	*
Yaso	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sirba Abay	71	*	*	-	*	*	*	*	-	-	-	-	-	-	-	-
Kamashi	229	51	*	*	43	*	47	-	26	*	*	-	-	-	-	*
Agalo Meti	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	520	136	*	64	135	31	*	72	*	*	-	*	-	-	*	-

TABLE 6.43.2: RURAL BELG

Geographic Area	Holders Participating in Agricultural Extension															
	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
Benshangul-Gumuz	211	*	*	-	-	-	*	*	*	*	-	-	*	-	-	-
Metekel Zone	*	*	-	-	-	-	-	*	*	-	-	-	-	-	-	-
Dangur	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wenbera	*	-	-	-	-	-	-	-	*	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pawe	*	*	-	-	-	-	-	*	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asosa Zone	*	*	*	-	-	-	*	-	-	-	-	-	-	-	-	-
Menge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asosa	*	*	*	-	-	-	*	-	-	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bambasi	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kemeshi Zone	32	-	*	-	-	-	-	-	-	*	-	-	*	-	-	-
Yaso	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kamashi	32	-	*	-	-	-	-	-	-	*	-	-	*	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.44: 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
Benshangul-Gumuz	4805	22	459	970	1605	1502	204	*
Metekel Zone	1124	7	105	130	323	479	80	-
Dangur	83	*	*	11	16	*	*	-
Guba	220	4	61	49	69	36	-	-
Wenbera	97	*	*	6	38	*	*	-
Mandura	24	*	*	*	8	9	-	-
Dibate	279	*	*	*	35	168	46	-
Pawe	369	1	17	43	150	148	*	-
Bulen	52	*	*	*	*	31	*	-
Asosa Zone	3319	14	334	790	1129	913	*	*
Menge	871	2	61	233	299	244	15	*
Kurmak	69	*	11	13	19	25	-	-
Asosa	1150	5	*	*	376	305	*	*
Sherkole	117	1	34	33	34	*	-	-
Bambasi	212	*	11	35	70	80	*	*
Oda Godere	347	1	28	53	140	83	*	-
Komesha	450	2	38	104	149	138	*	-
Mao Komo Special	104	1	16	22	41	*	-	-
Kemeshi Zone	362	1	19	50	153	110	28	*
Yaso	84	*	4	7	26	46	-	-
Sirba Abay	55	*	5	19	21	*	-	-
Kamashi	65	*	3	4	21	23	14	*
Agalo Meti	28	*	3	8	3	*	*	-
Belo Jegonfoy	130	*	4	12	83	28	2	-

TABLE 6.44.1: MEHER

Geographic Area	Area Damaged by Crop Disease							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Benshangul-Gumuz	4797	20	455	967	1605	1502	204	*
Metekel Zone	1122	6	105	129	323	479	80	*
Dangur	83	*	*	11	16	*	*	*
Guba	220	4	61	49	69	36	-	*
Wenbera	95	*	*	4	38	*	*	*
Mandura	24	*	*	*	8	9	-	*
Dibate	279	*	*	*	35	168	46	*
Pawe	369	1	17	43	150	148	*	*
Bulen	52	*	*	*	*	31	*	*
Asosa Zone	3314	12	332	789	1129	913	*	*
Menge	871	2	61	233	299	244	15	*
Kurmak	69	*	11	13	19	25	-	*
Asosa	1149	4	*	*	376	305	*	*
Sherkole	117	1	34	33	34	*	-	*
Bambasi	209	*	10	34	70	80	*	*
Oda Godere	347	1	28	53	140	83	*	*
Komesha	450	2	38	104	149	138	*	*
Mao Komo Special	104	1	16	22	41	*	-	*
Kemeshi Zone	361	1	18	50	153	110	28	*
Yaso	84	*	4	7	26	46	-	*
Sirba Abay	55	*	5	19	21	*	-	*
Kamashi	64	-	1	4	21	23	14	*
Agalo Meti	28	*	3	8	3	*	*	*
Belo Jegonfoy	130	*	4	12	83	28	2	*

TABLE 6.44.2: BELG

Geographic Area	Area Damaged by Crop Disease							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Benshangul-Gumuz	8	2	4	*	-	-	-	*
Metekel Zone	*	*	*	*	-	-	-	*
Dangur	-	-	-	-	-	-	-	*
Guba	-	-	-	-	-	-	-	*
Wenbera	*	*	*	*	-	-	-	*
Mandura	-	-	-	-	-	-	-	*
Dibate	-	-	-	-	-	-	-	*
Pawe	*	*	-	-	-	-	-	*
Bulen	-	-	-	-	-	-	-	*
Asosa Zone	5	1	*	*	-	-	-	*
Menge	-	-	-	-	-	-	-	*
Kurmak	-	-	-	-	-	-	-	*
Asosa	*	*	*	-	-	-	-	*
Sherkole	-	-	-	-	-	-	-	*
Bambasi	*	*	*	*	-	-	-	*
Oda Godere	-	-	-	-	-	-	-	*
Komesha	*	*	-	-	-	-	-	*
Mao Komo Special	*	-	*	-	-	-	-	*
Kemeshi Zone	1	*	1	-	-	-	-	*
Yaso	-	-	-	-	-	-	-	*
Sirba Abay	-	-	-	-	-	-	-	*
Kamashi	1	*	1	-	-	-	-	*
Agalo Meti	-	-	-	-	-	-	-	*
Belo Jegonfoy	-	-	-	-	-	-	-	*

TABLE 6.45: 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
Benshangul-	2574	7	225	507	870	845	96	*
Metekel Zone	766	3	43	106	270	321	*	-
Dangur	168	*	5	13	69	*	*	-
Guba	156	1	11	24	60	52	*	-
Wenbera	211	*	11	46	71	81	*	-
Mandura	19	*	*	*	*	10	-	-
Dibate	54	-	4	*	*	37	*	-
Pawe	124	*	9	14	48	44	*	-
Bulen	34	-	*	*	*	20	*	-
Asosa Zone	1236	3	143	298	421	330	21	*
Menge	418	*	42	96	163	102	*	-
Kurmak	232	*	17	55	75	84	-	-
Asosa	53	*	*	*	20	*	-	-
Sherkole	95	1	30	31	25	*	-	-
Bambasi	182	1	19	35	48	54	*	*
Oda Godere	119	*	14	33	44	*	-	-
Komesha	36	-	7	16	12	*	*	-
Mao Komo	101	-	6	26	34	35	-	-
Kemeshi Zone	571	1	39	103	179	194	52	*
Yaso	52	*	5	5	17	13	12	-
Sirba Abay	68	*	10	15	29	15	-	-
Kamashi	201	*	4	30	41	82	40	*
Agalo Meti	76	*	10	22	36	8	-	-

TABLE 6.45.1: MEHER

Geographic Area	Area Damaged by Frost or Floods							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Benshangul-Gumuz	2570	5	223	507	870	845	96	*
Metekel Zone	764	2	42	106	270	321	*	*
Dangur	168	*	5	13	69	*	*	*
Guba	156	1	11	24	60	52	*	*
Wenbera	209	*	10	46	71	81	*	*
Mandura	19	*	*	*	*	10	-	*
Dibate	54	-	4	*	*	37	*	*
Pawe	124	*	9	14	48	44	*	*
Bulen	34	-	*	*	*	20	*	*
Asosa Zone	1235	3	142	298	421	330	21	*
Menge	418	*	42	96	163	102	*	*
Kurmak	232	*	17	55	75	84	-	*
Asosa	53	-	*	*	20	*	-	*
Sherkole	95	1	30	31	25	*	-	*
Bambasi	181	*	19	35	48	54	*	*
Oda Godere	119	*	14	33	44	*	-	*
Komesha	36	-	7	16	12	*	*	*
Mao Komo Special	100	-	5	26	34	35	-	*
Kemeshi Zone	571	*	39	103	179	194	52	*
Yaso	52	*	5	5	17	13	12	*
Sirba Abay	68	*	10	15	29	15	-	*
Kamashi	200	-	4	30	41	82	40	*
Agalo Meti	76	*	10	22	36	8	-	*
Belo Jegonfoy	174	-	10	31	58	75	-	*

TABLE 6.45.2: BELG

Geographic Area	Area Damaged by Frost or Floods							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Benshangul-Gumuz	3	*	*	*	-	-	-	*
Metekel Zone	*	*	*	*	-	-	-	*
Dangur	-	-	-	-	-	-	-	*
Guba	-	-	-	-	-	-	-	*
Wenbera	*	*	*	*	-	-	-	*
Mandura	-	-	-	-	-	-	-	*
Dibate	-	-	-	-	-	-	-	*
Pawe	-	-	-	-	-	-	-	*
Bulen	-	-	-	-	-	-	-	*
Asosa Zone	*	*	*	-	-	-	-	*
Menge	-	-	-	-	-	-	-	*
Kurmak	-	-	-	-	-	-	-	*
Asosa	*	*	-	-	-	-	-	*
Sherkole	-	-	-	-	-	-	-	*
Bambasi	*	*	-	-	-	-	-	*
Oda Godere	-	-	-	-	-	-	-	*
Komesha	-	-	-	-	-	-	-	*
Mao Komo Special	*	-	*	-	-	-	-	*
Kemeshi Zone	*	*	-	-	-	-	-	*
Yaso	-	-	-	-	-	-	-	*
Sirba Abay	-	-	-	-	-	-	-	*
Kamashi	*	*	-	-	-	-	-	*
Agalo Meti	-	-	-	-	-	-	-	*
Belo Jegonfoy	-	-	-	-	-	-	-	*

TABLE 6.46: 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
Benshangul-Gumuz	6642	40	470	1050	2321	2454	276	*
Metekel Zone	3284	14	135	395	986	1527	202	*
Dangur	233	*	*	29	88	107	*	-
Guba	60	1	12	16	19	11	2	-
Wenbera	288	*	8	70	97	98	*	-
Mandura	502	*	37	115	220	120	*	-
Dibate	851	*	13	15	188	526	109	-
Pawe	727	9	44	107	257	298	*	-
Bulen	624	*	14	43	116	368	55	*
Asosa Zone	2154	22	230	457	941	474	28	-
Menge	275	1	31	80	113	51	*	-
Kurmak	328	2	49	52	99	116	*	-
Asosa	619	9	32	132	362	81	*	-
Sherkole	87	2	27	27	*	*	-	-
Bambasi	305	3	24	64	119	88	*	-
Oda Godere	276	3	40	54	119	60	-	-
Komesha	246	1	20	43	106	68	*	-
Mao Komo Special	18	*	7	5	*	*	-	-
Kemeshi Zone	1204	4	105	198	393	453	46	*
Yaso	262	3	48	46	52	99	14	-
Sirba Abay	180	*	25	47	73	35	-	-
Kamashi	322	-	7	22	95	163	31	*
Agalo Meti	254	*	22	63	118	50	-	-
Belo Jegonfoy	185	-	4	20	55	106	-	-

TABLE 6.46.1: MEHER

Geographic Area	Area Damaged by Locust							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Benshangul-Gumuz	6633	38	465	1049	2321	2454	276	*
Metekel Zone	3283	14	135	394	986	1527	202	*
Dangur	233	*	*	29	88	107	*	*
Guba	60	1	12	16	19	11	2	*
Wenbera	287	*	8	70	97	98	*	*
Mandura	502	*	37	115	220	120	*	*
Dibate	851	*	13	15	188	526	109	*
Pawe	727	9	44	107	257	298	*	*
Bulen	624	*	14	43	116	368	55	*
Asosa Zone	2148	19	228	457	941	474	28	*
Menge	275	1	31	80	113	51	*	*
Kurmak	328	2	49	52	99	116	*	*
Asosa	616	9	30	132	362	81	*	*
Sherkole	87	2	27	27	*	*	-	*
Bambasi	304	*	24	64	119	88	*	*
Oda Godere	275	3	40	54	119	60	-	*
Komesha	246	1	20	43	106	68	*	*
Mao Komo Special	17	-	6	*	*	*	-	*
Kemeshi Zone	1202	4	103	198	393	453	46	*
Yaso	262	3	48	46	52	99	14	*
Sirba Abay	180	*	25	47	73	35	-	*
Kamashi	320	-	5	22	95	163	31	*
Agalo Meti	254	*	22	63	118	50	-	*
Belo Jegonfoy	185	-	4	20	55	106	-	*

TABLE6.46.2:BEIG

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
Benshangul-Gumuz	9	3	5	*	-	-	-	*
Metekel Zone	*	*	*	*	-	-	-	*
Dangur	-	-	-	-	-	-	-	*
Guba	-	-	-	-	-	-	-	*
Wenbera	*	*	*	*	-	-	-	*
Mandura	-	-	-	-	-	-	-	*
Dibate	-	-	-	-	-	-	-	*
Pawe	*	*	-	-	-	-	-	*
Bulen	-	-	-	-	-	-	-	*
Asosa Zone	6	2	*	*	-	-	-	*
Menge	-	-	-	-	-	-	-	*
Kurmak	-	-	-	-	-	-	-	*
Asosa	*	1	*	-	-	-	-	*
Sherkole	-	-	-	-	-	-	-	*
Bambasi	*	*	*	-	-	-	-	*
Oda Godere	*	*	*	-	-	-	-	*
Komesha	*	*	*	-	-	-	-	*
Mao Komo Special	*	*	*	*	-	-	-	*
Kemeshi Zone	*	-	*	-	-	-	-	*
Yaso	-	-	-	-	-	-	-	*
Sirba Abay	-	-	-	-	-	-	-	*
Kamashi	*	-	*	-	-	-	-	*
Agalo Meti	-	-	-	-	-	-	-	*
Belo Jegonfoy	-	-	-	-	-	-	-	*

TABLE 6.47: 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
Benshangul-Gumuz	1289	3	56	179	496	463	82	*
Metekel Zone	663	2	23	73	234	283	49	-
Dangur	*	-	*	*	*	*	-	-
Guba	4	-	*	*	*	-	-	-
Wenbera	255	*	13	34	146	54	*	-
Mandura	*	-	-	*	*	*	-	-
Dibate	174	-	-	*	*	136	*	-
Pawe	156	*	8	24	52	65	*	-
Bulen	63	-	-	*	*	27	*	-
Asosa Zone	490	*	22	91	241	105	*	*
Menge	3	-	*	*	*	*	-	-
Kurmak	*	-	-	-	*	-	-	-
Asosa	414	-	15	73	204	95	*	*
Sherkole	*	-	*	-	*	-	-	-
Bambasi	32	*	*	7	14	7	-	-
Oda Godere	21	-	*	*	10	*	*	-
Komesha	5	*	*	*	*	*	-	-
Mao Komo Special	*	-	*	*	*	*	-	-
Kemeshi Zone	136	*	11	15	21	75	*	-
Yaso	11	-	2	1	*	7	-	-
Sirba Abay	19	-	5	*	*	*	-	-
Kamashi	11	-	2	-	*	*	*	-
Agalo Meti	*	*	*	*	*	-	*	-
Belo Jegonfoy	75	*	*	4	10	60	-	-

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TABLE 6.47.1: MEHER

Geographic Area	Area Damaged by Shortage of Rain							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Benshangul-Gumuz	1287	1	56	179	496	463	82	*
Metekel Zone	662	*	23	73	234	283	49	*
Dangur	*	-	*	*	*	*	-	*
Guba	4	-	*	*	*	-	-	*
Wenbera	254	*	12	34	146	54	*	*
Mandura	*	-	-	*	*	*	-	*
Dibate	174	-	-	*	*	136	*	*
Pawe	156	*	8	24	52	65	*	*
Bulen	63	-	-	*	*	27	*	*
Asosa Zone	489	*	22	91	241	105	*	*
Menge	3	-	*	*	*	*	-	*
Kurmak	*	-	-	-	*	-	-	*
Asosa	414	-	15	73	204	95	*	*
Sherkole	*	-	*	-	*	-	-	*
Bambasi	31	*	*	7	14	7	-	*
Oda Godere	21	-	*	*	10	*	*	*
Komesha	5	-	*	*	*	*	-	*
Mao Komo Special	*	-	*	*	*	*	-	*
Kemeshi Zone	136	*	11	15	21	75	*	*
Yaso	11	-	2	1	*	7	-	*
Sirba Abay	19	-	5	*	*	*	-	*
Kamashi	11	-	2	-	*	*	*	*
Agalo Meti	*	*	*	*	*	-	*	*
Belo Jegonfoy	75	*	*	4	10	60	-	*

TABLE 6.47.2: BELG

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
Benshangul-Gumuz	2	*	*	-	-	-	-	*
Metekel Zone	*	*	*	-	-	-	-	*
Dangur	-	-	-	-	-	-	-	*
Guba	-	-	-	-	-	-	-	*
Wenbera	*	*	*	-	-	-	-	*
Mandura	-	-	-	-	-	-	-	*
Dibate	-	-	-	-	-	-	-	*
Pawe	-	-	-	-	-	-	-	*
Bulen	-	-	-	-	-	-	-	*
Asosa Zone	*	*	*	-	-	-	-	*
Menge	-	-	-	-	-	-	-	*
Kurmak	-	-	-	-	-	-	-	*
Asosa	-	-	-	-	-	-	-	*
Sherkole	-	-	-	-	-	-	-	*
Bambasi	*	*	-	-	-	-	-	*
Oda Godere	-	-	-	-	-	-	-	*
Komesha	*	*	-	-	-	-	-	*
Mao Komo Special	*	-	*	-	-	-	-	*
Kemeshi Zone	-	-	-	-	-	-	-	*
Yaso	-	-	-	-	-	-	-	*
Sirba Abay	-	-	-	-	-	-	-	*
Kamashi	-	-	-	-	-	-	-	*
Agalo Meti	-	-	-	-	-	-	-	*
Belo Jegonfoy	-	-	-	-	-	-	-	*

TABLE 6.48: 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
Benshangul-Gumuz	1227	5	76	220	398	387	63	*
Metekel Zone	207	2	16	44	39	81	*	-
Dangur	42	*	3	*	*	*	-	-
Guba	*	-	-	*	-	-	-	-
Wenbera	56	*	*	*	*	*	-	-
Mandura	*	-	*	-	*	*	-	-
Dibate	49	*	*	*	1	20	*	-
Pawe	28	*	*	*	7	*	-	-
Bulen	*	-	-	*	*	*	*	-
Asosa Zone	757	4	48	132	278	185	*	*
Menge	*	-	*	7	*	*	*	-
Kurmak	27	-	*	*	*	*	*	-
Asosa	208	*	16	46	90	51	-	*
Sherkole	*	*	*	*	-	-	-	-
Bambasi	191	*	8	24	37	48	*	*
Oda Godere	85	*	7	16	25	37	-	-
Komesha	*	*	*	4	*	*	-	-
Mao Komo Special	193	*	11	36	86	39	*	-
Kemeshi Zone	262	*	12	44	81	121	4	-
Yaso	45	*	5	15	15	12	-	-
Sirba Abay	*	-	*	*	*	*	-	-
Kamashi	28	-	*	5	*	12	*	-
Agalo Meti	3	-	*	2	*	-	-	-
Belo Jegonfoy	173	-	6	21	49	94	*	-

TABLE 6.48.1: MEHER

Geographic Area	Area Damaged by Too Much Rain							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Benshangul-Gumuz	1225	4	76	220	398	387	63	*
Metekel Zone	207	*	16	44	39	81	*	*
Dangur	42	*	3	*	*	*	-	*
Guba	*	-	-	*	-	-	-	*
Wenbera	56	*	*	*	*	*	-	*
Mandura	*	-	*	-	*	*	-	*
Dibate	49	*	*	*	1	20	*	*
Pawe	28	*	*	*	7	*	-	*
Bulen	*	-	-	*	*	*	*	*
Asosa Zone	756	3	47	132	278	185	*	*
Menge	*	-	*	7	*	*	*	*
Kurmak	27	-	*	*	*	*	*	*
Asosa	208	*	16	46	90	51	-	*
Sherkole	*	*	*	*	-	-	-	*
Bambasi	190	*	8	24	37	48	*	*
Oda Godere	85	*	7	16	25	37	-	*
Komesha	*	-	*	4	*	*	-	*
Mao Komo Special	193	*	11	36	86	39	*	*
Kemeshi Zone	262	*	12	44	81	121	4	*
Yaso	45	*	5	15	15	12	-	*
Sirba Abay	*	-	*	*	*	*	-	*
Kamashi	28	-	*	5	*	12	*	*
Agalo Meti	3	-	*	2	*	-	-	*
Belo Jegonfoy	173	-	6	21	49	94	*	*

TABLE 6.48.2: BELG

Geographic Area	Area Damaged by Too Much Rain							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Benshangul-Gumuz	*	*	-	-	-	-	-	-
Metekel Zone	*	*	-	-	-	-	-	-
Dangur	*	*	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-
Pawe	*	*	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-
Asosa Zone	*	*	-	-	-	-	-	-
Menge	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-
Asosa	*	*	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-
Bambasi	*	*	*	-	-	-	-	-
Oda Godere	*	*	-	-	-	-	-	-
Komesha	*	*	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-

TABLE 6.49: CROP AREA (HECTARES) DAMAGED BY WILD ANIMALS AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Wild Animals							
	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
Benshangul-Gumuz	618	6	50	102	233	201	25	-
Metekel Zone	173	2	5	14	44	91	16	-
Dangur	*	*	*	*	5	*	-	-
Guba	*	-	-	-	*	-	-	-
Wenbera	*	-	*	*	*	*	-	-
Mandura	*	-	-	*	-	-	-	-
Dibate	93	*	*	*	16	65	*	-
Pawe	39	*	*	*	18	*	*	-
Bulen	13	-	*	*	*	*	*	-
Asosa Zone	378	*	43	74	160	93	*	-
Menge	29	*	*	*	9	*	-	-
Kurmak	*	-	*	*	-	*	-	-
Asosa	*	*	*	*	*	*	*	-
Sherkole	*	-	-	-	*	-	-	-
Bambasi	5	*	*	*	3	*	*	-
Oda Godere	12	-	*	*	*	*	-	-
Komesha	139	*	19	23	61	*	-	-
Mao Komo Special	50	-	13	21	*	*	-	-
Kemeshi Zone	67	*	2	15	29	*	*	-
Yaso	15	*	1	5	*	*	-	-
Sirba Abay	-	-	-	-	-	-	-	-
Kamashi	*	-	-	-	*	-	*	-
Agalo Meti	*	-	*	*	-	*	-	-
Belo Jegonfoy	49	*	1	7	27	*	*	-

TABLE 6.49.1: MEHER

Geographic Area	Area Damaged by Wild Animals							
	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
Benshangul-Gumuz	618	6	50	102	233	201	25	*
Metekel Zone	173	2	5	14	44	91	16	*
Dangur	*	*	*	*	5	*	-	*
Guba	*	-	-	-	*	-	-	*
Wenbera	*	-	*	*	*	*	-	*
Mandura	*	-	-	*	-	-	-	*
Dibate	93	*	*	*	16	65	*	*
Pawe	39	*	*	*	18	*	*	*
Bulen	13	-	*	*	*	*	*	*
Asosa Zone	378	*	43	74	160	93	*	*
Menge	29	*	*	*	9	*	-	*
Kurmak	*	-	*	*	-	*	-	*
Asosa	*	*	*	*	*	*	*	*
Sherkole	*	-	-	-	*	-	-	*
Bambasi	5	*	*	*	3	*	*	*
Oda Godere	12	-	*	*	*	*	-	*
Komesha	139	*	19	23	61	*	-	*
Mao Komo Special	50	-	13	21	*	*	-	*
Kemeshi Zone	67	*	2	15	29	*	*	*
Yaso	15	*	1	5	*	*	-	*
Sirba Abay	-	-	-	-	-	-	-	*
Kamashi	*	-	-	-	*	-	*	*
Agalo Meti	*	-	*	*	-	*	-	*
Belo Jegonfoy	49	*	1	7	27	*	*	*

TABLE 6.50: CROP AREA (HECTARES) DAMAGED BY HAIL STONE AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Hail Stone							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Benshangul-Gumuz	798	3	28	94	225	430	18	-
Metekel Zone	749	3	27	84	198	420	18	-
Dangur	*	*	*	*	31	*	*	-
Guba	32	*	5	8	8	*	*	-
Wenbera	*	-	*	*	*	*	-	-
Mandura	*	-	-	-	*	-	-	-
Dibate	90	-	-	*	*	71	*	-
Pawe	384	*	17	36	131	197	*	-
Bulen	*	-	*	-	*	*	-	-
Asosa Zone	44	*	*	*	26	*	-	-
Menge	*	-	-	*	*	-	-	-
Kurmak	*	-	*	*	*	-	-	-
Asosa	15	-	-	*	*	*	-	-
Sherkole	*	-	*	-	-	-	-	-
Bambasi	4	-	*	*	*	*	-	-
Oda Godere	*	*	-	*	*	*	-	-
Komesha	4	-	-	-	4	-	-	-
Mao Komo Special	*	-	*	*	-	-	-	-
Kemeshi Zone	5	-	1	1	*	*	-	-
Yaso	3	-	*	1	-	*	-	-
Sirba Abay	*	-	*	*	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-
Agalo Meti	*	-	*	*	*	-	-	-
Belo Jegonfoy	*	-	-	*	-	-	-	-

TABLE 6.50.1: MEHER

Geographic Area	Area Damaged by Hail Stone							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Benshangul-Gumuz	798	3	28	94	225	430	18	*
Metekel Zone	749	3	27	84	198	420	18	*
Dangur	*	*	*	*	31	*	*	*
Guba	32	*	5	8	8	*	*	*
Wenbera	*	-	*	*	*	*	-	*
Mandura	*	-	-	-	*	-	-	*
Dibate	90	-	-	*	*	71	*	*
Pawe	384	*	17	36	131	197	*	*
Bulen	*	-	*	-	*	*	-	*
Asosa Zone	44	*	*	*	26	*	-	*
Menge	*	-	-	*	*	-	-	*
Kurmak	*	-	*	*	*	-	-	*
Asosa	15	-	-	*	*	*	-	*
Sherkole	*	-	*	-	-	-	-	*
Bambasi	4	-	*	*	*	*	-	*
Oda Godere	*	*	-	*	*	*	-	*
Komesha	4	-	-	-	4	-	-	*
Mao Komo Special	*	-	*	*	-	-	-	*
Kemeshi Zone	5	-	1	1	*	*	-	*
Yaso	3	-	*	1	-	*	-	*
Sirba Abay	*	-	*	*	-	-	-	*
Kamashi	-	-	-	-	-	-	-	*
Agalo Meti	*	-	*	*	*	-	-	*
Belo Jegonfoy	*	-	-	*	-	-	-	*

TABLE 6.51: CROP AREA (HECTARES) DAMAGED BY INSECT AND PESTS AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Insect and Pests							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-	Over 10
Benshangul-Gumuz	51	*	5	2	15	25	-	*
Metekel Zone	*	-	-	*	*	*	-	-
Dangur	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-
Pawe	*	-	-	*	*	-	-	-
Bulen	*	-	-	*	*	*	-	-
Asosa Zone	35	*	4	2	9	17	-	*
Menge	*	-	*	*	*	*	-	-
Kurmak	21	-	*	-	*	*	-	-
Asosa	*	-	-	-	*	*	-	-
Sherkole	-	-	-	-	-	-	-	-
Bambasi	*	*	*	-	*	*	-	*
Oda Godere	*	-	-	*	*	-	-	-
Komesha	*	-	*	*	*	-	-	-
Mao Komo Special	*	-	*	*	-	-	-	-
Kemeshi Zone	4	-	*	-	*	*	-	-
Yaso	-	-	-	-	-	-	-	-
Sirba Abay	*	-	*	-	*	-	-	-
Kamashi	*	-	-	-	*	*	-	-
Agalo Meti	-	-	-	-	-	-	-	-
Belo Jegonfoy	*	-	-	-	*	-	-	-

TABLE 6.51.1: MEHER

Geographic Area	Area Damaged by Insect and Pests							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Benshangul-Gumuz	51	-	5	2	15	25	-	*
Metekel Zone	*	-	-	*	*	*	-	*
Dangur	-	-	-	-	-	-	-	*
Guba	-	-	-	-	-	-	-	*
Wenbera	-	-	-	-	-	-	-	*
Mandura	-	-	-	-	-	-	-	*
Dibate	-	-	-	-	-	-	-	*
Pawe	*	-	-	*	*	-	-	*
Bulen	*	-	-	*	*	*	-	*
Asosa Zone	35	-	4	2	9	17	-	*
Menge	*	-	*	*	*	*	-	*
Kurmak	21	-	*	-	*	*	-	*
Asosa	*	-	-	-	*	*	-	*
Sherkole	-	-	-	-	-	-	-	*
Bambasi	*	-	*	-	*	*	-	*
Oda Godere	*	-	-	*	*	-	-	*
Komesha	*	-	*	*	*	-	-	*
Mao Komo Special	*	-	*	*	-	-	-	*
Kemeshi Zone	4	-	*	-	*	*	-	*
Yaso	-	-	-	-	-	-	-	*
Sirba Abay	*	-	*	-	*	-	-	*
Kamashi	*	-	-	-	*	*	-	*
Agalo Meti	-	-	-	-	-	-	-	*
Belo Jegonfoy	*	-	-	-	*	-	-	*

TABLE 6.52: 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
Benshangul-Gumuz	598	2	66	105	178	186	40	*
Metekel Zone	128	-	*	*	14	88	*	*
Dangur	*	-	*	-	*	*	-	-
Guba	*	-	-	*	*	-	-	-
Wenbera	*	-	-	*	*	*	*	-
Mandura	*	-	*	*	-	*	-	-
Dibate	66	-	*	-	*	45	*	*
Pawe	11	-	*	*	*	*	-	-
Bulen	*	-	*	-	*	*	-	-
Asosa Zone	317	2	49	87	87	69	*	*
Menge	78	-	*	24	37	6	-	-
Kurmak	*	-	*	*	*	*	-	-
Asosa	*	*	*	*	16	*	-	*
Sherkole	45	*	14	15	*	-	-	-
Bambasi	47	*	*	*	9	26	*	-
Oda Godere	8	-	*	*	*	*	-	-
Komesha	7	*	*	*	*	3	-	-
Mao Komo Special	*	-	-	*	*	*	-	-
Kemeshi Zone	153	*	16	15	77	29	17	*
Yaso	58	*	12	11	17	*	*	-
Sirba Abay	1	-	*	*	*	-	-	-
Kamashi	14	-	*	*	*	6	*	*
Agalo Meti	5	*	2	*	2	*	-	-
Belo Jegonfoy	75	*	1	3	54	4	*	-

TABLE 6.52.1: MEHER

Geographic Area	Area Damaged by Weeds							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Benshangul-Gumuz	596	1	66	105	178	186	40	*
Metekel Zone	128	-	*	*	14	88	*	*
Dangur	*	-	*	-	*	*	-	*
Guba	*	-	-	*	*	-	-	*
Wenbera	*	-	-	*	*	*	*	*
Mandura	*	-	*	*	-	*	-	*
Dibate	66	-	*	-	*	45	*	*
Pawe	11	-	*	*	*	*	-	*
Bulen	*	-	*	-	*	*	-	*
Asosa Zone	316	*	48	87	87	69	*	*
Menge	78	-	*	24	37	6	-	*
Kurmak	*	-	*	*	*	*	-	*
Asosa	*	-	*	*	16	*	-	*
Sherkole	45	*	14	15	*	-	-	*
Bambasi	47	-	*	*	9	26	*	*
Oda Godere	8	-	*	*	*	*	-	*
Komesha	7	-	*	*	*	3	-	*
Mao Komo Special	*	-	-	*	*	*	-	*
Kemeshi Zone	153	*	16	15	77	29	17	*
Yaso	58	*	12	11	17	*	*	*
Sirba Abay	1	-	*	*	*	-	-	*
Kamashi	14	-	*	*	*	6	*	*
Agalo Meti	5	*	2	*	2	*	-	*
Belo Jegonfoy	75	*	1	3	54	4	*	*

TABLE 6.52.2: BELG

Geographic Area	Area Damaged by Weeds							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Benshangul-Gumuz	1	*	*	-	-	-	-	-
Metekel Zone	-	-	-	-	-	-	-	-
Dangur	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-
Asosa Zone	*	*	*	-	-	-	-	-
Menge	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-
Asosa	*	*	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-
Bambasi	*	*	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-

TABLE 6.53: CROP AREA (HECTARES) DAMAGED BY OTHER CAUSE AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Other Causes							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Benshangul-Gumuz	16	3	3	*	*	*	-	-
Metekel Zone	*	*	*	-	-	*	-	-
Dangur	*	-	-	-	-	*	-	-
Guba	-	-	-	-	-	-	-	-
Wenbera	*	-	*	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-
Pawe	*	*	-	-	-	*	-	-
Bulen	-	-	-	-	-	-	-	-
Asosa Zone	10	2	2	*	*	*	-	-
Menge	*	-	-	-	*	-	-	-
Kurmak	-	-	-	-	-	-	-	-
Asosa	5	2	*	*	*	-	-	-
Sherkole	*	-	*	-	-	-	-	-
Bambasi	*	*	*	-	-	-	-	-
Oda Godere	*	-	-	-	-	*	-	-
Komesha	*	*	-	*	-	-	-	-
Mao Komo Special	1	*	*	*	-	*	-	-
Kemeshi Zone	*	*	*	-	*	*	-	-
Yaso	-	-	-	-	-	-	-	-
Sirba Abay	*	-	-	-	-	*	-	-
Kamashi	*	*	*	-	*	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-
Belo Jegonfoy	*	*	-	-	*	-	-	-

TABLE 6.53.1: 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
Benshangul-Gumuz	11	*	*	*	*	*	-	*
Metekel Zone	*	-	*	-	-	*	-	*
Dangur	*	-	-	-	-	*	-	*
Guba	-	-	-	-	-	-	-	*
Wenbera	*	-	*	-	-	-	-	*
Mandura	-	-	-	-	-	-	-	*
Dibate	-	-	-	-	-	-	-	*
Pawe	*	-	-	-	-	*	-	*
Bulen	-	-	-	-	-	-	-	*
Asosa Zone	*	-	*	*	*	*	-	*
Menge	*	-	-	-	*	-	-	*
Kurmak	-	-	-	-	-	-	-	*
Asosa	*	-	-	*	*	-	-	*
Sherkole	*	-	*	-	-	-	-	*
Bambasi	-	-	-	-	-	-	-	*
Oda Godere	*	-	-	-	-	*	-	*
Komesha	*	-	-	*	-	-	-	*
Mao Komo Special	*	-	-	-	-	*	-	*
Kemeshi Zone	*	*	*	-	*	*	-	*
Yaso	-	-	-	-	-	-	-	*
Sirba Abay	*	-	-	-	-	*	-	*
Kamashi	*	-	*	-	*	-	-	*
Agalo Meti	-	-	-	-	-	-	-	*
Belo Jegonfoy	*	*	-	-	*	-	-	*

TABLE 6.53.2: 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
Benshangul-Gumuz	5	3	2	*	-	-	-	-
Metekel Zone	*	*	*	-	-	-	-	-
Dangur	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-
Wenbera	*	-	*	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-
Pawe	*	*	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-
Asosa Zone	4	3	2	*	-	-	-	-
Menge	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-
Asosa	3	2	*	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-
Bambasi	1	*	*	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-	-
Komesha	*	*	*	-	-	-	-	-
Mao Komo Special	*	*	*	*	-	-	-	-
Kemeshi Zone	*	*	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-
Kamashi	*	*	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-

TABLE 6.54:NUMBER OF AGRICULTURAL HOLDERS APPLYING IRRIGATION BY SOURCE OF WATER IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Level	Source of Water			
	River	Lake	Pond	Others
Benshangul-Gumuz	9816	1344	271	195
Metekel Zone	2662	403	*	*
Dangur	*	114	-	*
Guba	-	*	-	-
Wenbera	2099	111	*	-
Mandura	*	*	-	-
Dibate	*	84	-	*
Pawe	377	61	-	*
Bulen	*	*	*	-
Asosa Zone	6708	726	232	*
Menge	51	120	-	-
Kurmak	*	104	-	-
Asosa	4994	140	*	*
Sherkole	-	59	-	-
Bambasi	1207	157	*	*
Oda Godere	*	46	-	-
Komesha	272	99	*	-
Mao Komo Special	135	-	-	-
Kemeshi Zone	446	215	*	*
Yaso	-	22	-	-
Sirba Abay	*	*	-	-
Kamashi	127	22	-	-
Agalo Meti	217	*	*	-
Belo Jegonfoy	87	93	-	*

TABLE 6.55:NUMBER OF AGRICULTURAL HOLDERS IMPROVING SOIL FERTILITY BY METHOD OF APPLICATION IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Level	Method to Improve Soil Fertility	
	Crop Rotation	Burning of Soil
Benshangul-Gumuz	71931	10679
Metekel Zone	31854	7964
Dangur	3458	414
Guba	1016	249
Wenbera	3665	1706
Mandura	5341	306
Dibate	7714	2114
Pawe	6881	2748
Bulen	3779	426
Asosa Zone	29804	2441
Menge	722	127
Kurmak	543	*
Asosa	13999	1428
Sherkole	353	*
Bambasi	7261	536
Oda Godere	2367	*
Komesha	979	41
Mao Komo Special	3581	239
Kemeshi Zone	10273	274
Yaso	2934	56
Sirba Abay	376	*
Kamashi	1302	-
Agalo Meti	582	-
Belo Jegonfoy	5079	176

TABLE 6.56: NUMBER OF HOLDERS BY REASON FOR NOT USING CHEMICAL FERTILIZER IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Level	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
Benshangul-Gumuz	34066	12459	66023	10606	548	1265	20783
Metekel Zone	15899	3253	21278	3533	182	251	9130
Dangur	2598	321	2320	658	*	*	1825
Guba	1704	263	743	1209	15	*	179
Wenbera	3014	647	2675	796	*	62	934
Mandura	2898	211	1583	203	-	*	1114
Dibate	2703	572	4224	346	93	54	3227
Pawe	797	865	7535	277	*	*	1009
Bulen	2186	374	2197	46	*	*	842
Asosa Zone	12222	7710	36793	5895	342	568	6348
Menge	1651	373	5728	958	*	-	1277
Kurmak	711	*	1545	1269	*	-	295
Asosa	5962	3383	12679	1215	*	*	2420
Sherkole	959	555	1743	744	*	31	187
Bambasi	568	1907	5446	715	*	*	461
Oda Godere	873	676	3861	183	*	*	477
Komesha	542	110	2320	380	-	*	220
Mao Komo Special	956	652	3472	431	*	*	1011
Kemeshi Zone	5945	1495	7951	1178	24	446	5305
Yaso	1433	83	875	189	-	*	890
Sirba Abay	515	*	1111	359	*	*	417
Kamashi	530	394	1422	63	*	85	1560
Agalo Meti	1464	185	1024	313	-	-	981
Belo Jegonfoy	2002	787	3520	254	6	323	1457

TABLE 6.57:NUMBER OF AGRICULTURAL HOLDERS BY PLOWING METHOD IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Level	Method of Plowing				
	Hand Dung	Ox/Horse Driven	Tractor	Hand Dung and Ox/Horse Driven	Tractor and Ox/horse Driven
Benshangul-Gumuz	66984	30664	-	23116	*
Metekel Zone	23087	16830	-	6705	*
Dangur	4082	1082	-	986	-
Guba	3610	10	-	-	-
Wenbera	4127	2744	-	1855	-
Mandura	4599	752	-	73	-
Dibate	2749	4129	-	2058	*
Pawe	1269	6126	-	1199	-
Bulen	2652	1987	-	535	-
Asosa Zone	31876	11688	-	12158	*
Menge	7717	*	-	760	-
Kurmak	3636	*	-	*	-
Asosa	4929	5232	-	7322	-
Sherkole	4354	47	-	-	*
Bambasi	2719	3662	-	2131	-
Oda Godere	4062	709	-	1219	-
Komesha	2762	96	-	55	-
Mao Komo	1697	1873	-	661	-
Kemeshi Zone	12021	2146	-	4252	*
Yaso	2747	269	-	624	*
Sirba Abay	2300	49	-	141	-
Kamashi	1919	324	-	483	-
Agalo Meti	2968	*	-	497	-
Belo Jegonfoy	2087	1463	-	2507	-

TABLE 6.58:NUMBER OF AGRICULTURAL HOLDERS BY METHOD OF SOIL CONSERVATION IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Level	Method of Soil Conservation				
	Terracing	Water Catchment	Afforstation	Plowing along The Counter	Others
Benshangul-Gumuz	4586	10895	247	37784	3520
Metekel Zone	1655	2187	209	18731	1145
Dangur	*	287	*	1504	*
Guba	-	*	-	*	-
Wenbera	*	*	*	4258	822
Mandura	*	*	-	587	*
Dibate	366	255	*	4782	124
Pawe	595	1483	87	5308	*
Bulen	*	*	*	2289	*
Asosa Zone	2320	8423	*	13036	2325
Menge	315	*	-	*	*
Kurmak	502	75	*	*	*
Asosa	581	5998	-	6140	1050
Sherkole	*	*	-	*	*
Bambasi	504	1005	-	4098	544
Oda Godere	*	700	-	1061	*
Komesha	210	138	*	131	35
Mao Komo	146	243	-	1526	539
Kemeshi Zone	611	284	-	6016	50
Yaso	-	*	-	840	-
Sirba Abay	*	*	-	*	-
Kamashi	*	86	-	1058	-
Agalo Meti	-	-	-	507	44
Belo Jegonfoy	583	179	-	3468	*

TABLE 6.59: NUMBER OF AGRICULTURAL HOLDERS PRACTICING EXTENSION PACKAGES BY TYPE IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Level	Rain Shortage Areas	Rain Abundent Areas	Post Harvest Technology	Livestock Development	Economicaly Important Crops	Any two or more packages
Benshangul-Gumuz	1137	9156	658	*	979	240
Metekel Zone	104	2754	658	*	776	81
Dangur	*	*	*	-	130	-
Guba	*	-	-	-	-	-
Wenbera	-	*	-	-	*	-
Mandura	-	180	*	-	*	-
Dibate	*	1472	*	-	*	*
Pawe	*	351	256	*	295	*
Bulen	-	427	*	-	*	*
Asosa Zone	470	4842	-	*	*	*
Menge	*	209	-	-	*	-
Kurmak	*	*	-	-	-	-
Asosa	*	2248	-	*	*	*
Sherkole	*	*	-	-	-	-
Bambasi	*	1067	-	-	-	*
Oda Godere	117	116	-	-	-	-
Komesha	-	312	-	-	-	-
Mao Komo Special	*	822	-	-	-	-
Kemeshi Zone	563	1560	-	-	109	29
Yaso	-	-	-	-	-	-
Sirba Abay	*	165	-	-	-	-
Kamashi	384	41	-	-	-	21
Agalo Meti	91	-	-	-	-	-
Belo Jegonfoy	78	1354	-	-	109	*

TABLE 6.60: NUMBER OF HOLDERS BY REASON FOR NOT BEING COVERED BY EXTENSION PROGRAM IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Level	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
Benshangul-Gumuz	27332	63435	5058	8643	3212	4624
Metekel Zone	14817	19016	2021	4336	2042	1395
Dangur	2876	2112	-	*	210	*
Guba	2223	483	45	963	-	*
Wenbera	2784	2786	414	1767	601	*
Mandura	3241	945	-	897	*	*
Dibate	1422	4289	914	*	654	495
Pawe	213	6310	604	*	469	144
Bulen	2059	2091	*	377	*	*
Asosa Zone	7392	36853	1890	3326	696	2004
Menge	1627	5847	*	627	*	234
Kurmak	1092	2060	78	468	64	106
Asosa	1438	11728	798	*	150	347
Sherkole	1024	2171	290	731	130	231
Bambasi	590	5589	387	298	161	602
Oda Godere	923	4471	145	257	*	270
Komesha	407	2021	68	147	*	94
Mao Komo Special	290	2966	97	*	103	121
Kemeshi Zone	5123	7565	1147	980	473	1224
Yaso	1882	739	479	322	-	344
Sirba Abay	779	1053	-	410	-	157
Kamashi	539	986	357	28	*	388
Agalo Meti	1462	1886	122	119	77	-
Belo Jegonfoy	460	2902	189	100	388	334

TABLE 6.61:NUMBER OF AGRICULTURAL HOLDERS WHO USE SERVICES IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Level	Service Type			
	Credit Service	%	Advisory Service	%
Benshangul-Gumuz	8396	100.00	17458	100.00
Metekel Zone	2614	31.13	6106	34.98
Dangur	*	*	546	3.13
Guba	-	-	145	0.83
Wenbera	520	6.19	1080	6.19
Mandura	184	2.19	268	1.54
Dibate	977	11.64	1090	6.24
Pawe	473	5.63	1515	8.68
Bulen	432	5.15	1462	8.37
Asosa Zone	3724	44.35	8817	50.50
Menge	273	3.25	136	0.78
Kurmak	*	*	84	0.48
Asosa	1777	21.16	5362	30.71
Sherkole	*	*	*	*
Bambasi	413	4.92	944	5.41
Oda Godere	182	2.17	493	2.82
Komesha	234	2.79	651	3.73
Mao Komo Special	785	9.35	1098	6.29
Kemeshi Zone	2058	24.51	2534	14.51
Yaso	-	-	123	0.70
Sirba Abay	134	1.60	275	1.58
Kamashi	469	5.59	499	2.86
Agalo Meti	171	2.04	239	1.37
Belo Jegonfoy	1284	15.29	1398	8.01

TABLE 6.62: NUMBER OF HOLDERS BY SOURCE OF CHEMICAL FERTILIZERS AND COST OF CHEMICAL FERTILZERS IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Level	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
Benshangul-Gumuz	13052	458	2555	*	104320	2323	293	257
Metekel Zone	5510	129	1463	*	39406	1272	131	106
Dangur	687	*	*	-	5422	*	14	12
Guba	*	*	-	-	3613	140	*	*
Wenbera	1114	*	1112	-	6428	*	42	26
Mandura	243	*	-	-	5146	58	5	4
Dibate	1708	*	*	-	7163	89	33	31
Pawe	1321	73	263	*	6936	646	28	23
Bulen	431	-	*	-	4698	*	9	9
Asosa Zone	5135	244	1051	*	49213	888	115	105
Menge	224	*	-	-	8188	74	4	4
Kurmak	66	*	-	-	3610	*	1	1
Asosa	2530	*	825	*	14055	*	63	51
Sherkole	*	23	-	-	4337	*	*	*
Bambasi	901	*	190	*	7373	220	18	20
Oda Godere	216	*	-	-	5761	*	5	5
Komesha	281	*	*	*	2559	*	6	6
Mao Komo	886	*	-	-	3331	*	17	18
Kemeshi Zone	2407	86	*	-	15701	164	47	47
Yaso	-	*	-	-	3655	*	-	-
Sirba Abay	146	*	-	-	2324	*	3	3
Kamashi	453	24	-	-	2259	27	9	9
Agalo Meti	178	*	*	-	3253	65	4	3
Belo Jegonfoy	1629	-	-	-	4210	42	32	32

TABLE 6.63: NUMBER OF HOLDERS WHO PRACTICE BELG FROM 1999/2000 TO 2001/02 IN URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic	Holders who Practice Belg from 1999/2000 to 2001/02				
	Total	Male	%	Female	%
Benshangul-Gumuz	101	96	95.05	*	*
Metekel Zone	39	36	92.31	*	*
Dangur	32	28	87.5	*	*
Guba	-	-	-	-	-
Wenbera	*	*	*	-	-
Mandura	-	-	-	-	-
Dibate	-	-	-	-	-
Pawe	*	*	*	-	-
Bulen	-	-	-	-	-
Asosa Zone	61	61	100	*	*
Menge	3	3	100	-	-
Kurmak	-	-	-	-	-
Asosa	23	22	95.65	*	*
Bambasi	35	35	100	-	-

TABLE 6.64: NUMBER OF HOLDERS WHO PRACTICE IRRIGATION BY SOURCE OF WATER IN URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Level	Holders who Practice Irrigation in Meher Season					
	River	Lake	Well	Tap Water	Others	Not Stated
Benshangul-Gumuz	147	57	*	33	29	*
Metekel Zone	81	36	*	33	24	*
Dangur	22	*	*	-	17	*
Guba	-	-	-	19	-	-
Wenbera	35	*	-	-	-	-
Mandura	-	-	-	-	-	-
Dibate	*	8	-	*	-	-
Pawe	*	*	-	*	*	-
Bulen	*	*	-	-	*	-
Asosa Zone	66	22	-	-	*	*
Menge	2	-	-	-	-	-
Kurmak	-	-	-	-	-	-
Asosa	*	*	-	-	*	*
Bambasi	38	17	-	-	-	*

TABLE 6.65: NUMBER OF HOLDERS PARTICIPATING IN CROP SPECIFIC EXTENSION PACKAGE AND AREA UNDER CROP SPECIFIC EXTENSION PACKAGE FOR RURAL AREAS IN MEHER SEASON

Geographic Level	All crops		Teff		Barley		Wheat	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Benshangul-Gumuz	5563	2347	203	68	52	*	*	*
Metekel Zone	2138	982	*	*	*	*	*	*
Dangur	*	*	-	-	-	-	-	-
Guba	36	26	-	-	-	-	-	-
Wenbera	*	165	*	*	*	*	*	*
Mandura	178	60	*	*	-	-	-	-
Dibate	938	447	*	*	-	-	-	-
Pawe	348	112	-	-	*	*	-	-
Bulen	84	31	-	-	-	-	-	-
Asosa Zone	2572	932	174	*	*	*	*	*
Menge	218	105	-	-	-	-	-	-
Kurmak	98	68	-	-	-	-	-	-
Asosa	1231	414	162	*	-	-	-	-
Sherkole	34	*	*	*	-	-	-	-
Bambasi	197	56	-	-	-	-	-	-
Oda Godere	85	*	-	-	-	-	-	-
Komesha	246	106	-	-	-	-	-	-
Mao Komo	464	149	*	*	*	*	*	*
Kemeshi Zone	852	432	-	-	*	*	-	-
Yaso	*	*	-	-	-	-	-	-
Sirba Abay	71	28	-	-	-	-	-	-
Kamashi	229	104	-	-	-	-	-	-
Agalo Meti	*	*	-	-	-	-	-	-
Belo Jegonfoy	520	294	-	-	*	*	-	-

	Maize		Sorghum		Rice		Field peas	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Benshangul-Gumuz	4885	1919	444	205	*	*	-	-
Metekel Zone	1860	814	88	*	*	*	-	-
Dangur	*	*	*	*	-	-	-	-
Guba	-	-	36	18	-	-	-	-
Wenbera	*	*	*	*	-	-	-	-
Mandura	124	44	*	*	-	-	-	-
Dibate	906	397	*	*	-	-	-	-
Pawe	267	90	-	-	*	*	-	-
Bulen	68	28	*	*	-	-	-	-
Asosa Zone	2202	707	324	107	-	-	-	-
Menge	114	38	107	*	-	-	-	-
Kurmak	84	*	60	31	-	-	-	-
Asosa	1094	334	*	*	-	-	-	-
Sherkole	*	*	*	*	-	-	-	-
Bambasi	163	55	-	-	-	-	-	-
Oda Godere	85	*	-	-	-	-	-	-
Komesha	225	79	40	21	-	-	-	-
Mao Komo	432	141	*	*	-	-	-	-
Kemeshi Zone	824	398	31	*	-	-	-	-
Yaso	*	*	-	-	-	-	-	-
Sirba Abay	63	22	*	*	-	-	-	-
Kamashi	217	96	*	*	-	-	-	-
Agalo Meti	*	*	-	-	-	-	-	-
Belo Jegonfoy	511	276	*	*	-	-	-	-

TABLE 6.65: CONTD.

Geographic Level	Haricot beans		Chick peas		Lentils		Neug	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Benshangul-Gumuz	541	53	-	-	-	-	137	21
Metekel Zone	146	20	-	-	-	-	*	*
Dangur	-	-	-	-	-	-	-	-
Guba	32	5	-	-	-	-	-	-
Wenbera	*	*	-	-	-	-	-	-
Mandura	50	4	-	-	-	-	*	*
Dibate	*	*	-	-	-	-	-	-
Pawe	*	*	-	-	-	-	*	*
Bulen	-	-	-	-	-	-	*	*
Asosa Zone	356	30	-	-	-	-	97	10
Menge	73	*	-	-	-	-	*	*
Kurmak	*	*	-	-	-	-	*	*
Asosa	*	*	-	-	-	-	*	*
Sherkole	-	-	-	-	-	-	-	-
Bambasi	*	*	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-	-
Komesha	*	*	-	-	-	-	*	*
Mao Komo	*	*	-	-	-	-	-	-
Kemeshi Zone	39	*	-	-	-	-	*	*
Yaso	-	-	-	-	-	-	-	-
Sirba Abay	*	*	-	-	-	-	-	-
Kamashi	26	*	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	*	*

	Linseed		Ground nuts		Sesame		Rapeseed	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Benshangul-Gumuz	*	*	42	*	214	39	*	*
Metekel Zone	-	-	*	*	*	*	*	*
Dangur	-	-	-	-	-	-	-	-
Guba	-	-	-	-	*	*	-	-
Wenbera	-	-	-	-	*	*	*	*
Mandura	-	-	-	-	*	*	*	*
Dibate	-	-	-	-	-	-	-	-
Pawe	-	-	*	*	-	-	-	-
Bulen	-	-	-	-	-	-	-	-
Asosa Zone	*	*	*	*	159	22	*	*
Menge	-	-	*	*	113	19	-	-
Kurmak	-	-	-	-	*	*	-	-
Asosa	*	*	-	-	-	-	-	-
Sherkole	-	-	-	-	*	*	-	-
Bambasi	-	-	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-	-
Komesha	-	-	*	*	*	*	-	-
Mao Komo	-	-	-	-	*	*	*	*
Kemeshi Zone	-	-	*	*	32	9	-	-
Yaso	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	*	*	-	-
Kamashi	-	-	*	*	15	*	-	-
Agalo Meti	-	-	*	*	-	-	-	-
Belo Jegonfoy	-	-	-	-	*	*	-	-

TABLE 6.65: CONTD.

Geographic Level	Other Grains		Tomatoes		Red Pepper		Onions	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Benshangul-Gumuz	*	*	-	-	136	2	*	*
Metekel Zone	*	*	-	-	76	*	*	*
Dangur	-	-	-	-	*	*	-	-
Guba	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	*	*	-	-
Pawe	*	*	-	-	*	*	-	-
Bulen	-	-	-	-	-	-	*	*
Asosa Zone	*	*	-	-	*	*	*	*
Menge	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-
Asosa	-	-	-	-	*	*	-	-
Sherkole	-	-	-	-	-	-	-	-
Bambasi	*	*	-	-	*	*	-	-
Oda Godere	-	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	*	*
Mao Komo	-	-	-	-	-	-	-	-
Kemeshi Zone	*	*	-	-	-	-	-	-
Yaso	*	*	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-

	Potatoes		Sweet potatoes		Enset		Other Permanent	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Benshangul-Gumuz	*	*	*	*	-	-	-	-
Metekel Zone	-	-	*	*	-	-	-	-
Dangur	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-
Pawe	-	-	*	*	-	-	-	-
Bulen	-	-	-	-	-	-	-	-
Asosa Zone	*	*	*	*	-	-	-	-
Menge	*	*	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-
Asosa	-	-	*	*	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-	-
Mao Komo	*	*	-	-	-	-	-	-
Kemeshi Zone	-	-	5	*	-	-	-	-
Yaso	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-
Kamashi	-	-	5	*	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-

ANNEX TABLES PRESENTING ESTIMATES, STANDARD ERRORS AND COEFFICIENTS OF VARIATION FOR SELECTED FARM MANAGEMENT PRACTICES VARIABLES

Annex Tables 6.1 – 6.2

TABLE 6.1: AREA UNDER FARM MANAGEMENT PRACTICES WITH THEIR STANDAD ERRORS AND COEFFICIENT OF VARIATION IN RURAL AREAS FOR MEHER SEASON

Type of crop	Improved Seed Applied			Irrigation			Feretilizer Applied			Pesticide Applied		
	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V
TOTAL	3265	240	7	726	193	27	22730	1105	5	1044	179	17
Grains Crops	3159	238	8	103	25	25	21342	1068	5	1035	179	17
Cereals	2856	230	8	96	24	25	17851	870	5	974	170	17
Teff	12	9	72	1	1	105	3281	434	13	207	76	37
Barley	-	-	93	-	-	-	360	77	21	-	-	-
Wheat	10	10	97	-	-	-	416	106	25	4	4	83
Maize	2530	220	9	62	18	29	8223	389	5	136	38	28
Sorghum	139	24	17	25	13	52	3790	346	9	124	35	28
Millet	142	44	31	8	6	77	1699	303	18	495	113	23
Oats	-	-	-	-	-	-	9	3	32	-	-	-
Rice	23	9	39	-	-	-	72	29	40	8	8	103
Pulse	185	43	23	3	2	53	1549	193	12	10	6	61
Horse beans	1	1	63	-	-	-	241	38	16	3	4	111
Field peas	-	-	90	-	-	-	256	60	24	-	-	-
Haricot beans	43	11	25	1	1	82	347	39	11	1	-	53
Chick peas	1	1	88	1	1	97	46	15	33	-	-	-
Lentiles	-	-	-	-	-	108	17	5	26	-	-	-
Vetch	-	-	-	-	-	-	2	1	48	-	-	-
Soya	140	41	29	-	1	107	630	165	26	7	5	79
Fenugreek	-	-	-	-	-	98	1	-	50	-	-	-
Gibto	-	-	-	-	-	-	11	6	56	-	-	-
Oile seed	116	33	28	3	2	44	1905	247	13	50	18	37
Nueg	7	5	73	-	-	87	849	222	26	33	17	52
Linseed	-	-	-	1	1	109	23	6	27	1	1	108
Ground nuts	15	9	59	-	-	98	44	9	21	10	5	51
Sunflower	13	8	62	-	-	-	4	2	53	-	-	-
Sesame	77	18	24	2	1	61	924	93	10	6	3	53
Rapeseed	3	2	67	-	-	108	62	14	22	-	1	114
Other Grain	1	1	96	1	-	65	37	6	16	-	-	-
Vegetables.	1	-	38	9	3	37	515	38	7	5	2	41
Lettuce	-	-	-	-	-	104	-	-	88	-	-	-
Cabbage	-	-	59	-	-	-	1	-	38	-	-	-
Kale	-	-	128	-	-	-	5	2	39	-	-	-
Tomatoes	-	-	-	1	1	72	2	1	43	-	-	-
Green pepper	-	-	75	1	-	55	13	2	19	-	-	-
Red paper	-	-	114	6	3	49	327	33	10	4	2	48
Swiss chard	-	-	115	-	-	-	-	-	115	-	-	-
Others	1	-	54	1	1	60	166	21	12	1	1	78
Root Crops	-	-	35	9	4	46	241	41	17	-	-	76
Beet root	-	-	58	-	-	-	-	-	32	-	-	-
Carrot	-	-	55	-	-	-	1	-	40	-	-	-
Onion	-	-	62	1	-	49	9	3	31	-	-	-
Potatoes	-	-	104	-	-	109	46	10	22	-	-	-
Garlic	-	-	56	2	1	68	12	3	22	-	-	-
Godere	-	-	-	-	-	81	5	1	32	-	-	-
Sweet potatoes	-	-	-	2	2	83	90	16	18	-	-	-
Others	-	-	98	4	4	88	79	30	38	-	-	76
Permanet crops	105	17	16	605	185	31	632	59	9	4	2	50
Fruit Crops	7	2	26	111	24	22	295	25	9	1	-	45
Avocado	1	1	71	2	2	96	3	2	87	-	-	-
Bannas	2	1	42	79	15	19	92	13	14	-	-	-
Guava(Zeytuna)	-	-	78	1	-	67	5	1	24	-	-	-
Lemons	-	-	84	5	3	61	8	2	30	-	-	119
Mangos	3	1	44	18	7	40	124	11	9	1	-	57
Oranges	-	-	110	3	1	48	9	1	17	-	-	79
Papayas	-	-	47	3	1	33	52	7	14	-	-	-
Pineapples	-	-	-	-	-	109	-	-	109	-	-	-
Others	-	-	83	-	-	73	2	1	38	-	-	-
Stimulant Crop	98	16	17	468	167	36	307	43	14	3	2	64
Chat	-	-	-	32	14	44	37	7	19	2	1	81
Coffee	98	16	17	424	164	39	239	39	16	1	1	70
Gesho	-	-	-	12	4	35	31	5	17	-	-	75
Others	-	-	-	-	-	-	-	-	94	-	-	-
Other Permanent	-	-	56	26	8	30	30	8	26	-	-	-
Enset	-	-	71	-	-	71	2	1	32	-	-	-
Sugar Cane	-	-	92	26	8	30	24	8	31	-	-	-
Others	-	-	-	-	-	109	3	1	38	-	-	-

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	252	37	15	43	9	21	626	112	18	195	60	31
Grains Crops	235	36	15	11	5	44	575	112	19	194	60	31
Cereals	223	35	16	11	5	44	485	76	16	183	60	33
Teff	5	3	66	-	-	-	44	11	25	10	8	76
Barley	-	-	-	-	-	-	1	-	-	-	-	-
Wheat	-	-	-	-	-	-	3	2	64	-	-	-
Maize	204	34	17	11	5	44	366	74	20	10	6	59
Sorghum	-	-	-	-	-	-	9	4	44	11	8	79
Millet	14	12	87	-	-	-	62	13	21	152	58	38
Oats	-	-	-	-	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	94	1	1	65	-	-	-
Pulse	12	5	39	-	-	94	85	44	52	-	-	86
Horse beans	-	-	-	-	-	-	-	-	90	-	-	-
Field peas	-	-	-	-	-	-	6	3	49	-	-	-
Haricot beans	-	-	-	-	-	94	2	2	85	-	-	-
Chick peas	3	2	67	-	-	-	3	2	67	-	-	86
Lentiles	-	-	-	-	-	-	-	-	-	-	-	-
Vetch	-	-	-	-	-	-	-	-	-	-	-	-
Soya	9	4	48	-	-	-	74	44	60	-	-	-
Fenugreek	-	-	-	-	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-	-	-	-	-
Oile seed	-	-	-	-	-	-	4	3	77	11	5	49
Nueg	-	-	-	-	-	-	4	3	86	11	5	49
Linseed	-	-	-	-	-	-	-	-	111	-	-	-
Ground nuts	-	-	-	-	-	-	-	-	-	-	-	-
Sunflower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-	-	-	-	-
Rapeseed.	-	-	-	-	-	-	-	-	-	-	-	-
Other Grain	-	-	-	-	-	-	-	-	-	-	-	-
Vegetables.	4	3	85	1	1	70	7	2	30	-	-	-
Lettuce	-	-	-	-	-	-	-	-	-	-	-	-
Cabbage	-	-	-	-	-	-	-	-	-	-	-	-
Kale	-	-	-	-	-	82	-	-	-	-	-	-
Tomatoes	-	-	-	1	1	75	-	-	-	-	-	-
Green pepper	-	-	-	-	-	-	-	-	-	-	-	-
Red paper	4	3	85	-	-	-	7	2	30	-	-	-
Swiss chard	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-
Root Crops	2	2	76	-	-	94	16	4	24	-	-	-
Beet root	-	-	-	-	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-	-	-	-	-
Onion	-	-	63	-	-	-	-	-	63	-	-	-
Potatoes	2	2	88	-	-	94	15	4	24	-	-	-
Garlic	-	-	-	-	-	-	1	-	41	-	-	-
Godere	-	-	-	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-
Permanet crops	12	5	41	31	8	25	28	9	31	1	1	72
Fruit Crops	1	-	34	8	2	20	9	3	38	1	1	74
Avocado	-	-	61	-	-	59	-	-	90	-	-	-
Bannas	-	-	94	5	1	26	1	1	36	1	-	76
Guava(Zeytuna)	-	-	90	-	-	63	-	-	84	-	-	-
Lemons	-	-	-	-	-	86	-	-	58	-	-	112
Mangos	-	-	45	2	1	27	3	1	39	-	-	78
Oranges	-	-	-	-	-	84	-	-	90	-	-	84
Papayas	-	-	80	1	-	46	1	-	52	-	-	-
Pineapples	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	107	-	-	84	3	2	76	-	-	-
Stimulant Crop	11	5	45	21	8	35	19	8	40	-	-	89
Chat	-	-	-	-	-	42	1	1	95	-	-	89
Coffee	11	5	45	21	8	36	18	7	41	-	-	-
Gesho.	-	-	-	-	-	86	-	-	38	-	-	-
Others	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	1	1	37	-	-	88	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Sugar Cane	-	-	-	1	1	37	-	-	88	-	-	-
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 cónsuming 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 beehives were made based on the information obtained from the holders within the sampled agricultural households both in rural and urban areas as to the reference date (February 8,2002) and reference period (February 9,2001 to February 8, 2002). Thus, the results obtained from the livestock census for the rural and urban areas of the region as well as brief discussions made on the results are presented in this chapter. Also the census results at zonal and wereda levels are presented 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

This 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 Benshangul-Gumuz Region was part of the national census and covered both rural and urban areas of the region on sample basis. Commercial farms that are found in the region were also covered on complete enumeration basis though the results are not presented here.

The total number of each type of livestock as well as the numbers disaggregated by breed, age, sex, and purpose possessed by holders on the reference date (February 8, 2002), irrespective of ownership, were recorded by interviewing each holder in the sampled agricultural households both in rural and urban areas of the region. The numbers also include the livestock belonging to the holding but temporarily away or in transit at the time of the enumeration.

2.1 Cattle

The estimates of cattle for rural and urban areas in Benshangul-Gumuz Region are presented in Summary Table VII.1. As shown on the table, the total cattle population for the region is estimated to be 309,627. Out of this total cattle population, the female cattle constitute about 56.2 percent (174,119) and the remaining 43.8 percent (135,508) are male cattle. The majority (92.6 percent) of the cattle population is found in rural areas, while small proportion is accounted for urban areas (7.4 percent).

Regarding age groups, the majority of the cattle population (that is about 58.4 percent) is in the 3 years and under 10 years age category, with about 24.3 percent male and about 34.1 percent female. Moreover, about 39.4 percent are under three years and small portion, which is 2.2 percent, is over 10 years (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 are local breeds.

The distribution of cattle by purpose is indicated in the same table. Among cattle aged three years and under ten years, those used for draught purposes accounted for 38.3 percent and the percentage share of beef cattle is the lowest that is about one percent.

SUMMARY TABLE VII.1: Estimated Number of Cattle by Sex, Age, Breed, and Purpose for Rural and Urban Holdings

Age, Breed, and Purpose	Cattle on Both Rural and Urban Holdings						Cattle on Rural Holdings						Cattle on Urban Holdings					
	Total		Male		Female		Total		Male		Female		Total		Male		Female	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Total	309,627	100.0	135,508	43.8	174,119	56.2	286,736	92.6	126,516	40.9	160,220	51.7	22,891	7.4	8,992	2.9	13,899	4.5
Under 6 months	32,585	10.5	15,512	5.0	17,073	5.5	29,857	9.6	14,278	4.6	15,579	5.0	2,728	0.9	1,234	0.4	1,494	0.5
6 months - under 1 year	31,664	10.2	15,300	4.9	16,364	5.3	28,966	9.4	13,903	4.5	15,063	4.9	2,698	0.9	1,397	0.5	1,301	0.4
1 year - under 3 years	57,743	18.6	27,173	8.8	30,570	9.9	53,060	17.1	24,798	8.0	28,262	9.1	4,683	1.5	2,375	0.8	2,308	0.7
3 years – under 10 years	180,811	58.4	75,211	24.3	105,600	34.1	168,259	54.3	71,299	23.0	96,960	31.3	12,552	4.1	3,912	1.3	8,640	2.8
10 years and older	6,824	2.2	2,312	0.7	4,512	1.5	6,594	2.1	2,238	0.7	4,356	1.4	230	0.1	74	0.0	156	0.1
Cattle by Breed																		
Total	309,627	100.0	135,508	43.8	174,119	56.2	286,736	92.6	126,516	40.9	160,220	51.7	22,891	7.4	8,992	2.9	13,899	4.5
Indigenous	309,576	100.0	135,485	43.8	174,091	56.2	286,692	92.6	126,497	40.9	160,195	51.7	22,884	7.4	8,988	2.9	13,896	4.5
Hybrid	5	0.0			5	0.0	*	*			*	*						
Exotic	46	0.0	22	0.0	24	0.0	*	*	*	*	*	*	8	0.0	4	0.0	4	0.0
Aged 3 – 10 Years by Purpose																		
Total	180,811	100.0	75,211	41.6	105,600	58.4	168,259	93.1	71,299	39.4	96,960	53.6	12,552	6.9	3,912	2.2	8,640	4.8
Used for Milk	66,031	36.5			66,031	36.5	60,550	33.5			60,550	33.5	5,481	3.0			5,481	3.0
Used for Draught	69,318	38.3	67,553	37.4	1,765	1.0	65,743	36.4	64,174	35.5	1,569	0.9	3,575	2.0	3,379	1.9	196	0.1
Used for Beef	1,897	1.0	1,289	0.7	608	0.3	1,823	1.0	1,243	0.7	580	0.3	74	0.0	46	0.0	28	0.0
Used for Breeding	39,477	21.8	4,676	2.6	34,801	19.2	36,411	20.1	4,305	2.4	32,106	17.8	3,066	1.7	371	0.2	2,695	1.5
Used for Other	4,087	2.3	1,693	0.9	2,394	1.3	3,731	2.1	1,577	0.9	2,154	1.2	356	0.2	116	0.1	240	0.1
Dairy Animals																		
Dairy Cows	66,031	100.0			66,031	100.0	60,550	91.7			60,550	91.7	5,481	8.3			5,481	8.3
Milking Cows	62,929	100.0			62,929	100.0	55,926	88.9			55,926	88.9	7,003	11.1			7,003	11.1

FIGURE VII.1 DISTRIBUTION OF CATTLE BY AGE AND SEX

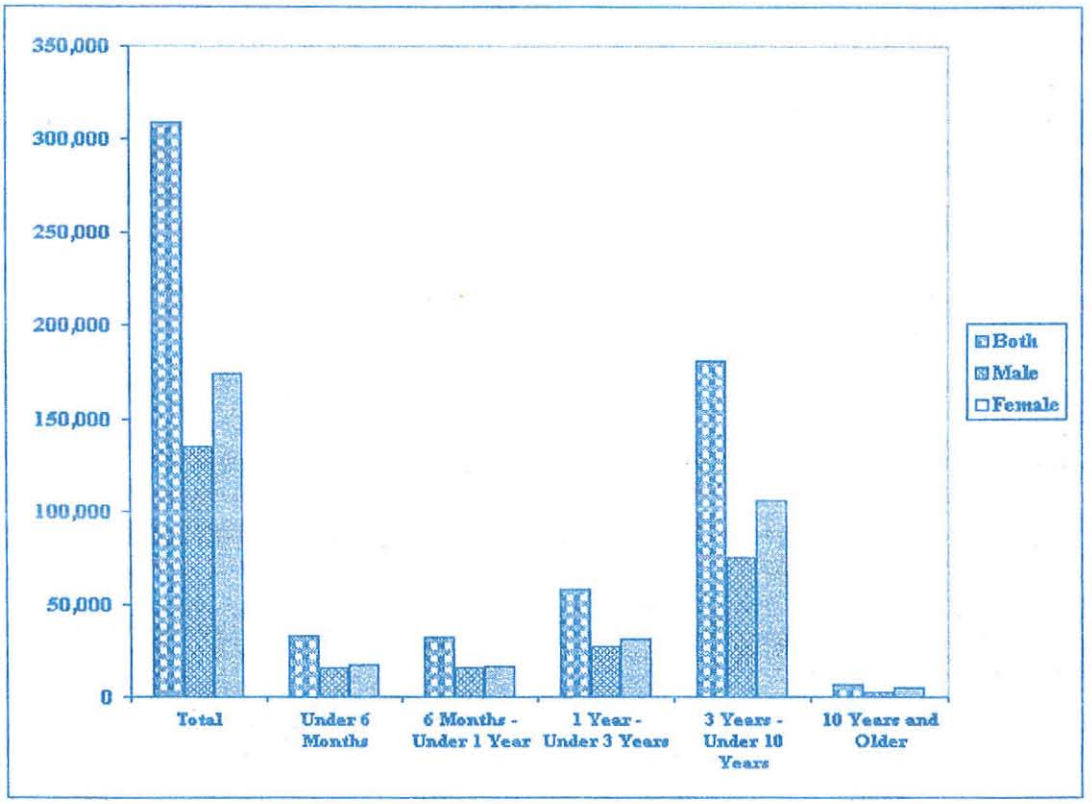
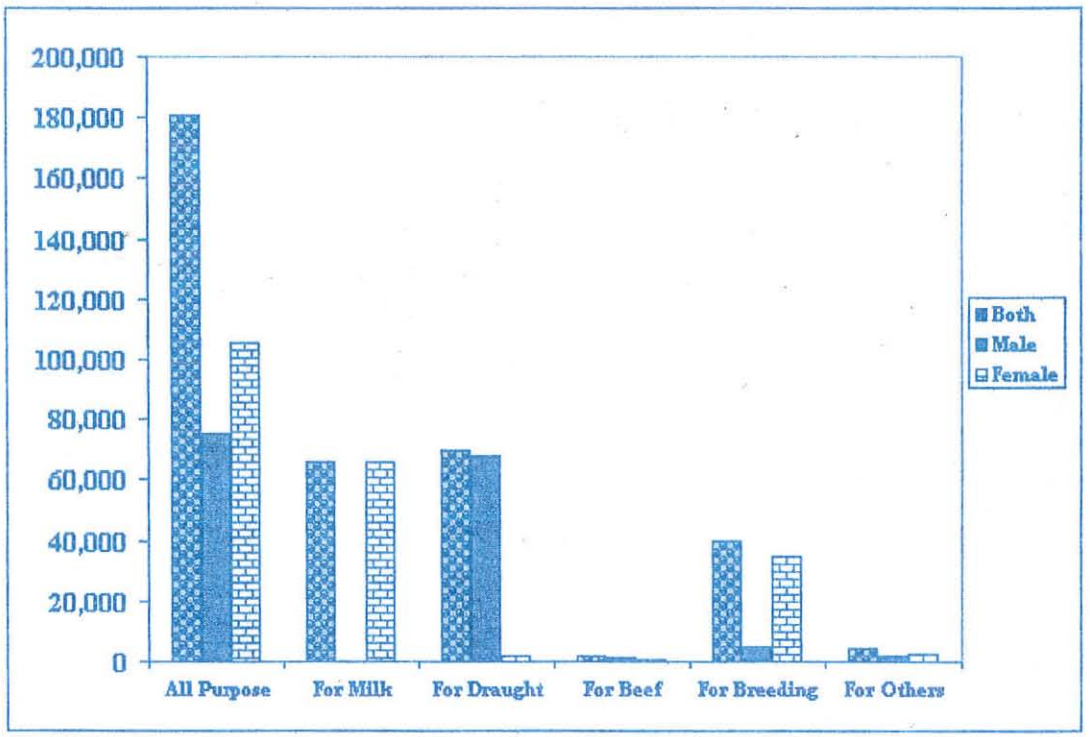


FIGURE VII.2 DISTRIBUTION OF CATTLE AGED 3 AND UNDER 10 YEARS BY PURPOSE AND SEX



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 66,031 and milking-cows[2] are about 62,929 (See Fig. VII.2).

As to zonal level cattle distribution, Metekel Zone contributes the largest share, that is 62.6 percent, and the remaining 26.5 percent and 10.9 percent are accounted for Asosa and Kemeshi Zones, respectively. 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 58,767 sheep are estimated to be found in the region, out of which about 71.2 percent are females, and about 28.8 percent are males. Moreover, according to the census result, large number of goats is reported in the region, and it is estimated to be about 200,470. Out of these total goats, 72.5 percent are females and 27.5 percent are males (See Fig. VII.3).

Among these totals reported in the region, 89.4 percent of the sheep and 98.4 percent of the goats are found in the rural areas. Urban areas accounted for only 10.6 percent and 1.6 percent of the sheep and goats, respectively.

Pertaining to the age distribution of both the sheep and the goats, the largest portions are in the age group of two years and older (44.1 percent and 42.7 percent, in that order), followed by the young stock under six months for both male sheep and male goats, that is 27.9 percent and 26.5 percent, respectively (See Figure VII.3).

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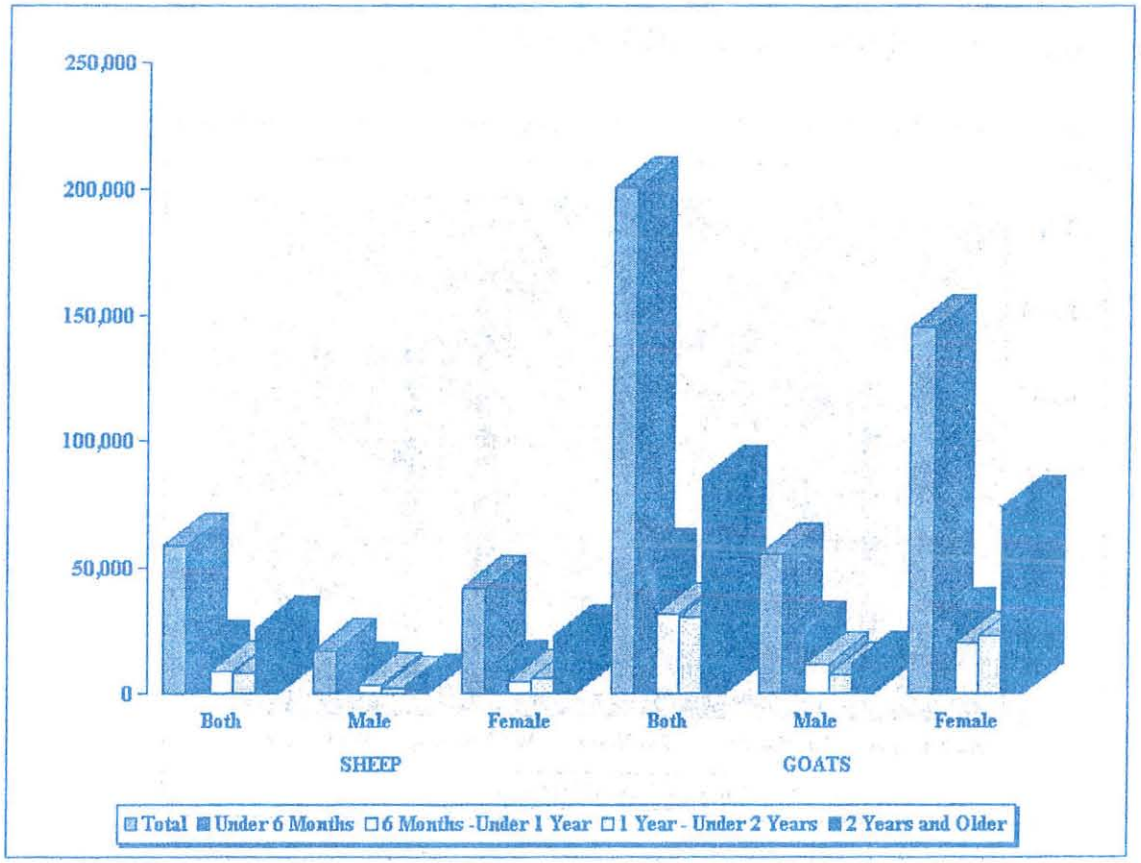
[1] A *Dairy Cow refers to a cow that primarily kept for milk and has milked previously or milking at the time of enumeration or has never been milked before but expected to be milked in the future or pregnant at the time of enumeration.*

[2] A *Milking Cow refers to any type of cow that actually milked during the reference period (Feb. 9, 2001 to Feb. 8, 2002).*

SUMMARY TABLE VII.2: Estimated Number of Sheep and Goats by Sex, Age, Breed, and Purpose for Rural and Urban Holdings

Age, Breed, and Purpose	Both Rural and Urban Holdings						Rural Holdings						Urban Holdings					
	Total		Male		Female		Total		Male		Female		Total		Male		Female	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Total Sheep	58,767	100.0	16,929	28.8	41,838	71.2	52,530	89.4	14,883	25.3	37,647	64.1	6,237	10.6	2,046	3.5	4,191	7.1
Under 6 months	16,421	27.9	7,938	13.5	8,483	14.4	14,681	25.0	6,945	11.8	7,736	13.2	1,740	3.0	993	1.7	747	1.3
6 months - under 1 year	8,448	14.4	3,617	6.2	4,831	8.2	7,268	12.4	3,012	5.1	4,256	7.2	1,180	2.0	605	1.0	575	1.0
1 year – under 2 years	8,006	13.6	2,247	3.8	5,759	9.8	7,467	12.7	2,026	3.4	5,441	9.3	539	0.9	221	0.4	318	0.5
2 years and older	25,892	44.1	3,127	5.3	22,765	38.7	23,114	39.3	2,900	4.9	20,214	34.4	2,778	4.7	227	0.4	2,551	4.3
Sheep by Breed																		
Total	58,768	100.0	16,929	28.8	41,838	71.2	52,531	89.4	14,883	25.3	37,647	64.1	6,237	10.6	2,046	3.5	4,191	7.1
Indigenous	56,322	95.8	16,470	28.0	39,852	67.8	50,085	85.2	14,424	24.5	35,661	60.7	6,237	10.6	2,046	3.5	4,191	7.1
Hybrid	2,430	4.1	451	0.8	1,979	3.4	2,430	4.1	451	0.8	1,979	3.4						
Exotic	*	*	*	*	*	*	*	*	*	*	*	*						
Sheep Aged 2 Years and Older by Purpose																		
Total	25,893	100.0	3,128	12.1	22,765	87.9	23,113	89.3	2,900	11.2	20,213	78.1	2,780	10.7	228	0.9	2,552	9.9
Used for Mutton	1,210	4.7	829	3.2	381	1.5	1,067	4.1	700	2.7	367	1.4	143	0.6	129	0.5	14	0.1
Used for Wool	*	*			*	*	*	*			*	*						
Used for Breeding	24,280	93.8	2,102	8.1	22,178	85.7	21,702	83.8	2,025	7.8	19,677	76.0	2,578	10.0	77	0.3	2,501	9.7
Used for Other	373	1.4	197	0.8	176	0.7	314	1.2	175	0.7	139	0.5	59	0.2	22	0.1	37	0.1
Total Goats	200,470	100.0	55,054	27.5	145,416	72.5	197,178	98.4	53,928	26.9	143,250	71.5	3,292	1.6	1,126	0.6	2,166	1.1
Under 6 months	53,053	26.5	24,046	12.0	29,007	14.5	52,058	26.0	23,483	11.7	28,575	14.3	995	0.5	563	0.3	432	0.2
6 months - under 1 year	31,554	15.7	11,515	5.7	20,039	10.0	31,143	15.5	11,322	5.6	19,821	9.9	411	0.2	193	0.1	218	0.1
1 year – under 2 years	30,216	15.1	7,678	3.8	22,538	11.2	29,960	14.9	7,604	3.8	22,356	11.2	256	0.1	74	0.0	182	0.1
2 years and older	85,647	42.7	11,815	5.9	73,832	36.8	84,017	41.9	11,519	5.7	72,498	36.2	1,630	0.8	296	0.1	1,334	0.7
Goats by Breed																		
Total	200,470	100.0	55,054	27.5	145,416	72.5	197,178	98.4	53,928	26.9	143,250	71.5	3,292	1.6	1,126	0.6	2,166	1.1
Indigenous	200,293	99.9	55,014	27.4	145,279	72.5	197,000	98.3	53,888	26.9	143,112	71.4	3,293	1.6	1,126	0.6	2,167	1.1
Hybrid	*	*	*	*	*	*	*	*	*	*	*	*						
Exotic	126	0.1	23	0.0	103	0.1	126	0.1	23	0.0	103	0.1						
Goats Aged 2 Years and Older by Purpose																		
Total	85,646	100.0	11,813	13.8	73,833	86.2	84,017	98.1	11,518	13.4	72,499	84.6	1,629	1.9	295	0.3	1,334	1.6
Used for Milk	509	0.6			509	0.6	501	0.6			501	0.6	8	0.0			8	0.0
Used for Meat	4,204	4.9	3,128	3.7	1,076	1.3	4,023	4.7	2,947	3.4	1,076	1.3	181	0.2	181	0.2		
Used for Breeding	79,854	93.2	8,355	9.8	71,499	83.5	78,435	91.6	8,245	9.6	70,190	82.0	1,419	1.7	110	0.1	1,309	1.5
Used for Other	1,079	1.3	330	0.4	749	0.9	1,058	1.2	326	0.4	732	0.9	21	0.0	4	0.0	17	0.0

FIGURE VII.3 DISTRIBUTION OF SHEEP AND GOATS BY AGE AND SEX



With respect to breed, the overwhelming majorities of both the sheep and the goats are indigenous (95.8 percent and 99.9 percent in that order). Hybrid sheep are estimated to be 2,430 (that is about 4.1 percent) while the hybrid goats are insignificant. The exotic sheep are also insignificant whereas the exotic goats reported are very small in number.

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 mutton and meat are significantly higher for males. Moreover, the data reveals that female sheep and female goats are primarily kept for breeding purposes. Among the sheep flock two years and older, 24,280 (93.8 percent) are kept for breeding; about five percent for mutton and an insignificant number of sheep were kept for wool production. Likewise, amid the goat population aged two years and older, goats kept

for breeding account for about 93.2 percent (79,854) while goats kept for meat account for about five percent only (See Figures VII.4 and VII.5).

FIGURE VII.4 DISTRIBUTION OF SHEEP AGED TWO YEARS AND OLDER BY SEX AND PURPOSE

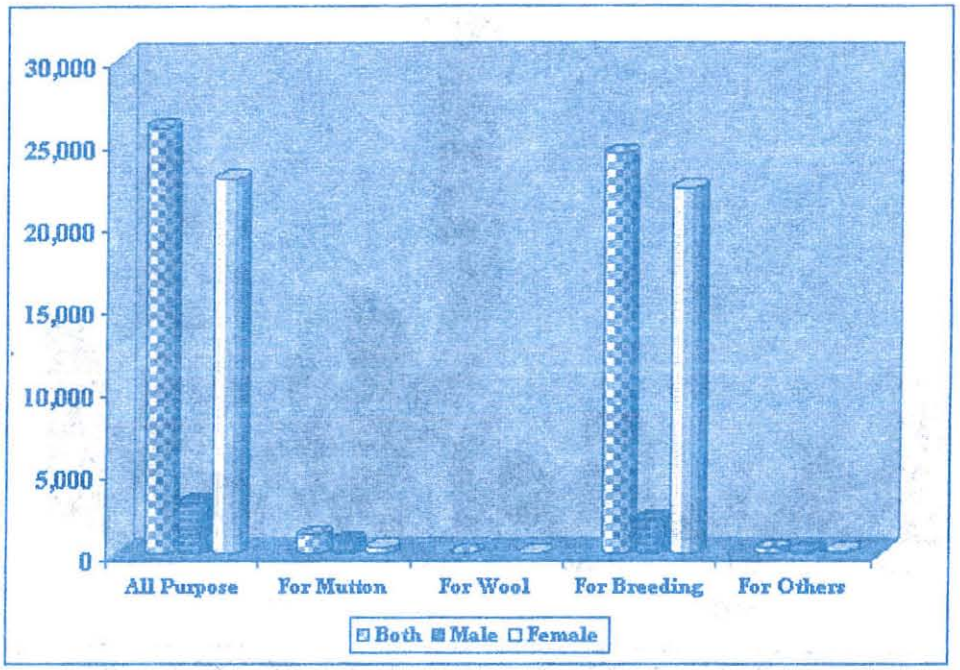
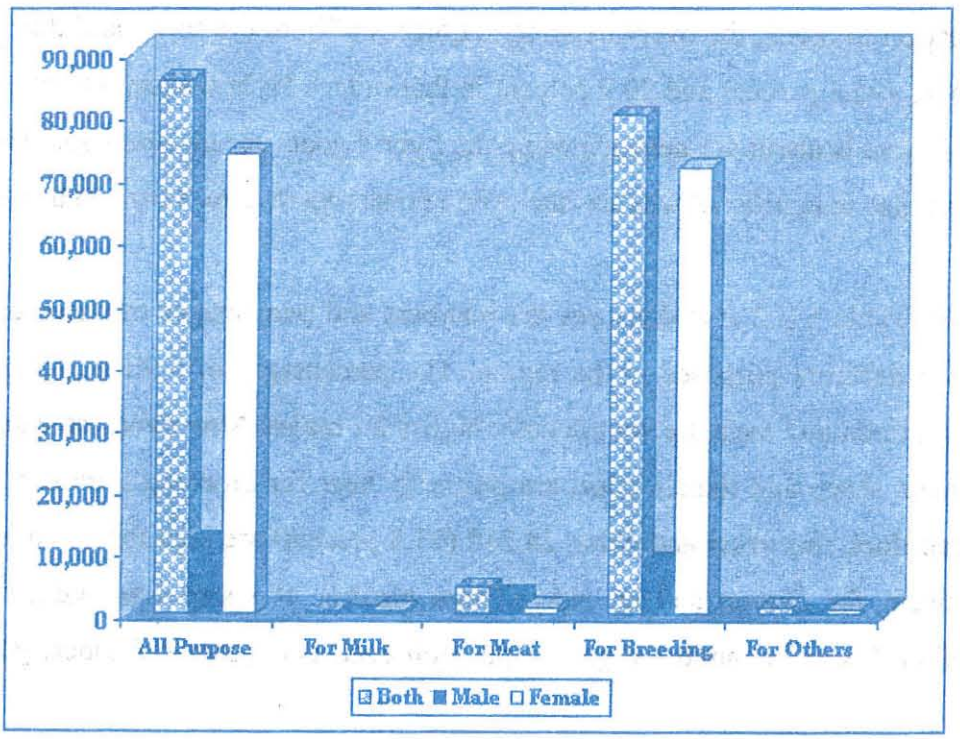


FIGURE VII.4 DISTRIBUTION OF GOATS AGED TWO YEARS AND OLDER BY SEX AND PURPOSE



The numbers and percentage distributions of sheep and goats by age group at zonal and wereda levels are given in the Statistical Tables. Accordingly, of the total sheep, 62.4 percent, 20.2 percent, and 17.4 percent are found in Metekel, Kemeshi, and Asosa Zones, respectively. Regarding goat population, Metekel Zone is the greater contributor to the 2002 goat population of the region that is 44.5 percent, which is followed by Asosa Zone (36.5 percent). The remaining 19.0 percent is reported by Kemeshi Zone.

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 560 horses, 30,952 asses, 1,395 mules, and only 15 camels in Benshangul-Gumuz Region. The table as well shows that high proportions of horses, asses, and mules are found in the rural areas. All the 15 camels reported are found in the urban areas, i.e. no camel is reported in rural areas.

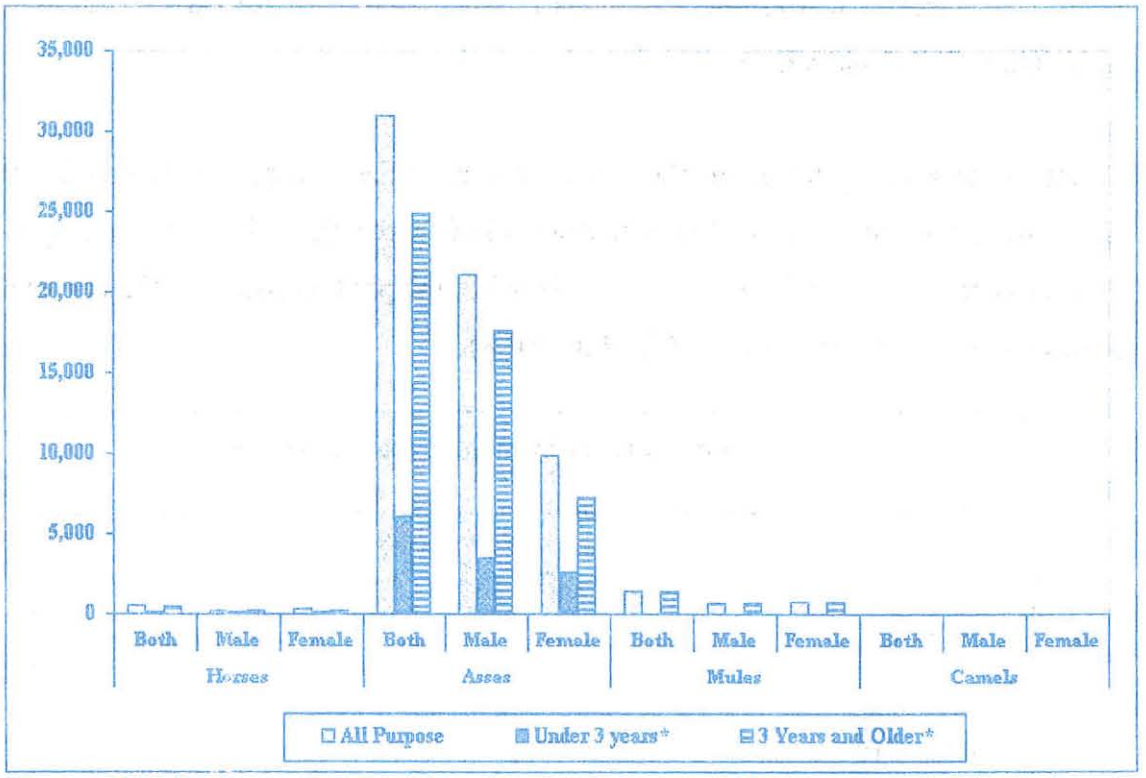
As indicated in the same table, asses are the overwhelming majority in the region compared with the other draught animals. Out of the total ass population in the region, almost two-thirds are males and the remaining are females. With respect to age distribution, the majorities of the horses, asses and mules are of the age group 3 years and older.

The estimates of these animals (aged 3 years and older) by sex and purpose are also given in Summary Table VII.3. As indicated in the table, among the horses aged three years and older, 274 (62.1 percent) were used for transportation, 19 (4.3percent) were used for draught purposes, and the remaining 148 (33.6 percent) were used for other purposes. With regard to asses, about 72.2 percent were used for transportation whereas 22.8 percent of them were used for draught purposes and only 4.9 percent of them were used for other purposes. As to the mules, 97.0 percent of them were used for

SUMMARY TABLE VII.3: Estimated Number of Horses, Asses, Mules, and Camels by Sex, Age, and Purpose for Rural and Urban Holdings

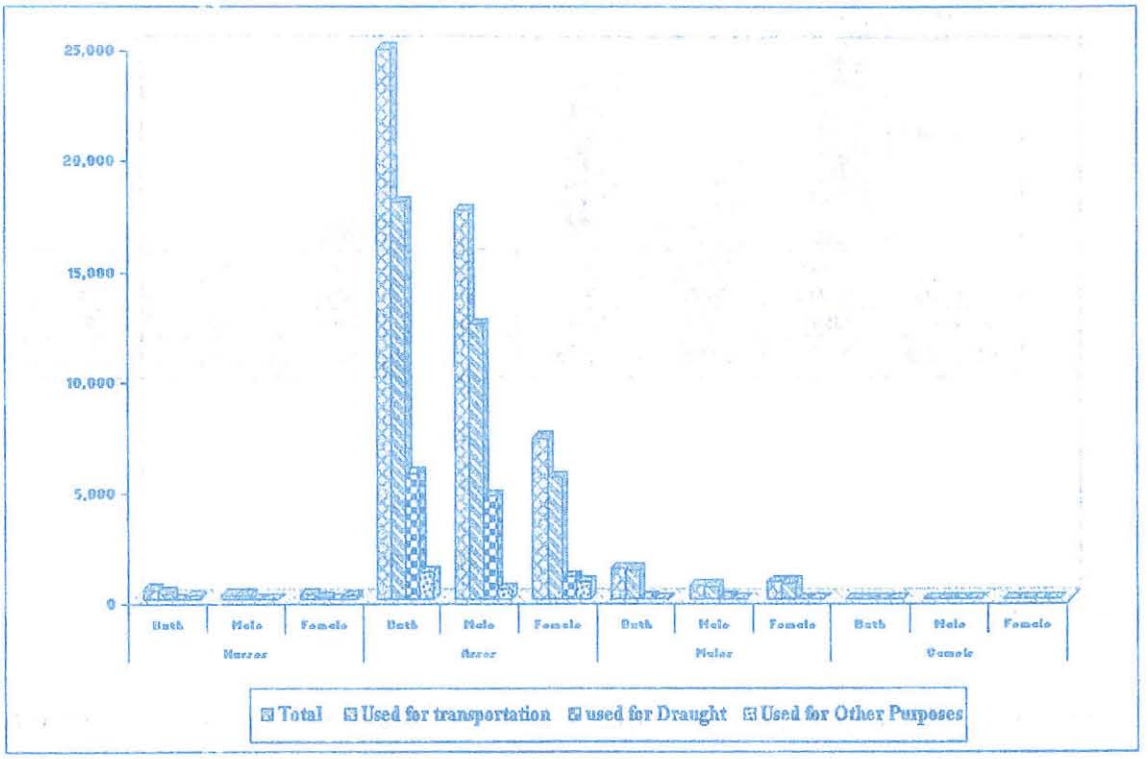
Age, Breed, and Purpose	Both Rural and Urban Holdings						Rural Holdings						Urban Holdings					
	Total		Male		Female		Total		Male		Female		Total		Male		Female	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Total Horses	560	100.0	249	44.5	311	55.5	492	87.9	207	37.0	285	50.9	68	12.1	42	7.5	26	4.6
Under 3 Years	119	21.3	63	11.3	56	10.0	*	*	*	*	*	*	8	1.4	4	0.7	4	0.7
3 years and older	441	78.8	186	33.2	255	45.5	381	68.0	148	26.4	233	41.6	60	10.7	38	6.8	22	3.9
Horses Aged 3 Years and Older by Purpose																		
All Uses	441	100.0	186	42.2	255	57.8	381	86.4	148	33.6	233	52.8	60	13.6	38	8.6	22	5.0
Transportation	274	62.1	182	41.3	92	20.9	225	51.0	148	33.6	77	17.5	49	11.1	34	7.7	15	3.4
Draught	19	4.3	4	0.9	15	3.4	15	3.4			15	3.4	4	0.9	4	0.9		
Other Uses	148	33.6			148	33.6	141	32.0			141	32.0	7	1.6			7	1.6
Total Asses	30,952	100.0	21,085	68.1	9,867	31.9	30,234	97.7	20,524	66.3	9,710	31.4	718	2.3	561	1.8	157	0.5
Under 3 Years	6,075	19.6	3,509	11.3	2,566	8.3	5,979	19.3	3,455	11.2	2,524	8.2	96	0.3	54	0.2	42	0.1
3 years and older	24,877	80.4	17,576	56.8	7,301	23.6	24,255	78.4	17,069	55.1	7,186	23.2	622	2.0	507	1.6	115	0.4
Asses Aged 3 Years and Older by Purpose																		
All Uses	24,877	100.0	17,577	70.7	7,300	29.3	24,255	97.5	17,070	68.6	7,185	28.9	622	2.5	507	2.0	115	0.5
Transportation	17,964	72.2	12,455	50.1	5,509	22.1	17,487	70.3	12,061	48.5	5,426	21.8	477	1.9	394	1.6	83	0.3
Draught	5,683	22.8	4,670	18.8	1,013	4.1	5,589	22.5	4,595	18.5	994	4.0	94	0.4	75	0.3	19	0.1
Other Uses	1,230	4.9	452	1.8	778	3.1	1,179	4.7	414	1.7	765	3.1	51	0.2	38	0.2	13	0.1
Total Mules	1,395	100.0	627	44.9	768	55.1	1,344	96.3	596	42.7	748	53.6	51	3.7	31	2.2	20	1.4
Under 3 Years	25	1.8	14	1.0	11	0.8	*	*	*	*	*	*	4	0.3	4	0.3		
3 years and older	1,370	98.2	613	43.9	757	54.3	1,323	94.8	586	42.0	737	52.8	47	3.4	27	1.9	20	1.4
Mules Aged 3 Years and Older by Purpose																		
All Uses	1,371	100.0	614	44.8	757	55.2	1,324	96.6	587	42.8	737	53.8	47	3.4	27	2.0	20	1.5
Transportation	1,330	97.0	584	42.6	746	54.4	1,283	93.6	557	40.6	726	53.0	47	3.4	27	2.0	20	1.5
Draught	41	3.0	30	2.2	11	0.8	41	3.0	30	2.2	*	*						
Other Uses																		
Total Camels	15	100.0	15	100.0									15	100.0	15	100.0		
Under 4 Years																		
4 years and older	15	100.0	15	100.0									15	100.0	15	100.0		
Camels Aged 4 Years and Older by Purpose																		
All Uses	15	100.0	15	100.0									15	100.0	15	100.0		
Transportation	15	100.0	15	100.0									15	100.0	15	100.0		
Draught																		
Other Uses																		

FIGURE VII.6 DISTRIBITION OF HORSES, ASSES, MULES AND CAMELS BY AGE AND SEX



* Note that for camels the age Categories are under 4 years and 4 years & older

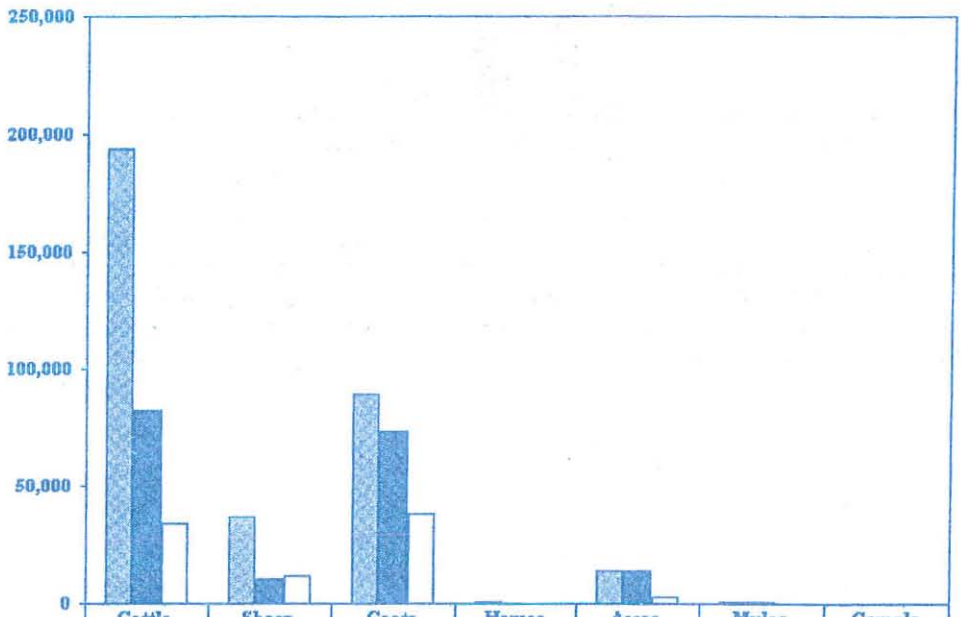
FIGURE VII.7 DISTRIBITION OF HORSES, ASSES, MULES AND CAMELS BY PURPOSE AND SEX



transportation, and the others (3.0 percent) were used for draught purposes. The census result also indicates that all the 15 camels reported were used for transportation (See also Figures VII.6 and VII.7)

Pertaining to zonal distribution, about 45.5 percent of the total ass population is found in Asosa Zone followed by Metekel Zone (45.0 percent), and the remaining 9.49 percent is accounted for Kemeshi Zone. Likewise, the predominance of the horses and mules are found in Metekel Zone (See Fig. VII.8).

FIGURE VII.8 DISTRIBUTION OF LIVESTOCK BY ZONE



	Cattle	Sheep	Goats	Horses	Asses	Mules	Camels
Metekel	193914	36695	89119	531	13926	660	15
Asosa	81939	10231	73181	29	14089	499	0
Kemeshi	33775	11844	38172	0	2937	235	0

2.4 **Poultry**

Data on poultry population are collected as part of the livestock census, and the total poultry population in Benshangul-Gumuz Region is estimated to be about 961,196. In this report, poultry includes cocks, cockerels, pullets, laying hens, non-laying hens and

chicks. Consequently, as shown in Summary Table VII.4 and Figure VII.9, most of the poultry are chicks (469,573), followed by laying hens (195,082). Pullets are estimated to be 120,180 in the region. Cockerels and cocks are also estimated separately, and are 77,869 and 70,591, respectively. The least in the poultry population compared to the others are non-laying hens (27,901). Rural areas constitute 94.2 percent of the total poultry, which is significant. Urban areas also comprised of 5.8 percent.

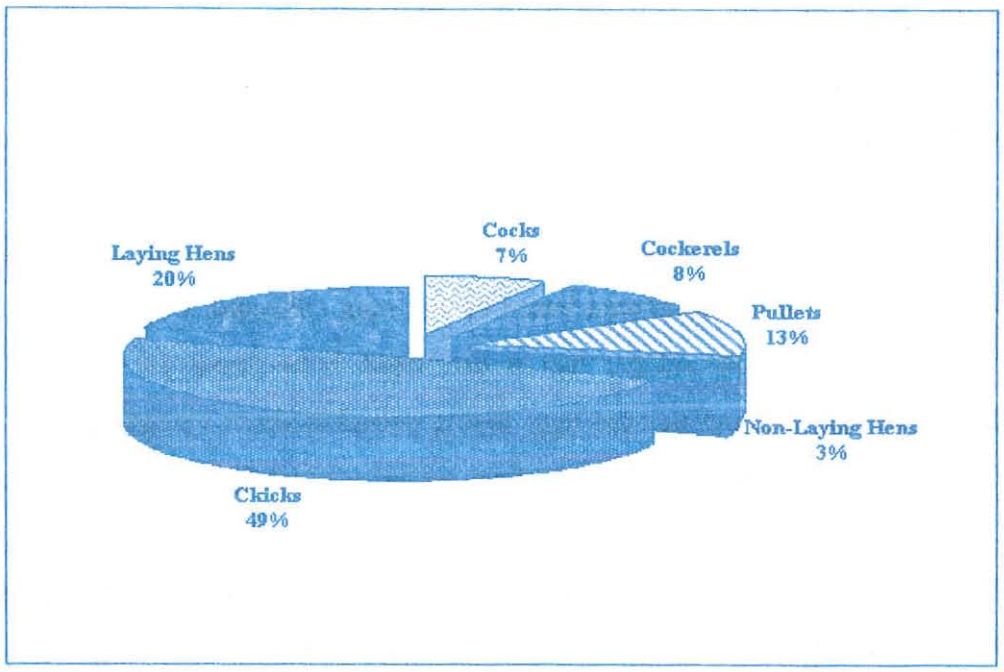
Moreover, average egg-laying period per hen and average number of eggs laid per hen during this period are estimated based on the data collected. Consequently, the single average egg-laying period per hen is estimated to be about 18 days while average number of eggs laid per hen per egg- laying period is about 12 eggs in the region. Egg laying period and number of eggs laid per period are higher in urban than in rural areas.

Pertaining to zonal distribution, 43.2 percent, 41.9 percent, and 14.9 percent of the total poultry population are found in Metekel, Asosa, and Kemeshi Zones, respectively (See Table 7-1-a).

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	961,196	100.0	905,259	94.2	55,937	5.8
Cocks	70,591	7.3	66,931	7.0	3,660	0.4
Cockerels	77,869	8.1	73,732	7.7	4,137	0.4
Pullets	120,180	12.5	113,306	11.8	6,874	0.7
Non-Laying Hens	27,901	2.9	27,015	2.8	886	0.1
Chicks	469,573	48.9	442,767	46.1	26,806	2.8
Laying Hens	195,082	20.3	181,508	18.9	13,574	1.4
Average Number Days/Clutch	18		16		19	
Average Eggs/Hen/Clutch	12		11		12	

FIGURE VII.9 DISTRIBUTION OF POULTRY BY TYPE



2.5 **Beehives**

Information on beehives was also collected during the livestock census. 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).

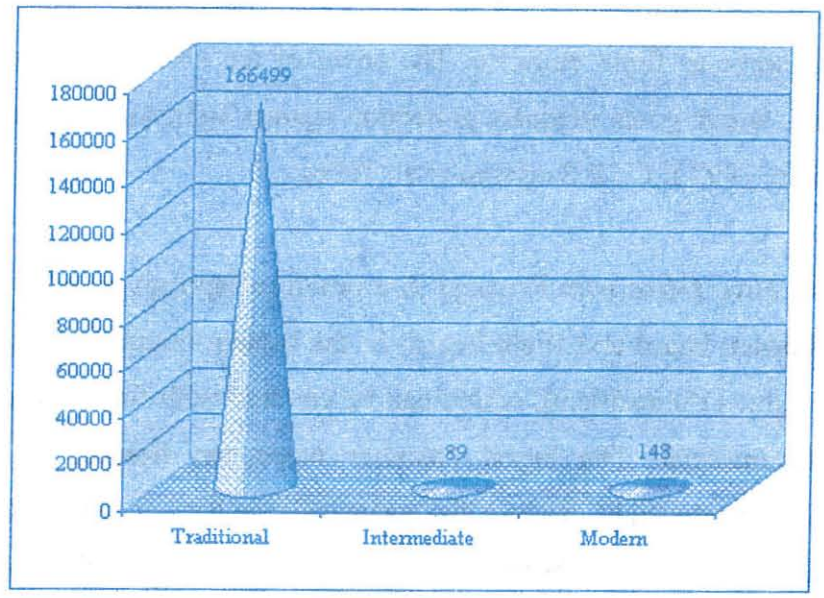
Modern Hive [Hive with Frames] is a brood (offspring) chamber (box) with a fixed bottom board and flight board. In the bottom board there is a ventilation hole of size (15cmx30cm), which can be covered with fine wire mesh or other suitable material. The brood chamber holds ten frames, which are kept 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 166,736 hives is estimated to be found in rural and urban areas of Benshangul-Gumuz Region. From this total hives, 166,499 (99.86 percent) are traditional hives, 148 are modern hives, and the remaining 89 are intermediate hives.

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	166,736	100.0	165,116	99.0	1,620	1.0
Traditional Beehives	166,499	99.9	164,879	98.9	1,620	1.0
Intermediate Beehives	*	*	*	*		
Modern Beehives	*	*	*	*		

FIGURE VII.10 DISTRIBUTION OF BEEHIVES BY TYPE



As indicated in Summary Table VII.5 and Figure VII.10, very significant portion of the beehives are reported in rural areas (99.0 percent). Although very little, urban areas as well contributed to the beehives population of the region.

With regard to zonal distribution of hives, Metekel Zone has the largest share (43.5 percent), followed by Asosa Zone (35.8 percent) and Kemeshi Zone (20.7 percent).

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 Benshangul-Gumuz Region during the reference period, is about 20.2 million liters of which 18.2 million liters (90.2 percent) is attributed to rural areas. A total of about 2.0 million liters of milk was as well estimated for urban areas.

Data on lactation period and average milk yield per cow per day were also collected. As a result, the average lactation period per cow in the region is estimated to be about seven months, and average milk yield per cow per day is about 1.626 liters.

3.2 **Honey Production**

To estimate honey production, number of hives, 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 742,051 kilograms of which the greater portion (99.7 percent) is harvested from traditional hives (See Summary Table VII.6). According to the results, rural areas are the major purveyor of honey production in the region.

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 of the total annual milk production, 54.98 percent was used for household consumption, 5.71 percent was sold, 0.67 percent was used for payment of wages, which is 38.67 percent was used for other purposes. With respect to the utilization of butter, morethan half of the produce was used for household consumption although considerable portion was sold. Most of the total cheese produced was used for household consumption that is about 93.90 percent, and five percent was used for other purposes.

Of the total honey production, about 59.71 percent was sold, about 33.89 percent was used for household consumption, and almost no honey was used as a payment (wage) in the region. Similarly, most of the wax produced in urban areas (48.51 percent) was used for household consumption. However, significant portion of the wax produced in the rural areas (50 percent) was used for sale.

Concerning utilization of egg production, 33.61 percent of the total egg production was used for household consumption while only 10.81 percent of the total egg production was used for sale. Morethan half of the egg production in the region (55.56 percent) 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.

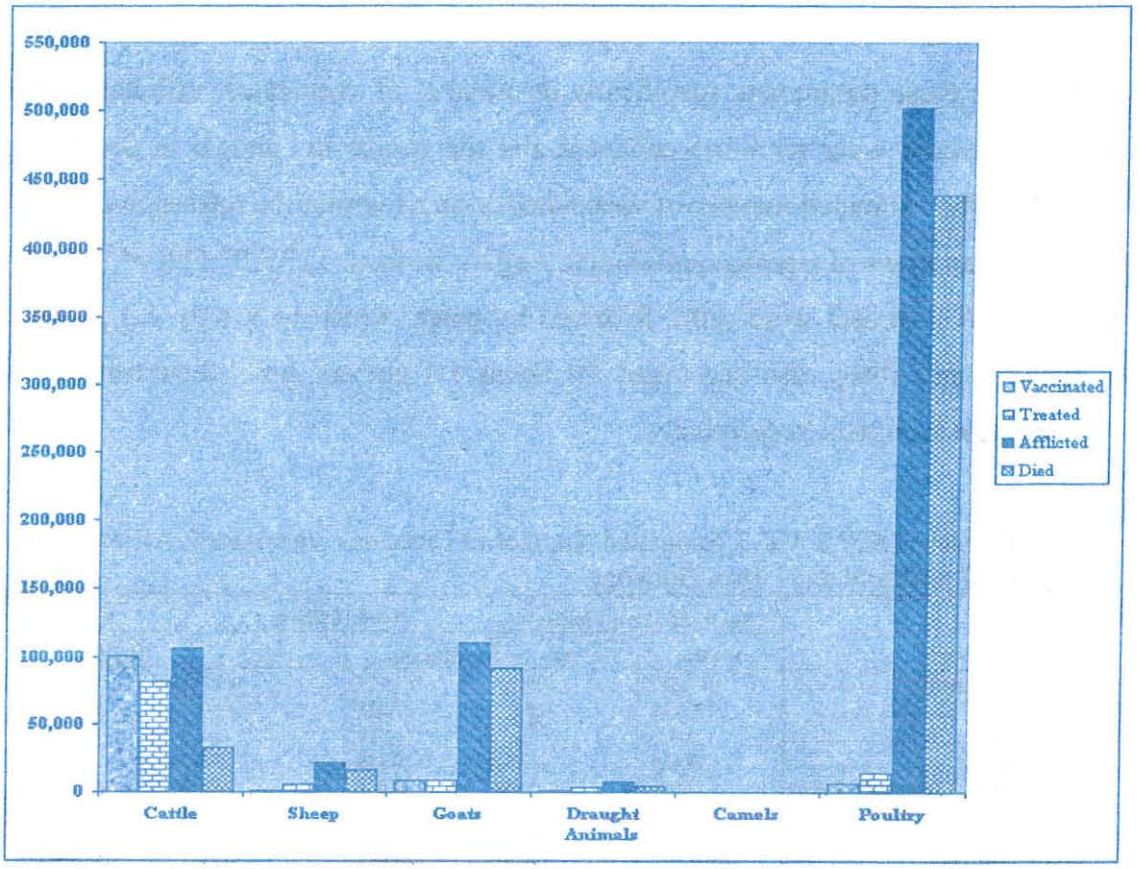
Data on these parameters specifically on number of vaccinated, afflicted, treated and dead animals were therefore collected and the results are shown in Summary Table VII.8. The estimated number of vaccinated animals within the reference period in rural and urban areas of Benshangul-Gumuz Region is about 117,820. Out of these animals, about 85.1 percent were cattle followed by goats, which took only 7.3 percent share. Poultry and sheep also accounted for about 5.4 percent and 1.3 percent of the total vaccinated animals, respectively.

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	117,820	100.0	103,337	87.7	14,483	12.3
Cattle	100,266	85.1	87,228	74.0	13,038	11.1
Sheep	1,476	1.3	1,342	1.1	134	0.1
Goats	8,634	7.3	8,376	7.1	258	0.2
Horses, Asses, and Mules	1,026	0.9	1,018	0.9	8	0.0
Camels	4	0.0			4	0.0
Poultry	6,414	5.4	5,373	4.6	1,041	0.9
Total Afflicted	748,360	100.0	703,633	94.0	44,727	6.0
Cattle	105,653	14.1	96,743	12.9	8,910	1.2
Sheep	22,168	3.0	20,343	2.7	1,825	0.2
Goats	110,515	14.8	109,466	14.6	1,049	0.1
Horses, Asses, and Mules	8,112	1.1	7,960	1.1	152	0.0
Camels	38	0.0	*	*	11	0.0
Poultry	501,874	67.1	469,094	62.7	32,780	4.4
Total Treated	112,116	100.0	99,517	88.8	12,599	11.2
Cattle	80,905	72.2	72,859	65.0	8,046	7.2
Sheep	5,233	4.7	4,086	3.6	1,147	1.0
Goats	8,850	7.9	8,491	7.6	359	0.3
Horses, Asses, and Mules	3,245	2.9	3,120	2.8	125	0.1
Camels	11	0.0			11	0.0
Poultry	13,872	12.4	10,961	9.8	2,911	2.6
Total Died	582,566	100.0	548,969	94.2	33,597	5.8
Cattle	32,672	5.6	28,971	5.0	3,701	0.6
Sheep	16,031	2.8	15,097	2.6	934	0.2
Goats	91,331	15.7	90,479	15.5	852	0.1
Horses, Asses, and Mules	4,467	0.8	4,382	0.8	85	0.0
Camels	31	0.0	*	*	4	0.0
Poultry	438,034	75.2	410,013	70.4	28,021	4.8

In the same table, it is indicated that about 748,360 animals were diseased/afflicted by different types of diseases during the reference period and only 112,116 of them were treated. The cattle constituted about 72.2 percent of the total treated animals and substantial number of poultry was treated as well (13,872 heads).

FIGURE VII.11 DISTRIBUTION OF ANIMALS VACCINATED, AFFLICTED, TREATED AND DIED



According to the census data, greater number of animals died during the reference period in the region due to diseases of which 75.2 percent is poultry. In addition, the estimated numbers of dead goats and dead cattle in the region are about 91,331 and 32,672, respectively. The number of sheep estimated dead is also considerable that is about 16,031 heads (See Summary Table VII.8).

If we take a look at the zonal results to see the distributions among the zones, more than half of the total vaccinated-animals are reported in Metekel zone. The rest 36.8 percent and 8.4 percent are found in Asosa and Kemeshi Zones, respectively.

Regarding diseased animals, the majorities are accounted for Asosa followed by Metekel Zone. Similar distribution patterns are also observed for treated and dead animals.

6 ANIMAL FEED

Data on animal feed practices of holders in both the rural and urban areas of the region were gathered to assess feed utilization experience. For the purpose of this report, animal feeds are classified as green fodder (grazing), crop residue, improved feed, hay, industrial byproducts, and other feeds. *Green fodder* is simply pasture grasses; *crop residue* includes harvested byproducts (straw and chaff of cereals and pulses, etc.); *improved feed* is like alfalfa; *hay* includes any type of grass, clover etc. 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 69.03 percent) followed by other type of feeds. Although very little, crop residue and byproducts were used as animal feed in the region (3.60 and 2.45 percent, respectively). Moreover, as shown in Summary Table VII.9 and Figure VII.12, very small amount of hay (only 1.28 percent) was used as animal feed and almost no improved feed (only 0.05 percent) was used in the region.

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		100.0		100.0		100.0
Green Fodder/Grazing....	93,378	69.03	88,281	81.28	5,097	56.77
Crops Residue	28,050	3.60	27,100	4.96	950	2.24
Improved Feed	482	0.05	472	0.06	*	0.03
Hay.....	6,626	1.28	6,082	1.13	544	1.42
Byproducts	10,925	2.45	9,324	1.61	1,601	3.28
Others.....	30,305	23.57	24,351	10.88	5,954	36.27

STATISTICAL TABLES PRESENTING RESULTS AT ZONE AND WEREDA LEVELS

TABLES 7.1 – 7.36

TABLE 7-1: NUMBER OF LIVESTOCK BY TYPE OF ANIMAL, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	ALL LIVESTOCK								
	CATTLE	SHEEP	GOATS	HORSES	ASSES	MULES	CAMELS	POULTRY	BEEHIVES
Benshangul-Gumuz Region	309,627	58,770	200,472	559	30,952	1,394	15	961,196	166,736
Metekel Zone	193,914	36,695	89,119	530	13,926	660	15	415,005	72,491
Dangur	11,540	3,928	12,183	-	2,020	*	-	57,210	20,125
Guba	8,464	4,199	17,504	-	1,375	74	15	30,040	297
Wenbera	43,194	9,054	14,787	530	4,655	333	-	67,739	16,636
Mandura	11,008	3,548	11,695	-	1,106	45	-	39,907	6,872
Dibate	57,395	6,045	15,147	-	2,385	114	-	79,007	14,039
Pawe	31,801	5,794	3,312	-	500	*	-	58,270	1,459
Bulen	30,511	4,127	14,491	-	1,884	*	-	60,612	13,063
Asosa Zone	81,939	10,231	73,181	*	14,089	499	-	403,153	59,695
Menge	1,486	1,791	19,410	-	3,970	117	-	54,328	419
Kurmak	*	2	3,238	-	360	-	-	25,357	154
Asosa	33,314	3,699	13,140	-	2,601	133	-	130,031	31,834
Sherkole	260	579	9,923	-	1,710	-	-	39,346	-
Bambasi	27,618	1,774	7,214	-	2,327	92	-	67,282	14,151
Oda Godere	8,346	956	11,684	-	1,253	*	-	44,157	4,817
Komesha	459	59	5,087	-	873	*	-	19,155	3,003
Mao Komo Special	10,422	1,371	3,485	*	993	80	-	23,498	5,317
Kemeshi Zone	33,775	11,844	38,172	-	2,937	235	-	143,037	34,549
Yaso	9,871	2,680	7,131	-	576	40	-	22,141	6,838
Sirba Abay	4,500	1,730	11,310	-	517	62	-	26,086	7,291
Kamashi	4,874	2,298	5,982	-	672	59	-	26,112	422
Agalo Meti	4,407	1,584	11,981	-	585	*	-	21,904	11737
Belo Jegonfoy	10,123	3,551	1,767	-	587	*	-	46,793	8,261

b) Rural Holdings

Geographic Area	ALL LIVESTOCK								
	CATTLE	SHEEP	GOATS	HORSES	ASSES	MULES	CAMELS	POULTRY	BEEHIVES
Benshangul-Gumuz Region	286,735	52,532	197,179	491	30,234	1,344	-	905,258	165,116
Metekel Zone	175,804	30,883	86,587	463	13,487	620	-	379,349	71,584
Dangur	11,018	3,818	12,118	-	1,958	74	-	55,326	20,108
Guba	7,766	4,180	17,009	-	1,292	74	-	28,513	297
Wenbera	40,791	8,041	14,509	463	4,454	299	-	65,644	16,556
Mandura	10,031	3,343	11,598	-	1,106	45	-	38,430	6,782
Dibate	55,914	5,831	14,929	-	2,334	112	-	76,132	13,962
Pawe	23,069	2,165	2,151	-	490	-	-	58,270	1,032
Bulen	27,215	3,506	14,273	-	1,851	*	-	57,034	12,847
Asosa Zone	77,157	9,805	72,420	*	13,810	489	-	382,872	58,983
Menge	1,463	1,754	19,340	-	3,954	117	-	54,043	*
Kurmak	*	-	3,197	-	358	-	-	25,149	*
Asosa	31,633	3,378	12,693	-	2,510	130	-	115,225	31,397
Sherkole	260	579	9,923	-	1,710	-	-	39,346	-
Bambasi	24,539	1,709	7,011	-	2,157	85	-	62,300	13,877
Oda Godere	8,346	956	11,684	-	1,253	*	-	44,157	4,817
Komesha	459	59	5,087	-	873	*	-	19,155	3,003
Mao Komo Special	10,422	1,371	3,485	*	993	80	-	23,498	5,317
Kemeshi Zone	33,775	11,844	38,172	-	2,937	235	-	143,037	34,549
Yaso	9,871	2,680	7,131	-	576	40	-	22,141	6,838
Sirba Abay	4,500	1,730	11,310	-	517	62	-	26,086	7,291
Kamashi	4,874	2,298	5,982	-	672	59	-	26,112	422
Agalo Meti	4,407	1,584	11,981	-	585	*	-	21,904	11,737
Belo Jegonfoy	10,123	3,551	1,767	-	587	49	-	46,793	8,261

c) Urban Holdings

Geographic Area	ALL LIVESTOCK								
	CATTLE	SHEEP	GOATS	HORSES	ASSES	MULES	CAMELS	POULTRY	BEEHIVES
Benshangul-Gumuz Region	22,892	6,238	3,293	68	718	50	15	55,938	1,620
Metekel Zone	18,110	5,812	2,532	68	439	40	15	35,656	908
Dangur	522	110	*	-	62	-	-	1,884	*
Guba	698	*	495	-	83	-	15	1,527	-
Wenbera	2,403	1,013	278	68	201	35	-	2,095	*
Mandura	977	205	96	-	-	-	-	1,477	90
Dibate	1,480	215	218	-	51	*	-	2,875	*
Pawe	8,733	*	*	-	*	*	-	*	*
Bulen	3,297	622	218	-	33	-	-	3,578	*
Asosa Zone	4,782	426	761	-	279	*	-	20,281	712
Menge	23	37	70	-	16	-	-	285	-
Kurmak	-	2	41	-	2	-	-	208	2
Asosa	1,681	321	*	-	91	*	-	14,806	*
Sherkole									
Bambasi	3,078	65	202	-	170	*	-	4,982	*
Oda Godere									

TABLE 7-2: NUMBER OF CATTLE BY AGE AND SEX OF ANIMAL, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	CATTLE										
	ALL CATTLE	MALE					FEMALE				
		< 6 Months	6 Mo < 1yr	1 - <3 yrs	3 - <10 yrs	10 yrs &Over	< 6 Months	6 Mo < 1yr	1 - <3 yrs	3 - <10 yrs	10 yrs &Over
Benshangul-Gumuz Region	309,627	15,513	15,299	27,173	75,211	2,313	17,073	16,364	30,570	105,600	4,512
Metekel Zone	193,914	9,487	9,924	16,740	46,317	1,952	10,431	10,135	19,555	66,098	3,275
Dangur	11,540	443	509	1,098	3,290	409	307	465	981	3,696	344
Guba	8,464	519	623	581	501	*	757	557	977	3,751	184
Wenbera	43,194	2,205	2,180	3,463	10,760	507	2,310	2,223	4,102	14,983	459
Mandura	11,008	578	644	1,053	2,087	*	707	555	1,129	4,174	39
Dibate	57,395	2,505	2,991	4,705	13,577	739	2,726	3,082	6,433	18,953	1,684
Pawe	31,801	1,470	1,139	3,093	9,776	115	1,535	1,330	2,709	10,227	408
Bulen	30,511	1,767	1,839	2,748	6,325	125	2,089	1,923	3,225	10,314	156
Asosa Zone	81,939	4,229	3,751	7,638	22,133	282	4,078	3,945	7,566	27,484	833
Menge	1,486	*	*	100	950	*	*	*	71	240	*
Kurmak	*	-	-	*	-	-	-	-	-	-	-
Asosa	33,314	1,261	1,696	3,066	10,064	*	1,191	1,605	2,893	11,102	307
Sherkole	260	*	-	*	209	-	-	-	*	*	*
Bambasi	27,618	1,660	1,100	2,983	6,834	*	1,649	1,290	2,540	9,219	275
Oda Godere	8,346	388	384	640	1,912	-	533	455	796	3,146	*
Komesha	459	*	*	*	120	-	*	*	66	*	*
Mao Komo Special	10,422	847	528	783	2,045	*	656	522	1,186	3,651	135
Kemeshi Zone	33,775	1,797	1,624	2,795	6,760	79	2,564	2,284	3,449	12,018	405
Yaso	9,871	578	466	640	1,733	*	842	674	968	3,821	114
Sirba Abay	4,500	328	*	337	403	-	509	*	563	1,528	*
Kamashi	4,874	320	253	468	835	29	313	280	482	1,846	48
Agalo Meti	4,407	222	125	424	615	*	312	306	500	1,812	*
Belo Jegonfoy	10,123	349	500	925	3,175	-	589	583	936	3,012	54

b) Rural Holdings

Geographic Area	CATTLE										
	ALL CATTLE	MALE					FEMALE				
		< 6 Months	6 Mo < 1yr	1 - <3 yrs	3 - <10 yrs	10 yrs &Over	< 6 Months	6 Mo < 1yr	1 - <3 yrs	3 - <10 yrs	10 yrs &Over
Benshangul-Gumuz Region	286,735	14,278	13,903	24,798	71,299	2,238	15,579	15,063	28,262	96,960	4,356
Metekel Zone	175,804	8,639	8,812	14,755	43,085	1,883	9,312	9,119	17,708	59,354	3,136
Dangur	11,018	430	490	1,066	3,042	397	303	451	938	3,562	340
Guba	7,766	501	558	504	450	13	732	502	888	3,434	184
Wenbera	40,791	2,125	2,040	3,289	10,259	470	2,230	2,100	3,920	13,959	399
Mandura	10,031	517	583	950	1,966	*	634	513	948	3,842	*
Dibate	55,914	2,459	2,920	4,553	13,259	724	2,648	3,013	6,295	18,421	1,621
Pawe	23,069	1,033	628	1,950	8,291	115	860	872	1,979	6,934	408
Bulen	27,215	1,573	1,594	2,443	5,818	122	1,903	1,669	2,740	9,202	150
Asosa Zone	77,157	3,842	3,466	7,248	21,454	276	3,703	3,661	7,104	25,588	815
Menge	1,463	*	*	99	938	*	*	*	69	232	*
Kurmak	*	-	-	*	-	-	-	-	-	-	-
Asosa	31,633	1,117	1,551	3,005	9,901	*	1,087	1,470	2,796	10,269	307
Sherkole	260	*	-	*	209	-	-	-	*	*	*
Bambasi	24,539	1,417	960	2,656	6,328	*	1,379	1,141	2,177	8,164	257
Oda Godere	8,346	388	384	640	1,912	-	533	455	796	3,146	*
Komesha	459	*	*	*	120	-	*	*	66	112	*
Mao Komo Special	10,422	847	528	783	2,045	*	656	522	1,186	3,651	135
Kemeshi Zone	33,775	1,797	1,624	2,795	6,760	79	2,564	2,284	3,449	12,018	405
Yaso	9,871	578	466	640	1,733	*	842	674	968	3,821	114
Sirba Abay	4,500	328	279	337	403	-	509	441	563	1,528	*
Kamashi	4,874	320	253	468	835	29	313	280	482	1,846	48
Agalo Meti	4,407	222	125	424	615	*	312	306	500	1,812	*
Belo Jegonfoy	10,123	349	500	925	3,175	-	589	583	936	3,012	54

c) Urban Holdings

Geographic Area	CATTLE										
	ALL CATTLE	MALE					FEMALE				
		< 6 Months	6 Mo < 1yr	1 - <3 yrs	3 - <10 yrs	10 yrs &Over	< 6 Months	6 Mo < 1yr	1 - <3 yrs	3 - <10 yrs	10 yrs &Over
Benshangul-Gumuz Region	22,892	1,234	1,397	2,375	3,912	74	1,494	1,301	2,308	8,640	156
Metekel Zone	18,110	847	1,112	1,985	3,232	68	1,119	1,016	1,847	6,744	139
Dangur	522	*	19	32	248	*	*	14	43	134	*
Guba	698	18	66	77	51	-	25	55	*	316	-
Wenbera	2,403	80	140	174	502	38	80	124	182	1,024	60
Mandura	977	60	60	103	121	-	72	42	181	332	6
Dibate	1,480	46	71	151	318	15	78	69	137	532	63
Pawe	8,733	436	511	*	1,486	-	*	458	730	3,293	-
Bulen	3,297	194	245	305	508	*	185	254	484	1,112	*
Asosa Zone	4,782	387	285	390	680	*	375	285	462	1,896	*
Menge	23	-	-	2	11	-	-	-	2	8	-
Kurmak	-	-	-	-	-	-	-	-	-	-	-
Asosa	1,681	144	145	61	162	-	104	*	97	832	-
Sherkole											
Bambasi	3,078	243	140	327	506	*	271	149	363	1,055	*
Oda Godere											

TABLE 7-3: NUMBER OF SHEEP BY AGE AND SEX OF ANIMAL, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	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
Benshangul-Gumuz Region	58,770	7,938	3,617	2,247	3,128	8,484	4,832	5,759	22,765
Metekel Zone	36,695	5,088	2,326	1,338	2,030	5,041	2,766	3,686	14,420
Dangur	3,928	562	136	153	272	526	291	538	1,451
Guba	4,199	387	164	138	219	614	156	675	1,846
Wenbera	9,054	1,300	573	290	598	1,459	551	1,003	3,279
Mandura	3,548	523	219	105	134	461	286	273	1,548
Dibate	6,045	704	392	281	429	816	535	532	2,356
Pawe	5,794	1,063	653	212	135	533	517	261	2,420
Bulen	4,127	549	189	159	244	632	431	403	1,521
Asosa Zone	10,231	1,283	475	395	544	1,599	973	926	4,038
Menge	1,791	207	*	151	*	257	271	118	626
Kurmak	2	-	1	-	-	-	-	-	1
Asosa	3,699	492	186	116	208	595	221	312	1,569
Sherkole	579	*	*	-	*	*	*	164	198
Bambasi	1,774	243	137	68	*	297	143	186	624
Oda Godere	956	62	*	48	*	*	71	63	431
Komesha	59	-	-	-	*	*	*	*	*
Mao Komo Special	1,371	276	48	*	*	268	103	78	553
Kemeshi Zone	11,844	1,568	817	515	553	1,844	1,093	1,148	4,307
Yaso	2,680	449	109	93	126	521	215	234	933
Sirba Abay	1,730	157	87	92	128	273	198	224	571
Kamashi	2,298	393	152	112	38	384	179	282	757
Agalo Meti	1,584	201	75	53	112	177	158	144	663
Belo Jegonfoy	3,551	367	393	164	149	490	343	264	1,383

b) Rural Holdings

Geographic Area	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
Benshangul-Gumuz Region	52,532	6,945	3,012	2,026	2,900	7,736	4,256	5,441	20,214
Metekel Zone	30,883	4,124	1,772	1,142	1,827	4,353	2,246	3,395	12,025
Dangur	3,818	550	122	142	272	519	291	530	1,393
Guba	4,180	387	164	138	216	614	148	671	1,842
Wenbera	8,041	1,178	497	281	533	1,249	479	930	2,896
Mandura	3,343	493	219	99	134	430	262	243	1,463
Dibate	5,831	679	382	271	402	791	523	512	2,270
Pawe	2,165	350	264	102	*	209	152	157	866
Bulen	3,506	487	125	109	207	541	391	352	1,293
Asosa Zone	9,805	1,254	424	370	519	1,539	918	899	3,883
Menge	1,754	205	*	143	*	250	271	115	613
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	3,378	468	*	*	*	550	*	297	1,446
Sherkole	579	*	*	-	*	*	*	164	198
Bambasi	1,709	239	129	63	*	288	136	177	605
Oda Godere	956	62	*	48	*	*	71	63	431
Komesha	59	-	-	-	*	*	*	*	*
Mao Komo Special	1,371	276	48	*	33	268	103	78	553
Kemeshi Zone	11,844	1,568	817	515	553	1,844	1,093	1,148	4,307
Yaso	2,680	449	109	93	126	521	215	234	933
Sirba Abay	1,730	157	87	92	128	273	198	224	571
Kamashi	2,298	393	152	112	38	384	179	282	757
Agalo Meti	1,584	201	75	53	112	177	158	144	663
Belo Jegonfoy	3,551	367	393	164	149	490	343	264	1,383

c) Urban Holdings

Geographic Area	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
Benshangul-Gumuz Region	6,238	993	605	221	227	747	575	318	2,551
Metekel Zone	5,812	964	554	196	203	688	520	291	2,396
Dangur	110	*	*	*	-	*	-	*	58
Guba	*	-	-	-	*	-	*	*	*
Wenbera	1,013	122	77	*	65	211	73	74	383
Mandura	205	30	-	6	-	30	24	30	84
Dibate	215	25	*	*	27	*	*	*	86
Pawe	*	*	*	110	*	*	*	105	*
Bulen	622	62	64	50	37	91	40	51	228
Asosa Zone	426	*	*	25	24	*	*	28	155
Menge	37	2	-	8	5	7	-	3	13
Kurmak	2	-	1	-	-	-	-	-	1
Asosa	321	*	*	*	*	*	*	*	123
Sherkole									
Bambasi	65	*	*	*	*	*	*	*	*

TABLE 7-4: NUMBER OF GOATS BY AGE AND SEX OF ANIMAL, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	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
Benshangul-Gumuz Region	200,472	24,046	11,515	7,678	11,815	29,007	20,039	22,538	73,832
Metekel Zone	89,119	11,024	5,086	3,227	5,586	13,617	8,692	9,962	31,925
Dangur	12,183	1,720	796	497	741	1,881	1,076	1,396	4,076
Guba	17,504	1,710	781	568	738	2,896	1,651	2,185	6,975
Wenbera	14,787	1,649	624	315	1,021	2,449	1,690	1,562	5,477
Mandura	11,695	1,751	463	284	612	1,813	838	887	5,046
Dibate	15,147	1,845	1,116	716	1,013	1,968	1,576	1,761	5,153
Pawe	3,312	584	342	*	381	435	191	197	1,153
Bulen	14,491	1,764	964	818	1,080	2,174	1,671	1,974	4,045
Asosa Zone	73,181	8,570	4,341	3,031	4,008	9,417	7,523	8,402	27,890
Menge	19,410	2,303	1,100	631	1,122	2,435	1,892	2,264	7,662
Kurmak	3,238	209	298	187	152	318	334	511	1,230
Asosa	13,140	1,944	856	751	589	1,591	1,301	1,183	4,925
Sherkole	9,923	894	379	330	580	1,420	1,211	1,420	3,690
Bambasi	7,214	908	601	345	419	1,036	684	832	2,387
Oda Godere	11,684	1,049	714	398	771	1,342	1,342	1,403	4,663
Komesha	5,087	660	276	288	301	656	374	529	2,002
Mao Komo Special	3,485	602	116	102	73	618	385	259	1,330
Kemeshi Zone	38,172	4,453	2,088	1,421	2,222	5,973	3,824	4,174	14,017
Yaso	7,131	885	495	222	380	1,230	672	604	2,643
Sirba Abay	11,310	1,191	452	439	692	1,811	1,125	1,440	4,160
Kamashi	5,982	918	448	206	309	924	601	669	1,908
Agalo Meti	11,981	1,203	597	471	747	1,790	1,270	1,360	4,542
Belo Jegonfoy	1,767	256	96	83	93	218	156	101	763

b) Rural Holdings

Geographic Area	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
Benshangul-Gumuz Region	197,179	23,483	11,322	7,604	11,519	28,575	19,821	22,356	72,498
Metekel Zone	86,587	10,617	4,916	3,167	5,309	13,269	8,536	9,825	30,949
Dangur	12,118	1,716	789	494	734	1,881	1,058	1,388	4,058
Guba	17,009	1,656	759	539	727	2,827	1,619	2,123	6,760
Wenbera	14,509	1,609	605	310	979	2,411	1,652	1,543	5,401
Mandura	11,598	1,739	463	284	612	1,801	820	856	5,022
Dibate	14,929	1,802	1,103	703	1,007	1,932	1,568	1,751	5,063
Pawe	2,151	360	262	*	170	271	184	192	689
Bulen	14,273	1,736	935	813	1,080	2,147	1,635	1,972	3,956
Asosa Zone	72,420	8,413	4,318	3,017	3,989	9,332	7,461	8,357	27,532
Menge	19,340	2,300	1,097	631	1,120	2,427	1,881	2,258	7,626
Kurmak	3,197	206	297	184	150	309	331	500	1,221
Asosa	12,693	1,827	852	740	578	1,570	1,273	1,169	4,685
Sherkole	9,923	894	379	330	580	1,420	1,211	1,420	3,690
Bambasi	7,011	875	586	345	415	991	665	819	2,315
Oda Godere	11,684	1,049	714	398	771	1,342	1,342	1,403	4,663
Komesha	5,087	660	276	288	301	656	374	529	2,002
Mao Komo Special	3,485	602	116	102	73	618	385	259	1,330
Kemeshi Zone	38,172	4,453	2,088	1,421	2,222	5,973	3,824	4,174	14,017
Yaso	7,131	885	495	222	380	1,230	672	604	2,643
Sirba Abay	11,310	1,191	452	439	692	1,811	1,125	1,440	4,160
Kamashi	5,982	918	448	206	309	924	601	669	1,908
Agalo Meti	11,981	1,203	597	471	747	1,790	1,270	1,360	4,542
Belo Jegonfoy	1,767	256	96	83	93	218	156	101	763

c) Urban Holdings

Geographic Area	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
Benshangul-Gumuz Region	3,293	563	193	74	296	432	218	182	1,334
Metekel Zone	2,532	407	170	60	*	348	156	137	977
Dangur	*	*	*	*	*	-	*	*	*
Guba	495	54	22	29	*	69	32	*	215
Wenbera	278	41	*	*	*	*	*	19	76
Mandura	96	12	-	-	-	12	18	30	24
Dibate	218	43	*	*	*	36	*	*	90
Pawe	*	*	*	*	*	*	*	*	*
Bulen	218	28	*	*	-	28	*	*	90
Asosa Zone	761	*	23	*	19	84	62	45	357
Menge	70	3	3	-	2	8	11	7	36
Kurmak	41	3	1	3	2	9	3	11	9
Asosa	*	*	*	*	*	*	*	*	*
Sherkole									
Bambasi	202	*	*	-	*	*	*	*	72

TABLE 7-5: NUMBER OF HORSES AND ASSES BY AGE AND SEX OF ANIMAL, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	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
Benshangul-Gumuz Region	559	*	186	*	255	30,952	3,509	17,577	2,566	7,301
Metekel Zone	530	*	186	*	226	13,926	1,232	9,757	642	2,294
Dangur	-	-	-	-	-	2,020	278	1,470	90	182
Guba	-	-	-	-	-	1,375	158	424	171	622
Wenbera	530	*	186	*	226	4,655	331	3,581	156	588
Mandura	-	-	-	-	-	1,106	104	539	97	367
Dibate	-	-	-	-	-	2,385	145	1,924	74	242
Pawe	-	-	-	-	-	500	136	176	*	162
Bulen	-	-	-	-	-	1,884	80	1,644	*	131
Asosa Zone	*	-	-	-	*	14,089	1,993	5,895	1,742	4,459
Menge	-	-	-	-	-	3,970	666	1,373	490	1,441
Kurmak	-	-	-	-	-	360	*	338	-	-
Asosa	-	-	-	-	-	2,601	330	1,428	241	602
Sherkole	-	-	-	-	-	1,710	306	623	245	536
Bambasi	-	-	-	-	-	2,327	337	558	442	990
Oda Godere	-	-	-	-	-	1,253	100	758	74	321
Komesha	-	-	-	-	-	873	115	509	78	172
Mao Komo Special	*	-	-	-	*	993	115	308	172	397
Kemeshi Zone	-	-	-	-	-	2,937	283	1,924	181	548
Yaso	-	-	-	-	-	576	*	519	*	46
Sirba Abay	-	-	-	-	-	517	47	280	70	120
Kamashi	-	-	-	-	-	672	48	465	33	127
Agalo Meti	-	-	-	-	-	585	83	271	*	190
Belo Jegonfoy	-	-	-	-	-	587	104	389	*	66

b) Rural Holdings

Geographic Area	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
Benshangul-Gumuz Region	491	*	148	*	233	30,234	3,455	17,069	2,524	7,186
Metekel Zone	463	*	148	*	204	13,487	1,225	9,389	628	2,244
Dangur	-	-	-	-	-	1,958	278	1,409	90	182
Guba	-	-	-	-	-	1,292	154	358	164	615
Wenbera	463	*	148	*	204	4,454	327	3,407	156	565
Mandura	-	-	-	-	-	1,106	104	539	97	367
Dibate	-	-	-	-	-	2,334	145	1,882	74	233
Pawe	-	-	-	-	-	490	136	176	*	157
Bulen	-	-	-	-	-	1,851	80	1,620	*	126
Asosa Zone	*	-	-	-	*	13,810	1,946	5,756	1,714	4,394
Menge	-	-	-	-	-	3,954	666	1,360	488	1,440
Kurmak	-	-	-	-	-	358	*	336	-	-
Asosa	-	-	-	-	-	2,510	322	1,362	235	591
Sherkole	-	-	-	-	-	1,710	306	623	245	536
Bambasi	-	-	-	-	-	2,157	299	500	422	937
Oda Godere	-	-	-	-	-	1,253	100	758	74	321
Komesha	-	-	-	-	-	873	115	509	78	172
Mao Komo Special	*	-	-	-	*	993	115	308	172	397
Kemeshi Zone	-	-	-	-	-	2,937	283	1,924	181	548
Yaso	-	-	-	-	-	576	*	519	*	46
Sirba Abay	-	-	-	-	-	517	47	280	70	120
Kamashi	-	-	-	-	-	672	48	465	33	127
Agalo Meti	-	-	-	-	-	585	83	271	41	190
Belo Jegonfoy	-	-	-	-	-	587	104	389	28	66

c) Urban Holdings

Geographic Area	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
Benshangul-Gumuz Region	68	*	38	*	*	718	54	507	42	115
Metekel Zone	68	*	38	*	*	439	*	368	15	49
Dangur	-	-	-	-	-	62	-	62	-	-
Guba	-	-	-	-	-	83	*	65	*	*
Wenbera	68	*	38	*	*	201	*	174	-	*
Mandura	-	-	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	51	-	42	-	*
Pawe	-	-	-	-	-	*	-	-	*	*
Bulen	-	-	-	-	-	33	-	25	*	*
Asosa Zone	-	-	-	-	-	279	47	139	28	65
Menge	-	-	-	-	-	16	-	13	2	2
Kurmak	-	-	-	-	-	2	-	2	-	-
Asosa	-	-	-	-	-	91	*	*	*	*
Sherkole										
Bambasi	-	-	-	-	-	170	38	59	20	53
Oda Godere										
Komesha										
Mao Komo Special										

TABLE 7-6: NUMBER OF MULES AND CAMELS BY AGE AND SEX OF ANIMAL BY ZONE, AND WEREDA

a) Both rural and Urban Holdings

Geographic Area	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
Benshangul-Gumuz Region	1,394	*	613	*	756	15	-	15	-	-
Metekel Zone	660	*	349	-	307	15	-	15	-	-
Dangur	*	-	-	-	*	-	-	-	-	-
Guba	74	-	-	-	74	15	-	15	-	-
Wenbera	333	*	194	-	136	-	-	-	-	-
Mandura	45	-	45	-	-	-	-	-	-	-
Dibate	114	-	91	-	*	-	-	-	-	-
Pawe	*	-	*	-	-	-	-	-	-	-
Bulen	*	-	*	-	-	-	-	-	-	-
Asosa Zone	499	*	121	*	357	-	-	-	-	-
Menge	117	*	*	-	98	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-	-
Asosa	133	-	*	-	130	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-	-	-
Bambasi	92	-	*	*	40	-	-	-	-	-
Oda Godere	*	-	*	-	*	-	-	-	-	-
Komesha	*	-	-	-	*	-	-	-	-	-
Mao Komo Special	80	-	*	-	*	-	-	-	-	-
Kemeshi Zone	235	-	143	-	92	-	-	-	-	-
Yaso	40	-	*	-	25	-	-	-	-	-
Sirba Abay	62	-	32	-	30	-	-	-	-	-
Kamashi	59	-	41	-	*	-	-	-	-	-
Agalo Meti	*	-	*	-	*	-	-	-	-	-
Belo Jegonfoy	*	-	*	-	-	-	-	-	-	-

b) Rural Holdings

Geographic Area	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
Benshangul-Gumuz Region	1,344	*	586	*	737	-	-	-	-	-
Metekel Zone	620	-	326	-	295	-	-	-	-	-
Dangur	74	-	-	-	74	-	-	-	-	-
Guba	74	-	-	-	74	-	-	-	-	-
Wenbera	299	-	173	-	125	-	-	-	-	-
Mandura	45	-	45	-	-	-	-	-	-	-
Dibate	112	-	91	-	*	-	-	-	-	-
Pawe	-	-	-	-	-	-	-	-	-	-
Bulen	*	-	*	-	-	-	-	-	-	-
Asosa Zone	489	*	118	*	350	-	-	-	-	-
Menge	117	*	*	-	98	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-	-
Asosa	130	-	-	-	130	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-	-	-
Bambasi	85	-	*	*	*	-	-	-	-	-
Oda Godere	*	-	*	-	*	-	-	-	-	-
Komesha	*	-	-	-	*	-	-	-	-	-
Mao Komo Special	80	-	54	-	*	-	-	-	-	-
Kemeshi Zone	235	-	143	-	92	-	-	-	-	-
Yaso	40	-	15	-	25	-	-	-	-	-
Sirba Abay	62	-	32	-	30	-	-	-	-	-
Kamashi	59	-	41	-	*	-	-	-	-	-
Agalo Meti	*	-	*	-	*	-	-	-	-	-
Belo Jegonfoy	49	-	49	-	-	-	-	-	-	-

c) Urban Holdings

Geographic Area	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
Benshangul-Gumuz Region	50	*	27	-	*	15	-	15	-	-
Metekel Zone	40	*	24	-	*	15	-	15	-	-
Dangur	-	-	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	15	-	15	-	-
Wenbera	35	*	20	-	*	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-	-	-
Dibate	*	-	-	-	*	-	-	-	-	-
Pawe	*	-	*	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-	-	-
Asosa Zone	*	-	*	-	*	-	-	-	-	-
Menge	-	-	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-	-	-
Asosa	*	-	*	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-	-	-
Bambasi	*	-	-	-	*	-	-	-	-	-

TABLE 7-7: CATTLE AGED 3 – 10 YEARS BY SEX AND PURPOSE, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	CATTLE AGED 3 – 10 YEARS									
		MALE				FEMALE				
	Total	Draught	Beef	Breeding	Other	Milk	Draught	Beef	Breeding	Other
Benshangul-Gumuz Region	180,810	67,553	1,289	4,676	1,693	66,031	1,766	608	34,801	2,394
Metekel Zone	112,415	40,964	922	3,677	754	38,095	723	397	25,797	1,086
Dangur	6,986	2,995	*	*	*	2,298	43	-	1,228	*
Guba	4,252	-	105	396	-	1,229	-	*	2,512	-
Wenbera	25,744	9,497	285	651	328	11,420	*	128	2,790	584
Mandura	6,261	1,730	92	250	*	1,692	-	*	2,423	6
Dibate	32,530	11,994	214	1,168	201	10,392	235	*	8,050	226
Pawe	20,003	9,390	63	303	*	5,184	266	62	4,591	126
Bulen	16,639	5,359	*	822	*	5,879	119	*	4,203	*
Asosa Zone	49,617	20,825	262	395	651	21,051	854	*	4,514	955
Menge	1,190	907	-	3	*	*	-	-	136	-
Kurmak	-	-	-	-	-	-	-	-	-	-
Asosa	21,166	9,727	*	*	*	8,179	622	*	1,919	381
Sherkole	223	*	*	-	165	*	-	-	-	-
Bambasi	16,053	6,416	63	205	150	6,865	45	*	1,711	488
Oda Godere	5,057	1,758	*	*	*	2,577	*	-	391	*
Komesha	232	90	-	*	*	*	*	-	*	-
Mao Komo Special	5,696	1,915	*	*	55	3,284	*	-	289	*
Kemeshi Zone	18,778	5,764	105	604	288	6,885	189	101	4,490	353
Yaso	5,554	1,412	*	154	126	1,680	74	21	1,903	144
Sirba Abay	1,930	138	*	*	*	433	-	*	1,054	-
Kamashi	2,681	627	*	*	139	1,474	64	*	86	209
Agalo Meti	2,426	482	*	115	*	818	*	*	*	-
Belo Jegonfoy	6,186	3,106	-	69	-	2,481	38	*	486	-

b) Rural Holdings

Geographic Area	CATTLE AGED 3 – 10 YEARS									
		MALE				FEMALE				
	Total	Draught	Beef	Breeding	Other	Milk	Draught	Beef	Breeding	Other
Benshangul-Gumuz Region	168,259	64,174	1,243	4,305	1,577	60,550	1,569	580	32,106	2,154
Metekel Zone	102,439	38,157	893	3,390	645	34,271	547	374	23,304	859
Dangur	6,604	2,753	*	*	*	2,234	*	-	1,173	*
Guba	3,885	-	105	345	-	1,020	-	*	2,408	-
Wenbera	24,218	9,067	285	640	267	10,577	*	128	2,765	433
Mandura	5,808	1,609	92	250	*	1,367	-	*	2,423	-
Dibate	31,680	11,759	211	1,136	153	10,266	235	*	7,694	188
Pawe	15,224	8,049	63	159	*	3,883	125	53	2,779	93
Bulen	15,020	4,919	*	773	*	4,924	102	*	4,063	*
Asosa Zone	47,041	20,252	245	311	645	19,394	833	*	4,312	943
Menge	1,171	899	-	-	*	*	-	-	128	-
Kurmak	-	-	-	-	-	-	-	-	-	-
Asosa	20,171	9,592	*	*	*	7,447	614	-	1,832	376
Sherkole	223	*	*	-	165	*	-	-	-	-
Bambasi	14,492	5,987	*	148	147	5,940	*	*	1,605	481
Oda Godere	5,057	1,758	*	*	*	2,577	*	-	391	*
Komesha	232	90	-	*	*	*	*	-	*	-
Mao Komo Special	5,696	1,915	*	*	55	3,284	*	-	289	*
Kemeshi Zone	18,778	5,764	105	604	288	6,885	189	101	4,490	353
Yaso	5,554	1,412	*	154	126	1,680	74	21	1,903	144
Sirba Abay	1,930	138	*	*	*	433	-	*	1,054	-
Kamashi	2,681	627	*	*	139	1,474	64	14	86	209
Agalo Meti	2,426	482	*	115	*	818	*	*	*	-
Belo Jegonfoy	6,186	3,106	-	69	-	2,481	38	6	486	-

c) Urban Holdings

Geographic Area	CATTLE AGED 3 – 10 YEARS									
		MALE				FEMALE				
	Total	Draught	Beef	Breeding	Other	Milk	Draught	Beef	Breeding	Other
Benshangul-Gumuz Region	12,552	3,379	46	371	116	5,481	*	28	2,695	240
Metekel Zone	9,976	2,807	*	287	110	3,824	*	23	2,493	228
Dangur	382	241	*	-	-	65	14	-	56	-
Guba	367	-	-	51	-	209	-	*	104	-
Wenbera	1,526	430	-	*	*	844	*	-	26	151
Mandura	452	121	-	-	-	326	-	-	-	6
Dibate	850	235	*	32	48	126	-	*	356	39
Pawe	4,779	1,340	-	*	*	1,300	*	*	*	*
Bulen	1,620	440	*	49	-	955	*	-	141	-
Asosa Zone	2,576	572	*	*	*	1,657	*	*	201	*
Menge	20	8	-	3	-	-	-	-	8	-
Kurmak	-	-	-	-	-	-	-	-	-	-
Asosa	995	136	-	*	*	732	*	*	87	*
Sherkole										
Bambasi	1,561	429	*	*	*	925	*	*	106	*
Oda Godere										

TABLE 7-8: SHEEP AGED 2 AND OLDER BY SEX AND PURPOSE, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	SHEEP AGED 2 AND OLDER								
		MALE				FEMALE			
	Total	Mutton/Meat	Wool	Breeding	Other	Mutton/Meat	Wool	Breeding	Other
Benshangul-Gumuz Region	25,893	829	-	2,102	197	381	*	22,178	176
Metekel Zone	16,451	599	-	1,308	123	224	*	14,125	45
Dangur	1,723	*	-	152	*	*	-	1,428	*
Guba	2,065	*	-	200	*	*	-	1,842	-
Wenbera	3,876	210	-	299	90	105	*	3,152	*
Mandura	1,682	*	-	124	-	*	-	1,521	*
Dibate	2,785	168	-	261	-	*	-	2,282	*
Pawe	2,554	*	-	*	-	*	-	2,416	-
Bulen	1,765	24	-	220	-	*	*	1,485	*
Asosa Zone	4,582	155	-	336	*	49	-	3,865	*
Menge	738	*	-	*	-	*	-	614	2
Kurmak	1	-	-	-	-	-	-	1	-
Asosa	1,777	*	-	*	*	*	-	1,460	*
Sherkole	218	*	-	*	-	-	-	198	-
Bambasi	701	*	-	*	-	*	-	599	-
Oda Godere	520	*	-	*	*	*	-	424	-
Komesha	*	-	-	*	-	-	-	*	-
Mao Komo Special	586	-	-	*	-	-	-	532	*
Kemeshi Zone	4,860	75	-	457	*	108	*	4,188	*
Yaso	1,059	*	-	109	*	53	*	876	-
Sirba Abay	700	*	-	95	*	*	-	562	-
Kamashi	795	-	-	38	-	-	-	750	*
Agalo Meti	775	15	-	97	-	-	-	663	-
Belo Jegonfoy	1,531	*	-	119	-	46	-	1,336	-

b) Rural Holdings

Geographic Area	SHEEP AGED 2 AND OLDER								
		MALE				FEMALE			
	Total	Mutton/Meat	Wool	Breeding	Other	Mutton/Meat	Wool	Breeding	Other
Benshangul-Gumuz Region	23,114	700	-	2,025	175	367	*	19,677	*
Metekel Zone	13,852	474	-	1,252	102	221	*	11,756	*
Dangur	1,665	*	-	152	*	*	-	1,370	*
Guba	2,058	*	-	200	6	*	-	1,838	-
Wenbera	3,429	189	-	276	68	105	*	2,783	-
Mandura	1,597	*	-	124	-	*	-	1,436	*
Dibate	2,672	152	-	250	-	*	-	2,199	-
Pawe	930	*	-	*	-	-	-	866	-
Bulen	1,500	*	-	197	-	*	*	1,264	*
Asosa Zone	4,402	151	-	316	*	38	-	3,734	*
Menge	720	*	-	*	-	*	-	606	-
Kurmak	-	-	-	-	-	-	-	-	-
Asosa	1,641	*	-	*	*	-	-	1,356	*
Sherkole	218	*	-	*	-	-	-	198	-
Bambasi	676	-	-	*	-	*	-	580	-
Oda Godere	520	*	-	*	*	*	-	424	-
Komesha	42	-	-	*	-	-	-	*	-
Mao Komo Special	586	-	-	33	-	-	-	532	*
Kemeshi Zone	4,860	75	-	457	*	108	*	4,188	*
Yaso	1,059	*	-	109	*	53	*	876	-
Sirba Abay	700	*	-	95	*	*	-	562	-
Kamashi	795	-	-	38	-	-	-	750	*
Agalo Meti	775	15	-	97	-	-	-	663	-
Belo Jegonfoy	1,531	*	-	119	-	46	-	1,336	-

c) Urban Holdings

Geographic Area	SHEEP AGED 2 AND OLDER								
		MALE				FEMALE			
	Total	Mutton/Meat	Wool	Breeding	Other	Mutton/Meat	Wool	Breeding	Other
Benshangul-Gumuz Region	2,779	129	-	77	*	*	-	2,501	37
Metekel Zone	2,599	125	-	57	*	*	-	2,369	*
Dangur	58	-	-	-	-	-	-	58	-
Guba	*	*	-	-	-	-	-	*	-
Wenbera	448	*	-	23	*	-	-	370	*
Mandura	84	-	-	-	-	-	-	84	-
Dibate	113	*	-	*	-	-	-	83	*
Pawe	*	*	-	-	-	*	-	*	-
Bulen	265	*	-	23	-	-	-	220	*
Asosa Zone	180	*	-	20	-	*	-	132	*
Menge	18	-	-	5	-	3	-	8	2
Kurmak	1	-	-	-	-	-	-	1	-
Asosa	136	*	-	*	-	*	-	104	*
Sherkole									
Bambasi	*	*	-	*	-	-	-	*	-

TABLE 7-9: GOATS AGED 2 AND OLDER BY SEX AND PURPOSE, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	GOATS AGED 2 AND OLDER							
		MALES			FEMALES			
	Total	Meat	Breeding	Other	Meat	Milk	Breeding	Other
Benshangul-Gumuz Region	85,647	3,129	8,356	331	1,076	509	71,498	750
Metekel Zone	37,511	1,867	3,655	*	581	244	30,971	130
Dangur	4,817	331	391	*	*	*	3,971	*
Guba	7,713	192	546	-	125	91	6,756	*
Wenbera	6,498	385	599	*	*	*	5,041	*
Mandura	5,658	196	409	*	*	*	4,993	6
Dibate	6,166	249	764	-	*	*	5,033	*
Pawe	1,534	276	*	-	*	*	1,133	-
Bulen	5,125	236	843	-	-	-	4,045	-
Asosa Zone	31,897	1,018	2,809	181	147	224	26,951	567
Menge	8,784	82	915	*	*	*	7,304	*
Kurmak	1,382	*	99	-	-	*	1,208	1
Asosa	5,514	*	296	-	*	*	4,841	*
Sherkole	4,270	200	371	*	*	*	3,545	*
Bambasi	2,806	133	276	*	*	*	2,209	*
Oda Godere	5,435	*	535	*	-	*	4,614	*
Komesha	2,304	*	252	*	*	*	1,901	*
Mao Komo Special	1,403	*	64	-	-	-	1,330	-
Kemeshi Zone	16,239	244	1,892	86	348	*	13,576	*
Yaso	3,024	39	341	-	*	*	2,533	-
Sirba Abay	4,852	79	584	*	*	*	3,993	*
Kamashi	2,217	45	221	*	*	-	1,861	*
Agalo Meti	5,289	59	674	*	*	-	4,490	*
Belo Jegonfoy	857	*	71	-	*	*	699	-

b) Rural Holdings

Geographic Area	GOATS AGED 2 AND OLDER							
		MALES			FEMALES			
	Total	Meat	Breeding	Other	Meat	Milk	Breeding	Other
Benshangul-Gumuz Region	84,017	2,947	8,245	326	1,076	501	70,190	732
Metekel Zone	36,257	1,686	3,563	*	581	238	30,017	113
Dangur	4,793	328	387	*	*	*	3,954	*
Guba	7,487	181	546	-	125	91	6,544	-
Wenbera	6,380	362	584	*	*	*	4,965	*
Mandura	5,634	196	409	*	*	*	4,981	-
Dibate	6,071	247	761	-	*	*	4,950	*
Pawe	858	136	*	-	*	*	668	-
Bulen	5,035	236	843	-	-	-	3,956	-
Asosa Zone	31,521	1,018	2,790	181	147	222	26,596	566
Menge	8,746	82	914	124	*	*	7,268	*
Kurmak	1,371	*	97	-	-	*	1,202	-
Asosa	5,263	*	285	-	*	*	4,600	*
Sherkole	4,270	200	371	*	*	*	3,545	*
Bambasi	2,730	133	272	*	*	*	2,137	*
Oda Godere	5,435	*	535	*	-	*	4,614	*
Komesha	2,304	*	252	*	*	*	1,901	*
Mao Komo Special	1,403	*	64	-	-	-	1,330	-
Kemeshi Zone	16,239	244	1,892	86	348	*	13,576	*
Yaso	3,024	39	341	-	*	*	2,533	-
Sirba Abay	4,852	79	584	*	*	*	3,993	*
Kamashi	2,217	45	221	*	*	-	1,861	*
Agalo Meti	5,289	59	674	14	*	-	4,490	*
Belo Jegonfoy	857	*	71	-	*	*	699	-

c) Urban Holdings

Geographic Area	GOATS AGED 2 AND OLDER							
		MALES			FEMALES			
	Total	Meat	Breeding	Other	Meat	Milk	Breeding	Other
Benshangul-Gumuz Region	1,630	*	110	*	-	8	1,309	17
Metekel Zone	1,254	*	*	*	-	6	954	16
Dangur	*	*	*	-	-	-	*	-
Guba	226	*	-	-	-	-	212	*
Wenbera	*	*	*	*	-	-	76	-
Mandura	24	-	-	-	-	6	12	6
Dibate	95	*	*	-	-	-	83	*
Pawe	*	*	*	-	-	-	*	-
Bulen	90	-	-	-	-	-	90	-
Asosa Zone	376	-	19	-	-	2	354	1
Menge	37	-	2	-	-	-	36	-
Kurmak	11	-	2	-	-	2	6	1
Asosa	*	-	*	-	-	-	*	-
Sherkole								
Bambasi	76	-	*	-	-	-	72	-
Oda Godere								

TABLE 7-10: HORSES BY SEX AND PURPOSE, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	HORSES AGED 3 AND OLDER						
		MALES			FEMALES		
	Total	Transportation	Draught	Other	Transportation	Draught	Other
Benshangul-Gumuz Region	441	182	*	-	92	*	148
Metekel Zone	412	182	*	-	63	*	148
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	412	182	*	-	63	*	148
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	*	-	-	-	*	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	*	-	-	-	*	-	-
Kemeshi Zone	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

b) Rural Holdings

Geographic Area	HORSES AGED 3 AND OLDER						
	TOTAL	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Benshangul-Gumuz Region	381	148	-	-	77	*	141
Metekel Zone	352	148	-	-	*	*	141
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	352	148	-	-	*	*	141
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	*	-	-	-	*	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-
Mao Komo Special	*	-	-	-	*	-	-
Kemeshi Zone	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-

c) Urban Holdings

Geographic Area	HORSES AGED 3 AND OLDER						
	TOTAL	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Benshangul-Gumuz Region	60	34	*	-	*	-	*
Metekel Zone	60	34	*	-	*	-	*
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	60	34	*	-	*	-	*
Mandura	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	-	-	-	-	-	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	-	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-	-

TABLE 7-11: ASSES AGED 3 YEARS AND OVER BY SEX AND PURPOSE, ZONE, AND WEREDA
a) Both Rural and Urban Holdings

Geographic Area	ASSES AGED 3 YEARS AND OLDER						
	TOTAL	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Benshangul-Gumuz Region	24,877	12,455	4,670	452	5,509	1,013	778
Metekel Zone	12,051	5,623	3,744	391	1,575	478	241
Dangur	1,652	201	1,107	*	-	137	*
Guba	1,046	419	-	*	607	-	*
Wenbera	4,169	2,123	1,263	196	383	124	*
Mandura	905	530	-	*	339	-	*
Dibate	2,166	1,842	63	*	164	*	*
Pawe	337	*	121	-	*	136	-
Bulen	1,776	453	1,191	-	*	*	*
Asosa Zone	10,354	5,497	377	*	3,473	493	493
Menge	2,815	1,338	*	*	1,142	-	299
Kurmak	338	338	-	-	-	-	-
Asosa	2,029	1,264	*	*	496	*	*
Sherkole	1,159	601	*	-	518	*	-
Bambasi	1,548	513	*	-	665	270	55
Oda Godere	1,079	697	*	-	270	*	-
Komesha	680	485	18	*	96	*	70
Mao Komo Special	706	262	*	*	286	*	*
Kemeshi Zone	2,472	1,335	549	40	461	42	45
Yaso	565	351	158	*	37	-	*
Sirba Abay	400	250	*	*	95	-	*
Kamashi	592	416	41	*	127	-	-
Agalo Meti	461	214	52	*	161	18	*
Belo Jegonfoy	455	104	285	-	42	*	-

b) Rural Holdings

Geographic Area	ASSES AGED 3 YEARS AND OLDER						
	TOTAL	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Benshangul-Gumuz Region	24,255	12,061	4,595	414	5,426	994	765
Metekel Zone	11,634	5,362	3,671	356	1,543	467	234
Dangur	1,590	*	1,104	*	-	137	*
Guba	974	354	-	*	600	-	*
Wenbera	3,972	2,003	1,243	161	364	124	*
Mandura	905	530	-	*	339	-	*
Dibate	2,115	1,831	*	*	164	*	*
Pawe	332	*	121	-	*	136	-
Bulen	1,745	447	1,172	-	*	*	*
Asosa Zone	10,149	5,364	375	*	3,422	485	486
Menge	2,800	1,325	*	*	1,140	-	299
Kurmak	336	336	-	-	-	-	-
Asosa	1,953	1,202	*	-	489	*	*
Sherkole	1,159	601	*	-	518	*	-
Bambasi	1,437	457	*	-	622	262	52
Oda Godere	1,079	697	*	-	270	*	-
Komesha	680	485	18	*	96	*	70
Mao Komo Special	706	262	*	*	286	*	*
Kemeshi Zone	2,472	1,335	549	40	461	42	45
Yaso	565	351	158	*	37	-	*
Sirba Abay	400	250	*	*	95	-	25
Kamashi	592	416	41	*	127	-	-
Agalo Meti	461	214	52	*	161	18	*
Belo Jegonfoy	455	104	285	-	42	*	-

c) Urban Holdings

Geographic Area	ASSES AGED 3 YEARS AND OLDER						
	TOTAL	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Benshangul-Gumuz Region	622	394	75	38	83	19	*
Metekel Zone	417	260	73	35	32	*	*
Dangur	62	58	*	-	-	-	-
Guba	73	65	-	-	*	-	-
Wenbera	197	120	20	35	*	-	*
Mandura	-	-	-	-	-	-	-
Dibate	51	11	31	-	-	*	*
Pawe	*	-	-	-	*	-	-
Bulen	30	*	18	-	-	*	-
Asosa Zone	205	134	*	*	51	*	*
Menge	15	13	-	-	2	-	-
Kurmak	2	2	-	-	-	-	-
Asosa	77	*	-	*	*	-	*
Bambasi	112	56	*	-	42	*	*

TABLE 7-12: MULES AGED 3 YEARS AND ABOVE BY SEX AND PURPOSE, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	MULES AGED 3 YEARS AND OLDER						
	TOTAL	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Benshangul-Gumuz Region	1,370	583	*	-	745	*	-
Metekel Zone	656	340	*	-	307	-	-
Dangur	*	-	-	-	*	-	-
Guba	74	-	-	-	74	-	-
Wenbera	329	185	*	-	136	-	-
Mandura	45	45	-	-	-	-	-
Dibate	114	91	-	-	*	-	-
Pawe	*	*	-	-	-	-	-
Bulen	*	*	-	-	-	-	-
Asosa Zone	479	121	-	-	346	*	-
Menge	108	*	-	-	98	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	133	*	-	-	130	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	81	*	-	-	*	*	-
Oda Godere	*	*	-	-	*	-	-
Komesha	*	-	-	-	*	-	-
Mao Komo Special	80	*	-	-	*	-	-
Kemeshi Zone	235	122	*	-	92	-	-
Yaso	40	*	-	-	25	-	-
Sirba Abay	62	32	-	-	30	-	-
Kamashi	59	41	-	-	*	-	-
Agalo Meti	*	*	-	-	*	-	-
Belo Jegonfoy	*	*	*	-	-	-	-

b) Rural Holdings

Geographic Area	MULES AGED 3 YEARS AND OLDER						
	TOTAL	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Benshangul-Gumuz Region	1,323	557	30	-	726	*	-
Metekel Zone	620	317	*	-	295	-	-
Dangur	74	-	-	-	74	-	-
Guba	74	-	-	-	74	-	-
Wenbera	299	164	*	-	125	-	-
Mandura	45	45	-	-	-	-	-
Dibate	112	91	-	-	*	-	-
Pawe	-	-	-	-	-	-	-
Bulen	*	*	-	-	-	-	-
Asosa Zone	468	118	-	-	339	*	-
Menge	108	*	-	-	98	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	130	-	-	-	130	-	-
Sherkole	-	-	-	-	-	-	-
Bambasi	74	*	-	-	*	*	-
Oda Godere	*	*	-	-	*	-	-
Komesha	*	-	-	-	*	-	-
Mao Komo Special	80	54	-	-	*	-	-
Kemeshi Zone	235	122	*	-	92	-	-
Yaso	40	15	-	-	25	-	-
Sirba Abay	62	32	-	-	30	-	-
Kamashi	59	41	-	-	*	-	-
Agalo Meti	*	*	-	-	*	-	-
Belo Jegonfoy	49	28	*	-	-	-	-

c) Urban Holdings

Geographic Area	MULES AGED 3 YEARS AND OLDER						
	TOTAL	MALES			FEMALES		
		Transportation	Draught	Other	Transportation	Draught	Other
Benshangul-Gumuz Region	46	27	-	-	*	-	-
Metekel Zone	36	24	-	-	*	-	-
Dangur	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-
Wenbera	31	20	-	-	*	-	-
Mandura	-	-	-	-	-	-	-
Dibate	*	-	-	-	*	-	-
Pawe	*	*	-	-	-	-	-
Bulen	-	-	-	-	-	-	-
Asosa Zone	*	*	-	-	*	-	-
Menge	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-
Asosa	*	*	-	-	-	-	-
Bambasi	*	-	-	-	*	-	-

TABLE 7-13: CAMELS BY SEX AND PURPOSE, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	CAMELS AGED 4 YEARS AND OLDER							
		MALES			FEMALES			
	TOTAL	Transportation	Draught	Other	Milk	Transportation	Draught	Other
Benshangul-Gumuz Region	15	15	-	-	-	-	-	-
Metekel Zone	15	15	-	-	-	-	-	-
Dangur	-	-	-	-	-	-	-	-
Guba	15	15	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-
Asosa Zone	-	-	-	-	-	-	-	-
Menge	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-
Asosa	-	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-

b) Rural Holdings

Geographic Area	CAMELS AGED 4 YEARS AND OLDER							
		MALES			FEMALES			
	TOTAL	Transportation	Draught	Other	Milk	Transportation	Draught	Other
Benshangul-Gumuz Region	-	-	-	-	-	-	-	-
Metekel Zone	-	-	-	-	-	-	-	-
Dangur	-	-	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-
Asosa Zone	-	-	-	-	-	-	-	-
Menge	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-
Asosa	-	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-	-	-
Oda Godere	-	-	-	-	-	-	-	-
Komesha	-	-	-	-	-	-	-	-
Mao Komo Special	-	-	-	-	-	-	-	-
Kemeshi Zone	-	-	-	-	-	-	-	-
Yaso	-	-	-	-	-	-	-	-
Sirba Abay	-	-	-	-	-	-	-	-
Kamashi	-	-	-	-	-	-	-	-
Agalo Meti	-	-	-	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-	-	-	-

c) Urban Holdings

Geographic Area	CAMELS AGED 4 YEARS AND OLDER							
		MALES			FEMALES			
	TOTAL	Transportation	Draught	Other	Milk	Transportation	Draught	Other
Benshangul-Gumuz Region	15	15	-	-	-	-	-	-
Metekel Zone	15	15	-	-	-	-	-	-
Dangur	-	-	-	-	-	-	-	-
Guba	15	15	-	-	-	-	-	-
Wenbera	-	-	-	-	-	-	-	-
Mandura	-	-	-	-	-	-	-	-
Dibate	-	-	-	-	-	-	-	-
Pawe	-	-	-	-	-	-	-	-
Bulen	-	-	-	-	-	-	-	-
Asosa Zone	-	-	-	-	-	-	-	-
Menge	-	-	-	-	-	-	-	-
Kurmak	-	-	-	-	-	-	-	-
Asosa	-	-	-	-	-	-	-	-
Sherkole	-	-	-	-	-	-	-	-
Bambasi	-	-	-	-	-	-	-	-

TABLE 7-14: POULTRY INVENTORY BY ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	Total Poultry	Cocks	Cockerels	Pullets	Non-Laying Hens	Chicks	Laying Hens	Avg. Number of Clutches	Avg. Egg Production/ Hen/Clutch
Benshangul-Gumuz Region	961,196	70,591	77,869	120,180	27,901	469,573	195,082	18	12
Metekel Zone	415,005	27,701	35,219	49,342	16,808	212,363	73,572	19	12
Dangur	57,210	3,502	5,559	6,593	2,525	29,763	9,251	17	12
Guba	30,040	1,568	2,704	4,494	1,481	14,449	5,324	17	12
Wenbera	67,739	6,064	4,314	6,314	2,490	35,115	13,416	18	12
Mandura	39,907	2,415	3,887	5,459	1,363	19,521	7,263	17	12
Dibate	79,007	4,930	6,049	9,095	4,086	42,829	12,016	17	11
Pawe	58,270	2,686	6,588	7,898	963	42,125	10,207	20	13
Bulen	60,612	5,311	6,120	6,762	3,296	28,560	10,564	17	12
Asosa Zone	403,153	32,286	31,297	53,138	7,374	182,730	96,329	18	11
Menge	54,328	3,642	3,627	7,863	840	24,086	14,271	15	11
Kurmak	25,357	2,757	1,909	3,311	1,111	9,591	6,677	17	13
Asosa	130,031	11,628	11,054	18,409	1,892	55,734	31,314	18	10
Sherkole	39,346	3,112	3,926	5,479	480	16,954	9,396	15	11
Bambasi	67,282	5,259	5,261	7,821	1,308	33,032	14,599	18	11
Oda Godere	44,157	2,588	2,405	4,914	355	24,137	9,757	16	10
Komesha	19,155	1,663	1,484	2,637	613	7,547	5,210	18	11
Mao Komo Special	23,498	1,637	1,630	2,703	774	11,649	5,105	15	11
Kemeshi Zone	143,037	10,604	11,352	17,700	3,719	74,480	25,181	17	11
Yaso	22,141	1,879	2,122	2,891	1,197	10,442	3,611	17	12
Sirba Abay	26,086	2,003	1,922	3,082	1,201	13,693	4,185	14	10
Kamashi	26,112	1,605	2,106	4,127	119	13,412	4,741	16	10
Agalo Meti	21,904	1,845	1,511	2,199	429	11,299	4,621	16	10
Belo Jegonfoy	46,793	3,272	3,692	5,400	773	25,634	8,022	18	11

b) Rural Holdings

Geographic Area	Total Poultry	Cocks	Cockerels	Pullets	Non-Laying Hens	Chicks	Laying Hens	Avg. Number of Clutches	Avg. Egg Production/ Hen/Clutch
Benshangul-Gumuz Region	905,258	66,931	73,732	113,306	27,015	442,767	181,508	16	11
Metekel Zone	379,349	25,687	32,643	44,972	16,046	194,881	65,121	17	11
Dangur	55,326	3,409	5,445	6,400	2,525	28,716	8,831	16	11
Guba	28,513	1,436	2,533	4,316	1,481	13,822	4,926	18	12
Wenbera	65,644	5,940	4,216	6,124	2,490	33,990	12,884	16	11
Mandura	38,430	2,379	3,772	5,230	1,363	18,647	7,040	16	12
Dibate	76,132	4,770	5,740	8,624	4,024	41,475	11,498	16	11
Pawe	58,270	2,686	5,124	7,898	963	31,392	10,207	19	12
Bulen	57,034	5,069	5,814	6,378	3,200	26,838	9,736	15	11
Asosa Zone	382,872	30,640	29,736	50,634	7,250	173,406	91,206	16	10
Menge	54,043	3,635	3,620	7,842	829	23,923	14,194	15	11
Kurmak	25,149	2,730	1,891	3,287	1,110	9,512	6,618	17	11
Asosa	115,225	10,352	9,926	16,763	1,814	48,801	27,569	16	9
Sherkole	39,346	3,112	3,926	5,479	480	16,954	9,396	15	11
Bambasi	62,300	4,923	4,853	7,008	1,275	30,883	13,356	17	10
Oda Godere	44,157	2,588	2,405	4,914	355	24,137	9,757	16	10
Komesha	19,155	1,663	1,484	2,637	613	7,547	5,210	18	11
Mao Komo Special	23,498	1,637	1,630	2,703	774	11,649	5,105	15	11
Kemeshi Zone	143,037	10,604	11,352	17,700	3,719	74,480	25,181	17	11
Yaso	22,141	1,879	2,122	2,891	1,197	10,442	3,611	17	12
Sirba Abay	26,086	2,003	1,922	3,082	1,201	13,693	4,185	14	10
Kamashi	26,112	1,605	2,106	4,127	119	13,412	4,741	16	10
Agalo Meti	21,904	1,845	1,511	2,199	429	11,299	4,621	16	10
Belo Jegonfoy	46,793	3,272	3,692	5,400	773	25,634	8,022	18	11

c) Urban Holdings

Geographic Area	Total Poultry	Cocks	Cockerels	Pullets	Non-Laying Hens	Chicks	Laying Hens	Avg. Number of Clutches	Avg. Egg Production/ Hen/Clutch
Benshangul-Gumuz Region	55,938	3,660	4,137	6,874	886	26,806	13,574	19	12
Metekel Zone	35,656	2,014	2,576	4,370	762	17,482	8,451	20	12
Dangur	1,884	93	114	193	*	1,047	420	17	13
Guba	1,527	132	171	178	*	627	398	16	11
Wenbera	2,095	124	98	190	*	1,125	532	19	13
Mandura	1,477	36	115	229	-	874	223	18	12
Dibate	2,875	160	309	471	62	1,354	518	18	11
Pawe	*	*	1,464	*	*	10,733	-	21	13
Bulen	3,578	242	306	384	96	1,722	828	18	12
Asosa Zone	20,281	1,646	1,561	2,504	124	9,324	5,123	19	11
Menge	285	7	7	21	11	163	77	14	11
Kurmak	208	27	18	24	1	79	59	17	15
Asosa	14,806	1,276	1,128	1,646	78	6,933	3,745	19	11
Bambasi	4,982	336	408	813	33	2,149	1,243	18	11

TABLE 7-15: BEEHIVE INVENTORY AND PRODUCTION OF HONEY BY ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	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
Benshangul-Gumuz Region	166,736	745,655	166,499	1	743,721	*	1	*	*	2	*
Metekel Zone	72,491	462,921	72,469	1	462,831	*	1	*	-	-	-
Dangur	20,125	174,129	20,125	1	174,129	-	-	-	-	-	-
Guba	297	3,350	297	2	3,350	-	-	-	-	-	-
Wenbera	16,636	45,362	16,636	1	45,362	-	-	-	-	-	-
Mandura	6,872	54,137	6,872	2	54137	-	-	-	-	-	-
Dibate	14,039	68,124	14,039	2	8,710	-	-	-	-	-	-
Pawe	1,459	8,799	1,437	2	8,710	*	1	*	-	-	-
Bulen	13,063	*	13,063	1	*	-	-	-	-	-	-
Asosa Zone	59,695	175,135	59,574	1	57,881	-	-	-	*	2	*
Menge	*	*	*	1	*	-	-	-	-	-	-
Kurmak	*	*	*	2	*	-	-	-	-	-	-
Asosa	31,834	59,726	31,686	1	57,881	-	-	-	*	2	*
Sherkole	-	-	-	-	-	-	-	-	-	-	-
Bambasi	14,151	53,013	14,151	1	53,053	-	-	-	-	-	-
Oda Godere	4,817	10,371	4,817	1	10,371	-	-	-	-	-	-
Komesha	3,003	9,191	3,003	1	9,191	-	-	-	-	-	-
Mao Komo Special	5,317	39,003	5,317	1	39,003	-	-	-	-	-	-
Kemeshi Zone	34,549	107,600	34,483	1	107,600	*	-	-	-	-	-
Yaso	6,838	18,410	6,771	1	18,410	*	-	-	-	-	-
Sirba Abay	7,291	12,266	7,291	1	12,266	-	-	-	-	-	-
Kamashi	422	584	422	1	584	-	-	-	-	-	-
Agalo Meti	11,737	31,978	11,737	1	31,978	-	-	-	-	-	-
Belo Jegonfoy	8,261	44,362	8,261	1	44,362	-	-	-	-	-	-

b) Rural Holdings

Geographic Area	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
Benshangul-Gumuz Region	165,116	739,375	164,879	1	737,441	*	1	*	*	2	*
Metekel Zone	71,584	457,957	71,561	1	457,867	*	1	*	-	-	-
Dangur	20,108	173,786	20,108	1	173,786	-	-	-	-	-	-
Guba	297	3,350	297	2	3,350	-	-	-	-	-	-
Wenbera	16,556	45,174	16,556	1	45,174	-	-	-	-	-	-
Mandura	6,782	53,378	6,782	2	53,378	-	-	-	-	-	-
Dibate	13,962	67,818	13,962	2	67,818	-	-	-	-	-	-
Pawe	1,032	6,108	1,010	2	6,019	*	1	*	-	-	-
Bulen	12,847	108,344	12,847	1	108,344	-	-	-	-	-	-
Asosa Zone	58,983	173,819	58,835	1	171,974	-	-	-	*	2	*
Menge	*	2,964	*	1	2,964	-	-	-	-	-	-
Kurmak	*	846	*	2	846	-	-	-	-	-	-
Asosa	31,397	59,044	31,249	1	57,199	-	-	-	*	2	*
Sherkole	-	-	-	-	-	-	-	-	-	-	-
Bambasi	13,877	52,399	13,877	1	52,399	-	-	-	-	-	-
Oda Godere	4,817	10,371	4,817	1	10,371	-	-	-	-	-	-
Komesha	3,003	9,191	3,003	1	9,191	-	-	-	-	-	-
Mao Komo Special	5,317	39,003	5,317	1	39,003	-	-	-	-	-	-
Kemeshi Zone	34,549	107,600	34,483	1	107,600	*	-	-	-	-	-
Yaso	6,838	18,410	6,771	1	18,410	*	-	-	-	-	-
Sirba Abay	7,291	12,266	7,291	1	12,266	-	-	-	-	-	-
Kamashi	422	584	422	1	584	-	-	-	-	-	-
Agalo Meti	11,737	31,978	11,737	1	31,978	-	-	-	-	-	-
Belo Jegonfoy	8,261	44,362	8,261	1	44,362	-	-	-	-	-	-

c) Urban Holdings

Geographic Area	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
Benshangul-Gumuz Region	1,620	6,280	1,620	2	6,280	-	-	-	-	-	-
Metekel Zone	908	4,964	908	2	4,964	-	-	-	-	-	-
Dangur	*	*	*	2	*	-	-	-	-	-	-
Guba	-	-	-	-	-	-	-	-	-	-	-
Wenbera	*	*	*	1	*	-	-	-	-	-	-
Mandura	90	760	90	2	760	-	-	-	-	-	-
Dibate	*	*	*	2	*	-	-	-	-	-	-
Pawe	*	*	*	2	*	-	-	-	-	-	-
Bulen	*	*	*	1	*	-	-	-	-	-	-
Asosa Zone	712	*	712	1	*	-	-	-	-	-	-
Menge	-	-	-	-	-	-	-	-	-	-	-
Kurmak	2	20	2	2	20	-	-	-	-	-	-
Asosa	*	*	*	1	*	-	-	-	-	-	-
Sherkole											
Bambasi	*	*	*	1	*	-	-	-	-	-	-

TABLE 7-16: NUMBER OF DAIRY ANIMALS, MILK PRODUCTION AND LACTATION PERIOD BY ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	Number Of Dairy Cows	Number Of Milking Cows	Average Daily Milk Prod.	Average Lactation Period(Mn)	Total Milk Milk Production(Lt)	Number Of Dairy Camels	Number Of Milking Camels	Average Daily Milk Prod.	Average Lactation Period(Mn)	Total Milk Milk Production(Lt)
Benshangul-Gumuz Region	66,031	62,929	1.626	7	20,211,814	-	-	-	-	-
Metekel Zone	38,095	35,661	1.433	7	10,697,789	-	-	-	-	-
Dangur	2,299	1,760	1.465	8	470,388	-	-	-	-	-
Guba	1,229	1,327	1.935	6	507,864	-	-	-	-	-
Wenbera	11,421	8,408	0.998	9	2,112,718	-	-	-	-	-
Mandura	1,693	1,525	1.398	7	503,377	-	-	-	-	-
Dibate	10,392	10,396	1.572	8	3,280,908	-	-	-	-	-
Pawe	5,183	6,898	1.332	8	2,113,934	-	-	-	-	-
Bulen	5,879	5,346	1.331	8	1,708,599	-	-	-	-	-
Asosa Zone	21,051	19,770	1.729	7	6,476,,270	-	-	-	-	-
Menge	*	106	2.272	6	*	-	-	-	-	-
Kurmak	-	-	-	7	-	-	-	-	-	-
Asosa	8,179	7,568	1.755	7	1,923,594	-	-	-	-	-
Sherkole	*	*	0.243	3	*	-	-	-	-	-
Bambasi	6,865	6,959	1.578	7	2,421,174	-	-	-	-	-
Oda Godere	2,577	1,957	1.495	7	666,867	-	-	-	-	-
Komesha	*	*	1.539	7	*	-	-	-	-	-
Mao Komo Special	3,284	3,115	1.709	8	1,398,377	-	-	-	-	-
Kemeshi Zone	6,885	7,498	1.735	7	3,037,305	-	-	-	-	-
Yaso	1,680	2,359	1.297	7	753,303	-	-	-	-	-
Sirba Abay	433	579	2.57	5	191,588	-	-	-	-	-
Kamashi	1,474	1,306	1.473	8	919,309	-	-	-	-	-
Agalo Meti	818	1,099	1.746	6	467,802	-	-	-	-	-
Belo Jegonfoy	2,481	2,154	1.588	7	705,303	-	-	-	-	-

b) Rural Holdings

Geographic Area	Number Of Dairy Cows	Number Of Milking Cows	Average Daily Milk Prod.	Average Lactation Period(Mn)	Total Milk Milk Production(Lt)	Number Of Dairy Camels	Number Of Milking Camels	Average Daily Milk Prod.	Average Lactation Period(Mn)	Total Milk Milk Production(Lt)
Benshangul-Gumuz Region	60,550	55,926	1.554	7	18,234,363	-	-	-	-	-
Metekel Zone	34,271	30,134	1.527	7	9,364,810	-	-	-	-	-
Dangur	2,234	1,707	1.25	8	456,343	-	-	-	-	-
Guba	1,020	1,125	2.15	6	465,243	-	-	-	-	-
Wenbera	10,577	7,750	1.098	8	1,973,977	-	-	-	-	-
Mandura	1,367	1,223	1.361	6	419,874	-	-	-	-	-
Dibate	10,266	10,008	1.992	8	3,189,341	-	-	-	-	-
Pawe	3,883	4,190	1.467	8	1,384,503	-	-	-	-	-
Bulen	4,924	4,131	1.369	7	1,475,530	-	-	-	-	-
Asosa Zone	19,394	18,294	1.401	7	5,832,247	-	-	-	-	-
Menge	*	106	2.272	6	42,833	-	-	-	-	-
Kurmak	-	-	-	6	-	-	-	-	-	-
Asosa	7,447	6,960	1.074	7	1,589,606	-	-	-	-	-
Sherkole	*	*	0.243	5	6,271	-	-	-	-	-
Bambasi	5,940	6,092	1.476	7	2,110,689	-	-	-	-	-
Oda Godere	2,577	1,957	1.495	7	666,867	-	-	-	-	-
Komesha	*	*	1.539	7	17,604	-	-	-	-	-
Mao Komo Special	3,284	3,115	1.709	8	1,398,377	-	-	-	-	-
Kemeshi Zone	6,885	7,498	1.735	7	3,037,305	-	-	-	-	-
Yaso	1,680	2,359	1.297	7	753,303	-	-	-	-	-
Sirba Abay	433	579	2.57	5	191,588	-	-	-	-	-
Kamashi	1,474	1,306	1.473	8	919,309	-	-	-	-	-
Agalo Meti	818	1,099	1.746	6	467,802	-	-	-	-	-
Belo Jegonfoy	2,481	2,154	1.588	7	705,303	-	-	-	-	-

c) Urban Holdings

Geographic Area	Number Of Dairy Cows	Number Of Milking Cows	Average Daily Milk Prod.	Average Lactation Period(Mn)	Total Milk Milk Production(Lt)	Number Of Dairy Camels	Number Of Milking Camels	Average Daily Milk Prod.	Average Lactation Period(Mn)	Total Milk Milk Production(Lt)
Benshangul-Gumuz Region	5,481	7,003	1.698	7	1,977,451	-	-	-	-	-
Metekel Zone	3,824	5,527	1.338	7	1,332,978	-	-	-	-	-
Dangur	65	53	1.679	8	14,045	-	-	-	-	-
Guba	209	202	1.719	5	42,622	-	-	-	-	-
Wenbera	844	658	0.897	9	138,741	-	-	-	-	-
Mandura	326	302	1.435	7	83,503	-	-	-	-	-
Dibate	126	388	1.151	8	91,567	-	-	-	-	-
Pawe	1,300	2,708	1.196	7	729,431	-	-	-	-	-
Bulen	955	1,215	1.292	8	233,069	-	-	-	-	-
Asosa Zone	1,657	1,476	2.057	7	644,473	-	-	-	-	-
Menge	-	-	-	5	-	-	-	-	-	-
Kurmak	-	-	-	7	-	-	-	-	-	-
Asosa	732	608	2.435	7	*	-	-	-	-	-
Bambasi	925	867	1.679	7	310,485	-	-	-	-	-

TABLE 7-17: NUMBER OF CATTLE BY SEX AND BREED, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Benshangul-Gumuz Region	309,627	135,486	*	*	174,090	*	*
Metekel Zone	193,914	84,419	-	-	109,494	-	-
Dangur	11,540	5,748	-	-	5,792	-	-
Guba	8,464	2,238	-	-	6,226	-	-
Wenbera	43,194	19,115	-	-	24,078	-	-
Mandura	11,008	4,404	-	-	6,604	-	-
Dibate	57,395	24,517	-	-	32,878	-	-
Pawe	31,801	15,593	-	-	16,209	-	-
Bulen	30,511	12,804	-	-	17,707	-	-
Asosa Zone	81,939	38,011	*	*	43,882	*	*
Menge	1,486	1,114	-	-	372	-	-
Kurmak	*	*	-	-	-	-	-
Asosa	33,314	16,198	*	-	17,078	*	-
Sherkole	260	224	-	-	*	-	-
Bambasi	27,618	12,640	-	*	14,970	-	*
Oda Godere	8,346	3,323	-	-	5,023	-	-
Komesha	459	205	-	-	254	-	-
Mao Komo Special	10,422	4,273	-	-	6,150	-	-
Kemeshi Zone	33,775	13,055	-	-	20,714	-	*
Yaso	9,871	3,453	-	-	6,418	-	-
Sirba Abay	4,500	1,347	-	-	3,153	-	-
Kamashi	4,874	1,905	-	-	2,968	-	-
Agalo Meti	4,407	1,400	-	-	3,002	-	*
Belo Jegonfoy	10,123	4,950	-	-	5,173	-	-

b) Rural Holdings

Geographic Area	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Benshangul-Gumuz Region	286,735	126,497	-	*	160,195	*	*
Metekel Zone	175,804	77,175	-	-	98,629	-	-
Dangur	11,018	5,424	-	-	5,594	-	-
Guba	7,766	2,026	-	-	5,740	-	-
Wenbera	40,791	18,182	-	-	22,608	-	-
Mandura	10,031	4,060	-	-	5,971	-	-
Dibate	55,914	23,915	-	-	31,999	-	-
Pawe	23,069	12,016	-	-	11,053	-	-
Bulen	27,215	11,550	-	-	15,665	-	-
Asosa Zone	77,157	36,268	-	*	40,851	-	*
Menge	1,463	1,101	-	-	362	-	-
Kurmak	*	*	-	-	-	-	-
Asosa	31,633	15,685	-	*	15,910	-	*
Sherkole	260	224	-	-	*	-	-
Bambasi	24,539	11,422	-	-	13,117	-	-
Oda Godere	8,346	3,323	-	-	5,023	-	-
Komesha	459	205	-	-	254	-	-
Mao Komo Special	10,422	4,273	-	-	6,150	-	-
Kemeshi Zone	33,775	13,055	-	-	20,714	*	-
Yaso	9,871	3,453	-	-	6,418	-	-
Sirba Abay	4,500	1,347	-	-	3,153	-	-
Kamashi	4,874	1,905	-	-	2,968	-	-
Agalo Meti	4,407	1,400	-	-	3,002	*	-
Belo Jegonfoy	10,123	4,950	-	-	5,173	-	-

TABLE 7-19: NUMBER OF GOATS BY SEX AND BREED, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Benshangul-Gumuz Region	200,472	55,014	*	23	145,278	*	103
Metekel Zone	89,119	24,886	*	23	64,097	-	99
Dangur	12,183	3,754	-	-	8,429	-	-
Guba	17,504	3,761	*	23	13,617	-	90
Wenbera	14,787	3,610	-	-	11,178	-	-
Mandura	11,695	3,111	-	-	8,584	-	-
Dibate	15,147	4,690	-	-	10,448	-	*
Pawe	3,312	1,335	-	-	1,977	-	-
Bulen	14,491	4,626	-	-	9,865	-	-
Asosa Zone	73,181	19,944	*	-	53,192	*	*
Menge	19,410	5,156	-	-	14,254	-	-
Kurmak	3,238	845	-	-	2,393	-	-
Asosa	13,140	4,140	-	-	9,000	-	-
Sherkole	9,923	2,178	*	-	7,709	*	-
Bambasi	7,214	2,273	-	-	4,941	-	-
Oda Godere	11,684	2,933	-	-	8,751	-	-
Komesha	5,087	1,525	-	-	3,554	*	*
Mao Komo Special	3,485	893	-	-	2,592	-	-
Kemeshi Zone	38,172	10,183	-	-	27,989	-	-
Yaso	7,131	1,982	-	-	5,150	-	-
Sirba Abay	11,310	2,774	-	-	8,536	-	-
Kamashi	5,982	1,880	-	-	4,102	-	-
Agalo Meti	11,981	3,018	-	-	8,963	-	-
Belo Jegonfoy	1,767	528	-	-	1,238	-	-

b) Rural Holdings

Geographic Area	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Benshangul-Gumuz Region	197,179	53,888	*	23	143,112	*	103
Metekel Zone	86,587	23,972	*	23	62,480	-	99
Dangur	12,118	3,732	-	-	8,386	-	-
Guba	17,009	3,645	*	23	13,238	-	90
Wenbera	14,509	3,502	-	-	11,007	-	-
Mandura	11,598	3,099	-	-	8,500	-	-
Dibate	14,929	4,615	-	-	10,304	-	*
Pawe	2,151	814	-	-	1,336	-	-
Bulen	14,273	4,564	-	-	9,709	-	-
Asosa Zone	72,420	19,733	*	-	52,643	*	*
Menge	19,340	5,148	-	-	14,192	-	-
Kurmak	3,197	836	-	-	2,361	-	-
Asosa	12,693	3,998	-	-	8,695	-	-
Sherkole	9,923	2,178	*	-	7,709	*	-
Bambasi	7,011	2,221	-	-	4,790	-	-
Oda Godere	11,684	2,933	-	-	8,751	-	-
Komesha	5,087	1,525	-	-	3,554	*	*
Mao Komo Special	3,485	893	-	-	2,592	-	-
Kemeshi Zone	38,172	10,183	-	-	27,989	-	-
Yaso	7,131	1,982	-	-	5,150	-	-
Sirba Abay	11,310	2,774	-	-	8,536	-	-
Kamashi	5,982	1,880	-	-	4,102	-	-
Agalo Meti	11,981	3,018	-	-	8,963	-	-
Belo Jegonfoy	1,767	528	-	-	1,238	-	-

c) Urban Holdings

Geographic Area	Total	MALE			FEMALE		
		Indigenous	Hybrid	Exotic	Indigenous	Hybrid	Exotic
Benshangul-Gumuz Region	3,293	1,126	-	-	2,167	-	-
Metekel Zone	2,532	915	-	-	1,618	-	-
Dangur	*	*	-	-	*	-	-
Guba	495	115	-	-	379	-	-
Wenbera	278	107	-	-	171	-	-
Mandura	96	12	-	-	84	-	-
Dibate	218	74	-	-	144	-	-
Pawe	*	*	-	-	*	-	-
Bulen	218	62	-	-	156	-	-
Asosa Zone	761	211	-	-	549	-	-
Menge	70	8	-	-	62	-	-
Kurmak	41	9	-	-	32	-	-
Asosa	*	*	-	-	*	-	-
Bambasi	202	*	-	-	150	-	-

TABLE 7-20: ESTIMATED NUMBER OF LIVESTOCK VACCINATED BY ZONE, AND WEREDA

a) Both Urban Rural Holdings

Geographic Area	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Benshangul-Gumuz Region	100,266	1,476	8,634	1,027	*	6,414
Metekel Zone	61,626	866	373	343	*	1,320
Dangur	5,145	*	*	*	-	*
Guba	468	*	*	-	*	*
Wenbera	1,748	*	-	145	-	-
Mandura	1,998	*	*	-	-	*
Dibate	18,488	-	*	*	-	*
Pawe	24,325	385	76	*	-	*
Bulen	9,454	*	*	*	-	*
Asosa Zone	29,730	503	7,522	543	-	5,094
Menge	*	8	1,256	*	-	*
Kurmak	-	-	969	*	-	-
Asosa	12,573	*	*	*	-	*
Sherkole	-	*	3,492	*	-	*
Bambasi	11,439	*	184	*	-	320
Oda Godere	711	-	*	*	-	-
Komesha	*	*	1,157	*	-	*
Mao Komo Special	4,541	*	-	*	-	-
Kemeshi Zone	8,910	106	739	140	-	-
Yaso	1,236	-	*	*	-	-
Sirba Abay	352	-	*	*	-	-
Kamashi	*	*	208	72	-	-
Agalo Meti	410	*	*	*	-	-
Belo Jegonfoy	6,671	-	*	*	-	-

Note: Draught animals in this and the following tables refer to Horses, Asses, and Mules.

b) Rural Holdings

Geographic Area	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Benshangul-Gumuz Region	87,228	1,342	8,376	1,018	-	5,373
Metekel Zone	51,374	773	352	342	-	1,033
Dangur	4,743	*	*	*	-	*
Guba	422	*	*	-	-	-
Wenbera	1,728	*	-	145	-	-
Mandura	1,926	*	*	-	-	*
Dibate	17,964	-	*	*	-	*
Pawe	16,117	313	*	*	-	*
Bulen	8,474	*	*	*	-	*
Asosa Zone	26,944	462	7,286	536	-	*
Menge	*	-	1,204	*	-	*
Kurmak	-	-	882	*	-	-
Asosa	11,800	*	*	*	-	*
Sherkole	-	*	3,492	*	-	*
Bambasi	9,426	*	*	*	-	*
Oda Godere	711	-	*	*	-	-
Komesha	*	*	1,157	*	-	*
Mao Komo Special	4,541	*	-	*	-	-
Kemeshi Zone	8,910	106	739	140	-	-
Yaso	1,236	-	*	*	-	-
Sirba Abay	352	-	*	*	-	-
Kamashi	241	*	208	72	-	-
Agalo Meti	410	*	*	*	-	-
Belo Jegonfoy	6,671	-	*	*	-	-

c) Urban Holdings

Geographic Area	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Benshangul-Gumuz Region	13,038	134	258	*	*	1,041
Metekel Zone	10,252	*	*	*	*	*
Dangur	402	*	-	-	-	*
Guba	*	-	*	-	*	*
Wenbera	*	*	-	-	-	-
Mandura	72	-	-	-	-	-
Dibate	524	-	-	-	-	-
Pawe	8,208	*	*	*	-	*
Bulen	980	*	*	-	-	*
Asosa Zone	2,786	*	236	*	-	*
Menge	-	8	52	-	-	-
Kurmak	-	-	87	-	-	-
Asosa	*	*	*	*	-	*
Bambasi	2,012	-	*	*	-	*

TABLE 7-21: ESTIMATED NUMBER OF LIVESTOCK AFFLICTED/DISEASED BY ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Benshangul-Gumuz Region	105,653	22,169	110,515	8,112	37	501,874
Metekel Zone	50,298	11,995	28,781	3,070	30	120,911
Dangur	5,125	1,906	6,451	924	-	21,939
Guba	2,071	2,904	9,237	367	20	21,770
Wenbera	6,936	1,554	4,705	1,081	*	18,260
Mandura	3,475	1,353	3,813	372	-	11,637
Dibate	9,825	1,420	1,953	*	-	13,599
Pawe	18,248	1,825	507	105	-	21,222
Bulen	4,618	1,033	2,116	147	-	12,484
Asosa Zone	46,750	6,277	69,981	4,606	-	327,622
Menge	787	710	18,820	1,682	-	61,457
Kurmak	-	*	7,711	184	-	23,085
Asosa	25,973	2,824	11,161	909	-	126,452
Sherkole	*	*	12,597	493	-	25,039
Bambasi	12,510	949	2,867	445	-	27,760
Oda Godere	3,324	680	9,850	407	-	34,097
Komesha	257	*	5,351	331	-	24,774
Mao Komo Special	3,877	508	1,624	155	-	4,959
Kemeshi Zone	8,606	3,896	11,753	436	*	53,341
Yaso	1,970	725	1,042	81	*	5,576
Sirba Abay	918	548	3,089	59	-	4,983
Kamashi	847	593	1,849	155	-	7,644
Agalo Meti	1,770	1,091	4,957	93	-	8,113
Belo Jegonfoy	3,102	941	815	*	-	27,026

b) Rural Holdings

Geographic Area	Cattle	Sheep	Goats	Draught Animals	Camels	Poultry
Benshangul-Gumuz Region	96,743	20,343	109,466	7,960	27	469,094
Metekel Zone	44,151	10,458	28,327	2,953	*	102,291
Dangur	4,709	1,878	6,426	876	-	21,526
Guba	1,791	2,904	8,919	331	*	19,883
Wenbera	6,555	1,336	4,673	1,060	*	17,383
Mandura	3,167	1,221	3,771	372	-	11,396
Dibate	9,621	1,317	1,947	*	-	11,694
Pawe	14,558	902	491	102	-	10,119
Bulen	3,751	900	2,100	144	-	10,291
Asosa Zone	43,986	5,990	69,386	4,570	-	313,461
Menge	783	708	18,732	1,680	-	61,079
Kurmak	-	*	7,596	184	-	22,931
Asosa	25,070	2,571	10,835	889	-	114,895
Sherkole	*	449	12,597	493	-	25,039
Bambasi	10,653	916	2,801	431	-	25,688
Oda Godere	3,324	680	9,850	407	-	34,097
Komesha	257	23	5,351	331	-	24,774
Mao Komo Special	3,877	508	1,624	155	-	4,959
Kemeshi Zone	8,606	3,896	11,753	436	*	53,341
Yaso	1,970	725	1,042	81	*	5,576
Sirba Abay	918	548	3,089	59	-	4,983
Kamashi	847	593	1,849	155	-	7,644
Agalo Meti	1,770	1,091	4,957	93	-	8,113
Belo Jegonfoy	3,102	941	815	*	-	27,026

c) Urban Holdings

Geographic Area	Green Fodder	Crop Residue	Improved Feed	Hay	By-Product	Others
Benshangul-Gumuz Region	5,097	950	*	544	1,601	5,954
Metekel Zone	3,764	606	-	424	1,022	3,913
Dangur	233	19	-	*	32	311
Guba	153	39	-	-	*	172
Wenbera	388	103	-	218	18	375
Mandura	163	24	-	6	-	145
Dibate	262	93	-	*	53	239
Pawe	2,114	*	-	*	*	2,281
Bulen	451	85	-	26	164	390
Asosa Zone	1,333	344	*	120	579	2,041
Menge	29	-	-	-	2	42
Kurmak	16	-	-	-	3	21
Asosa	695	174	*	*	323	1,437
Bambasi	592	170	-	75	251	541

TABLE 7-26: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USESOF MILK BY TYPE OF USE, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	54.98	5.71	0.67	38.67
Metekel Zone	100	52.99	2.06	1.34	43.41
Dangur	100	67.97	-	1.77	30.27
Guba	100	79.56	4.25	0.32	15.88
Wenbera	100	43.43	0.49	0.07	56.03
Mandura	100	34.50	2.46	2.38	60.67
Dibate	100	43.51	0.03	5.00	51.47
Pawe	100	56.66	6.65	0.18	36.51
Bulen	100	45.27	0.58	1.14	53.02
Asosa Zone	100	61.18	28.31	0.01	10.52
Menge	100	78.13	9.82	-	12.05
Kurmak	100	100.00	-	-	-
Asosa	100	55.83	7.66	-	36.52
Sherkole	100	50.00	50.00	-	-
Bambasi	100	36.34	11.13	0.06	52.48
Oda Godere	100	35.34	1.19	-	63.47
Komesha	100	55.21	11.81	-	32.98
Mao Komo Special	100	30.64	0.42	-	68.94
Kemeshi Zone	100	39.11	1.84	0.01	69.05
Yaso	100	23.35	0.17	-	76.48
Sirba Abay	100	49.17	6.05	0.03	44.75
Kamashi	100	29.27	0.36	-	70.37
Agalo Meti	100	63.58	0.13	-	36.29
Belo Jegonfoy	100	30.16	2.47	-	67.37

b) Rural Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	47.61	4.10	0.40	47.82
Metekel Zone	100	50.40	1.13	1.18	47.29
Dangur	100	52.86	-	2.81	44.33
Guba	100	91.62	3.6	0.63	4.14
Wenbera	100	36.38	0.69	0.13	62.81
Mandura	100	35.69	1.47	0.71	62.14
Dibate	100	38.46	0.06	3	58.48
Pawe	100	51.69	1.52	0.27	46.51
Bulen	100	46.12	0.59	0.71	52.59
Asosa Zone	100	53.32	9.55	0.01	37.12
Menge	100	78.13	9.82	-	12.05
Kurmak	100	100	-	-	-
Asosa	100	50.29	2.45	-	47.26
Sherkole	100	50	50	-	-
Bambasi	100	26.95	0.69	0.11	72.25
Oda Godere	100	35.34	1.19	-	63.47
Komesha	100	55.21	11.81	-	32.98
Mao Komo Special	100	30.64	0.42	-	68.94
Kemeshi Zone	100	39.11	1.84	-	59.05
Yaso	100	23.35	0.17	-	76.48
Sirba Abay	100	49.17	6.05	0.03	44.75
Kamashi	100	29.27	0.36	-	70.37
Agalo Meti	100	63.58	0.13	-	36.29
Belo Jegonfoy	100	30.16	2.47	-	67.37

c) Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	62.35	7.24	0.93	29.51
Metekel Zone	100	55.57	2.99	1.91	39.52
Dangur	100	83.07	-	0.72	16.21
Guba	100	67.5	4.9	-	27.61
Wenbera	100	50.48	0.29	-	49.24
Mandura	100	33.31	3.44	4.04	59.2
Dibate	100	48.56	-	6.99	44.45
Pawe	100	61.63	11.77	0.08	26.51
Bulen	100	44.42	0.56	1.57	53.45
Asosa Zone	100	69.03	11.48	-	19.50
Kurmak	100	100	-	-	-
Asosa	100	61.36	12.86	-	25.78
Bambasi	100	45.72	21.57	-	32.71

TABLE 7-27: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES OF BUTTER BY TYPE OF USE, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	69.20	27.90	0.10	2.81
Metekel Zone	100	69.83	27.37	0.19	2.61
Dangur	100	78.78	19.36	0.26	1.61
Guba	100	81.76	18.25	-	-
Wenbera	100	76.64	21.57	0.02	1.79
Mandura	100	56.09	43.09	0.73	0.10
Dibate	100	66.43	31.96	0.10	1.52
Pawe	100	68.13	21.94	-	9.94
Bulen	100	60.99	35.40	0.31	3.32
Asosa Zone	100	72.47	25.22	0.06	2.28
Menge	100	62.13	36.27	-	1.59
Kurmak	-	-	-	-	-
Asosa	100	74.82	21.25	0.02	3.91
Sherkole	-	-	-	-	-
Bambasi	100	69.10	30.24	0.02	0.65
Oda Godere	100	53.70	42.05	-	4.25
Komesha	100	59.10	34.52	-	6.37
Mao Komo Special	100	52.82	45.22	0.47	1.50
Kemeshi Zone	100	44.93	50.50	-	4.57
Yaso	100	40.44	56.20	-	3.36
Sirba Abay	100	37.27	58.51	-	4.22
Kamashi	100	52.86	41.92	-	5.22
Agalo Meti	100	47.03	46.04	-	6.93
Belo Jegonfoy	100	47.04	49.84	-	3.12

b) Rural Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	52.73	44.05	0.12	3.10
Metekel Zone	100	56.82	41.61	0.28	1.28
Dangur	100	72	26.32	0.52	1.15
Guba	100	77.13	22.87	-	-
Wenbera	100	60.49	37.59	0.04	1.88
Mandura	100	33	66.17	0.63	0.2
Dibate	100	48.32	49.26	0.19	2.23
Pawe	100	60.34	38.86	-	0.8
Bulen	100	46.46	50.21	0.61	2.72
Asosa Zone	100	56.43	40.05	0.09	3.44
Menge	100	62.13	36.27	-	1.59
Asosa	100	58.56	35.76	0.04	5.63
Bambasi	100	52.27	46.45	-	1.27
Oda Godere	100	53.7	42.05	-	4.25
Komesha	100	59.1	34.52	-	6.37
Mao Komo Special	100	52.82	45 22	0.47	1.5
Kemeshi Zone	100	44.93	50.50	-	4.57
Yaso	100	40.44	56.2	-	3.36
Sirba Abay	100	37.27	58.51	-	4.22
Kamashi	100	52.86	41.92	-	5.22
Agalo Meti	100	47.03	46.04	-	6.93
Belo Jegonfoy	100	47.04	49.84	-	3.12

c) Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	85.67	11.75	0.07	2.52
Metekel Zone	100	82.83	13.12	0.12	3.93
Dangur	100	85.55	12.39	-	2.06
Guba	100	86.38	13.62	-	-
Wenbera	100	92.78	5.54	-	1.69
Mandura	100	79.17	20	0.83	-
Dibate	100	84.53	14.66	-	0.81
Pawe	100	75.91	5.02	-	19.07
Bulen	100	75.51	20.58	-	3.91
Asosa Zone	100	88.50	10.38	0.02	1.11
Asosa	100	91.07	6.74	-	2.19
Bambasi	100	85.92	14.02	0.03	0.03

TABLE 7-28: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES OF CHEESE BY TYPE OF USE, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	93.90	0.70	0.09	5.45
Metekel Zone	100	68.59	0.06	0.04	1.32
Dangur	100	99.41	-	-	0.60
Guba	100	100.00	-	-	-
Wenbera	100	97.42	0.06	0.05	2.48
Mandura	100	99.70	-	-	0.30
Dibate	100	94.82	-	0.21	4.97
Pawe	100	99.04	0.35	-	0.62
Bulen	100	99.72	-	-	0.28
Asosa Zone	100	91.40	1.44	1.00	7.33
Menge	100	84.23	5.66	-	10.11
Kurmak	-	-	-	-	-
Asosa	100	91.54	0.45	0.03	8.00
Sherkole	-	-	-	-	-
Bambasi	100	95.72	0.48	0.11	3.71
Oda Godere	100	83.21	1.21	0.35	15.23
Komesha	100	91.32	4.37	-	4.30
Mao Komo Special	100	95.24	0.04	-	4.72
Kemeshi Zone	100	88.03	0.79	0.17	11.01
Yaso	100	90.90	0.19	-	8.92
Sirba Abay	100	88.24	2.09	0.66	9.01
Kamashi	100	89.15	1.23	0.20	9.42
Agalo Meti	100	83.52	0.33	-	16.15
Belo Jegonfoy	100	88.35	0.09	-	11.57

b) Rural Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	92.38	1.00	0.10	6.52
Metekel Zone	100	98.39	0.10	0.07	1.44
Dangur	100	98.81	-	-	1.19
Guba	100	100	-	-	-
Wenbera	100	97.11	0.12	0.1	2.67
Mandura	100	99.4	-	-	0.6
Dibate	100	95.52	-	0.42	4.06
Pawe	100	98.31	0.59	-	1.1
Bulen	100	99.56	-	-	0.44
Asosa Zone	100	90.73	2.10	0.06	7.11
Menge	100	84.23	5.66	-	10.11
Asosa	100	96.64	0.89	-	2.47
Bambasi	100	93.76	0.4	-	5.85
Oda Godere	100	83.21	1.21	0.35	15.23
Komesha	100	91.32	4.37	-	4.3
Mao Komo Special	100	95.24	0.04	-	4.72
Kemeshi Zone	100	88.03	0.79	0.17	11.01
Yaso	100	90.9	0.19	-	8.92
Sirba Abay	100	88.24	2.09	0.66	9.01
Kamashi	100	89.15	1.23	0.2	9.42
Agalo Meti	100	83.52	0.33	-	16.15
Belo Jegonfoy	100	88.35	0.09	-	11.57

c) Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Houschold Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	95.42	0.40	0.07	4.37
Metekel Zone	100	98.78	0.01	-	1.20
Dangur	100	100	-	-	-
Guba	100	100	-	-	-
Wenbera	100	97.72	-	-	2.28
Mandura	100	100	-	-	-
Dibate	100	94.12	-	-	5.88
Pawe	100	99.76	0.1	-	0.14
Bulen	100	99.88	-	-	0.12
Asosa Zone	100	92.06	0.78	0.13	7.54
Asosa	100	86.43	-	0.05	13.52
Bambasi	100	97.68	0.55	0.21	1.56

TABLE 7-29: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES OF BEEF BY TYPE OF USE, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	24.47	69.46	1.83	4.26
Metekel Zone	100	28.27	63.13	0.13	8.48
Dangur	100	33.71	57.96	-	8.34
Guba	100	39.63	49.79	-	10.59
Wenbera	100	23.74	62.04	-	14.23
Mandura	100	31.34	48.96	0.11	19.59
Dibate	100	28.31	56.12	0.86	14.73
Pawe	100	15.87	84.14	-	-
Bulen	100	32.91	63.46	-	3.64
Asosa Zone	100	21.11	71.34	5.35	2.21
Menge	100	22.39	75.32	-	2.29
Kurmak	-	-	-	-	-
Asosa	100	18.18	78.50	-	3.32
Sherkole	100	0.00	25.07	74.93	-
Bambasi	100	17.37	77.04	-	5.60
Oda Godere	100	15.49	84.20	-	0.31
Komesha	100	49.80	47.66	-	2.53
Mao Komo Special	100	84.30	7.71	-	7.99
Kemeshi Zone	100	28.84	68.67	-	2.49
Yaso	100	24.49	73.66	-	1.85
Sirba Abay	100	29.77	59.64	-	10.59
Kamashi	100	50.00	50.00	-	-
Agalo Meti	100	29.95	70.05	-	-
Belo Jegonfoy	100	10.00	90.00	-	-

b) Rural Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	29.75	59.75	3.65	6.84
Metekel Zone	100	28.67	57.45	0.26	13.62
Dangur	100	9.08	90.92	-	-
Guba	100	39.63	49.79	-	10.59
Wenbera	100	37.51	34.03	-	28.45
Mandura	100	31.34	48.96	0.11	19.59
Dibate	100	42.53	26.31	1.71	29.45
Pawe	100	21.65	78.35	-	-
Bulen	100	18.93	73.79	-	7.28
Asosa Zone	100	31.73	53.14	10.70	4.42
Menge	100	22.39	75.32	-	2.29
Asosa	100	21.38	71.97	-	6.64
Sherkole	100	-	25.07	74.93	-
Bambasi	100	28.76	60.05	-	11.2
Oda Godere	100	15.49	84.2	-	0.31
Komesha	100	49.8	47.66	-	2.53
Mao Komo Special	100	84.3	7.71	-	7.99
Kemeshi Zone	100	28.84	68.67	-	2.49
Yaso	100	24.49	73.66	-	1.85
Sirba Abay	100	29.77	59.64	-	10.59
Kamashi	100	50	50	-	-
Agalo Meti	100	29.95	70.05	-	-
Belo Jegonfoy	100	10	90	-	-

c) Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	19.18	79.16	-	1.67
Metekel Zone	100	27.87	68.80	-	3.33
Dangur	100	58.33	25	-	16.67
Wenbera	100	9.96	90.04	-	-
Dibate	100	14.08	85.92	-	-
Pawe	100	10.08	89.92	-	-
Bulen	100	46.88	53.12	-	-
Asosa Zone	100	10.48	89.53	-	-
Asosa	100	14.98	85.02	-	-
Bambasi	100	5.97	94.03	-	-

TABLE 7-30: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES OF GOAT MEAT/MUTTON BY TYPE OF USE, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	74.92	17.70	0.08	9.29
Metekel Zone	100	77.46	10.19	0.10	12.25
Dangur	100	68.91	7.48	0.16	23.47
Guba	100	73.08	14.29	0.04	12.61
Wenbera	100	70.00	19.56	-	10.44
Mandura	100	90.70	5.87	-	3.44
Dibate	100	65.41	5.59	0.40	28.60
Pawe	100	94.19	1.98	-	3.84
Bulen	100	79.93	16.59	0.09	3.40
Asosa Zone	100	70.27	21.95	0.07	7.70
Menge	100	52.07	40.62	0.03	7.28
Kurmak	100	74.76	16.06	-	9.19
Asosa	100	70.95	17.87	0.06	11.13
Sherkole	100	46.72	45.96	0.52	6.79
Bambasi	100	90.95	5.63	0.10	3.34
Oda Godere	100	43.78	46.90	-	9.32
Komesha	100	69.34	26.05	0.18	4.43
Mao Komo Special	100	64.73	33.53	-	1.74
Kemeshi Zone	100	75.27	20.73	0.13	3.87
Yaso	100	70.84	23.96	-	5.21
Sirba Abay	100	63.57	29.42	0.58	6.43
Kamashi	100	69.59	29.25	-	1.16
Agalo Meti	100	81.42	17.16	0.07	1.34
Belo Jegonfoy	100	90.94	3.86	-	5.20

b) Rural Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	71.05	22.19	0.15	6.61
Metekel Zone	100	72.20	17.78	0.19	9.82
Dangur	100	71.21	14.95	0.31	13.5
Guba	100	57.76	28.57	0.07	13.6
Wenbera	100	66.81	24.22	-	8.97
Mandura	100	81.39	11.74	-	6.87
Dibate	100	79.86	8.01	0.8	11.33
Pawe	100	88.53	3.8	-	7.68
Bulen	100	59.86	33.18	0.17	6.79
Asosa Zone	100	65.67	28.07	0.13	6.14
Menge	100	52.07	40.62	0.03	7.28
Kurmak	100	79.52	12.11	-	8.37
Asosa	100	87.29	8.1	0.12	4.49
Sherkole	100	46.72	45.96	0.52	6.79
Bambasi	100	81.89	11.25	0.2	6.67
Oda Godere	100	43.78	46.9	-	9.32
Komesha	100	69.34	26.05	0.18	4.43
Mao Komo Special	100	64.73	33.53	-	1.74
Kemeshi Zone	100	75.27	20.73	0.13	3.87
Yaso	100	70.84	23.96	-	5.21
Sirba Abay	100	63.57	29.42	0.58	6.43
Kamashi	100	69.59	29.25	-	1.16
Agalo Meti	100	81.42	17.16	0.07	1.34
Belo Jegonfoy	100	90.94	3.86	-	5.2

c) Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	78.79	9.20	-	11.97
Metekel Zone	100	82.71	2.60	-	14.68
Dangur	100	66.6	-	-	33.4
Guba	100	88.39	-	-	11.61
Wenbera	100	73.19	14.89	-	11.91
Mandura	100	100	-	-	-
Dibate	100	50.96	3.17	-	45.87
Pawe	100	99.85	0.15	-	-
Bulen	100	100	-	-	-
Asosa Zone	100	74.87	15.88	-	9.25
Kurmak	100	70	20	-	10
Asosa	100	54.6	27.64	-	17.76
Bambasi	100	100	-	-	-

TABLE 7-31: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES OF EGGS BY TYPE OF USE, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	33.61	10.80	0.04	55.56
Metekel Zone	100	33.70	8.86	0.04	57.37
Dangur	100	22.91	9.56	-	67.54
Guba	100	48.75	6.08	0.15	45.03
Wenbera	100	38.16	4.98	-	56.87
Mandura	100	28.43	12.28	0.08	59.21
Dibate	100	27.26	13.60	0.10	59.06
Pawe	100	34.21	9.30	0.08	56.42
Bulen	100	36.20	6.32	0.02	57.47
Asosa Zone	100	36.14	13.91	0.03	49.94
Menge	100	46.33	6.95	0.01	46.71
Kurmak	100	38.02	16.59	-	45.40
Asosa	100	29.75	18.45	0.02	51.79
Sherkole	100	11.43	2.40	0.04	86.13
Bambasi	100	32.37	23.27	0.04	44.34
Oda Godere	100	11.11	6.67	0.19	82.04
Komesha	100	25.56	24.99	-	49.45
Mao Komo Special	100	20.10	23.88	-	56.02
Kemeshi Zone	100	14.78	11.40	0.07	73.75
Yaso	100	14.07	9.00	-	76.92
Sirba Abay	100	4.24	3.79	0.17	91.80
Kamashi	100	11.88	9.51	0.16	78.44
Agalo Meti	100	16.61	11.91	-	71.48
Belo Jegonfoy	100	27.09	22.80	-	50.12

b) Rural Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	20.03	13.78	0.07	66.11
Metekel Zone	100	27.31	10.64	0.08	61.93
Dangur	100	20.7	3.67	-	75.64
Guba	100	26.33	3.14	0.3	70.24
Wenbera	100	37.76	3.47	-	58.77
Mandura	100	33.86	22.28	0.16	43.70
Dibate	100	17.09	16.18	0.2	66.53
Pawe	100	31.68	17.32	0.15	50.85
Bulen	100	23.77	8.45	0.03	67.75
Asosa Zone	100	18.01	19.29	0.05	62.66
Menge	100	15.56	10.99	0.02	73.43
Kurmak	100	23.78	26.92	-	49.30
Asosa	100	20.34	33.25	0.04	46.37
Sherkole	100	11.43	2.4	0.04	86.13
Bambasi	100	16.21	25.19	0.07	58.54
Oda Godere	100	11.11	6.67	0.19	82.04
Komesha	100	25.56	24.99	-	49.45
Mao Komo Special	100	20.1	23.88	-	56.02
Kemeshi Zone	100	14.78	11.40	0.07	73.75
Yaso	100	14.07	9	-	76.92
Sirba Abay	100	4.24	3.79	0.17	91.80
Kamashi	100	11.88	9.51	0.16	78.44
Agalo Meti	100	16.61	11.91	-	71.48
Belo Jegonfoy	100	27.09	22.8	-	50.12

c) Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	47.18	7.82	-	45.01
Metekel Zone	100	40.09	7.10	-	52.81
Dangur	100	25.11	15.45	-	59.44
Guba	100	71.17	9.01	-	19.82
Wenbera	100	38.56	6.48	-	54.96
Mandura	100	23	2.28	-	74.72
Dibate	100	37.42	11.01	-	51.58
Pawe	100	36.73	1.28	-	61.99
Bulen	100	48.62	4.19	-	47.18
Asosa Zone	100	54.26	8.83	-	37.21
Menge	100	77.1	2.91	-	19.99
Kurmak	100	52.25	6.25	-	41.5
Asosa	100	39.16	3.64	-	57.21
Bambasi	100	48.52	21.34	-	30.13

TABLE 7-32: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES OF HONEY BY TYPE OF USE, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	33..89	59.71	0.11	6.30
Metekel Zone	100	26.96	66.18	0.21	6.66
Dangur	100	14.01	55.75	1.17	29.08
Guba	100	22.51	75.91	-	1.57
Wenbera	100	48.48	51.17	-	0.37
Mandura	100	11.03	87.08	-	1.89
Dibate	100	34.88	63.67	0.05	1.41
Pawe	100	21.08	78.17	0.21	0.55
Bulen	100	32.74	60.24	0.03	7.01
Asosa Zone	100	43.29	48.95	0.11	7.66
Menge	100	73.80	22.83	-	3.37
Kurmak	100	83.34	16.67	-	-
Asosa	100	29.05	69.12	-	1.83
Sherkole	100	-	-	-	100.00
Bambasi	100	32.82	65.63	0.34	1.23
Oda Godere	100	14.61	84.85	-	0.55
Komesha	100	24.24	68.70	0.98	6.08
Mao Komo Special	100	22.77	75.16	-	2.07
Kemeshi Zone	100	20.93	75.92	0.03	3.12
Yaso	100	15.36	82.20	0.13	2.32
Sirba Abay	100	16.12	81.33	-	2.55
Kamashi	100	24.31	73.12	-	2.57
Agalo Meti	100	36.80	55.79	-	7.40
Belo Jegonfoy	100	12.06	87.18	-	0.76

b) Rural Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	25.88	67.33	0.22	6.58
Metekel Zone	100	23.48	73.92	0.41	2.19
Dangur	100	13.59	82.12	2.33	1.96
Guba	100	22.51	75.91	-	1.57
Wenbera	100	38.24	61.04	-	0.73
Mandura	100	17.08	79.14	-	3.78
Dibate	100	18.53	78.56	0.1	2.82
Pawe	100	37.62	60.87	0.42	1.09
Bulen	100	16.77	79.8	0.05	3.38
Asosa Zone	100	32.22	52.14	0.21	14.44
Menge	100	73.8	22.83	-	3.37
Kurmak	100	66.67	33.33	-	-
Asosa	100	34.52	64.45	-	1.03
Sherkole	100	-	-	-	100
Bambasi	100	29.12	67.76	0.67	2.45
Oda Godere	100	14.61	84.85	-	0.55
Komesha	100	24.24	68.7	0.98	6.08
Mao Komo Special	100	22.77	75.16	-	2.07
Kemeshi Zone	100	20.93	75.92	0.03	3.12
Yaso	100	15.36	82.2	0.13	2.32
Sirba Abay	100	16.12	81.33	-	2.55
Kamashi	100	24.31	73.12	-	2.57
Agalo Meti	100	36.8	55.79	-	7.4
Belo Jegonfoy	100	12.06	87.18	-	0.76

c) Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	41.90	52.10	-	6.01
Metekel Zone	100	30.43	58.43	-	11.14
Dangur	100	14.43	29.37	-	56.19
Wenbera	100	58.71	41.29	-	-
Mandura	100	4.98	95.02	-	-
Dibate	100	51.23	48.77	-	-
Pawe	100	4.53	95.47	-	-
Bulen	100	48.7	40.68	-	10.63
Asosa Zone	100	53.36	45.76	-	0.88
Kurmak	100	100	-	-	-
Asosa	100	23.58	73.79	-	2.63
Bambasi	100	36.51	63.49	-	-

TABLE 7-33: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES OF BEES WAX BY TYPE OF USE, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	36.33	24.26	0.04	39.39
Metekel Zone	100	14.10	26.91	0.11	58.88
Dangur	100	21.29	-	1.57	77.14
Guba	100	-	100.00	-	-
Wenbera	100	46.74	2.48	-	50.79
Mandura	100	1.08	98.92	-	-
Dibate	100	19.91	80.09	-	-
Pawe	100	56.83	-	-	43.17
Bulen	100	4.82	92.82	-	2.37
Asosa Zone	100	60.73	16.68	-	22.60
Menge	-	-	-	-	-
Kurmak	100	100.00	-	-	-
Asosa	100	32.28	14.61	-	53.12
Sherkole	-	-	-	-	-
Bambasi	100	68.68	13.68	-	17.65
Oda Godere	100	16.20	83.80	-	-
Komesha	100	-	7.62	-	92.38
Mao Komo Special	-	-	-	-	-
Kemeshi Zone	100	18.28	58.35	-	23.36
Yaso	100	6.28	72.21	-	21.51
Sirba Abay	100	74.23	7.72	-	18.05
Kamashi	100	-	100.00	-	-
Agalo Meti	100	10.91	41.60	-	47.49
Belo Jegonfoy	100	-	70.23	-	29.77

b) Rural Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	22.65	48.51	0.07	28.77
Metekel Zone	100	28.20	53.82	0.22	17.75
Dangur	100	21.29	-	1.57	77.14
Guba	100	-	100	-	-
Wenbera	100	93.48	4.95	-	1.58
Mandura	100	1.08	98.92	-	-
Dibate	100	19.91	80.09	-	-
Pawe	100	56.83	-	-	43.17
Bulen	100	4.82	92.82	-	2.37
Asosa Zone	100	21.46	33.35	-	45.20
Asosa	100	32.28	14.61	-	53.12
Bambasi	100	37.35	27.35	-	35.3
Oda Godere	100	16.2	83.8	-	-
Komesha	100	-	7.62	-	92.38
Kemeshi Zone	100	18.28	58.35	-	23.36
Yaso	100	6.28	72.21	-	21.51
Sirba Abay	100	74.23	7.72	-	18.05
Kamashi	100	-	100	-	-
Agalo Meti	100	10.91	41.6	-	47.49
Belo Jegonfoy	100	-	70.23	-	29.77

c) Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR: Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	50.00	-	-	50.00
Metekel Zone	100	-	-	-	100
Wenbera	100	-	-	-	100
Asosa Zone	100	100	-	-	-
Kurmak	100	100	-	-	-
Bambasi	100	100	-	-	-

TABLE 7-34: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES OF WOOL BY TYPE OF USE, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR: Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	26.30	65.37	-	8.34
Metekel Zone	100	16.67	83.19	-	-
Dangur	100	100.00	-	-	-
Guba	-	-	-	-	-
Wenbera	-	-	-	-	-
Mandura	-	-	-	-	-
Dibate	100	-	100.00	-	-
Pawe	-	-	-	-	-
Bulen	100	-	100.00	-	-
Asosa Zone	100	74.45	25.55	-	-
Menge	-	-	-	-	-
Kurmak	-	-	-	-	-
Asosa	100	72.79	27.21	-	-
Sherkole	100	100.00	-	-	-
Bambasi	100	25.02	74.98	-	-
Oda Godere	-	-	-	-	-
Komesha	-	-	-	-	-
Mao Komo Special	100	100.00	-	-	-
Kemeshi Zone	100	50.00	-	-	50.00
Yaso	-	-	-	-	-
Sirba Abay	100	-	-	-	100.00
Kamashi	100	100.00	-	-	-
Agalo Meti	-	-	-	-	-
Belo Jegonfoy	-	-	-	-	-

b) Rural Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	52.59	30.74	-	16.67
Metekel Zone	100	33.33	66.67	-	-
Dangur	100	100	-	-	-
Dibate	100	-	100	-	-
Bulen	100	-	100	-	-
Asosa Zone	100	74.45	25.55	-	-
Asosa	100	72.79	27.21	-	-
Sherkole	100	100	-	-	-
Bambasi	100	25.02	74.98	-	-
Mao Komo Special	100	100	-	-	-
Kemeshi Zone	100	50.00	-	-	50.00
Sirba Abay	100	-	-	-	100
Kamashi	100	100	-	-	-

c) Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	-	100	-	-
Metekel Zone	100	-	100	-	-
Dibate	100	-	100	-	-
Pawe	-	-	-	-	-
Bulen	-	-	-	-	-

Library

TABLE 7-35: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES OF HIDES BY TYPE OF USE, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	34.98	61.88	0.11	3.00
Metekel Zone	100	18.77	78.68	0.26	2.61
Dangur	100	27.11	72.90	-	-
Guba	100	21.24	74.12	-	4.64
Wenbera	100	39.67	57.45	-	2.89
Mandura	100	20.88	73.55	-	5.57
Dibate	100	24.19	69.16	1.83	4.83
Pawe	100	3.34	96.67	-	-
Bulen	100	4.80	92.42	-	2.78
Asosa Zone	100	49.26	46.11	0.09	4.52
Menge	100	38.15	13.95	-	47.90
Kurmak	100	50.00	50.00	-	-
Asosa	100	57.44	40.86	0.52	1.18
Sherkole	100	22.83	75.07	0.42	1.68
Bambasi	100	77.73	21.93	-	0.34
Oda Godere	100	70.38	23.94	-	5.68
Komesha	100	15.80	70.18	-	14.03
Mao Komo Special	100	72.88	27.12	-	-
Kemeshi Zone	100	48.42	47.05	-	4.56
Yaso	100	24.44	75.20	-	0.36
Sirba Abay	100	85.18	6.16	-	8.66
Kamashi	100	50.00	50.00	-	-
Agalo Meti	100	71.25	15.19	-	13.56
Belo Jegonfoy	100	11.26	88.74	-	-

b) Rural Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	44.55	49.21	0.24	6.01
Metekel Zone	100	26.25	68.76	0.52	5.22
Dangur	100	54.21	45.79	-	-
Guba	100	21.24	74.12	-	4.64
Wenbera	100	63.04	31.18	-	5.78
Mandura	100	20.88	73.55	-	5.57
Dibate	100	8.17	78.52	3.67	9.65
Pawe	100	6.67	93.33	-	-
Bulen	100	9.59	84.84	-	5.57
Asosa Zone	100	58.95	31.81	0.18	9.04
Menge	100	38.15	13.95	-	47.9
Kurmak	100	100	-	-	-
Asosa	100	68.4	28.18	1.04	2.37
Sherkole	100	22.83	75.07	0.42	1.68
Bambasi	100	83.21	16.11	-	0.68
Oda Godere	100	70.38	23.94	-	5.68
Komesha	100	15.8	70.18	-	14.03
Mao Komo Special	100	72.88	27.12	-	-
Kemeshi Zone	100	48.42	47.05	-	4.56
Yaso	100	24.44	75.2	-	0.36
Sirba Abay	100	85.18	6.16	-	8.66
Kamashi	100	50	50	-	-
Agalo Meti	100	71.25	15.19	-	13.56
Belo Jegonfoy	100	11.26	88.74	-	-

c) Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	25.43	74.56	-	-
Metekel Zone	100	11.29	88.70	-	-
Dangur	100	-	100	-	-
Wenbera	100	16.29	83.71	-	-
Dibate	100	40.2	59.8	-	-
Pawe	100	-	100	-	-
Bulen	100	-	100	-	-
Asosa Zone	100	39.57	60.42	-	-
Kurmak	100	-	100	-	-
Asosa	100	46.47	53.53	-	-
Bambasi	100	72.25	27.75	-	-

TABLE 7-36: LIVESTOCK PRODUCT UTILIZATION - PERCENTAGE OF USES OF SKIN BY TYPE OF USE, ZONE, AND WEREDA

a) Both Rural and Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	25.37	64.79	0.02	9.82
Metekel Zone	100	9.55	77.49	0.06	12.91
Dangur	100	4.21	95.79	-	-
Guba	100	18.80	79.39	-	1.81
Wenbera	100	20.09	25.70	0.22	53.99
Mandura	100	2.54	80.80	-	16.67
Dibate	100	19.71	79.99	-	0.30
Pawe	100	7.10	85.73	-	7.18
Bulen	100	1.60	98.07	0.19	0.15
Asosa Zone	100	35.50	58.69	0.04	5.79
Menge	100	45.75	17.02	-	37.23
Kurmak	100	70.63	10.32	-	19.05
Asosa	100	42.84	56.44	-	0.73
Sherkole	100	96.47	0.41	-	3.12
Bambasi	100	36.33	60.27	-	3.41
Oda Godere	100	78.67	14.08	0.30	6.94
Komesha	100	34.60	56.76	-	8.64
Mao Komo Special	100	83.49	7.08	-	9.42
Kemeshi Zone	100	59.91	29.70	-	10.39
Yaso	100	39.04	60.96	-	-
Sirba Abay	100	85.64	4.21	-	10.15
Kamashi	100	81.66	18.34	-	-
Agalo Meti	100	66.19	0.67	-	33.14
Belo Jegonfoy	100	27.02	64.32	-	8.66

b) Rural Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	48.52	42.91	0.05	8.52
Metekel Zone	100	14.66	81.65	0.12	3.58
Dangur	100	8.43	91.57	-	-
Guba	100	18.8	79.39	-	1.81
Wenbera	100	40.18	51.4	0.44	7.98
Mandura	100	5.07	94.93	-	-
Dibate	100	12.75	86.65	-	0.6
Pawe	100	14.2	71.45	-	14.35
Bulen	100	3.19	96.14	0.38	0.29
Asosa Zone	100	70.99	17.38	0.04	11.58
Menge	100	45.75	17.02	-	37.23
Kurmak	100	70.63	10.32	-	19.05
Asosa	100	85.68	12.87	-	1.45
Sherkole	100	96.47	0.41	-	3.12
Bambasi	100	72.66	20.53	-	6.81
Oda Godere	100	78.67	14.08	0.3	6.94
Komesha	100	34.6	56.76	-	8.64
Mao Komo Special	100	83.49	7.08	-	9.42
Kemeshi Zone	100	59.91	29.70	-	10.39
Yaso	100	39.04	60.96	-	-
Sirba Abay	100	85.64	4.21	-	10.15
Kamashi	100	81.66	18.34	-	-
Agalo Meti	100	66.19	0.67	-	33.14
Belo Jegonfoy	100	27.02	64.32	-	8.66

c) Urban Holdings

Geographic Area	Total (%)	PERCENT UTILIZED FOR:			
		Household Consumption	Sale	Wages in Kind	Other
Benshangul-Gumuz Region	100	2.22	86.67	-	11.11
Metekel Zone	100	4.45	73.33	-	22.22
Dangur	100	-	100	-	-
Wenbera	100	-	-	-	100
Mandura	100	-	66.67	-	33.33
Dibate	100	26.67	73.33	-	-
Pawe	100	-	100	-	-
Bulen	100	-	100	-	-
Asosa Zone	100	-	100	-	-
Asosa	100	-	100	-	-
Bambasi	100	-	100	-	-

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

Annex Tables 7.1 – 7.10

Annex Table 7.1- Estimates of Livestock, Standard Errors and Coefficients of Variation by Type, Zone, and Wereda

Geographic Area	CATTLE			SHEEP			GOATS		
	Number	SE	CV	Number	SE	CV	Number	SE	CV
Benshangul-Gumuz Region	309,627	10,578	3	58,767	2,937	5	200,470	6,768	3
Metekel Zone.....	193,914	8,835	5	36,695	2,714	7	89,119	5,340	6
Dangur.....	11,540	2,416	21	3,928	690	18	12,183	1,772	15
Guba.....	8,464	1,486	18	4,199	776	18	17,504	1,794	10
Wenbera.....	43,194	4,548	11	9,054	1,056	12	14,787	3,094	21
Mandura.....	11,008	1,261	11	3,548	335	9	11,695	824	7
Dibate.....	57,395	4,450	8	6,045	767	13	15,147	2,454	16
Pawe.....	31,801	4,345	14	5,794	2041	35	3,312	754	23
Bulen.....	30,511	3,010	10	4,127	551	13	14,491	2,306	16
Asosa Zone.....	81,939	5,372	7	10,231	895	9	73,181	3,634	5
Menge.....	1,486	283	19	1,791	447	25	19,410	1,811	9
Kurmak.....	35	19	54	2	-	-	3,238	325	10
Asosa.....	33,314	3,584	11	3,699	550	15	13,140	2,101	16
Sherkole.....	260	94	36	579	239	41	9,923	1,009	10
Bambasi.....	27,618	3,404	12	1,774	352	20	7,214	822	11
Oda Godere.....	8,346	1,549	19	956	249	26	11,684	1,770	15
Komesha.....	459	200	44	59	27	46	5,087	590	12
Mao Komo Special.....	10,422	1,375	13	1,371	236	17	3,485	477	14
Kemeshi Zone	33,775	2,235	7	11,844	676	6	38,172	2,023	5
Yaso.....	9,871	587	6	2,680	234	9	7,131	476	7
Sirba Abay.....	4,500	1,615	36	1,730	421	24	11,310	1,774	16
Kamashi.....	4,874	827	17	2,298	258	11	5,982	501	8
Agalo Meti.....	4,407	922	21	1,584	159	10	11,981	637	5
Belo Jegonfoy.....	10,123	711	7	3,551	365	10	1,767	244	14

cont'd

Geographic Area	HORSES			ASSES			MULES			CAMELS		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Benshangul-Gumuz Region	559	171	31	30,952	1,199	4	1,394	140	10	15	7	49
Metekel Zone.....	530	170	32	13,926	746	5	660	97	15	15	7	49
Dangur.....	-	-	-	2,020	430	21	74	37	50	-	-	-
Guba.....	-	-	-	1,375	162	12	74	20	27	15	7	49
Wenbera.....	530	170	32	4,655	391	8	333	71	21	-	-	-
Mandura.....	-	-	-	1,106	133	12	45	20	44	-	-	-
Dibate.....	-	-	-	2,385	298	13	114	44	38	-	-	-
Pawe.....	-	-	-	500	126	25	3	3	93	-	-	-
Bulen.....	-	-	-	1,884	265	14	17	17	101	-	-	-
Asosa Zone.....	29	22	76	14,089	918	7	499	91	18	-	-	-
Menge.....	-	-	-	3,970	477	12	117	34	29	-	-	-
Kurmak.....	-	-	-	360	62	17	-	-	-	-	-	-
Asosa.....	-	-	-	2,601	617	24	133	59	44	-	-	-
Sherkole.....	-	-	-	1,710	257	15	-	-	-	-	-	-
Bambasi.....	-	-	-	2,327	309	13	92	36	39	-	-	-
Oda Godere.....	-	-	-	1,253	166	13	35	24	69	-	-	-
Komesha.....	-	-	-	873	125	14	42	29	68	-	-	-
Mao Komo Special.....	29	22	76	993	160	16	80	30	38	-	-	-
Kemeshi Zone	-	-	-	2,937	197	7	235	43	18	-	-	-
Yaso.....	-	-	-	576	74	13	40	12	30	-	-	-
Sirba Abay.....	-	-	-	517	87	17	62	23	38	-	-	-
Kamashi.....	-	-	-	672	102	15	59	18	30	-	-	-
Agalo Meti.....	-	-	-	585	91	16	25	16	63	-	-	-
Belo Jegonfoy.....	-	-	-	587	84	14	49	25	50	-	-	-

Annex Table 7.2- Estimates of Cattle, Standard Errors and Coefficients of Variation by Age group, Zone, and Wereda

Male Cattle

Geographic Area	<6MONTHS			6MONTHS -<1YEAR			1-<3YEARS			3-<10YEARS			10YEARS & OLDER		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Benshangul-Gumuz Region	15,513	765	5	15,299	747	5	27,173	1,281	5	75,211	2,683	4	2,313	309	13
Metekel Zone.....	9,487	582	6	9,924	623	6	16,740	1043	6	46,317	2,292	5	1,952	287	15
Dangur.....	443	133	30	509	145	28	1,098	257	23	3,290	668	20	409	140	34
Guba.....	519	86	17	623	161	26	581	108	19	501	119	24	13	8	61
Wenbera.....	2,205	263	12	2,180	361	17	3,463	487	14	10,760	1,380	13	507	142	28
Mandura.....	578	86	15	644	99	15	1053	167	16	2,087	361	17	43	27	62
Dibate.....	2,505	336	13	2,991	294	10	4,705	433	9	13,577	1,117	8	739	193	26
Pawe.....	1,470	259	18	1139	240	21	3,093	650	21	9,776	844	9	115	40	34
Bulen.....	1,767	238	13	1,839	238	13	2,748	369	13	6,325	894	14	125	54	43
Asosa Zone.....	4,229	465	11	3,751	368	10	7,638	713	9	22,133	1,349	6	282	111	39
Menge.....	32	23	72	15	17	111	100	43	43	950	175	18	17	14	85
Kurmak.....	-	-	-	-	-	-	35	19	54	-	-	-	-	-	-
Asosa.....	1,261	242	19	1,696	291	17	3,066	498	16	10,064	1,062	11	129	98	76
Sherkole.....	9	11	124	-	-	-	6	8	124	209	89	43	-	-	-
Bambasi.....	1,660	352	21	1100	159	14	2,983	454	15	6,834	676	10	67	34	51
Oda Godere.....	388	97	25	384	105	27	640	156	24	1,912	349	18	-	-	-
Komesha.....	32	20	62	28	19	67	25	28	112	120	56	47	-	-	-
Mao Komo Special.....	847	152	18	528	116	22	783	165	21	2,045	269	13	70	37	53
Kemeshi Zone	1,797	174	10	1,624	187	12	2,795	212	8	6,760	359	5	79	27	35
Yaso.....	578	68	12	466	53	11	640	77	12	1,733	145	8	35	20	57
Sirba Abay.....	328	126	38	279	145	52	337	108	32	403	148	37	-	-	-
Kamashi.....	320	63	20	253	66	26	468	88	19	835	172	21	29	12	42
Agalo Meti.....	222	53	24	125	33	26	424	73	17	615	121	20	14	14	100
Belo Jegonfoy.....	349	55	16	500	74	15	925	119	13	3,175	205	6	-	-	-

Female Cattle

Geographic Area	<6MONTHS			6MONTHS -<1YEAR			1-<3YEARS			3-<10YEARS			10YEARS & OLDER		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Benshangul-Gumuz Region	17,073	845	5	16,364	800	5	30,570	1,227	4	105,600	3,742	4	4,512	494	11
Metekel Zone.....	10,431	686	7	10,135	626	6	19,555	1032	5	66,098	3,025	5	3,275	455	14
Dangur.....	307	102	33	465	137	30	981	281	29	3,696	811	22	344	154	45
Guba.....	757	167	22	557	111	20	977	155	16	3,751	641	17	184	58	32
Wenbera.....	2,310	310	13	2,223	336	15	4,102	526	13	14,983	1,428	10	459	104	23
Mandura.....	707	114	16	555	108	19	1129	135	12	4,174	458	11	39	18	46
Dibate.....	2,726	344	13	3,082	344	11	6,433	622	10	18,953	1,513	8	1,684	378	22
Pawe.....	1535	377	25	1330	245	18	2,709	425	16	10,227	1615	16	408	151	37
Bulen.....	2,089	251	12	1,923	242	13	3,225	316	10	10,314	968	9	156	51	33
Asosa Zone.....	4,078	401	10	3,945	413	10	7,566	614	8	27,484	2,021	7	833	157	19
Menge.....	19	15	78	35	23	65	71	30	43	240	78	32	6	7	107
Kurmak.....	-		-	-	-	-	-	-	-	-	-	-	-	-	-
Asosa.....	1,191	224	19	1,605	331	21	2,893	455	16	11,102	1,298	12	307	106	35
Sherkole.....	-	-	-	-	-	-	13	11	85	13	11	85	9	11	124
Bambasi.....	1,649	273	17	1,290	193	15	2,540	296	12	9,219	1,323	14	275	68	25
Oda Godere.....	533	140	26	455	120	26	796	180	23	3,146	615	20	94	74	79
Komesha.....	29	23	79	38	22	58	66	33	50	112	58	52	8	9	112
Mao Komo Special.....	656	127	19	522	94	18	1,186	218	18	3,651	510	14	135	54	40
Kemeshi Zone	2,564	287	11	2,284	277	12	3,449	253	7	12,018	876	7	405	112	28
Yaso.....	842	80	9	674	75	11	968	108	11	3,821	240	6	114	41	36
Sirba Abay.....	509	241	47	441	233	53	563	162	29	1,528	428	28	112	91	81
Kamashi.....	313	67	21	280	80	29	482	79	16	1,846	312	17	48	20	41
Agalo Meti.....	312	72	23	306	69	22	500	77	15	1,812	604	33	77	41	53
Belo Jegonfoy.....	589	90	15	583	75	13	936	119	13	3,012	255	8	54	25	46

Annex Table 7.3- Estimates of Sheep, Standard Errors and Coefficients 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
Benshangul-Gumuz Region	7,938	553	7	3,617	325	9	2,247	195	9	3,128	265	8
Metekel Zone.....	5,088	515	10	2,326	289	12	1,338	164	12	2,030	211	10
Dangur.....	562	122	22	136	58	43	153	50	33	272	86	32
Guba.....	387	62	16	164	31	19	138	41	30	219	51	23
Wenbera.....	1,300	213	16	573	113	20	290	74	25	598	112	19
Mandura.....	523	81	15	219	56	25	105	33	31	134	48	36
Dibate.....	704	134	19	392	88	22	281	97	35	429	110	26
Pawe.....	1063	402	38	653	232	36	212	68	32	135	60	45
Bulen.....	549	120	22	189	46	24	159	45	29	244	61	25
Asosa Zone.....	1,283	162	13	475	106	22	395	84	21	544	145	27
Menge.....	207	59	28	51	31	61	151	48	32	112	63	56
Kurmak.....	-	-	-	1	-	-	-	-	-	-	-	-
Asosa.....	492	118	24	186	86	46	116	57	49	208	104	50
Sherkole.....	4	4	122	17	17	101	-	-	-	20	14	71
Bambasi.....	243	63	26	137	42	31	68	30	44	77	41	54
Oda Godere.....	62	27	44	35	21	59	48	22	47	89	65	73
Komesha.....	-	-	-	-	-	-	-	-	-	5	5	107
Mao Komo Special.....	276	66	24	48	24	49	12	9	77	33	17	51
Kemeshi Zone	1,568	120	8	817	102	13	515	64	12	553	71	13
Yaso.....	449	59	13	109	19	17	93	19	21	126	23	18
Sirba Abay.....	157	44	28	87	41	47	92	31	34	128	46	36
Kamashi.....	393	69	18	152	37	24	112	29	26	38	16	42
Agalo Meti.....	201	32	16	75	20	27	53	15	28	112	27	24
Belo Jegonfoy.....	367	56	15	393	82	21	164	42	25	149	37	25

Female Sheep

Geographic Area	<6MONTHS			6MONTHS - <1YEAR			1-<2YEARS			2 YEARS & OLDER		
	Number	SE	CV	Number	SE	CV	Number	SE	CV	Number	SE	CV
Benshangul-Gumuz Region	8,484	474	6	4,832	396	8	5,759	375	7	22,765	1231	5
Metekel Zone.....	5,041	398	8	2,766	326	12	3,686	326	9	14,420	1144	8
Dangur.....	526	121	23	291	117	40	538	152	28	1451	262	18
Guba.....	614	129	21	156	34	22	675	149	22	1846	380	21
Wenbera.....	1,459	215	15	551	105	19	1003	172	17	3279	362	11
Mandura.....	461	71	15	286	63	22	273	62	23	1548	144	9
Dibate.....	816	166	20	535	111	21	532	112	21	2356	313	13
Pawe.....	533	188	35	517	230	45	261	72	28	2420	891	37
Bulen.....	632	114	18	431	105	24	403	100	25	1521	224	15
Asosa Zone.....	1,599	211	13	973	192	20	926	143	15	4038	382	9
Menge.....	257	73	28	271	120	44	118	45	39	626	182	29
Kurmak.....	-	-	-	-	-	-	-	-	-	-	-	-
Asosa.....	595	147	25	221	105	48	312	82	26	1569	259	16
Sherkole.....	21	18	85	156	79	51	164	79	48	198	82	42
Bambasi.....	297	72	24	143	46	32	186	59	32	624	138	22
Oda Godere.....	158	83	53	71	31	44	63	31	50	431	102	24
Komesha.....	3	3	75	8	7	88	5	5	107	38	22	58
Mao Komo Special.....	268	73	27	103	41	40	78	28	36	553	99	18
Kemeshi Zone	1844	146	8	1093	117	11	1148	119	10	4307	246	6
Yaso.....	521	61	12	215	44	20	234	35	15	933	95	10
Sirba Abay.....	273	79	29	198	65	33	224	82	37	571	122	21
Kamashi.....	384	55	14	179	35	20	282	47	17	757	87	12
Agalo Meti.....	177	33	19	158	43	27	144	31	22	663	76	11
Belo Jegonfoy.....	490	85	17	343	67	19	264	55	21	1383	153	11

Annex Table 7.4- Estimates of Goats, Standard Errors and Coefficients 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
Benshangul-Gumuz Region	24,046	864	4	11,515	576	5	7,678	476	6	11,815	772	7
Metekel Zone.....	11,024	653	6	5,086	442	9	3,227	361	11	5,586	614	11
Dangur.....	1,720	275	16	796	209	26	497	135	27	741	232	31
Guba.....	1,710	181	11	781	114	15	568	78	14	738	131	18
Wenbera.....	1,649	302	18	624	157	25	315	109	35	1,021	363	36
Mandura.....	1,751	167	10	463	86	19	284	62	22	612	139	23
Dibate.....	1,845	291	16	1,116	240	21	716	177	25	1,013	280	28
Pawe.....	584	155	27	342	90	26	28	16	56	381	152	40
Bulen.....	1,764	299	17	964	203	21	818	242	30	1,080	232	21
Asosa Zone.....	8,570	513	6	4,341	338	8	3,031	280	9	4,008	398	10
Menge.....	2,303	254	11	1,100	160	15	631	125	20	1,122	194	17
Kurmak.....	209	58	28	298	85	29	187	43	23	152	50	33
Asosa.....	1,944	315	16	856	208	24	751	187	25	589	214	36
Sherkole.....	894	157	18	379	73	19	330	72	22	580	113	19
Bambasi.....	908	153	17	601	108	18	345	86	25	419	116	28
Oda Godere.....	1,049	166	16	714	127	18	398	86	22	771	191	25
Komesha.....	660	99	15	276	54	19	288	63	22	301	95	32
Mao Komo Special.....	602	100	17	116	44	38	102	43	42	73	34	46
Kemeshi Zone	4,453	239	5	2,088	149	7	1,421	133	9	2,222	243	11
Yaso.....	885	80	9	495	71	14	222	34	15	380	43	11
Sirba Abay.....	1,191	160	13	452	75	17	439	101	23	692	197	28
Kamashi.....	918	108	12	448	69	15	206	39	19	309	70	23
Agalo Meti.....	1,203	102	8	597	79	13	471	64	14	747	113	15
Belo Jegonfoy.....	256	55	22	96	25	26	83	28	33	93	30	32

Annex Table 7.6- Estimates of Asses, Standard Errors and Coefficients 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
Benshangul-Gumuz Region	3,509	266	8	17,577	820	5	2,566	225	9	7,301	440	6
Metekel Zone.....	1,232	151	12	9,757	625	6	642	85	13	2,294	212	9
Dangur.....	278	99	36	1,470	328	22	90	36	40	182	64	35
Guba.....	158	31	20	424	56	13	171	36	21	622	80	13
Wenbera.....	331	73	22	3,581	386	11	156	43	28	588	118	20
Mandura.....	104	32	31	539	83	15	97	30	31	367	69	19
Dibate.....	145	44	31	1,924	248	13	74	37	50	242	100	41
Pawe.....	136	53	39	176	47	27	26	16	62	162	56	34
Bulen.....	80	30	38	1,644	246	15	29	18	64	131	50	38
Asosa Zone.....	1,993	214	11	5,895	512	9	1,742	205	12	4,459	379	9
Menge.....	666	138	21	1,373	194	14	490	101	21	1,441	243	17
Kurmak.....	22	12	55	338	60	18	-	-	-	-	-	-
Asosa.....	330	101	31	1,428	416	29	241	116	48	602	196	33
Sherkole.....	306	82	27	623	109	17	245	56	23	536	101	19
Bambasi.....	337	78	23	558	101	18	442	99	22	990	150	15
Oda Godere.....	100	30	30	758	129	17	74	28	38	321	70	22
Komesha.....	115	37	32	509	76	15	78	31	39	172	40	23
Mao Komo Special.....	115	38	33	308	62	20	172	59	34	397	85	21
Kemeshi Zone	283	45	16	1,924	140	7	181	37	20	548	73	13
Yaso.....	2	2	97	519	67	13	9	6	60	46	21	45
Sirba Abay.....	47	18	38	280	50	18	70	24	34	120	34	28
Kamashi.....	48	17	37	465	72	16	33	12	36	127	30	24
Agalo Meti.....	83	23	28	271	51	19	41	21	51	190	48	25
Belo Jegonfoy.....	104	29	28	389	69	18	28	14	52	66	23	35

Annex Table 7.7- Estimates of Mules, Standard Errors and Coefficients 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
Benshangul-Gumuz Region	13	9	69	613	87	14	11	11	98	756	107	14
Metekel Zone.....	4	4	100	349	71	20	-	-	-	307	71	23
Dangur.....	-	-	-	-	-	-	-	-	-	74	37	50
Guba.....	-	-	-	-	-	-	-	-	-	74	20	27
Wenbera.....	4	4	100	194	52	27	-	-	-	136	54	40
Mandura.....	-	-	-	45	20	44	-	-	-	-	-	-
Dibate.....	-	-	-	91	42	46	-	-	-	23	17	72
Pawe.....	-	-	-	3	3	93	-	-	-	-	-	-
Bulen.....	-	-	-	17	17	101	-	-	-	-	-	-
Asosa Zone.....	10	8	87	121	38	32	11	11	98	357	77	22
Menge.....	10	8	87	10	8	87	-	-	-	98	28	28
Kurmak.....	-	-	-	-	-	-	-	-	-	-	-	-
Asosa.....	-	-	-	3	3	113	-	-	-	130	58	45
Sherkole.....	-	-	-	-	-	-	-	-	-	-	-	-
Bambasi.....	-	-	-	41	23	56	11	11	98	40	20	49
Oda Godere.....	-	-	-	14	11	79	-	-	-	21	18	84
Komesha.....	-	-	-	-	-	-	-	-	-	42	29	68
Mao Komo Special.....	-	-	-	54	27	51	-	-	-	26	14	55
Kemeshi Zone	-	-	-	143	33	23	-	-	-	92	24	26
Yaso.....	-	-	-	15	8	51	-	-	-	25	9	36
Sirba Abay.....	-	-	-	32	14	43	-	-	-	30	13	44
Kamashi.....	-	-	-	41	14	34	-	-	-	17	10	58
Agalo Meti.....	-	-	-	6	5	91	-	-	-	20	15	76
Belo Jegonfoy.....	-	-	-	49	25	50	-	-	-	-	-	-

Annex Table 7.10- Estimates of Beehives, Standard Errors and Coefficients 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
Benshangul-Gumuz Region	166,736	9,177	6	166,499	9,178	6	89	70	78	148	148	100
Metekel Zone.....	72,491	6,788	9	72,469	6,788	9	22	20	90	-	-	-
Dangur.....	20,125	4,263	21	20,125	4,263	21	-	-	-	-	-	-
Guba.....	297	95	32	297	95	32	-	-	-	-	-	-
Wenbera.....	16,636	2,996	18	16,636	2,996	18	-	-	-	-	-	-
Mandura.....	6,872	1,083	16	6,872	1,083	16	-	-	-	-	-	-
Dibate.....	14,039	2,604	19	14,039	2,604	19	-	-	-	-	-	-
Pawe.....	1,459	355	24	1,437	356	25	22	20	90	-	-	-
Bulen.....	13,063	3,293	25	13,063	3,293	25	-	-	-	-	-	-
Asosa Zone.....	59,695	5,528	9	59,547	5,530	9	-	-	-	148	148	100
Menge.....	419	226	54	419	226	54	-	-	-	-	-	-
Kurmak.....	154	81	53	154	81	53	-	-	-	-	-	-
Asosa.....	31,834	4,520	14	31,686	4,522	14	-	-	-	148	148	100
Sherkole.....	-	-	-	-	-	-	-	-	-	-	-	-
Bambasi.....	14,151	2,545	18	14,151	2,545	18	-	-	-	-	-	-
Oda Godere.....	4,817	1,341	28	4,817	1,341	28	-	-	-	-	-	-
Komesha.....	3,003	665	22	3,003	665	22	-	-	-	-	-	-
Mao Komo Special.....	5,317	1164	22	5,317	1164	22	-	-	-	-	-	-
Kemeshi Zone	34,549	2,753	8	34,483	2,754	8	67	67	100	-	-	-
Yaso.....	6,838	972	14	6,771	972	14	67	67	100	-	-	-
Sirba Abay.....	7,291	1844	25	7,291	1844	25	-	-	-	-	-	-
Kamashi.....	422	157	37	422	157	37	-	-	-	-	-	-
Agalo Meti.....	11737	1579	13	11737	1579	13	-	-	-	-	-	-
Belo Jegonfoy.....	8,261	848	10	8,261	848	10	-	-	-	-	-	-

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, draught animal and storage facilities 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 - 8.28A and 8.1B - 8.28B. Finally, the estimates, Standard Errors (S.E.) and Coefficients of Variation (C.V.) on number of holders reporting, number of farm implements reported and total value are presented in the Annex Table.

2. CLASSIFICATION OF FARM IMPLEMENTS, OTHER FARM EQUIPMENT AND DRAUGHT ANIMALS

The farm implements and draught animals reported were classified into the following eight groups: -

- Implements used for clearing land,
- Implements used for cultivation,
- Parts for traditional plough,
- Implements used for harvesting,
- Implements used for threshing,
- Other farm equipment,
- Draught animals for farm activity, and
- 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), and

c) Shovel.

2.2 Implements used for cultivation

a) Hoe,

b) 'Mekeskesha',

c) Pick-Axe, and

d) Tractor.

2.3 Parts for traditional plough

a) 'Diger',

b) ' Erfe',

c) Plough-Beam,

d) Plough-Tip, and

e) 'Wegel'-Tip.

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 Benshangul-Gumuz Region it is estimated that there were about 122,033 crop holders in rural areas of which about 112,436 (92.14%) reported to own axes, about 37.94% reporting 'Gejeras' (choppers), and 15.55% reporting shovels. 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 'Gejeras' and shovels. The expected duration of service of an axe and 'Gejera' was estimated to be nine years each, while for shovel it was ten 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 while Mekeskesha was the lowest. The data in Summary Table VIII.4 reveled that the percentage distribution of the crop holders that owned one, two, three, four and five and above hoes was 21.17%, 23.15%, 11.23%, 5.28%, and 3.85% respectively. It is also shown that sickle is reported as the only harvesting tool. For details, see Summary Table VIII.1.

3.2 Draught Animals

Peasants in Ethiopia use domestic animals for draught purpose. In several parts of the country since most of the 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 domestic 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 37.7 million Birr. About 40 thousand holders (32.78% of the total crop holders in rural areas in the region) reported 109,360 cattle (working age cattle) used for

threshing and these cattle had a value of over 53 million Birr and the average replacement value of a working age cattle was about 178.70 Birr. It was also indicated that asses and horses were used by the holders for threshing and transportation. The estimated number and percentage distributions of crop holders in rural areas that owned implements, equipment, and draught animals are shown in Summary Table VIII.4. In Benshangul-Gumuz region the agricultural census result shows that there were about 122,033 crop holders. Among these 11.63%, 15.03%, 1.68%, 1.65% and 0.72% holders owned one, two, three, four and five and above oxen respectively. On the other hand about 69.29% 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 the highest number of holders reported 'Gottera'. On the other hand, 'Gudguad' was reported by insignificant number of holders. The total value of all reported storage facilities was assessed to be 2,768,597 Birr, of which 95% and 5% comprises of Gottera and Debigint, respectively. The percentage distribution of the number of crop holders that owned 'Gudguad' and 'Dibigint' 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	112,436	92.14	193,238	1.58	1,792,568	5.46	9
'Gejeras' (Choppers)	46,304	37.94	60,996	0.50	725,782	9.20	9
Shovels	18,980	15.55	20,188	0.17	237,645	11.09	10
Used for Cultivation							
Hoes	78,903	64.66	176,832	1.45	1,197,656	3.10	5
'Mekeskeshas'	5,183	4.25	6,776	0.06	58,042	6.84	8
Pick-Axes	24,524	20.10	37,523	0.31	338,256	6.40	10
Tractors	-	-	-	-	-	-	-
Parts for traditional Plough							
'Degers'	40,280	33.01	66,889	0.55	142,254	1.33	2
'Erfes'	39,102	32.04	54,882	0.45	72,917	0.91	1
Plough-Beams	40,555	33.23	54,191	0.44	285,468	4.08	3
Plough- Tips	40,750	33.39	47,886	0.39	796,741	14.30	5
'Wegel' -Tips	40,007	32.78	47,065	0.39	267,648	4.90	5
Yokes	40,318	33.04	49,620	0.41	183,542	3.05	3
Used for Harvesting							
Sickles	93,840	76.90	166,586	1.37	1,296,533	4.58	5
Used for Threshing							
Hay-Forks (metal)	559	0.46	762	0.01	3,302	3.71	6
Hay-Forks (wood)	23,042	18.88	45,355	0.37	81,684	0.96	3
Threshing Sticks	27,015	22.14	67,057	0.55	66,922	0.53	2
Winnowers (metal)	364	0.30	485	0.00	2,611	4.44	7
Winnowers (wood)	19,124	15.67	27,359	0.22	111,111	3.07	6
Other farm Equipment							
Carts	*	-	*	-	*	*	*
Sprayers (Hand operated)	484	0.40	719	0.01	7,683	9.04	5
Sprayers (Power operated)	-	-	-	-	-	-	-
Tying Tools	-	-	-	-	-	-	-
Wheelbarrows	119	0.10	119	0.00	*	*	*

Average per holder is the ratio of total number of each implement reported to total number of crop holders in rural areas in the region.

- Total number of crop holders comprises, holders participated in crop production only and both crop production and livestock rearing

SUMMARY TABLE VIII.2:-Number and Percentage of Holders Reporting Draught Animals, Quantity Reported, Replacement Value, and Average Age of Animal, for Private Holdings.

Animals	Number of Holders Reporting	Percent of Total Holders	Number of Animals		Total Value of Animals (Birr)	Average Replacement Value Per Animal (Birr)	Average Age of Animal (Years)
			Total Reported	#Average Per Holder			
Used for Ploughing							
Asses	131	0.11	204	0.00	47,477	145.30	3
Camels	-	-	-	-	-	-	-
Horses	-	-	-	-	-	-	-
Mules	-	-	-	-	-	-	-
Oxen	37,325	30.59	70,623	0.58	37,741,909	274.67	6
Used for Threshing or Transportation							
Asses	19,020	15.59	23,484	0.19	6,995,649	239.61	6
Camels	-		-	-	-	-	-
Cattle	40,001	32.78	109,360	0.90	53,259,868	178.70	6
Horses	225	0.18	351	0.00	202,890	376.84	8
Mules	-	-	-	-	-	-	-

Average per holder is the ratio of total number of each draught animal reported to total number of crop holders in rural areas in the region.
- Total number of crop holders comprises, holders participated in crop production only and both crop production and livestock rearing.

SUMMARY TABLE VIII.3: - Number and Percentage of Holders Reporting Storage facilities, Quantity Reported, Replacement Value, and Storage Capacity, for Private Holdings.

Storage Structure	Number of Holders Reporting	Percent of Total Storage Holders	Number of Storages		Total Value of Storages (Birr)	Average Replacement Value Per Storage (Birr)	Average Storage Capacity Per Storage (Quintal)
			Total Reported	# Average Per Holder			
'Debignits'	10,485	8.59	19,100	0.16	138,175	4.11	5
'Gotteras'	89,929	73.69	132,450	1.09	2,630,422	15.55	12
'Gudguads'	*	-	*	-	*	*	*
Modern Storage Structures	548	0.45	912	0.01	*	*	40

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	9,586	7.86	54,862	44.96	40,827	33.46	12,190	9.99	3,425	2.81	1,143	0.94
'Gejera'	75,726	62.05	35,302	28.93	8,321	6.82	1,991	1.63	524	0.43	169	0.14
Shovel	103,042	84.44	17,940	14.70	922	0.76	112	0.09	6	0.00	11	0.01
Used for Cultivation												
Hoes	43,101	35.32	25,830	21.17	28,253	23.15	13,705	11.23	6,440	5.28	4,704	3.85
'Mekeskeshas'	116,849	95.75	3,806	3.12	1,233	1.01	93	0.08	42	0.03	10	0.01
Pick- Axes	97,509	79.90	17,076	13.99	4,346	3.56	1,920	1.57	579	0.47	603	0.49
Tractors	-	-	-	-	-	-	-	-	-	-	-	-
Parts for traditional Plough												
'Degers'	81,754	66.99	21,804	17.87	14,620	11.98	772	0.63	2,604	2.13	479	0.39
'Erfes' (Handle)	82,900	67.93	27,986	22.93	8,239	6.75	1,719	1.41	961	0.79	228	0.19
Plough-Beam.	81,461	66.75	29,436	24.12	9,159	7.51	1,533	1.26	372	0.30	72	0.06
Plough -Tips	81,266	66.59	34,827	28.54	5,115	4.19	652	0.53	155	0.13	18	0.01
'Wegel' -Tips	82,012	67.20	33,975	27.84	5,292	4.34	538	0.44	194	0.16	22	0.02
Yokes	81,715	66.96	32,059	26.27	7,457	6.11	637	0.52	146	0.12	19	0.02
Used for Harvesting												
Sickles	28,173	23.09	46,568	38.16	31,120	25.50	10,526	8.63	3,705	3.04	1,941	1.59
Used for Threshing												
Hay-Forks (Metal)	121,475	99.54	376	0.31	162	0.13	20	0.02	-	-	-	-
Hay-Forks (Wood)	98,981	81.11	9,202	7.54	8,764	7.18	3,052	2.50	1,289	1.06	745	0.61
Threshing Sticks	95,012	77.86	11,510	9.43	8,523	6.98	2,539	2.08	1,857	1.52	2,592	2.12
Winnowers (Metal)	121,669	99.70	251	0.21	104	0.09	9	0.01	-	-	-	-
Winnowers (Wood)	102,908	84.33	13,231	10.84	4,429	3.63	887	0.73	403	0.33	175	0.14
Other Farm Equipment												
Carts	122,012	100.00	*	*	-	-	-	-	-	-	-	-
Sprayers (Hand Operated)	121,548	99.60	348	0.29	106	0.09	26	0.02	-	-	5	0.00
Sprayers (Power Operated)	-	-	-	-	-	-	-	-	-	-	-	-
Tying Tools	-	-	-	-	-	-	-	-	-	-	-	-
Wheelbarrows	121,914	99.90	119	0.10	-	-	-	-	-	-	-	-
Animals Used for Ploughing												
Asses	121,901	99.89	73	0.06	44	0.04	15	0.01	-	-	-	-
Camels	-	-	-	-	-	-	-	-	-	-	-	-
Horses	-	-	-	-	-	-	-	-	-	-	-	-
Mules	-	-	-	-	-	-	-	-	-	-	-	-
Oxen	84,553	69.29	14,198	11.63	18,337	15.03	2,050	1.68	2,017	1.65	878	0.72
Animals Used for Threshing or Transportation												
Asses	103,013	84.41	15,560	12.75	2,825	2.31	414	0.34	141	0.12	80	0.07
Camels	-	-	-	-	-	-	-	-	-	-	-	-
Cattle	82,032	67.22	12,157	9.96	14,248	11.68	4,738	3.88	3,511	2.88	5,347	4.38
Horses	121,808	99.82	129	0.11	65	0.05	31	0.03	-	-	-	-
Mules	-	-	-	-	-	-	-	-	-	-	-	-
Storage Structure												
'Debignits'	111,547	91.41	5,443	4.46	2,787	2.28	1,352	1.11	612	0.50	292	0.24
'Gotteras'	32,021	26.24	61,537	50.43	19,756	16.19	5,948	4.87	2,011	1.65	760	0.62
'Gudguads'	121,936	100.00	*	-	*	-	-	-	-	-	-	-
Modern Storages	121,485	99.55	271	0.22	208	0.17	49	0.04	20	0.02	-	-

STATISTICAL TABLES PRESENTING THE CENSUS RESULTS AT ZONAL AND WOREDA LEVELS

Tables 8.1A- 8.28A

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)
Benshangul-Gumuz Region	122,033	112,436	193,238	1.58	1,792,568	5.46	9
Metekel Zone	47,248	42,960	73,376	1.55	655,033	5.29	7
Dangur	6,230	5,558	8,456	1.36	97,365	7.67	9
Guba	3,691	3,557	6,767	1.83	68,687	5.40	7
Wenbera	8,753	8,064	14,743	1.68	189,437	7.02	8
Mandura	5,480	5,165	6,798	1.24	47,917	5.27	6
Dibate	9,136	8,633	15,261	1.67	93,132	3.42	6
Pawe	8,736	6,808	11,693	1.34	91,900	4.95	11
Bulen	5,223	5,174	9,658	1.85	66,595	3.87	5
Asosa Zone	56,202	51,990	87,745	1.56	883,979	6.00	10
Menge	8,563	8,229	13,472	1.57	166,567	7.53	7
Kurmak	3,723	3,428	5,650	1.52	58,286	6.33	9
Asosa	17,602	15,658	26,814	1.52	251,926	5.56	13
Sherkole	4,432	4,420	7,808	1.76	103,911	7.56	6
Bambasi	8,616	7,789	13,711	1.59	103,632	4.35	12
Oda Godere	6,052	5,759	9,345	1.54	99,202	6.51	7
Komesha	2,943	2,789	4,971	1.69	48,964	5.55	10
Mao Komo Special	4,272	3,918	5,974	1.40	51,491	5.56	9
Kemeshi Zone	18,583	17,486	32,116	1.73	253,556	4.37	7
Yaso	3,683	3,495	5,807	1.58	40,360	4.36	8
Sirba Abay	2,505	2,380	4,421	1.76	49,220	6.22	10
Kamashi	2,768	2,688	5,481	1.98	38,118	3.38	6
Agalo Meti	3,539	3,313	6,033	1.70	44,243	4.11	6
Belo Jegonfoy	6,088	5,611	10,374	1.70	81,616	4.26	8

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)
Benshangul-Gumuz Region	122,033	46,304	60,996	0.50	725,782	9.20	9
Metekel Zone	47,248	7,649	10,101	0.21	99,493	7.39	8
Dangur	6,230	1,373	1,906	0.31	17,164	6.94	6
Guba	3,691	443	869	0.24	8,227	5.15	5
Wenbera	8,753	2,530	3,576	0.41	42,230	7.66	7
Mandura	5,480	167	194	0.04	1,376	6.52	6
Dibate	9,136	708	845	0.09	4,564	4.78	5
Pawe	8,736	2,199	2,426	0.28	23,943	9.26	13
Bulen	5,223	229	285	0.05	1,989	6.37	5
Asosa Zone	56,202	28,497	36,566	0.65	493,188	10.79	10
Menge	8,563	3,762	4,707	0.55	50,154	8.93	7
Kurmak	3,723	1,558	1,802	0.48	18,073	8.53	8
Asosa	17,602	10,768	13,096	0.74	237,916	14.78	14
Sherkole	4,432	1,569	1,993	0.45	24,497	10.12	5
Bambasi	8,616	4,671	6,421	0.75	74,883	9.40	10
Oda Godere	6,052	1,232	1,407	0.23	15,346	9.42	8
Komesha	2,943	1,894	2,747	0.93	31,351	8.03	9
Mao Komo Special	4,272	3,044	4,393	1.03	40,970	6.29	7
Kemeshi Zone	18,583	10,158	14,329	0.77	133,100	6.44	6
Yaso	3,683	2,440	3,617	0.98	38,752	6.30	5
Sirba Abay	2,505	917	1,352	0.54	17,239	8.99	10
Kamashi	2,768	2,041	2,860	1.03	27,000	6.57	7
Agalo Meti	3,539	1,100	1,195	0.34	8,798	6.87	6
Belo Jegonfoy	6,088	3,661	5,305	0.87	41,311	5.72	7

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)
Benshangul-Gumuz Region	122,033	18,980	20,188	0.17	237,645	11.09	10
Metekel Zone	47,248	7,479	7,861	0.17	78,135	9.42	8
Dangur	6,230	333	350	0.06	3,366	9.08	11
Guba	3,691	636	810	0.22	8,246	8.05	5
Wenbera	8,753	1,752	1,772	0.20	24,318	13.55	8
Mandura	5,480	175	190	0.03	2,346	10.79	7
Dibate	9,136	2,251	2,321	0.25	16,910	7.00	6
Pawe	8,736	1,591	1,654	0.19	16,192	9.36	12
Bulen	5,223	741	764	0.15	6,757	8.61	5
Asosa Zone	56,202	9,751	10,524	0.19	137,002	12.12	12
Menge	8,563	627	733	0.09	9,326	11.10	6
Kurmak	3,723	459	518	0.14	6,717	12.05	8
Asosa	17,602	4,932	5,218	0.30	71,631	12.89	13
Sherkole	4,432	500	551	0.12	7,505	12.25	7
Bambasi	8,616	1,711	1,770	0.21	21,476	11.83	14
Oda Godere	6,052	474	549	0.09	6,335	10.54	7
Komesha	2,943	782	911	0.31	9,674	9.06	10
Mao Komo Special	4,272	266	274	0.06	4,338	15.40	9
Kemeshi Zone	18,583	1,750	1,804	0.10	22,509	12.28	7
Yaso	3,683	119	130	0.04	1,215	9.06	5
Sirba Abay	2,505	53	53	0.02	800	15.10	9
Kamashi	2,768	484	495	0.18	7,176	14.14	7
Agalo Meti	3,539	161	177	0.05	2,193	12.12	7
Belo Jegonfoy	6,088	934	949	0.16	11,124	11.62	7

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)
Benshangul-Gumuz Region	122,033	78,903	176,832	1.45	1,197,656	3.10	5
Metekel Zone	47,248	27,112	59,136	1.25	323,726	2.56	5
Dangur	6,230	3,036	5,605	0.90	22,955	2.48	6
Guba	3,691	814	2,131	0.58	9,859	1.82	5
Wenbera	8,753	7,842	18,457	2.11	175,774	4.16	5
Mandura	5,480	1,016	2,631	0.48	13,361	1.92	5
Dibate	9,136	7,371	15,657	1.71	49,826	1.63	4
Pawe	8,736	2,209	2,492	0.29	12,131	4.21	10
Bulen	5,223	4,824	12,163	2.33	39,820	1.28	3
Asosa Zone	56,202	35,786	77,327	1.38	652,776	3.94	7
Menge	8,563	7,739	19,724	2.30	182,548	3.62	5
Kurmak	3,723	715	1,371	0.37	9,795	4.15	7
Asosa	17,602	8,854	15,691	0.89	134,360	4.92	9
Sherkole	4,432	2,030	4,242	0.96	36,892	4.44	3
Bambasi	8,616	4,367	8,589	1.00	63,134	3.96	8
Oda Godere	6,052	5,377	12,624	2.09	104,414	3.42	5
Komesha	2,943	2,582	6,498	2.21	52,568	3.22	6
Mao Komo Special	4,272	4,122	8,588	2.01	69,066	3.93	7
Kemeshi Zone	18,583	16,004	40,370	2.17	221,153	2.29	4
Yaso	3,683	2,856	6,556	1.78	28,082	1.82	4
Sirba Abay	2,505	2,461	6,699	2.67	31,193	1.67	4
Kamashi	2,768	2,349	6,864	2.48	31,348	1.65	4
Agalo Meti	3,539	2,908	7,937	2.24	27,916	1.28	3
Belo Jegonfoy	6,088	5,431	12,313	2.02	102,614	3.89	6

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)
Benshangul-Gumuz Region	122,033	5,183	6,776	0.06	58,042	6.84	8
Metekel Zone	47,248	836	1,265	0.03	4,066	2.34	4
Dangur.....	6,230	*	*	-	*	*	*
Guba.....	3,691	-	-	-	-	-	-
Wenbera	8,753	536	904	0.10	1,416	0.97	2
Mandura	5,480	*	*	-	*	*	*
Dibate.....	9,136	75	89	0.01	*	*	*
Pawe.....	8,736	118	118	0.01	812	6.88	10
Bulen.....	5,223	*	*	-	*	*	*
Asosa Zone	56,202	3,842	4,645	0.08	49,714	8.76	10
Menge.....	8,563	*	*	-	*	*	*
Kurmak.....	3,723	96	113	0.03	1,443	10.86	*
Asosa.....	17,602	2,959	3,639	0.21	39,756	8.79	10
Sherkole.....	4,432	*	*	-	*	*	*
Bambasi.....	8,616	507	606	0.07	5,597	7.78	11
Oda Godere	6,052	103	109	0.02	814	6.96	*
Komesha.....	2,943	46	46	0.02	507	11.03	*
Mao Komo Special.....	4,272	*	*	-	*	*	*
Kemeshi Zone	18,583	505	866	0.05	4,262	3.06	4
Yaso	3,683	-	-	-	-	-	-
Sirba Abay.....	2,505	-	-	-	-	-	-
Kamashi.....	2,768	106	121	0.04	1,330	9.45	12
Agalo Meti	3,539	282	568	0.16	1,151	0.95	2
Belo Jegonfoy.....	6,088	118	177	0.03	1,781	5.47	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)
Benshangul-Gumuz Region	122,033	24,524	37,523	0.31	338,256	6.40	10
Metekel Zone	47,248	6,061	7,508	0.16	59,179	6.85	9
Dangur.....	6,230	826	1,018	0.16	10,477	9.20	6
Guba.....	3,691	680	936	0.25	9,090	7.53	6
Wenbera	8,753	265	275	0.03	4,044	14.28	10
Mandura	5,480	191	252	0.05	2,126	7.56	8
Dibate.....	9,136	1,462	2,196	0.24	11,050	3.89	6
Pawe.....	8,736	2,036	2,216	0.25	17,809	7.28	13
Bulen.....	5,223	602	616	0.12	4,583	7.35	7
Asosa Zone	56,202	16,012	25,110	0.45	251,924	6.87	12
Menge.....	8,563	791	1,328	0.16	14,609	7.35	6
Kurmak.....	3,723	1,291	2,874	0.77	21,719	3.88	7
Asosa.....	17,602	7,146	9,331	0.53	102,104	8.55	14
Sherkole.....	4,432	858	2,019	0.46	17,321	4.24	5
Bambasi.....	8,616	3,781	5,396	0.63	52,447	7.00	14
Oda Godere	6,052	1,273	2,473	0.41	26,804	6.53	6
Komesha.....	2,943	797	1,612	0.55	16,129	5.37	11
Mao Komo Special.....	4,272	76	76	0.02	791	10.41	*
Kemeshi Zone	18,583	2,451	4,904	0.26	27,153	3.26	5
Yaso	3,683	780	1,773	0.48	10,285	2.60	4
Sirba Abay.....	2,505	50	59	0.02	632	9.03	12
Kamashi.....	2,768	545	892	0.32	5,224	4.08	6
Agalo Meti	3,539	564	1,593	0.45	5,296	1.30	3
Belo Jegonfoy.....	6,088	513	588	0.10	5,716	8.71	7

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)
Benshangul-Gumuz Region	122,033	40,280	66,889	0.55	142,254	1.33	2
Metekel Zone	47,248	19,195	33,478	0.71	66,546	1.14	2
Dangur.....	6,230	1,592	2,544	0.41	5,915	1.38	1
Guba.....	3,691	*	*	-	*	*	*
Wenbera	8,753	4,272	6,858	0.78	14,123	1.33	1
Mandura	5,480	736	1,676	0.31	3,854	1.02	2
Dibate.....	9,136	5,276	9,413	1.03	16,627	0.99	1
Pawe.....	8,736	4,902	7,731	0.88	15,939	1.27	2
Bulen.....	5,223	2,413	5,253	1.01	10,081	0.89	1
Asosa Zone	56,202	16,409	25,364	0.45	58,528	1.59	2
Menge.....	8,563	447	729	0.09	2,663	2.61	2
Kurmak.....	3,723	-	-	-	-	-	-
Asosa.....	17,602	8,425	13,241	0.75	29,984	1.52	2
Sherkole.....	4,432	-	-	-	-	-	-
Bambasi.....	8,616	4,380	7,379	0.86	14,229	1.20	2
Oda Godere	6,052	1,394	1,881	0.31	4,242	1.75	2
Komesha.....	2,943	96	127	0.04	368	2.52	4
Mao Komo Special.....	4,272	1,668	2,006	0.47	7,041	2.92	2
Kemeshi Zone	18,583	4,676	8,047	0.43	17,181	1.30	2
Yaso	3,683	753	1,128	0.31	2,153	1.30	2
Sirba Abay.....	2,505	188	220	0.09	479	1.89	2
Kamashi.....	2,768	667	1,065	0.38	1,542	1.05	2
Agalo Meti	3,539	526	662	0.19	1,275	1.56	2
Belo Jegonfoy.....	6,088	2,542	4,972	0.82	11,732	1.29	1

TABLE 8.8A:- Number of Holders Reporting 'Erfe'(Handle) Owned, Quantity Reported, Replacement Value, and Duration of Service of 'Erfe', for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of 'Erfes' Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per 'Erfe' (Birr)	Average Duration of Service of 'Erfe' (Years)
Benshangul-Gumuz Region	122,033	39,102	54,882	0.45	72,917	0.91	1
Metekel Zone	47,248	18,910	28,948	0.61	41,385	0.87	1
Dangur.....	6,230	1,557	2,402	0.39	5,134	1.51	2
Guba.....	3,691	*	*	-	*	*	*
Wenbera	8,753	4,240	5,470	0.62	7,101	1.02	1
Mandura	5,480	730	1,156	0.21	1,593	0.87	1
Dibate.....	9,136	5,181	8,253	0.90	12,765	0.68	1
Pawe.....	8,736	4,848	7,412	0.85	9,389	0.85	2
Bulen.....	5,223	2,350	4,252	0.81	5,400	0.68	1
Asosa Zone	56,202	15,659	20,346	0.36	25,175	0.96	1
Menge.....	8,563	426	526	0.06	797	1.36	2
Kurmak.....	3,723	-	-	-	-	-	-
Asosa.....	17,602	8,199	10,207	0.58	14,296	1.11	2
Sherkole.....	4,432	*	*	-	*	*	*
Bambasi.....	8,616	4,251	5,938	0.69	5,562	0.66	1
Oda Godere	6,052	1,190	1,400	0.23	1,501	0.93	1
Komesha.....	2,943	102	102	0.03	312	3.05	3
Mao Komo Special.....	4,272	1,484	2,157	0.50	2,558	0.85	1
Kemeshi Zone	18,583	4,533	5,588	0.30	6,356	0.93	1
Yaso	3,683	675	774	0.21	1,046	1.20	2
Sirba Abay.....	2,505	180	188	0.08	172	0.89	1
Kamashi.....	2,768	653	723	0.26	485	0.62	1
Agalo Meti	3,539	514	546	0.15	799	1.36	1
Belo Jegonfoy.....	6,088	2,512	3,357	0.55	3,855	0.87	1

TABLE 8. 9A:- Number of Holders Reporting Plough-Beam Owned, Quantity Reported, Replacement Value, and Duration of Service of Plough-Beam, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Plough-Beams Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Plough-Beam (Birr)	Average Duration of Service of Plough-Beam (Years)
Benshangul-Gumuz Region	122,033	40,555	54,191	0.44	285,468	4.08	3
Metekel Zone	47,248	19,262	27,243	0.58	110,497	2.92	2
Dangur.....	6,230	1,604	2,334	0.37	9,719	3.17	2
Guba.....	3,691	*	*	-	*	*	*
Wenbera	8,753	4,246	5,404	0.62	22,187	3.24	2
Mandura	5,480	730	1,078	0.20	4,604	2.85	2
Dibate.....	9,136	5,344	7,696	0.84	26,475	2.43	2
Pawe.....	8,736	4,910	7,413	0.85	30,208	2.73	3
Bulen.....	5,223	2,424	3,315	0.63	17,293	3.80	2
Asosa Zone	56,202	16,589	21,340	0.38	138,987	5.18	4
Menge.....	8,563	455	545	0.06	5,334	8.28	3
Kurmak.....	3,723	*	*	-	*	*	*
Asosa.....	17,602	8,541	10,954	0.62	73,553	5.35	4
Sherkole.....	4,432	-	-	-	-	-	-
Bambasi.....	8,616	4,454	6,005	0.70	32,844	4.10	3
Oda Godere	6,052	1,373	1,721	0.28	7,739	3.85	3
Komesha.....	2,943	101	116	0.04	942	7.05	7
Mao Komo Special.....	4,272	1,655	1,991	0.47	18,441	7.71	3
Kemeshi Zone	18,583	4,704	5,608	0.30	35,985	5.53	2
Yaso	3,683	740	943	0.26	3,509	3.21	2
Sirba Abay.....	2,505	206	230	0.09	741	2.87	4
Kamashi.....	2,768	684	711	0.26	2,916	3.99	2
Agalo Meti	3,539	526	545	0.15	1,492	2.57	3
Belo Jegonfoy.....	6,088	2,548	3,178	0.52	27,326	7.26	2

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)
Benshangul-Gumuz Region	122,033	40,750	47,886	0.39	796,741	14.30	5
Metekel Zone	47,248	19,417	24,212	0.51	396,637	13.31	4
Dangur.....	6,230	1,800	2,464	0.40	35,431	12.09	4
Guba.....	3,691	*	*	-	*	*	*
Wenbera	8,753	4,290	5,144	0.59	77,919	12.76	3
Mandura	5,480	714	997	0.18	17,347	12.79	4
Dibate.....	9,136	5,314	6,815	0.75	123,175	13.93	3
Pawe.....	8,736	4,867	5,610	0.64	92,043	14.28	8
Bulen.....	5,223	2,428	3,179	0.61	50,687	12.30	2
Asosa Zone	56,202	16,619	18,241	0.32	344,468	17.19	7
Menge.....	8,563	451	503	0.06	8,754	15.83	5
Kurmak.....	3,723	*	*	-	*	*	*
Asosa.....	17,602	8,540	8,972	0.51	157,538	16.61	8
Sherkole.....	4,432	-	-	-	-	-	-
Bambasi.....	8,616	4,434	5,051	0.59	115,194	20.07	7
Oda Godere	6,052	1,386	1,704	0.28	20,649	9.94	3
Komesha.....	2,943	112	123	0.04	1,694	12.24	8
Mao Komo Special.....	4,272	1,687	1,880	0.44	40,630	19.53	7
Kemeshi Zone	18,583	4,714	5,433	0.29	55,636	8.98	3
Yaso	3,683	744	822	0.22	9,801	10.63	2
Sirba Abay.....	2,505	218	218	0.09	2,211	10.37	5
Kamashi.....	2,768	666	701	0.25	5,631	7.63	3
Agalo Meti	3,539	538	563	0.16	4,858	8.17	3
Belo Jegonfoy.....	6,088	2,549	3,129	0.51	33,135	8.90	3

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)
Benshangul-Gumuz Region	122,033	40,007	47,065	0.39	267,648	4.90	5
Metekel Zone	47,248	19,081	23,622	0.50	112,749	3.86	4
Dangur.....	6,230	1,592	2,053	0.33	9,499	3.34	4
Guba.....	3,691	*	*	-	*	*	*
Wenbera	8,753	4,271	5,196	0.59	42,817	6.85	3
Mandura	5,480	745	1,045	0.19	4,116	2.81	3
Dibate.....	9,136	5,197	6,624	0.73	23,283	2.72	3
Pawe.....	8,736	4,853	5,535	0.63	21,459	3.41	7
Bulen	5,223	2,419	3,165	0.61	11,554	2.77	2
Asosa Zone	56,202	16,276	18,070	0.32	129,441	6.47	7
Menge.....	8,563	406	509	0.06	4,141	7.10	4
Kurmak.....	3,723	-	-	-	-	-	-
Asosa.....	17,602	8,396	8,942	0.51	59,753	6.26	7
Sherkole.....	4,432	-	-	-	-	-	-
Bambasi.....	8,616	4,365	4,930	0.57	39,165	7.06	7
Oda Godere	6,052	1,403	1,737	0.29	11,913	5.65	4
Komesha.....	2,943	96	111	0.04	619	4.77	8
Mao Komo Special.....	4,272	1,611	1,842	0.43	13,850	6.57	5
Kemeshi Zone.....	18,583	4,650	5,372	0.29	25,457	4.25	3
Yaso	3,683	741	827	0.22	3,021	3.45	2
Sirba Abay.....	2,505	201	205	0.08	1,344	6.57	5
Kamashi.....	2,768	670	730	0.26	3,578	4.70	4
Agalo Meti	3,539	519	532	0.15	2,604	4.82	4
Belo Jegonfoy.....	6,088	2,518	3,078	0.51	14,911	4.10	3

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)
Benshangul-Gumuz Region	122,033	40,318	49,620	0.41	183,542	3.05	3
Metekel Zone	47,248	19,263	25,525	0.54	86,391	2.58	3
Dangur.....	6,230	1,566	2,223	0.36	8,114	2.68	3
Guba.....	3,691	*	*	-	*	*	*
Wenbera	8,753	4,285	5,389	0.62	17,395	2.58	3
Mandura	5,480	730	1,062	0.19	3,896	2.51	2
Dibate.....	9,136	5,324	7,230	0.79	20,820	2.14	2
Pawe.....	8,736	4,934	6,388	0.73	22,940	2.78	3
Bulen	5,223	2,420	3,229	0.62	13,209	3.13	2
Asosa Zone	56,202	16,355	18,704	0.33	75,062	3.55	4
Menge.....	8,563	447	506	0.06	3,090	5.62	3
Kurmak.....	3,723	-	-	-	-	-	-
Asosa.....	17,602	8,328	9,168	0.52	38,360	3.81	4
Sherkole.....	4,432	-	-	-	-	-	-
Bambasi.....	8,616	4,395	5,294	0.61	19,273	3.07	4
Oda Godere	6,052	1,411	1,697	0.28	5,027	2.47	3
Komesha.....	2,943	105	105	0.04	670	6.38	6
Mao Komo Special.....	4,272	1,669	1,935	0.45	8,642	3.85	3
Kemeshi Zone.....	18,583	4,700	5,391	0.29	22,089	3.56	2
Yaso	3,683	758	839	0.23	2,280	2.54	2
Sirba Abay.....	2,505	189	197	0.08	476	2.35	4
Kamashi.....	2,768	660	690	0.25	1,880	2.64	3
Agalo Meti	3,539	545	578	0.16	1,136	1.80	3
Belo Jegonfoy.....	6,088	2,548	3,088	0.51	16,316	4.44	2

TABLE 8.13A: -Number of Holders Reporting Sickle Owned, Quantity Reported, Replacement Value, and Duration of Service of Sickle, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Sickles Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Sickle (Birr)	Average Duration of Service of Sickle (Years)
Benshangul-Gumuz Region	122,033	93,840	166,586	1.37	1,296,533	4.58	5
Metekel Zone	47,248	40,143	84,686	1.79	643,419	3.83	4
Dangur.....	6,230	5,445	10,528	1.69	93,515	5.04	4
Guba.....	3,691	1,257	2,500	0.68	15,650	3.13	5
Wenbera	8,753	7,869	17,247	1.97	155,024	4.17	5
Mandura	5,480	5,355	13,427	2.45	62,167	1.86	4
Dibate.....	9,136	8,294	18,583	2.03	115,045	2.80	4
Pawe.....	8,736	6,936	10,537	1.21	108,466	6.97	6
Bulen	5,223	4,988	11,864	2.27	93,552	3.46	4
Asosa Zone	56,202	38,888	55,030	0.98	506,060	6.45	6
Menge.....	8,563	3,780	4,675	0.55	41,350	7.02	5
Kurmak.....	3,723	2,261	3,146	0.85	23,820	5.53	5
Asosa.....	17,602	13,656	20,637	1.17	208,079	6.59	7
Sherkole.....	4,432	3,247	4,957	1.12	35,160	4.70	4
Bambasi.....	8,616	6,881	9,873	1.15	90,000	6.39	7
Oda Godere	6,052	3,913	4,815	0.80	41,716	7.04	5
Komesha.....	2,943	1,929	2,473	0.84	25,661	8.06	5
Mao Komo Special.....	4,272	3,221	4,454	1.04	40,273	6.48	6
Kemeshi Zone	18,583	14,808	26,870	1.45	147,054	3.08	5
Yaso	3,683	3,305	6,856	1.86	22,676	1.67	4
Sirba Abay.....	2,505	1,720	2,489	0.99	19,562	5.23	7
Kamashi.....	2,768	2,010	3,218	1.16	17,827	3.52	5
Agalo Meti	3,539	2,823	4,435	1.25	16,883	2.46	5
Belo Jegonfoy.....	6,088	4,951	9,872	1.62	70,106	3.66	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)
Benshangul-Gumuz Region	122,033	559	762	0.01	3,302	3.71	6
Metekel Zone	47,248	380	567	0.01	1,510	1.86	5
Dangur.....	6,230	*	*	-	*	*	*
Guba.....	3,691	-	-	-	-	-	-
Wenbera	8,753	102	154	0.02	474	*	4
Mandura	5,480	*	*	-	*	*	*
Dibate.....	9,136	*	*	-	*	*	*
Pawe.....	8,736	109	151	0.02	361	1.49	6
Bulen	5,223	*	*	-	*	*	*
Asosa Zone	56,202	*	*	-	*	*	*
Menge.....	8,563	-	-	-	-	-	-
Kurmak.....	3,723	*	*	-	*	*	*
Asosa.....	17,602	*	*	-	*	*	*
Sherkole.....	4,432	-	-	-	-	-	-
Bambasi.....	8,616	-	-	-	-	-	-
Oda Godere	6,052	-	-	-	-	-	-
Komesha.....	2,943	-	-	-	-	-	-
Mao Komo Special.....	4,272	-	-	-	-	-	-
Kemeshi Zone	18,583	88	103	0.01	502	4.73	8
Yaso	3,683	34	49	0.01	59	0.89	1
Sirba Abay.....	2,505	*	*	-	*	*	*
Kamashi.....	2,768	*	*	-	*	*	*
Agalo Meti	3,539	*	*	-	*	*	*
Belo Jegonfoy.....	6,088	*	*	-	*	*	*

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)
Benshangul-Gumuz Region	122,033	23,042	45,355	0.37	81,684	0.96	3
Metekel Zone	47,248	16,999	36,091	0.76	61,395	0.81	3
Dangur.....	6,230	1,258	2,710	0.43	6,128	1.18	4
Guba.....	3,691	11	53	0.01	*	0.78	3
Wenbera	8,753	3,750	7,677	0.88	14,160	0.92	3
Mandura	5,480	1,778	3,536	0.65	4,415	0.58	2
Dibate.....	9,136	4,555	10,979	1.20	15,691	0.59	2
Pawe.....	8,736	3,562	6,755	0.77	13,103	1.00	3
Bulen.....	5,223	2,084	4,381	0.84	7,743	0.86	2
Asosa Zone	56,202	5,298	7,967	0.14	17,756	1.57	3
Menge.....	8,563	*	*	-	*	*	*
Kurmak.....	3,723	210	229	0.06	449	1.83	2
Asosa.....	17,602	3,279	4,733	0.27	10,690	1.65	3
Sherkole.....	4,432	*	*	-	*	*	*
Bambasi.....	8,616	1,176	1,728	0.20	3,600	1.37	3
Oda Godere	6,052	414	951	0.16	1,041	0.49	2
Komesha.....	2,943	-	-	-	-	-	-
Mao Komo Special.....	4,272	*	*	-	*	*	*
Kemeshi Zone.....	18,583	745	1,296	0.07	2,533	1.11	3
Yaso	3,683	272	446	0.12	875	0.63	2
Sirba Abay.....	2,505	64	122	0.05	183	0.88	*
Kamashi.....	2,768	196	324	0.12	465	1.23	4
Agalo Meti	3,539	74	205	0.06	320	0.67	3
Belo Jegonfoy.....	6,088	139	198	0.03	690	2.62	4

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)
Benshangul-Gumuz Region	122,033	27,015	67,057	0.55	66,922	0.53	2
Metekel Zone	47,248	9,044	30,798	0.65	25,265	0.35	2
Dangur.....	6,230	1,627	15,289	2.45	7,392	0.07	1
Guba.....	3,691	162	1,537	0.42	266	0.03	1
Wenbera	8,753	3,490	6,790	0.78	11,101	0.83	3
Mandura	5,480	1,023	2,296	0.42	925	0.18	1
Dibate.....	9,136	1,059	2,112	0.23	2,042	0.69	2
Pawe.....	8,736	142	191	0.02	332	1.31	3
Bulen.....	5,223	1,541	2,583	0.49	3,207	0.73	2
Asosa Zone	56,202	16,866	32,866	0.58	36,891	0.68	2
Menge.....	8,563	2,431	3,950	0.46	4,498	0.71	2
Kurmak.....	3,723	1,309	2,207	0.59	5,533	1.49	2
Asosa.....	17,602	5,725	12,266	0.70	8,590	0.36	1
Sherkole.....	4,432	1,604	2,588	0.58	6,568	1.57	2
Bambasi.....	8,616	3,018	6,623	0.77	4,329	0.33	1
Oda Godere	6,052	819	2,192	0.36	1,626	*	1
Komesha.....	2,943	257	493	0.17	779	0.95	3
Mao Komo Special.....	4,272	1,702	2,547	0.60	4,968	1.67	4
Kemeshi Zone	18,583	1,104	3,393	0.18	4,766	0.63	2
Yaso	3,683	133	186	0.05	300	0.94	2
Sirba Abay.....	2,505	*	*	-	*	*	*
Kamashi.....	2,768	195	382	0.14	667	0.80	2
Agalo Meti	3,539	138	342	0.10	265	0.43	3
Belo Jegonfoy.....	6,088	582	2,354	0.39	3,364	0.60	1

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)
Benshangul-Gumuz Region	122,033	364	485	0.00	2,611	4.44	7
Metekel Zone	47,248	180	285	0.01	972	2.32	8
Dangur.....	6,230	*	*	-	*	*	*
Guba.....	3,691	*	*	-	*	*	*
Wenbera	8,753	90	156	0.02	576	*	*
Mandura	5,480	*	*	-	*	*	*
Dibate.....	9,136	*	*	-	*	*	*
Pawe.....	8,736	*	*	-	*	*	*
Bulen.....	5,223	*	*	-	*	*	*
Asosa Zone	56,202	61	74	0.00	*	*	*
Menge.....	8,563	-	-	-	-	-	-
Kurmak.....	3,723	*	*	-	*	*	*
Asosa.....	17,602	*	*	-	*	*	*
Sherkole.....	4,432	-	-	-	-	-	-
Bambasi.....	8,616	*	*	-	*	*	*
Oda Godere	6,052	*	*	-	*	*	*
Komesha.....	2,943	-	-	-	-	-	-
Mao Komo Special.....	4,272	-	-	-	-	-	-
Kemeshi Zone	18,583	123	127	0.01	1,158	8.94	7
Yaso	3,683	*	*	-	*	*	*
Sirba Abay.....	2,505	*	*	-	*	*	*
Kamashi.....	2,768	63	63	0.02	845	13.42	9
Agalo Meti	3,539	28	32	0.01	139	3.62	8
Belo Jegonfoy.....	6,088	26	26	0.00	157	6.05	*

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)
Benshangul-Gumuz Region	122,033	19,124	27,359	0.22	111,111	3.07	6
Metekel Zone	47,248	12,674	19,331	0.41	64,924	2.33	5
Dangur.....	6,230	1,922	3,698	0.59	12,721	1.96	5
Guba.....	3,691	434	784	0.21	2,969	2.26	6
Wenbera	8,753	1,863	2,626	0.30	8,275	2.29	6
Mandura	5,480	1,677	2,725	0.50	7,315	1.66	5
Dibate.....	9,136	2,933	4,633	0.51	12,586	1.82	4
Pawe.....	8,736	1,658	1,904	0.22	9,076	4.25	5
Bulen.....	5,223	2,186	2,960	0.57	11,982	3.00	3
Asosa Zone	56,202	3,694	4,325	0.08	31,593	6.51	7
Menge.....	8,563	71	71	0.01	670	9.43	6
Kurmak.....	3,723	211	384	0.10	1,189	1.76	2
Asosa.....	17,602	1,821	2,029	0.12	17,766	7.88	7
Sherkole.....	4,432	202	289	0.07	861	1.91	2
Bambasi.....	8,616	889	964	0.11	6,847	6.69	8
Oda Godere	6,052	396	459	0.08	4,097	8.00	9
Komesha.....	2,943	-	-	-	-	-	-
Mao Komo Special.....	4,272	*	*	-	*	*	*
Kemeshi Zone	18,583	2,757	3,703	0.20	14,594	2.95	8
Yaso	3,683	239	292	0.08	741	2.10	6
Sirba Abay.....	2,505	837	1,223	0.49	4,603	2.48	8
Kamashi.....	2,768	267	335	0.12	1,424	3.52	10
Agalo Meti	3,539	880	1,202	0.34	4,287	2.67	8
Belo Jegonfoy.....	6,088	533	651	0.11	3,538	4.45	9

TABLE 8. 19A: - 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)
Benshangul-Gumuz Region	122,033	484	719	0.01	7,683	9.04	5
Metekel Zone	47,248	149	239	0.01	2,868	8.84	4
Dangur.....	6,230	*	*	-	*	*	*
Guba.....	3,691	-	-	-	-	-	-
Wenbera	8,753	*	*	-	*	*	*
Mandura	5,480	*	*	-	*	*	*
Dibate.....	9,136	71	110	0.01	*	*	4
Pawe.....	8,736	*	*	-	*	*	*
Bulen.....	5,223	-	-	-	-	-	-
Asosa Zone	56,202	264	366	0.01	2,924	7.22	5
Menge.....	8,563	*	*	-	*	*	*
Kurmak.....	3,723	*	*	-	*	*	*
Asosa.....	17,602	*	*	-	*	*	*
Sherkole.....	4,432	-	-	-	-	-	-
Bambasi.....	8,616	*	*	-	*	*	*
Oda Godere	6,052	*	*	-	*	*	*
Komesha.....	2,943	67	*	-	*	*	*
Mao Komo Special.....	4,272	*	*	-	*	*	*
Kemeshi Zone.....	18,583	71	115	0.01	*	*	7
Yaso	3,683	43	71	0.02	306	*	*
Sirba Abay.....	2,505	*	*	-	*	*	*
Kamashi.....	2,768	*	*	-	*	*	*
Agalo Meti	3,539	-	-	-	-	-	-
Belo Jegonfoy.....	6,088	*	*	-	*	*	*

TABLE 8.20A: - 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)
Benshangul-Gumuz Region	122,033	119	119	0.00	*	*	*
Metekel Zone	47,248	*	*	-	*	*	*
Dangur.....	6,230	-	-	-	-	-	-
Guba.....	3,691	-	-	-	-	-	-
Wenbera	8,753	*	*	-	*	*	*
Mandura	5,480	-	-	-	-	-	-
Dibate.....	9,136	-	-	-	-	-	-
Pawe.....	8,736	*	*	-	*	*	*
Bulen.....	5,223	-	-	-	-	-	-
Asosa Zone	56,202	*	*	-	*	*	*
Menge.....	8,563	-	-	-	-	-	-
Kurmak.....	3,723	-	-	-	-	-	-
Asosa.....	17,602	*	*	-	*	*	*
Sherkole.....	4,432	-	-	-	-	-	-
Bambasi.....	8,616	-	-	-	-	-	-
Oda Godere	6,052	-	-	-	-	-	-
Komesha.....	2,943	-	-	-	-	-	-
Mao Komo Special.....	4,272	-	-	-	-	-	-
Kemeshi Zone.....	18,583	52	52	0.00	1,306	25.12	1
Yaso	3,683	-	-	-	-	-	-
Sirba Abay.....	2,505	-	-	-	-	-	-
Kamashi.....	2,768	-	-	-	-	-	-
Agalo Meti	3,539	-	-	-	-	-	-
Belo Jegonfoy	6,088	52	52	0.01	1,306	25.12	1

TABLE 8.21A: - 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)
Benshangul-Gumuz Region	122,033	131	204	0.00	47,477	145.30	3
Metekel Zone	47,248	-	-	-	-	-	-
Dangur.....	6,230	-	-	-	-	-	-
Guba.....	3,691	-	-	-	-	-	-
Wenbera	8,753	-	-	-	-	-	-
Mandura	5,480	-	-	-	-	-	-
Dibate.....	9,136	-	-	-	-	-	-
Pawe.....	8,736	-	-	-	-	-	-
Bulen.....	5,223	-	-	-	-	-	-
Asosa Zone	56,202	-	-	-	-	-	-
Menge.....	8,563	-	-	-	-	-	-
Kurmak.....	3,723	-	-	-	-	-	-
Asosa.....	17,602	-	-	-	-	-	-
Sherkole.....	4,432	-	-	-	-	-	-
Bambasi.....	8,616	-	-	-	-	-	-
Oda Godere	6,052	-	-	-	-	-	-
Komesha.....	2,943	-	-	-	-	-	-
Mao Komo Special.....	4,272	-	-	-	-	-	-
Kemeshi Zone	18,583	131	204	0.01	47,477	145.30	3
Yaso	3,683	15	15	0.00	3,034	202.27	10
Sirba Abay.....	2,505	-	-	-	-	-	-
Kamashi.....	2,768	-	-	-	-	-	-
Agalo Meti	3,539	-	-	-	-	-	-
Belo Jegonfoy.....	6,088	116	189	0.03	44,443	140.78	3

TABLE 8.22A: -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)
Benshangul-Gumuz Region	122,033	37,325	70,623	0.58	37,741,909	274.67	6
Metekel Zone	47,248	17,758	37,991	0.80	22,726,862	277.08	6
Dangur.....	6,230	1,473	3,069	0.49	2,323,042	361.91	6
Guba.....	3,691	*	*	-	*	*	*
Wenbera	8,753	3,946	8,452	0.97	4,340,516	247.42	5
Mandura	5,480	666	1,648	0.30	1,019,113	247.47	7
Dibate.....	9,136	5,100	12,676	1.39	7,697,022	234.02	6
Pawe.....	8,736	4,262	7,356	0.84	4,370,968	339.36	5
Bulen.....	5,223	2,308	4,783	0.92	2,970,616	303.41	6
Asosa Zone	56,202	15,685	25,414	0.45	11,587,180	277.92	6
Menge.....	8,563	557	1,059	0.12	630,173	283.81	4
Kurmak.....	3,723	*	*	-	*	*	*
Asosa.....	17,602	8,278	12,823	0.73	5,757,447	288.60	6
Sherkole.....	4,432	*	*	-	*	*	*
Bambasi.....	8,616	3,968	6,789	0.79	2,950,082	252.24	5
Oda Godere	6,052	1,055	2,021	0.33	993,521	253.04	5
Komesha.....	2,943	54	113	0.04	62,503	269.88	3
Mao Komo Special.....	4,272	1,753	2,579	0.60	1,173,829	307.84	8
Kemeshi Zone	18,583	3,883	7,218	0.39	3,427,868	250.57	4
Yaso	3,683	577	1,030	0.28	484,129	262.01	6
Sirba Abay.....	2,505	120	178	0.07	78,145	296.51	5
Kamashi.....	2,768	530	893	0.32	378,135	238.24	4
Agalo Meti	3,539	479	864	0.24	431,342	272.54	5
Belo Jegonfoy.....	6,088	2,177	4,254	0.70	2,056,117	243.95	4

TABLE 8.23A: - Number of Holders Reporting Ass (For transportation) 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)
Benshangul-Gumuz Region	122,033	19,020	23,484	0.19	6,995,649	239.61	6
Metekel Zone	47,248	9,028	10,635	0.23	2,920,199	226.85	5
Dangur.....	6,230	1,102	1,293	0.21	366,806	242.97	4
Guba.....	3,691	628	915	0.25	351,051	268.71	6
Wenbera	8,753	2,994	3,491	0.40	848,747	210.09	5
Mandura	5,480	496	638	0.12	120,262	152.87	7
Dibate.....	9,136	1,938	2,093	0.23	588,811	241.37	6
Pawe.....	8,736	290	347	0.04	69,521	169.73	5
Bulen	5,223	1,580	1,859	0.36	575,000	246.09	5
Asosa Zone	56,202	7,964	10,343	0.18	3,362,767	254.37	7
Menge.....	8,563	2,208	3,015	0.35	1,031,835	257.54	6
Kurmak.....	3,723	291	301	0.08	123,655	397.43	10
Asosa.....	17,602	1,653	2,036	0.12	629,704	257.79	6
Sherkole.....	4,432	794	1,073	0.24	386,601	273.93	6
Bambasi.....	8,616	1,046	1,521	0.18	464,529	210.00	8
Oda Godere	6,052	854	1,094	0.18	318,472	230.81	6
Komesha.....	2,943	522	687	0.23	253,460	277.67	7
Mao Komo Special.....	4,272	595	616	0.14	154,512	248.96	8
Kemeshi Zone	18,583	2,028	2,505	0.13	712,683	232.97	6
Yaso	3,683	347	410	0.11	105,988	218.18	5
Sirba Abay.....	2,505	323	392	0.16	119,898	252.66	6
Kamashi.....	2,768	413	512	0.18	159,486	256.59	6
Agalo Meti	3,539	429	565	0.16	158,156	215.46	7
Belo Jegonfoy.....	6,088	515	626	0.10	169,154	226.82	6

TABLE 8.24A: - Number of Holders Reporting Cattle (Working Age for Threshing and Transportation) Owned, Quantity Reported, Replacement Value and Average age of Cattle, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Cattle Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Cattle (Birr)	Average Age of Cattle (Years)
Benshangul-Gumuz Region	122,033	40,001	109,360	0.90	53,259,868	178.70	6
Metekel Zone	47,248	19,216	63,146	1.34	33,633,095	167.53	6
Dangur.....	6,230	1,611	5,251	0.84	3,506,073	209.71	6
Guba.....	3,691	108	312	0.08	131,039	160.84	8
Wenbera	8,753	4,089	15,665	1.79	6,922,513	122.86	6
Mandura	5,480	753	3,793	0.69	1,787,627	99.07	8
Dibate.....	9,136	5,668	17,854	1.95	10,145,813	176.82	6
Pawe.....	8,736	4,545	12,065	1.38	6,786,628	211.04	6
Bulen	5,223	2,441	8,208	1.57	4,353,402	173.49	6
Asosa Zone	56,202	16,361	34,513	0.61	14,499,200	204.28	6
Menge.....	8,563	591	1,196	0.14	598,751	249.59	4
Kurmak.....	3,723	*	*	-	*	*	*
Asosa.....	17,602	8,714	17,736	1.01	7,348,506	209.03	6
Sherkole.....	4,432	*	*	-	*	*	*
Bambasi.....	8,616	3,921	7,821	0.91	3,299,362	215.25	5
Oda Godere	6,052	1,094	2,979	0.49	1,284,547	168.18	5
Komesha.....	2,943	60	155	0.05	93,565	220.96	5
Mao Komo Special.....	4,272	1,960	4,596	1.08	1,854,844	176.71	7
Kemeshi Zone	18,583	4,424	11,701	0.63	5,127,573	163.49	5
Yaso	3,683	900	2,508	0.68	935,147	142.18	6
Sirba Abay.....	2,505	131	196	0.08	79,551	288.95	5
Kamashi.....	2,768	636	1,945	0.70	924,414	117.90	5
Agalo Meti	3,539	502	1,110	0.31	496,334	213.16	5
Belo Jegonfoy.....	6,088	2,255	5,941	0.98	2,692,127	174.02	4

TABLE 8.25A:- Number of Holders Reporting Horse (For transportation) Owned, Quantity Reported, Replacement Value and Average age of Horse, for Private Holdings.

Geographic Area	Total Number of Crop Holders	Number of Holders Reporting	Number of Horses Reported	Average Number Per Holder	Total Value (Birr)	Average Replacement Value Per Horse (Birr)	Average Age of Horse (Years)
Benshangul-Gumuz Region	122,033	225	351	0.00	202,890	376.84	8
Metekel Zone	47,248	183	310	0.01	181,945	359.12	8
Dangur	6,230	-	-	-	-	-	-
Guba	3,691	-	-	-	-	-	-
Wenbera	8,753	156	283	0.03	158,792	311.57	8
Mandura	5,480	-	-	-	-	-	-
Dibate	9,136	*	*	-	*	*	*
Pawe	8,736	-	-	-	-	-	-
Bulen	5,223	-	-	-	-	-	-
Asosa Zone	56,202	*	*	-	*	*	*
Menge	8,563	-	-	-	-	-	-
Kurmak	3,723	-	-	-	-	-	-
Asosa	17,602	-	-	-	-	-	-
Sherkole	4,432	-	-	-	-	-	-
Bambasi	8,616	-	-	-	-	-	-
Oda Godere	6,052	-	-	-	-	-	-
Komesha	2,943	-	-	-	-	-	-
Mao Komo Special	4,272	*	*	-	*	*	*
Kemeshi Zone	18,583	27	27	0.00	6,215	230.17	5
Yaso	3,683	-	-	-	-	-	-
Sirba Abay	2,505	-	-	-	-	-	-
Kamashi	2,768	27	27	0.01	6,215	230.17	5
Agalo Meti	3,539	-	-	-	-	-	-
Belo Jegonfoy	6,088	-	-	-	-	-	-

TABLE 8.26A:- 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)
Benshangul-Gumuz Region	122,033	10,485	19,100	0.16	138,175	4.11	5
Metekel Zone	47,248	4,441	10,359	0.22	70,398	2.62	5
Dangur	6,230	2,130	6,437	1.03	49,686	2.52	6
Guba	3,691	21	38	0.01	337	4.34	*
Wenbera	8,753	403	575	0.07	2,824	3.49	3
Mandura	5,480	406	838	0.15	5,116	2.69	6
Dibate	9,136	440	855	0.09	*	3.34	3
Pawe	8,736	1,011	1,578	0.18	5,541	2.22	6
Bulen	5,223	*	*	-	*	*	*
Asosa Zone	56,202	4,122	5,975	0.11	46,617	6.09	4
Menge	8,563	450	488	0.06	*	*	5
Kurmak	3,723	-	-	-	-	-	-
Asosa	17,602	1,663	2,631	0.15	13,523	3.54	3
Sherkole	4,432	-	-	-	-	-	-
Bambasi	8,616	1,559	2,204	0.26	15,619	5.23	4
Oda Godere	6,052	347	534	0.09	3,165	4.56	4
Komesha	2,943	103	118	0.04	2,863	22.41	6
Mao Komo Special	4,272	-	-	-	-	-	-
Kemeshi Zone	18,583	1,923	2,767	0.15	21,161	5.47	5
Yaso	3,683	851	1,166	0.32	4,536	2.86	3
Sirba Abay	2,505	331	421	0.17	8,873	15.65	13
Kamashi	2,768	155	196	0.07	1,467	6.04	3
Agalo Meti	3,539	522	887	0.25	5,567	3.97	5
Belo Jegonfoy	6,088	65	97	0.02	717	5.16	9

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	%
Benshangul-Gumuz Region	9,586	7.86	54,862	44.96	40,827	33.46	12,190	9.99	3,425	2.81	1,143	0.94
Metekel Zone	4,288	9.08	21,591	45.70	15,134	32.03	4,413	9.34	1,299	2.75	523	1.11
Dangur	673	10.80	3,315	53.21	1,742	27.96	363	5.83	119	1.91	18	0.29
Guba.....	134	3.63	1,435	38.88	1,419	38.44	449	12.16	170	4.61	84	2.28
Wenbera	689	7.87	3,369	38.49	3,339	38.15	963	11.00	266	3.04	127	1.45
Mandura	315	5.75	3,804	69.42	1,157	21.11	161	2.94	28	0.51	15	0.27
Dibate.....	502	5.49	3,964	43.39	3,255	35.63	1,065	11.66	270	2.96	80	0.88
Pawe.....	1,927	22.06	3,553	40.67	2,193	25.10	723	8.28	241	2.76	99	1.13
Bulen.....	49	0.94	2,150	41.16	2,028	38.83	688	13.17	207	3.96	101	1.93
Asosa Zone	4,202	7.48	26,015	46.29	18,665	33.21	5,470	9.73	1,425	2.54	425	0.76
Menge	334	3.90	4,372	51.06	2,792	32.61	829	9.68	183	2.14	53	0.62
Kurmak	296	7.95	1,812	48.67	1,176	31.59	311	8.35	90	2.42	38	1.02
Asosa.....	1,943	11.04	7,770	44.14	5,467	31.06	1,692	9.61	611	3.47	119	0.68
Sherkole	13	0.29	1,903	42.94	1,857	41.90	490	11.06	130	2.93	39	0.88
Bambasi	827	9.60	3,495	40.56	3,077	35.71	961	11.15	162	1.88	94	1.09
Oda Godere	292	4.82	3,090	51.06	2,002	33.08	512	8.46	119	1.97	37	0.61
Komesha	152	5.16	1,302	44.24	964	32.76	422	14.34	58	1.97	45	1.53
Mao Komo Special.....	345	8.08	2,270	53.14	1,330	31.13	254	5.95	73	1.71	-	-
Kemeshi Zone.....	1,096	5.90	7,256	39.05	7,029	37.82	2,306	12.41	701	3.77	195	1.05
Yaso	189	5.13	1,692	45.94	1,436	38.99	255	6.92	85	2.31	26	0.71
Sirba Abay	125	4.99	910	36.33	1,018	40.64	375	14.97	64	2.55	13	0.52
Kamashi	80	2.89	880	31.79	1,124	40.61	449	16.22	183	6.61	52	1.88
Agalo Meti	225	6.36	1,372	38.77	1,395	39.42	366	10.34	142	4.01	39	1.10
Belo Jegonfoy	478	7.85	2,402	39.45	2,057	33.79	860	14.13	226	3.71	65	1.07

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	%
Benshangul-Gumuz Region	75,726	62.05	35,302	28.93	8,321	6.82	1,991	1.63	524	0.43	169	0.14
Metekel Zone.....	39,599	83.81	5,823	12.32	1,392	2.95	294	0.62	102	0.22	38	0.08
Dangur.....	4,856	77.95	926	14.86	380	6.10	59	0.95	-	-	9	0.14
Guba.....	3,248	88.00	205	5.55	105	2.84	81	2.19	48	1.30	4	0.11
Wenbera	6,223	71.10	1,746	19.95	617	7.05	103	1.18	44	0.50	20	0.23
Mandura	5,312	96.93	141	2.57	27	0.49	-	-	-	-	-	-
Dibate.....	8,428	92.25	601	6.58	77	0.84	30	0.33	-	-	-	-
Pawe.....	6,537	74.83	2,014	23.05	154	1.76	21	0.24	10	0.11	-	-
Bulen.....	4,994	95.62	191	3.66	33	0.63	-	-	-	-	5	0.10
Asosa Zone	27,704	49.29	22,458	39.96	4,627	8.23	1,041	1.85	255	0.45	117	0.21
Menge	4,801	56.07	2,985	34.86	622	7.26	142	1.66	13	0.15	-	-
Kurmak	2,165	58.15	1,358	36.48	156	4.19	44	1.18	-	-	-	-
Asosa.....	6,835	38.83	8,973	50.98	1,430	8.12	247	1.40	100	0.57	17	0.10
Sherkole	2,864	64.62	1,235	27.87	264	5.96	48	1.08	21	0.47	-	-
Bambasi.....	3,945	45.79	3,572	41.46	739	8.58	229	2.66	54	0.63	77	0.89
Oda Godere	4,820	79.64	1,089	17.99	128	2.12	9	0.15	-	-	6	0.10
Komesha	1,046	35.54	1,181	40.13	602	20.46	90	3.06	24	0.82	-	-
Mao Komo Special.....	1,229	28.77	2,066	48.36	685	16.03	231	5.41	44	1.03	17	0.40
Kemeshi Zone.....	8,425	45.34	7,021	37.78	2,301	12.38	655	3.52	167	0.90	14	0.08
Yaso	1,244	33.78	1,643	44.61	453	12.30	306	8.31	35	0.95	2	0.05
Sirba Abay.....	1,589	63.43	592	23.63	260	10.38	34	1.36	18	0.72	12	0.48
Kamashi	727	26.26	1,400	50.58	485	17.52	134	4.84	22	0.79	-	-
Agalo Meti	2,439	68.92	1,014	28.65	78	2.20	8	0.23	-	-	-	-
Belo Jegonfoy.....	2,427	39.87	2,372	38.96	1,025	16.84	173	2.84	91	1.49	-	-

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	%
Benshangul-Gumuz Region	103,042	84.44	17,940	14.70	922	0.76	112	0.09	6	0.00	11	0.01
Metekel Zone	39,769	84.17	7,130	15.09	319	0.68	27	0.06	3	0.01	-	-
Dangur	5,898	94.67	315	5.06	17	0.27	-	-	-	-	-	-
Guba	3,054	82.74	496	13.44	111	3.01	27	0.73	3	0.08	-	-
Wenbera	7,001	79.98	1,731	19.78	21	0.24	-	-	-	-	-	-
Mandura	5,305	96.81	160	2.92	15	0.27	-	-	-	-	-	-
Dibate	6,884	75.35	2,182	23.88	70	0.77	-	-	-	-	-	-
Pawe	7,145	81.79	1,528	17.49	63	0.72	-	-	-	-	-	-
Bulen	4,482	85.81	718	13.75	23	0.44	-	-	-	-	-	-
Asosa Zone	46,441	82.63	9,099	16.19	574	1.02	77	0.14	-	-	11	0.02
Menge	7,937	92.69	557	6.50	32	0.37	37	0.43	-	-	-	-
Kurmak	3,264	87.67	408	10.96	42	1.13	9	0.24	-	-	-	-
Asosa	12,670	71.98	4,646	26.39	286	1.62	-	-	-	-	-	-
Sherkole	3,932	88.72	449	10.13	51	1.15	-	-	-	-	-	-
Bambasi	6,893	80.00	1,673	19.42	40	0.46	10	0.12	-	-	-	-
Oda Godere	5,578	92.17	432	7.14	31	0.51	-	-	-	-	11	0.18
Komesha	2,160	73.39	676	22.97	85	2.89	22	0.75	-	-	-	-
Mao Komo Special	4,006	93.77	259	6.06	7	0.16	-	-	-	-	-	-
Kemeshi Zone	16,833	90.58	1,710	9.20	29	0.16	8	0.04	3	0.02	-	-
Yaso	3,564	96.77	113	3.07	3	0.08	-	-	3	0.08	-	-
Sirba Abay	2,452	97.88	53	2.12	-	-	-	-	-	-	-	-
Kamashi	2,284	82.51	473	17.09	11	0.40	-	-	-	-	-	-
Agalo Meti	3,378	95.45	153	4.32	-	-	8	0.23	-	-	-	-
Belo Jegonfoy	5,154	84.66	919	15.10	15	0.25	-	-	-	-	-	-

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	%
Benshangul-Gumuz Region	43,101	35.32	25,830	21.17	28,253	23.15	13,705	11.23	6,440	5.28	4,704	3.85
Metekel Zone	20,136	42.62	9,184	19.44	9,542	20.20	4,906	10.38	2,272	4.81	1,208	2.56
Dangur	3,196	51.30	1,524	24.46	835	13.40	387	6.21	221	3.55	67	1.08
Guba	2,877	77.95	156	4.23	308	8.34	182	4.93	92	2.49	76	2.06
Wenbera	911	10.41	2,346	26.80	2,697	30.81	1,510	17.25	723	8.26	566	6.47
Mandura	4,462	81.42	168	3.07	344	6.28	307	5.60	153	2.79	46	0.84
Dibate	1,764	19.31	2,232	24.43	3,072	33.63	1,301	14.24	601	6.58	166	1.82
Pawe	6,527	74.71	1,976	22.62	197	2.26	24	0.27	12	0.14	-	-
Bulen	400	7.66	782	14.97	2,090	40.02	1,196	22.90	469	8.98	286	5.48
Asosa Zone	20,387	36.27	13,762	24.49	11,846	21.08	5,390	9.59	2,466	4.39	2,351	4.18
Menge	822	9.60	1,989	23.23	2,815	32.87	1,334	15.58	740	8.64	863	10.08
Kurmak	3,007	80.77	361	9.70	204	5.48	59	1.58	30	0.81	62	1.67
Asosa	8,748	49.70	5,112	29.04	1,921	10.91	1,037	5.89	465	2.64	319	1.81
Sherkole	2,403	54.22	848	19.13	622	14.03	317	7.15	141	3.18	101	2.28
Bambasi	4,230	49.09	1,998	23.19	1,440	16.71	542	6.29	178	2.07	228	2.65
Oda Godere	675	11.15	1,262	20.85	2,431	40.17	862	14.24	471	7.78	351	5.80
Komesha	358	12.16	786	26.71	740	25.14	533	18.11	258	8.77	268	9.11
Mao Komo Special	143	3.35	1,406	32.91	1,675	39.21	706	16.53	183	4.28	159	3.72
Kemeshi Zone	2,580	13.88	2,884	15.52	6,864	36.94	3,408	18.34	1,702	9.16	1,145	6.16
Yaso	827	22.45	565	15.34	1,453	39.45	483	13.11	208	5.65	147	3.99
Sirba Abay	45	1.80	201	8.02	1,078	43.03	666	26.59	330	13.17	185	7.39
Kamashi	419	15.14	343	12.39	868	31.36	516	18.64	354	12.79	268	9.68
Agalo Meti	632	17.86	283	8.00	1,193	33.71	866	24.47	387	10.94	178	5.03
Belo Jegonfoy	658	10.81	1,492	24.51	2,271	37.30	877	14.41	423	6.95	367	6.03

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	%
Benshangul-Gumuz Region	116,849	95.75	3,806	3.12	1,233	1.01	93	0.08	42	0.03	10	0.01
Metekel Zone	46,410	98.23	555	1.17	193	0.41	51	0.11	29	0.06	10	0.02
Dangur	6,215	99.76	8	0.13	7	0.11	-	-	-	-	-	-
Guba	3,691	100.00	-	-	-	-	-	-	-	-	-	-
Wenbera	8,216	93.86	304	3.47	155	1.77	39	0.45	29	0.33	10	0.11
Mandura	5,475	99.91	5	0.09	-	-	-	-	-	-	-	-
Dibate	9,061	99.18	61	0.67	14	0.15	-	-	-	-	-	-
Pawe	8,618	98.65	118	1.35	-	-	-	-	-	-	-	-
Bulen	5,137	98.35	58	1.11	16	0.31	12	0.23	-	-	-	-
Asosa Zone	52,360	93.16	3,076	5.47	730	1.30	36	0.06	-	-	-	-
Menge	8,498	99.24	65	0.76	-	-	-	-	-	-	-	-
Kurmak	3,627	97.42	79	2.12	17	0.46	-	-	-	-	-	-
Asosa	14,643	83.19	2,316	13.16	607	3.45	36	0.20	-	-	-	-
Sherkole	4,411	99.53	21	0.47	-	-	-	-	-	-	-	-
Bambasi	8,109	94.12	407	4.72	100	1.16	-	-	-	-	-	-
Oda Godere	5,949	98.30	97	1.60	6	0.10	-	-	-	-	-	-
Komesha	2,897	98.44	46	1.56	-	-	-	-	-	-	-	-
Mao Komo Special	4,227	98.95	45	1.05	-	-	-	-	-	-	-	-
Kemeshi Zone	18,078	97.28	176	0.95	310	1.67	6	0.03	13	0.07	-	-
Yaso	3,683	100.00	-	-	-	-	-	-	-	-	-	-
Sirba Abay	2,505	100.00	-	-	-	-	-	-	-	-	-	-
Kamashi	2,662	96.17	96	3.47	4	0.14	6	0.22	-	-	-	-
Agalo Meti	3,257	92.03	21	0.59	248	7.01	-	-	13	0.37	-	-
Belo Jegonfoy	5,971	98.08	58	0.95	59	0.97	-	-	-	-	-	-

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	%
Benshangul-Gumuz Region	97,509	79.90	17,076	13.99	4,346	3.56	1,920	1.57	579	0.47	603	0.49
Metekel Zone	41,188	87.17	5,034	10.65	706	1.49	255	0.54	39	0.08	26	0.06
Dangur	5,405	86.76	706	11.33	69	1.11	36	0.58	7	0.11	7	0.11
Guba	3,011	81.58	458	12.41	198	5.36	18	0.49	3	0.08	3	0.08
Wenbera	8,488	96.97	255	2.91	10	0.11	-	-	-	-	-	-
Mandura	5,289	96.51	156	2.85	9	0.16	26	0.47	-	-	-	-
Dibate	7,674	84.00	980	10.73	297	3.25	140	1.53	29	0.32	16	0.18
Pawe	6,699	76.68	1,892	21.66	109	1.25	36	0.41	-	-	-	-
Bulen	4,621	88.47	587	11.24	15	0.29	-	-	-	-	-	-
Asosa Zone	40,190	71.51	11,028	19.62	2,866	5.10	1,195	2.13	443	0.79	480	0.85
Menge	7,772	90.76	570	6.66	110	1.28	25	0.29	16	0.19	70	0.82
Kurmak	2,432	65.32	535	14.37	346	9.29	257	6.90	59	1.58	94	2.52
Asosa	10,456	59.40	5,609	31.87	1,051	5.97	359	2.04	92	0.52	35	0.20
Sherkole	3,574	80.64	401	9.05	169	3.81	108	2.44	88	1.99	92	2.08
Bambasi	4,834	56.10	2,836	32.92	642	7.45	155	1.80	50	0.58	99	1.15
Oda Godere	4,780	78.98	598	9.88	375	6.20	159	2.63	88	1.45	52	0.86
Komesha	2,146	72.92	404	13.73	172	5.84	132	4.49	51	1.73	38	1.29
Mao Komo Special	4,196	98.22	76	1.78	-	-	-	-	-	-	-	-
Kemeshi Zone	16,132	86.81	1,015	5.46	774	4.17	470	2.53	96	0.52	96	0.52
Yaso	2,903	78.82	183	4.97	264	7.17	285	7.74	35	0.95	13	0.35
Sirba Abay	2,455	98.00	40	1.60	10	0.40	-	-	-	-	-	-
Kamashi	2,223	80.31	260	9.39	235	8.49	36	1.30	14	0.51	-	-
Agalo Meti	2,976	84.09	92	2.60	191	5.40	150	4.24	47	1.33	83	2.35
Belo Jegonfoy	5,575	91.57	439	7.21	74	1.22	-	-	-	-	-	-

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	%
Benshangul-Gumuz Region	81,754	66.99	21,804	17.87	14,620	11.98	772	0.63	2,604	2.13	479	0.39
Metekel Zone	28,053	59.37	9,795	20.73	7,131	15.09	527	1.12	1,411	2.99	331	0.70
Dangur	4,638	74.45	843	13.53	629	10.10	53	0.85	53	0.85	14	0.22
Guba	3,688	99.92	3	0.08	-	-	-	-	-	-	-	-
Wenbera	4,480	51.18	2,551	29.14	1,313	15.00	72	0.82	311	3.55	26	0.30
Mandura	4,744	86.57	216	3.94	325	5.93	7	0.13	170	3.10	18	0.33
Dibate	3,859	42.24	2,785	30.48	1,738	19.02	223	2.44	353	3.86	178	1.95
Pawe	3,834	43.89	2,737	31.33	1,789	20.48	129	1.48	226	2.59	21	0.24
Bulen	2,810	53.80	660	12.64	1,338	25.62	43	0.82	298	5.71	74	1.42
Asosa Zone	39,793	70.80	9,779	17.40	5,502	9.79	196	0.35	815	1.45	117	0.21
Menge	8,117	94.79	232	2.71	183	2.14	13	0.15	9	0.11	9	0.11
Kurmak	3,723	100.00	-	-	-	-	-	-	-	-	-	-
Asosa	9,177	52.14	4,828	27.43	3,006	17.08	45	0.26	506	2.87	40	0.23
Sherkole	4,432	100.00	-	-	-	-	-	-	-	-	-	-
Bambasi	4,236	49.16	2,305	26.75	1,637	19.00	96	1.11	281	3.26	61	0.71
Oda Godere	4,658	76.97	995	16.44	346	5.72	37	0.61	9	0.15	7	0.12
Komesha	2,847	96.74	72	2.45	21	0.71	-	-	3	0.10	-	-
Mao Komo Special	2,604	60.96	1,347	31.53	309	7.23	5	0.12	7	0.16	-	-
Kemeshi Zone	13,907	74.84	2,231	12.01	1,987	10.69	50	0.27	378	2.03	30	0.16
Yaso	2,930	79.55	414	11.24	315	8.55	12	0.33	12	0.33	-	-
Sirba Abay	2,317	92.50	172	6.87	8	0.32	-	-	8	0.32	-	-
Kamashi	2,101	75.90	307	11.09	341	12.32	-	-	19	0.69	-	-
Agalo Meti	3,014	85.17	389	10.99	136	3.84	-	-	-	-	-	-
Belo Jegonfoy	3,545	58.23	949	15.59	1,187	19.50	38	0.62	339	5.57	30	0.49

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	%
Benshangul-Gumuz Region	82,900	67.93	27,986	22.93	8,239	6.75	1,719	1.41	961	0.79	228	0.19
Metekel Zone	28,339	59.98	11,931	25.25	5,099	10.79	1,084	2.29	632	1.34	163	0.34
Dangur	4,673	75.01	1,006	16.15	402	6.45	61	0.98	59	0.95	29	0.47
Guba	3,688	99.92	3	0.08	-	-	-	-	-	-	-	-
Wenbera	4,513	51.56	3,201	36.57	898	10.26	90	1.03	51	0.58	-	-
Mandura	4,751	86.70	401	7.32	255	4.65	48	0.88	25	0.46	-	-
Dibate	3,954	43.28	3,078	33.69	1,554	17.01	267	2.92	217	2.38	66	0.72
Pawe	3,889	44.52	3,008	34.43	1,268	14.51	431	4.93	128	1.47	12	0.14
Bulen	2,873	55.01	1,233	23.61	721	13.80	187	3.58	153	2.93	56	1.07
Asosa Zone	40,520	72.10	12,333	21.94	2,458	4.37	544	0.97	293	0.52	54	0.10
Menge	8,137	95.03	375	4.38	20	0.23	13	0.15	18	0.21	-	-
Kurmak	3,723	100.00	-	-	-	-	-	-	-	-	-	-
Asosa	9,403	53.42	6,754	38.37	1,104	6.27	202	1.15	118	0.67	21	0.12
Sherkole	4,424	99.82	-	-	8	0.18	-	-	-	-	-	-
Bambasi	4,343	50.41	3,105	36.04	778	9.03	250	2.90	129	1.50	11	0.13
Oda Godere	4,862	80.34	1,005	16.61	160	2.64	25	0.41	-	-	-	-
Komesha	2,841	96.53	102	3.47	-	-	-	-	-	-	-	-
Mao Komo Special	2,788	65.26	992	23.22	388	9.08	54	1.26	29	0.68	21	0.49
Kemeshi Zone	14,040	75.55	3,722	20.03	682	3.67	91	0.49	36	0.19	12	0.06
Yaso	3,009	81.70	575	15.61	99	2.69	-	-	-	-	-	-
Sirba Abay	2,325	92.81	172	6.87	8	0.32	-	-	-	-	-	-
Kamashi	2,106	76.08	592	21.39	70	2.53	-	-	-	-	-	-
Agalo Meti	3,026	85.50	481	13.59	32	0.90	-	-	-	-	-	-
Belo Jegonfoy	3,576	58.74	1,901	31.23	472	7.75	91	1.49	36	0.59	12	0.20

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	%
Benshangul-Gumuz Region	81,461	66.75	29,436	24.12	9,159	7.51	1,533	1.26	372	0.30	72	0.06
Metekel Zone	27,968	59.19	12,668	26.81	5,528	11.70	816	1.73	239	0.51	29	0.06
Dangur	4,626	74.25	1,017	16.32	510	8.19	36	0.58	18	0.29	23	0.37
Guba	3,688	99.92	3	0.08	-	-	-	-	-	-	-	-
Wenbera	4,489	51.29	3,259	37.23	855	9.77	138	1.58	12	0.14	-	-
Mandura	4,750	86.68	434	7.92	253	4.62	34	0.62	9	0.16	-	-
Dibate	3,792	41.51	3,431	37.55	1,599	17.50	189	2.07	125	1.37	-	-
Pawe	3,827	43.81	2,835	32.45	1,693	19.38	334	3.82	47	0.54	-	-
Bulen	2,799	53.59	1,689	32.34	618	11.83	85	1.63	27	0.52	5	0.10
Asosa Zone	39,611	70.48	12,812	22.80	3,005	5.35	626	1.11	107	0.19	41	0.07
Menge	8,108	94.69	386	4.51	49	0.57	20	0.23	-	-	-	-
Kurmak	3,713	99.73	10	0.27	-	-	-	-	-	-	-	-
Asosa	9,061	51.48	6,610	37.55	1,552	8.82	300	1.70	57	0.32	22	0.12
Sherkole	4,432	100.00	-	-	-	-	-	-	-	-	-	-
Bambasi	4,161	48.29	3,269	37.94	885	10.27	248	2.88	42	0.49	11	0.13
Oda Godere	4,678	77.30	1,092	18.04	242	4.00	33	0.55	-	-	7	0.12
Komesha	2,842	96.57	92	3.13	3	0.10	6	0.20	-	-	-	-
Mao Komo Special	2,618	61.28	1,354	31.69	274	6.41	19	0.44	7	0.16	-	-
Kemeshi Zone	13,879	74.69	3,956	21.29	627	3.37	91	0.49	27	0.15	3	0.02
Yaso	2,943	79.91	614	16.67	72	1.95	36	0.98	15	0.41	3	0.08
Sirba Abay	2,299	91.78	190	7.58	8	0.32	8	0.32	-	-	-	-
Kamashi	2,084	75.29	657	23.74	27	0.98	-	-	-	-	-	-
Agalo Meti	3,014	85.17	506	14.30	19	0.54	-	-	-	-	-	-
Belo Jegonfoy	3,540	58.15	1,989	32.67	500	8.21	47	0.77	12	0.20	-	-

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	%
Benshangul-Gumuz Region	81,266	66.59	34,827	28.54	5,115	4.19	652	0.53	155	0.13	18	0.01
Metekel Zone	27,823	58.89	15,508	32.82	3,342	7.07	472	1.00	85	0.18	18	0.04
Dangur	4,429	71.09	1,420	22.79	315	5.06	48	0.77	-	-	18	0.29
Guba	3,688	99.92	3	0.08	-	-	-	-	-	-	-	-
Wenbera	4,454	50.89	3,521	40.23	723	8.26	35	0.40	20	0.23	-	-
Mandura	4,766	86.97	473	8.63	209	3.81	23	0.42	9	0.16	-	-
Dibate	3,822	41.83	4,049	44.32	1,065	11.66	163	1.78	37	0.40	-	-
Pawe	3,868	44.28	4,198	48.05	596	6.82	74	0.85	-	-	-	-
Bulen	2,795	53.51	1,845	35.32	435	8.33	129	2.47	19	0.36	-	-
Asosa Zone	39,583	70.43	15,253	27.14	1,148	2.04	180	0.32	38	0.07	-	-
Menge	8,112	94.73	413	4.82	25	0.29	13	0.15	-	-	-	-
Kurmak	3,714	99.76	9	0.24	-	-	-	-	-	-	-	-
Asosa	9,062	51.48	8,130	46.19	389	2.21	21	0.12	-	-	-	-
Sherkole	4,432	100.00	-	-	-	-	-	-	-	-	-	-
Bambasi	4,182	48.54	3,983	46.23	317	3.68	103	1.20	31	0.36	-	-
Oda Godere	4,667	77.12	1,104	18.24	244	4.03	37	0.61	-	-	-	-
Komesha	2,831	96.19	101	3.43	11	0.37	-	-	-	-	-	-
Mao Komo Special	2,585	60.51	1,514	35.44	161	3.77	5	0.12	7	0.16	-	-
Kemeshi Zone	13,861	74.59	4,065	21.87	625	3.36	-	-	32	0.17	-	-
Yaso	2,939	79.80	665	18.06	79	2.14	-	-	-	-	-	-
Sirba Abay	2,287	91.30	218	8.70	-	-	-	-	-	-	-	-
Kamashi	2,102	75.94	630	22.76	36	1.30	-	-	-	-	-	-
Agalo Meti	3,002	84.83	512	14.47	25	0.71	-	-	-	-	-	-
Belo Jegonfoy	3,531	58.00	2,040	33.51	485	7.97	-	-	32	0.53	-	-

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	%
Benshangul-Gumuz Region	98,981	81.11	9,202	7.54	8,764	7.18	3,052	2.50	1,289	1.06	745	0.61
Metekel Zone	30,240	64.00	5,436	11.51	7,149	15.13	2,590	5.48	1,125	2.38	708	1.50
Dangur	4,972	79.81	419	6.73	492	7.90	198	3.18	82	1.32	67	1.08
Guba.....	3,680	99.70	-	-	3	0.08	-	-	3	0.08	5	0.14
Wenbera.....	4,993	57.04	1,199	13.70	1,665	19.02	596	6.81	266	3.04	34	0.39
Mandura.....	3,702	67.55	778	14.20	583	10.64	212	3.87	125	2.28	80	1.46
Dibate.....	4,582	50.15	1,033	11.31	1,943	21.27	814	8.91	385	4.21	379	4.15
Pawe.....	5,173	59.21	1,463	16.75	1,348	15.43	476	5.45	209	2.39	67	0.77
Bulen.....	3,139	60.10	544	10.42	1,113	21.31	294	5.63	56	1.07	77	1.47
Asosa Zone	50,904	90.57	3,401	6.05	1,362	2.42	365	0.65	140	0.25	30	0.05
Menge	8,557	99.93	-	-	6	0.07	-	-	-	-	-	-
Kurmak	3,513	94.36	191	5.13	19	0.51	-	-	-	-	-	-
Asosa.....	14,324	81.38	2,199	12.49	819	4.65	201	1.14	40	0.23	19	0.11
Sherkole	4,264	96.21	118	2.66	47	1.06	3	0.07	-	-	-	-
Bambasi	7,440	86.35	784	9.10	277	3.21	71	0.82	44	0.51	-	-
Oda Godere	5,638	93.16	88	1.45	181	2.99	89	1.47	45	0.74	11	0.18
Komesha	2,943	100.00	-	-	-	-	-	-	-	-	-	-
Mao Komo Special.....	4,227	98.95	21	0.49	12	0.28	-	-	12	0.28	-	-
Kemeshi Zone.....	17,838	95.99	365	1.96	253	1.36	97	0.52	24	0.13	6	0.03
Yaso	3,411	92.61	153	4.15	80	2.17	24	0.65	15	0.41	-	-
Sirba Abay	2,441	97.45	28	1.12	23	0.92	4	0.16	9	0.36	-	-
Kamashi	2,573	92.96	99	3.58	64	2.31	32	1.16	-	-	-	-
Agalo Meti	3,465	97.91	5	0.14	26	0.73	37	1.05	-	-	6	0.17
Belo Jegonfoy	5,950	97.73	79	1.30	59	0.97	-	-	-	-	-	-

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	%
Benshangul-Gumuz Region	95,012	77.86	11,510	9.43	8,523	6.98	2,539	2.08	1,857	1.52	2,592	2.12
Metekel Zone	38,203	80.86	2,722	5.76	3,516	7.44	631	1.34	642	1.36	1,534	3.25
Dangur.....	4,604	73.90	65	1.04	229	3.68	9	0.14	17	0.27	1,306	20.96
Guba	3,529	95.61	-	-	9	0.24	-	-	4	0.11	149	4.04
Wenbera	5,262	60.12	1,285	14.68	1,560	17.82	226	2.58	389	4.44	31	0.35
Mandura	4,456	81.31	144	2.63	610	11.13	174	3.18	74	1.35	22	0.40
Dibate	8,077	88.41	387	4.24	429	4.70	137	1.50	85	0.93	21	0.23
Pawe	8,594	98.37	103	1.18	29	0.33	10	0.11	-	-	-	-
Bulen	3,683	70.52	738	14.13	650	12.44	75	1.44	72	1.38	5	0.10
Asosa Zone.....	39,336	69.99	8,414	14.97	4,707	8.38	1,789	3.18	1,154	2.05	802	1.43
Menge.....	6,132	71.61	1,323	15.45	808	9.44	189	2.21	111	1.30	-	-
Kurmak.....	2,413	64.81	689	18.51	378	10.15	217	5.83	16	0.43	10	0.27
Asosa.....	11,877	67.48	2,735	15.54	1,279	7.27	684	3.89	653	3.71	374	2.12
Sherkole.....	2,827	63.79	861	19.43	572	12.91	119	2.69	36	0.81	17	0.38
Bambasi.....	5,597	64.96	1,453	16.86	805	9.34	288	3.34	189	2.19	284	3.30
Oda Godere	5,232	86.45	212	3.50	237	3.92	153	2.53	110	1.82	108	1.78
Komesha.....	2,687	91.30	101	3.43	107	3.64	26	0.88	19	0.65	3	0.10
Mao Komo Special	2,570	60.16	1,039	24.32	522	12.22	113	2.65	21	0.49	7	0.16
Kemeshi Zone	17,474	94.03	374	2.01	299	1.61	119	0.64	61	0.33	256	1.38
Yaso	3,545	96.25	95	2.58	26	0.71	8	0.22	9	0.24	-	-
Sirba Abay.....	2,449	97.76	28	1.12	16	0.64	4	0.16	-	-	8	0.32
Kamashi.....	2,572	92.92	82	2.96	77	2.78	8	0.29	20	0.72	9	0.33
Agalo Meti.....	3,401	96.10	50	1.41	39	1.10	21	0.59	9	0.25	19	0.54
Belo Jegonfoy.....	5,505	90.42	119	1.95	141	2.32	79	1.30	23	0.38	221	3.63

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	%
Benshangul-Gumuz Region	121,669	99.70	251	0.21	104	0.09	9	0.01	-	-	-	-
Metekel Zone	47,067	99.62	85	0.18	87	0.18	9	0.02	-	-	-	-
Dangur.....	6,219	99.82	-	-	11	0.18	-	-	-	-	-	-
Guba.....	3,687	99.89	4	0.11	-	-	-	-	-	-	-	-
Wenbera	8,663	98.97	33	0.38	48	0.55	9	0.10	-	-	-	-
Mandura	5,450	99.45	24	0.44	6	0.11	-	-	-	-	-	-
Dibate.....	9,115	99.77	-	-	21	0.23	-	-	-	-	-	-
Pawe.....	8,725	99.87	11	0.13	-	-	-	-	-	-	-	-
Bulen	5,211	99.77	12	0.23	-	-	-	-	-	-	-	-
Asosa Zone.....	56,140	99.89	49	0.09	13	0.02	-	-	-	-	-	-
Menge.....	8,563	100.00	-	-	-	-	-	-	-	-	-	-
Kurmak.....	3,703	99.46	10	0.27	10	0.27	-	-	-	-	-	-
Asosa.....	17,582	99.89	20	0.11	-	-	-	-	-	-	-	-
Sherkole.....	4,432	100.00	-	-	-	-	-	-	-	-	-	-
Bambasi.....	8,597	99.78	19	0.22	-	-	-	-	-	-	-	-
Oda Godere	6,049	99.95	-	-	3	0.05	-	-	-	-	-	-
Komesha.....	2,943	100.00	-	-	-	-	-	-	-	-	-	-
Mao Komo Special.....	4,272	100.00	-	-	-	-	-	-	-	-	-	-
Kemeshi Zone	18,460	99.34	118	0.63	5	0.03	-	-	-	-	-	-
Yaso	3,679	99.89	4	0.11	-	-	-	-	-	-	-	-
Sirba Abay.....	2,503	99.92	2	0.08	-	-	-	-	-	-	-	-
Kamashi.....	2,705	97.72	63	2.28	-	-	-	-	-	-	-	-
Agalo Meti.....	3,511	99.21	23	0.65	5	0.14	-	-	-	-	-	-
Belo Jegonfoy.....	6,062	99.57	26	0.43	-	-	-	-	-	-	-	-

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	%
Benshangul-Gumuz Region	102,908	84.33	13,231	10.84	4,429	3.63	887	0.73	403	0.33	175	0.14
Metekel Zone	34,574	73.18	8,141	17.23	3,254	6.89	731	1.55	373	0.79	175	0.37
Dangur.....	4,307	69.13	1,065	17.09	374	6.00	217	3.48	156	2.50	111	1.78
Guba.....	3,257	88.24	185	5.01	188	5.09	39	1.06	16	0.43	6	0.16
Wenbera	6,890	78.72	1,339	15.30	360	4.11	131	1.50	12	0.14	21	0.24
Mandura	3,802	69.38	851	15.53	680	12.41	72	1.31	75	1.37	-	-
Dibate.....	6,203	67.90	1,704	18.65	928	10.16	182	1.99	94	1.03	25	0.27
Pawe.....	7,078	81.02	1,464	16.76	163	1.87	10	0.11	21	0.24	-	-
Bulen	3,037	58.15	1,533	29.35	561	10.74	81	1.55	-	-	11	0.21
Asosa Zone.....	52,508	93.43	3,172	5.64	431	0.77	73	0.13	18	0.03	-	-
Menge.....	8,492	99.17	71	0.83	-	-	-	-	-	-	-	-
Kurmak.....	3,511	94.31	83	2.23	93	2.50	26	0.70	10	0.27	-	-
Asosa.....	15,781	89.65	1,631	9.27	171	0.97	19	0.11	-	-	-	-
Sherkole.....	4,230	95.44	148	3.34	29	0.65	17	0.38	8	0.18	-	-
Bambasi.....	7,728	89.69	813	9.44	75	0.87	-	-	-	-	-	-
Oda Godere	5,657	93.47	332	5.49	63	1.04	-	-	-	-	-	-
Komesha.....	2,943	100.00	-	-	-	-	-	-	-	-	-	-
Mao Komo Special.....	4,167	97.54	93	2.18	-	-	12	0.28	-	-	-	-
Kemeshi Zone	15,827	85.17	1,917	10.32	744	4.00	83	0.45	12	0.06	-	-
Yaso	3,443	93.48	187	5.08	53	1.44	-	-	-	-	-	-
Sirba Abay.....	1,669	66.63	497	19.84	305	12.18	22	0.88	12	0.48	-	-
Kamashi.....	2,500	90.32	208	7.51	51	1.84	9	0.33	-	-	-	-
Agalo Meti.....	2,658	75.11	588	16.61	264	7.46	29	0.82	-	-	-	-
Belo Jegonfoy.....	5,555	91.25	438	7.19	72	1.18	23	0.38	-	-	-	-

Table 8.19B:- 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	%
Benshangul-Gumuz Region	121,548	99.60	348	0.29	106	0.09	26	0.02	-	-	5	0.00
Metekel Zone	47,099	99.68	71	0.15	67	0.14	11	0.02	-	-	-	-
Dangur.....	6,208	99.65	5	0.08	17	0.27	-	-	-	-	-	-
Guba.....	3,691	100.00	-	-	-	-	-	-	-	-	-	-
Wenbera	8,727	99.70	16	0.18	10	0.11	-	-	-	-	-	-
Mandura	5,469	99.80	-	-	-	-	11	0.20	-	-	-	-
Dibate.....	9,065	99.22	32	0.35	39	0.43	-	-	-	-	-	-
Pawe.....	8,717	99.78	19	0.22	-	-	-	-	-	-	-	-
Bulen.....	5,223	100.00	-	-	-	-	-	-	-	-	-	-
Asosa Zone.....	55,939	99.53	230	0.41	30	0.05	-	-	-	-	3	0.01
Menge.....	8,497	99.23	66	0.77	-	-	-	-	-	-	-	-
Kurmak.....	3,716	99.81	7	0.19	-	-	-	-	-	-	-	-
Asosa.....	17,518	99.52	67	0.38	17	0.10	-	-	-	-	-	-
Sherkole.....	4,432	100.00	-	-	-	-	-	-	-	-	-	-
Bambasi.....	8,606	99.88	10	0.12	-	-	-	-	-	-	-	-
Oda Godere	6,043	99.85	9	0.15	-	-	-	-	-	-	-	-
Komesha.....	2,875	97.69	52	1.77	13	0.44	-	-	-	-	3	0.10
Mao Komo Special.....	4,253	99.56	19	0.44	-	-	-	-	-	-	-	-
Kemeshi Zone	18,511	99.61	47	0.25	9	0.05	14	0.08	-	-	2	0.01
Yaso	3,639	98.81	27	0.73	9	0.24	6	0.16	-	-	2	0.05
Sirba Abay.....	2,502	99.88	3	0.12	-	-	-	-	-	-	-	-
Kamashi.....	2,764	99.86	4	0.14	-	-	-	-	-	-	-	-
Agalo Meti.....	3,539	100.00	-	-	-	-	-	-	-	-	-	-
Belo Jegonfoy.....	6,067	99.66	13	0.21	-	-	8	0.13	-	-	-	-

Table 8.20B:- 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	%
Benshangul-Gumuz Region	121,914	99.90	119	0.10	-	-	-	-	-	-	-	-
Metekel Zone	47,202	99.90	46	0.10	-	-	-	-	-	-	-	-
Dangur.....	6,230	100.00	-	-	-	-	-	-	-	-	-	-
Guba.....	3,691	100.00	-	-	-	-	-	-	-	-	-	-
Wenbera	8,725	99.68	28	0.32	-	-	-	-	-	-	-	-
Mandura	5,480	100.00	-	-	-	-	-	-	-	-	-	-
Dibate.....	9,136	100.00	-	-	-	-	-	-	-	-	-	-
Pawe.....	8,718	99.79	18	0.21	-	-	-	-	-	-	-	-
Bulen.....	5,223	100.00	-	-	-	-	-	-	-	-	-	-
Asosa Zone.....	56,181	99.96	21	0.04	-	-	-	-	-	-	-	-
Menge.....	8,563	100.00	-	-	-	-	-	-	-	-	-	-
Kurmak.....	3,723	100.00	-	-	-	-	-	-	-	-	-	-
Asosa.....	17,581	99.88	21	0.12	-	-	-	-	-	-	-	-
Sherkole.....	4,432	100.00	-	-	-	-	-	-	-	-	-	-
Bambasi.....	8,616	100.00	-	-	-	-	-	-	-	-	-	-
Oda Godere	6,052	100.00	-	-	-	-	-	-	-	-	-	-
Komesha.....	2,943	100.00	-	-	-	-	-	-	-	-	-	-
Mao Komo Special.....	4,272	100.00	-	-	-	-	-	-	-	-	-	-
Kemeshi Zone	18,531	99.72	52	0.28	-	-	-	-	-	-	-	-
Yaso	3,683	100.00	-	-	-	-	-	-	-	-	-	-
Sirba Abay.....	2,505	100.00	-	-	-	-	-	-	-	-	-	-
Kamashi.....	2,768	100.00	-	-	-	-	-	-	-	-	-	-
Agalo Meti.....	3,539	100.00	-	-	-	-	-	-	-	-	-	-
Belo Jegonfoy.....	6,036	99.15	52	0.85	-	-	-	-	-	-	-	-

Table 8.21B:- 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	%
Benshangul-Gumuz Region	121,901	99.89	73	0.06	44	0.04	15	0.01	-	-	-	-
Metekel Zone	47,248	100.00	-	-	-	-	-	-	-	-	-	-
Dangur.....	6,230	100.00	-	-	-	-	-	-	-	-	-	-
Guba.....	3,691	100.00	-	-	-	-	-	-	-	-	-	-
Wenbera	8,753	100.00	-	-	-	-	-	-	-	-	-	-
Mandura	5,480	100.00	-	-	-	-	-	-	-	-	-	-
Dibate.....	9,136	100.00	-	-	-	-	-	-	-	-	-	-
Pawe.....	8,736	100.00	-	-	-	-	-	-	-	-	-	-
Bulen	5,223	100.00	-	-	-	-	-	-	-	-	-	-
Asosa Zone.....	56,202	100.00	-	-	-	-	-	-	-	-	-	-
Menge.....	8,563	100.00	-	-	-	-	-	-	-	-	-	-
Kurmak.....	3,723	100.00	-	-	-	-	-	-	-	-	-	-
Asosa.....	17,602	100.00	-	-	-	-	-	-	-	-	-	-
Sherkole.....	4,432	100.00	-	-	-	-	-	-	-	-	-	-
Bambasi.....	8,616	100.00	-	-	-	-	-	-	-	-	-	-
Oda Godere	6,052	100.00	-	-	-	-	-	-	-	-	-	-
Komesha.....	2,943	100.00	-	-	-	-	-	-	-	-	-	-
Mao Komo Special.....	4,272	100.00	-	-	-	-	-	-	-	-	-	-
Kemeshi Zone	18,451	99.29	73	0.39	44	0.24	15	0.08	-	-	-	-
Yaso	3,668	99.59	15	0.41	-	-	-	-	-	-	-	-
Sirba Abay.....	2,505	100.00	-	-	-	-	-	-	-	-	-	-
Kamashi.....	2,768	100.00	-	-	-	-	-	-	-	-	-	-
Agalo Meti.....	3,539	100.00	-	-	-	-	-	-	-	-	-	-
Belo Jegonfoy.....	5,971	98.08	58	0.95	44	0.72	15	0.25	-	-	-	-

Table 8.22B:- 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	%
Benshangul-Gumuz Region	84,553	69.29	14,198	11.63	18,337	15.03	2,050	1.68	2,017	1.65	878	0.72
Metekel Zone	29,403	62.23	5,113	10.82	9,227	19.53	1,389	2.94	1,374	2.91	742	1.57
Dangur.....	4,757	76.36	378	6.07	783	12.57	171	2.74	113	1.81	28	0.45
Guba.....	3,688	99.92	-	-	3	0.08	-	-	-	-	-	-
Wenbera	4,727	54.00	1,091	12.46	2,153	24.60	312	3.56	288	3.29	182	2.08
Mandura	4,815	87.86	130	2.37	301	5.49	86	1.57	132	2.41	16	0.29
Dibate.....	4,036	44.18	990	10.84	2,842	31.11	369	4.04	472	5.17	427	4.67
Pawe.....	4,466	51.12	1,821	20.84	1,981	22.68	304	3.48	144	1.65	20	0.23
Bulen	2,916	55.83	703	13.46	1,163	22.27	148	2.83	225	4.31	68	1.30
Asosa Zone.....	40,450	71.97	7,612	13.54	7,277	12.95	372	0.66	382	0.68	109	0.19
Menge.....	8,007	93.51	194	2.27	298	3.48	16	0.19	35	0.41	13	0.15
Kurmak.....	3,713	99.73	-	-	10	0.27	-	-	-	-	-	-
Asosa.....	9,325	52.98	3,992	22.68	4,073	23.14	164	0.93	48	0.27	-	-
Sherkole.....	4,421	99.75	11	0.25	-	-	-	-	-	-	-	-
Bambasi.....	4,581	53.17	1,826	21.19	1,941	22.53	86	1.00	109	1.27	73	0.85
Oda Godere	4,997	82.57	433	7.15	454	7.50	37	0.61	108	1.78	23	0.38
Komesha.....	2,888	98.13	18	0.61	22	0.75	8	0.27	7	0.24	-	-
Mao Komo Special.....	2,518	58.94	1,138	26.64	480	11.24	61	1.43	75	1.76	-	-
Kemeshi Zone	14,701	79.11	1,473	7.93	1,832	9.86	288	1.55	262	1.41	27	0.15
Yaso	3,106	84.33	200	5.43	333	9.04	12	0.33	32	0.87	-	-
Sirba Abay.....	2,386	95.25	76	3.03	33	1.32	5	0.20	5	0.20	-	-
Kamashi.....	2,238	80.85	281	10.15	190	6.86	38	1.37	13	0.47	8	0.29
Agalo Meti.....	3,061	86.49	222	6.27	181	5.11	22	0.62	53	1.50	-	-
Belo Jegonfoy.....	3,911	64.24	694	11.40	1,094	17.97	211	3.47	159	2.61	19	0.31

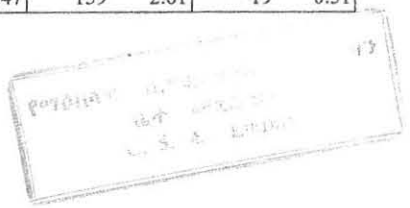


Table 8.23B:- Number of Crop Holders that Owned Ass (For threshing or transportation) by Geographic area.

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	%
Benshangul-Gumuz Region	103,013	84.41	15,560	12.75	2,825	2.31	414	0.34	141	0.12	80	0.07
Metekel Zone	38,219	80.89	7,736	16.37	1,076	2.28	169	0.36	17	0.04	31	0.07
Dangur	5,129	82.33	929	14.91	160	2.57	6	0.10	6	0.10	-	-
Guba	3,063	82.99	447	12.11	90	2.44	86	2.33	-	-	5	0.14
Wenbera	5,759	65.79	2,531	28.92	429	4.90	34	0.39	-	-	-	-
Mandura	4,984	90.95	361	6.59	128	2.34	7	0.13	-	-	-	-
Dibate	7,198	78.79	1,829	20.02	94	1.03	-	-	-	-	15	0.16
Pawe	8,446	96.68	234	2.68	56	0.64	-	-	-	-	-	-
Bulen	3,642	69.73	1,405	26.90	119	2.28	35	0.67	11	0.21	11	0.21
Asosa Zone	48,237	85.83	6,184	11.00	1,439	2.56	175	0.31	124	0.22	43	0.08
Menge	6,355	74.21	1,592	18.59	490	5.72	75	0.88	38	0.44	13	0.15
Kurmak	3,431	92.16	282	7.57	10	0.27	-	-	-	-	-	-
Asosa	15,950	90.61	1,308	7.43	325	1.85	-	-	19	0.11	-	-
Sherkole	3,638	82.08	565	12.75	194	4.38	22	0.50	13	0.29	-	-
Bambasi	7,570	87.86	808	9.38	137	1.59	43	0.50	29	0.34	29	0.34
Oda Godere	5,198	85.89	661	10.92	160	2.64	20	0.33	13	0.21	-	-
Komesha	2,421	82.26	394	13.39	103	3.50	14	0.48	11	0.37	-	-
Mao Komo Special	3,676	86.05	575	13.46	21	0.49	-	-	-	-	-	-
Kemeshi Zone	16,555	89.09	1,641	8.83	310	1.67	70	0.38	-	-	7	0.04
Yaso	3,336	90.58	298	8.09	36	0.98	13	0.35	-	-	-	-
Sirba Abay	2,183	87.15	257	10.26	62	2.48	3	0.12	-	-	-	-
Kamashi	2,354	85.04	325	11.74	78	2.82	11	0.40	-	-	-	-
Agalo Meti	3,110	87.88	342	9.66	52	1.47	28	0.79	-	-	7	0.20
Belo Jegonfoy	5,573	91.54	418	6.87	82	1.35	15	0.25	-	-	-	-

Table 8.24B:- 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	%
Benshangul-Gumuz Region	82,032	67.22	12,157	9.96	14,248	11.68	4,738	3.88	3,511	2.88	5,347	4.38
Metekel Zone	28,032	59.33	4,304	9.11	6,466	13.69	2,591	5.48	2,040	4.32	3,815	8.07
Dangur	4,619	74.14	320	5.14	535	8.59	241	3.87	158	2.54	357	5.73
Guba	3,582	97.05	33	0.89	31	0.84	21	0.57	6	0.16	18	0.49
Wenbera	4,664	53.28	658	7.52	1,139	13.01	675	7.71	514	5.87	1,103	12.60
Mandura	4,726	86.24	66	1.20	163	2.97	114	2.08	137	2.50	274	5.00
Dibate	3,467	37.95	1,225	13.41	2,162	23.66	675	7.39	595	6.51	1,012	11.08
Pawe	4,191	47.97	1,548	17.72	1,482	16.96	560	6.41	334	3.82	621	7.11
Bulen	2,781	53.25	454	8.69	955	18.28	304	5.82	297	5.69	432	8.27
Asosa Zone	39,840	70.89	6,535	11.63	6,350	11.30	1,527	2.72	908	1.62	1,042	1.85
Menge	7,972	93.10	195	2.28	263	3.07	85	0.99	35	0.41	13	0.15
Kurmak	3,713	99.73	-	-	10	0.27	-	-	-	-	-	-
Asosa	8,888	50.49	3,369	19.14	3,653	20.75	784	4.45	447	2.54	461	2.62
Sherkole	4,421	99.75	11	0.25	-	-	-	-	-	-	-	-
Bambasi	4,694	54.48	1,669	19.37	1,630	18.92	286	3.32	151	1.75	186	2.16
Oda Godere	4,958	81.92	408	6.74	337	5.57	60	0.99	126	2.08	163	2.69
Komesha	2,883	97.96	23	0.78	22	0.75	8	0.27	-	-	7	0.24
Mao Komo Special	2,310	54.07	860	20.13	437	10.23	305	7.14	149	3.49	211	4.94
Kemeshi Zone	14,160	76.20	1,318	7.09	1,432	7.71	620	3.34	563	3.03	490	2.64
Yaso	2,783	75.56	260	7.06	260	7.06	123	3.34	120	3.26	137	3.72
Sirba Abay	2,373	94.73	89	3.55	29	1.16	10	0.40	-	-	4	0.16
Kamashi	2,131	76.99	224	8.09	150	5.42	98	3.54	56	2.02	109	3.94
Agalo Meti	3,036	85.79	206	5.82	161	4.55	27	0.76	73	2.06	36	1.02
Belo Jegonfoy	3,833	62.96	540	8.87	833	13.68	363	5.96	315	5.17	204	3.35

ANNEX TABLE 8.3. Standard Errors and Coefficient of Variation For the Number of Holders Reporting, Quantity Reported and Total Value, for Private Holdings, Asosa 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	51,990	1,266.93	2.44	87,745	2,212.25	2.52	883,979	2,558,417.84	2.89
'Gejeras'	28,497	1,011.93	3.55	36,566	1,463.72	4.00	493,188	2,775,674.56	5.63
Shovels	9,751	500.11	5.13	10,524	536.46	5.10	137,002	823,934.46	6.01
Used for Cultivation									
Hoes	35,786	2,009.68	5.62	77,327	4,418.47	5.71	652,776	4,028,961.39	6.17
'Mekeskeshas'	3,842	810.27	21.09	4,645	1,033.01	22.24	49,714	1,183,898.34	23.81
Pick Axes	16,012	1,013.84	6.33	25,110	1,861.99	7.42	251,924	2,000,017.40	7.94
Tractors	-	-	-	-	-	-	-	-	-
Parts for traditional Plough									
'Degers'	16,409	891.20	5.43	25,364	1,742.77	6.87	58,528	365,677.45	6.25
'Erfes' (Handle)	15,659	873.54	5.58	20,346	1,216.28	5.98	25,175	203,190.60	8.07
Plough-Beams.	16,589	880.11	5.31	21,340	1,265.63	5.93	138,987	866,153.94	6.23
Plough -Tips (Metal)	16,619	887.33	5.34	18,241	967.73	5.31	344,468	1,938,433.19	5.63
'Wegel' -Tips	16,276	879.33	5.40	18,070	958.30	5.30	129,441	699,823.33	5.41
Yokes	16,355	883.90	5.40	18,704	1,045.22	5.59	75,062	443,367.91	5.91
Used for Harvesting									
Sickles	38,888	1,007.99	2.59	55,030	1,618.96	2.94	506,060	1,697,009.09	3.35
Used for Threshing									
Hay-Forks (Metal)	*	*	*	*	*	*	*	*	*
Hay-Forks (Wood)	5,298	654.46	12.35	7,967	1,013.74	12.72	17,756	254,342.91	14.32
Threshing Sticks	16,866	1,469.33	8.71	32,866	3,489.65	10.62	36,891	315,828.65	8.56
Winnowers (Metal)	61	29.69	48.54	74	34.42	46.65	*	*	*
Winnowers (Wood)	3,694	392.66	10.63	4,325	453.19	10.48	31,593	405,656.20	12.84
Other Farm Equipment									
Carts (Hauling)	*	*	*	*	*	*	*	*	*
Sprayers (Hand Operated)	264	74.54	28.27	366	111.65	30.53	2,924	84,368.27	28.85
Sprayers (Power Operated)	-	-	-	-	-	-	-	-	-
Tying Tools	-	-	-	-	-	-	-	-	-
Wheelbarrows	*	*	*	*	*	*	*	*	*
Animals Used for Ploughing									
Asses	-	-	-	-	-	-	-	-	-
Camels	-	-	-	-	-	-	-	-	-
Horses	-	-	-	-	-	-	-	-	-
Mules	-	-	-	-	-	-	-	-	-
Oxen	15,685	928.20	5.92	25,414	1,569.26	6.17	11,587,180	71,908,069.61	6.21
AnimalsUsed for Threshing or Transportation									
Asses	7,964	551.57	6.93	10,343	761.68	7.36	3,362,767	24,034,832.01	7.15
Camels	-	-	-	-	-	-	-	-	-
Cattle	16,361	982.88	6.01	34,513	2,464.13	7.14	14,499,200	97,196,673.33	6.70
Horses	*	*	*	*	*	*	*	*	*
Mules	-	-	-	-	-	-	-	-	-
Storage Structure									
'Debignits'	4,122	596.41	14.47	5,975	1,007.65	16.87	46,617	786,686.65	16.88
'Gotteras'	38,188	1,020.02	2.67	49,749	1,907.12	3.83	1,645,479	7,765,466.97	4.72
'Gudguads'	*	*	*	*	*	*	*	*	*
Modern Storages	202	57.23	28.40	287	113.38	39.57	8,067	255,860.47	31.72

ANNEX TABLE 8.4:- Standard Errors and Coefficient of Variation For the Number of Holders Reporting, Quantity Reported and Total Value, for Private Holdings, Kemeshi 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	17,486	190.16	1.09	32,116	442.96	1.38	253,556	520,768.38	2.05
'Gejeras'	10,158	203.79	2.01	14,329	340.82	2.38	133,100	437,792.01	3.29
Shovels	1,750	104.11	5.95	1,804	106.77	5.92	22,509	151,708.80	6.74
Used for Cultivation									
Hoes	16,004	175.00	1.09	40,370	632.87	1.57	221,153	439,978.20	1.99
'Mekeskeshas'	505	48.96	9.70	866	88.90	10.26	4,262	75,095.89	17.62
Pick Axes	2,451	148.77	6.07	4,904	277.19	5.65	27,153	170,326.83	6.27
Tractors	-	-	-	-	-	-	-	-	-
Parts for traditional Plough									
'Degers'	4,676	167.27	3.58	8,047	329.09	4.09	17,181	74,472.72	4.33
'Erfes' (Handle)	4,533	165.34	3.65	5,588	223.22	3.99	6,356	29,059.62	4.57
Plough-Beams.	4,704	169.86	3.61	5,608	209.86	3.74	35,985	141,294.80	3.93
Plough -Tips (Metal)	4,714	169.33	3.59	5,433	200.89	3.70	55,636	209,446.52	3.76
'Wegel' -Tips	4,650	168.94	3.63	5,372	203.21	3.78	25,457	106,892.11	4.20
Yokes	4,700	165.92	3.53	5,391	197.15	3.66	22,089	86,985.74	3.94
Used for Harvesting									
Sickles	14,808	267.75	1.81	26,870	541.96	2.02	147,054	421,880.12	2.87
Used for Threshing									
Hay-Forks (Metal)	88	21.48	24.43	103	24.42	23.68	502	17,609.13	35.05
Hay-Forks (Wood)	745	73.26	9.83	1,296	144.51	11.15	2,533	35,979.93	14.21
Threshing Sticks	1,104	86.42	7.83	3,393	380.68	11.22	4,766	64,185.30	13.47
Winnowers (Metal)	123	26.97	22.01	127	27.43	21.58	1,158	32,005.99	27.63
Winnowers (Wood)	2,757	138.17	5.01	3,703	212.52	5.74	14,594	104,114.05	7.13
Other Farm Equipment									
Carts (Hauling)	-	-	-	-	-	-	-	-	-
Sprayers (Hand Operated)	71	20.84	29.24	115	28.70	25.04	*	*	*
Sprayers (Power Operated).	-	-	-	-	-	-	-	-	-
Tying Tools	-	-	-	-	-	-	-	-	-
Wheelbarrows	52	21.07	40.34	52	21.07	40.34	1,306	52,681.16	40.34
Animals Used for Ploughing									
Asses	131	35.47	27.04	204	63.49	31.17	47,477	1,545,224.65	32.55
Camels	-	-	-	-	-	-	-	-	-
Horses	-	-	-	-	-	-	-	-	-
Mules	-	-	-	-	-	-	-	-	-
Oxen	3,883	148.05	3.81	7,218	300.77	4.17	3,427,868	15,085,298.97	4.40
AnimalsUsed for Threshing or Transportation									
Asses	2,028	119.16	5.88	2,505	162.13	6.47	712,683	4,591,189.67	6.44
Camels	-	-	-	-	-	-	-	-	-
Cattle	4,424	155.04	3.50	11,701	500.86	4.28	5,127,573	28,929,408.14	5.64
Horses	27	11.28	41.76	27	11.28	41.76	6,215	260,316.77	41.89
Mules	-	-	-	-	-	-	-	-	-
Storage Structure									
'Debignits'	1,923	138.93	7.22	2,767	211.73	7.65	21,161	430,026.74	20.32
'Gotteras'	13,571	207.34	1.53	18,068	342.76	1.90	229,416	754,510.17	3.29
'Gudguads'	*	*	*	*	*	*	*	*	*
Modern Storages	-	-	-	-	-	-	-	-	-

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.

$$Var(\hat{A}_h)=(1-f_h)\frac{n_h}{n_h-1}\sum_{i=1}^{nh}\left(\hat{A}_{hi}-\frac{\hat{A}_h}{n_h}\right)^2+f_h\sum_{i=1}^{nh}(1-f_{hi})\left(\frac{h_{hi}}{h_{hi}-1}\right)\sum_{j=1}^{h_{hi}}\left(\hat{A}_{hij}-\frac{\hat{A}_{hi}}{h_{hi}}\right)^2$$

$$Var(\hat{P}_h)=(1-f_h)\frac{n_h}{n_h-1}\sum_{i=1}^{nh}\left(\hat{p}_{hi}-\frac{\hat{p}_h}{n_h}\right)^2+f_h\sum_{i=1}^{n_h}(1-f_{hi})\left(\frac{h_{hi}}{h_{hi}-1}\right)\sum_{j=1}^{h_{hi}}\left(\hat{P}_{hij}-\frac{\hat{P}_{hi}}{h_{hi}}\right)^2$$

$$Var(\hat{Y}_h)=\frac{1}{\hat{A}_h^2}[Var(\hat{P}_h)+\hat{Y}_h^2Var(\hat{A}_h)-2\hat{Y}_hCov(\hat{P}_h,\hat{A}_h)]$$

Where, $Cov(\hat{P}_h,\hat{A}_h)=(1-f_h)\frac{n_h}{n_h-1}\sum_{i=1}^{n_h}(\hat{A}_{hi}-\frac{\hat{A}_h}{n_h})(\hat{P}_{hi}-\frac{\hat{P}_h}{n_h})$

$$+f_h\sum_{i=1}^{n_h}(1-f_{hi})\left(\frac{h_{hi}}{h_{hi}-1}\right)\sum_{j=1}^{h_{hi}}\left(\hat{A}_{hij}-\frac{\hat{A}_{hi}}{h_{hi}}\right)\left(\hat{P}_{hij}-\frac{\hat{P}_{hi}}{h_{hi}}\right).$$

$$Var(\hat{y}_h)=(1-f_h)\frac{n_h}{n_h-1}\sum_{i=1}^{nh}\left(\hat{y}_{hi}-\frac{\hat{y}_h}{n_h}\right)^2+f_h\sum_{i=1}^{n_h}(1-f_{hi})\left(\frac{h_{hi}}{h_{hi}-1}\right)\sum_{j=1}^{h_{hi}}\left(\hat{y}_{hij}-\frac{\hat{y}_{hi}}{h_{hi}}\right)^2$$

f_h = average first stage probability of selection of EAs within Wereda h.

$f_{hi}=\frac{h_{hi}}{H_{hi}}$ = average second stage probability of selection within the 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.

$$Var(\hat{Y})=\sum_h^L Var(\hat{Y}_h), Var(\hat{P})=\sum_h^L Var(\hat{P}_h) \text{ and } Var(\hat{A})=\sum_h^L Var(\hat{A}_h)$$

Where, L is the number of strata (Weredas).

In estimating the sampling variance by the above formula, selection of EAs within a stratum is assumed to be with replacement. By so doing the variance estimate may be slightly over estimated but it greatly simplifies the estimation procedure.

6. Coefficient of Variation (CV) of Estimates:

Coefficient of Variation (CV), in percentage, of estimate of stratum total of area, production and yield for a specific crop (other totals) are given respectively by:

$$CV(\hat{A}_h)=\frac{\sqrt{Var(\hat{A}_h)}}{\hat{A}_h}*100$$

$$CV(\hat{P}_h)=\frac{\sqrt{Var(\hat{P}_h)}}{\hat{P}_h}*100$$

$$CV(\hat{Y}_h)=\frac{\sqrt{Var(\hat{Y}_h)}}{\hat{Y}_h}*100$$

7. Ninety-five percent confidence interval (CI) of stratum total is:

$$\hat{Y}_h \pm 1.96 * S.E(\hat{Y}_h)$$

Where, $S.E(\hat{Y}_h)=\sqrt{Var(\hat{Y}_h)}$

APPENDIX II:

NUMBER OF EAs AND AGRICULTURAL HOUSEHOLDS SAMPLED AND COVERED BY WEREDA (**RURAL**)

ZONE	WEREDA	EAs		HOUSEHOLDS	
		SAMPLED	COVERED	SAMPLED	COVERED
METEKEL	DANGUR	25	24	750	715
	GUBA	25	25	750	739
	WENBERA	25	25	750	750
	MANDURA	25	25	750	749
	DIBATE	25	25	750	749
	PAWE	25	25	750	749
	BULEN	25	25	750	748
	ZONE TOTAL	**175**	**174**	**5250**	**5199**
ASOSA	MENGE	25	25	750	749
	KURMUK	12	11	360	330
	ASOSA	25	25	750	749
	SHERKOLE	25	25	750	762
	BAMBASI	25	25	750	749
	ODA GODERE	25	25	750	748
	KOMESHA	15	15	450	447
	MAO KOMO	14	14	420	420
	ZONE TOTAL	**166**	**165**	**4980**	**4954**
KAMASHI	YASO	23	23	690	659
	SIRBA ABAY	20	19	600	563
	KAMASHI	14	14	420	415
	AGALO METI	16	16	480	480
	BELO_ JEGONFOY	22	15	660	450
	ZONE TOTAL	**95**	**87**	**2850**	**2567**
BENISHANGUL_ GUMUZ	REGION TOTAL	436	426	13080	12720

NUMBER OF EAs AND AGRICULTURAL HOUSEHOLDS SAMPLED AND COVERED BY WEREDA (**URBAN**)

ZONE	WEREDA	EAs		HOUSEHOLDS	
		SAMPLED	COVERED	SAMPLED	COVERED
METEKEL	DANGUR	4	4	120	120
	GUBA	2	2	60	60
	WENBERA	3	3	90	89
	MANDURA	1	1	30	30
	DIBATE	4	4	120	120
	PAWE	6	6	180	179
	BULEN	4	4	120	120
	ZONE TOTAL	**24**	**24**	**720**	**718**
ASOSA	MENGE	1	1	30	30
	KURMUK	1	1	23	23
	ASOSA	13	13	373	373
	BAMBASI	6	6	180	178
	ZONE TOTAL	**21**	**606**	**21**	**604**
	REGION TOTAL	**45**	**1326**	**45**	**1322**

APPENDIX III

Rural

FORM EASE -R- 94/2

Ethiopian Agricultural Sample Enmeration- Socio Economic characteristics of Population in Agricultural Households - 2001 /2002 (1994 E.C.)

PART I- IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7
Region	Zone	Wereda		Farmers' Association	Enumeration Area	Household ID Number

PART II - DEMOGRAPHIC CHARACTERISTICS OF EACH MEMBER OF THE AGRICULTURAL HOUSEHOLD (STARTING WITH THE HEAD OF THE HOUSEHOLD)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
								5 YEARS AND ABOVE		10 YEARS AND ABOVE			
SR. NO.	FULL NAME	IS MEMEBER OF THE HOUSEHOLD A HOLDER Yes =1 No =2	If Column 3, Code 1 HOLDER ID	TYPE OF HOLDING CROP =1 LIVESTOCK =2 BOTH =3	SEX MALE = 1 FEMALE = 2	RELATION TO THE HEAD OF HOUSEHOLD	AGE (IN COMP-LETED YEARS)	EDUCATIONAL ATTAINMENT (Highest Grade Completed)	MARITAL STATUS NEVER MARRIED = 1 CURRENTLY MARRIED= 2 DIVORCED = 3 WIDOWED = 4	WERE YOU ENGAGED IN ECONOMIC ACTIVITY DURING THE LAST 12 MONTHS? Yes =1 No =2	IF NOT ENGAGED (IN COL. 11 COD2 ECOMOMIC ACTIVITY WHAT WAS THE MAIN REASON? STUDENT =1 HOME MAKERS =2 HANDICAP =3 OLD AGE/PENSION =4 OTHERS =5	IF ENGAGED IN ECONOMIC ACTIVITY WHAT WAS THE MAJOR ACTIVITY? FULLY AGRICULTURE = 1 PARTLY AGRICULTURE = 2 Fully in others =3	IF IN COLUMN 13, CODE 1 OR 2, EMPLOYMENT STATUS EMPLOYER = 1 OWN-ACCOUNT WORKER = 2 EMPLOYEE = 3 UNPAID FAMILY WORKER = 4 OTHERS =5
		code		code	Code	Code		Code	Code	Code	Code	Code	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 (Mehere Season) - 2001/02 (1994 E.C.)

Part 1- IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7	8	9	10	11
Region	zone	Wereda	Farmers Association	Enumeratio Areas	Household Number		Holder Name	Age	Sex male →1 Female →2	Type of Holding Crop →1 Livestack →2 Both →3

Part II - Area Under Temporary Crops and Agricultural Practice

1	2	3	4	5	6
Sr. No.	Questions	Parcel No / Field No. / crop name code	Parcel No. / filed NO. / crop name code	Parcel No. / filed NO. / crop name code	Parcel No. / filed NO. / crop name code
01	Type of Holding Private → 1 Others → 3 Rnted /contract → 2				
02	Crop Area in local unit	Name code Area	Name code Area	Name code Area	Name code Area
03	Have the field been included in the extention Package program Yes → 1 No → 2				
04	Was the field Irrigated? Yes →1 No → 2				
05	Variety of seeds used Improved → 1 Indignores → 2				
06	(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
07	(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
08	(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
09	Was the crop Damaged Yes →1 No → 2				
10	If yes, what was the major cause of damage	Reason code	Reason code	Reason code	Reason code
11	Percentage of damage				
12	Any control/protection measure taken for crop damage? Yes → 1 No → 2				
13	If yes, what Type of measure? Chemical → 1 Both → 3 Non chemical → 2				
14	If chemical Insecticide → 1 1&3 → 5 Herbicide → 2 2&3 → 6 Fungicide → 3 All → 7 1&2 → 4				
15	Was the field fertilized? Yes → 1 No → 2				
16	If fertilized what type ? Natural → 1 Bothe → 3 Chemical → 2				
17	One main reason for not using chemical fertilizer	Reason Code	Reason Code	Reason	Reason Code
18	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
19	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	Type of Holding
									male → 1 Female → 2	crop → 1 Livestock → 2 Both → 3

Part II - Area Under Permanent Crops and Agricultural Practice

1	2 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
01	Type of Holding Private → 1 Others → 3 Rented/ contract → 2				
02	Crop Area in Local unit	Name / Area	Name / Code / Area	Name / Code / Area	Name / Code / Area
03	Has the field been included in the extention package program Yes → 1 No → 2				
04	Total number of trees in the field. (Excluding Coffe,Chat,Pineapple,Sugar-cane)	Quantity	Quantity	Quantity	Quantity
05	Number of trees of fruit bearing age (Excluding Coffe,Chat,Pineapple,Sugar-cane)	Quantity	Quantity	Quantity	Quantity
06	Was the field Irrigated Yes → 1 No → 2				
07	Variety of seeds used Improve → 1 Indiginous → 2				
08	Was the crop Damaged Yes → 1 No → 2				
09	If yes, what was the major cause of damage	Reason code	Reason code	Reason code	Reason code
10	Persontage of Damage				
11	Any control /proventina measure taken for crop Damage Yes → 1 No → 2				
12	Chemical → 1 Both → 3 Non chemical → 2				
13	If chemica Incectide → 1 1&3 → 5 Herbicid → 2 2&3 → 6 Fungicids → 3 All → 7 1&2 → 4				
14	Was the field fertilized Yes → 1 No → 2				
15	If fertilized what type? Natural → 1 Both → 3 Chemical → 2				
16	Reason for not using chemical fertilizer	Reason Code	Reason Code	Reason Code	Reason Code
17	If chemical (comercial) fertilizer used 17.1 Type Urea → 1 Both → 3 Dap → 2				
	17.2 Quantity in Kg.	Kg. Gram	Kg. am	Kg. Gram	Kg. Gram
18	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-94/3c

List of Fields Under Mixed Crops and their Agricultural Practices (Mehere Season) - 2001/02 (1994 E.C.)

Part 1- IDENTIFICATION PARTICULARS

1 Region	2 Zone	3 Wereda	4 Farmers' Association	5 Enumeration Areas	6 Household Number	7 Holder Number	8 Holders' Name	9 Age	10 Sex (male → 1, Femal → 2)	11 Type of Holding (Crop → 1, Livestock → 2, Bothe → 3)

Part II - Area Under Mixed Crops and Agricultural Practice

1	2 Questions	3 Parcel No. / Field No. — Crop Name / code	3 Crop Name / code	3 Crop Name / code	4 Parcel No. / Field No. — Corp Name / code	4 Corp Name / code	4 Corp Name / code
01	Type of Holding Private → 1 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	Quantity	Quantity	Quantity	Quantity
06	Number of trees of fruit of permanent crop (Excluding Coffee, Chat, Pinapple, Sugar-cane)	Quantity	Quantity	Quantity	Quantity	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	Kg. Gram	Kg. Gram	Kg. Gram	Kg. Gram
10	If Improved seed was used, what was the quantity (for Cereals, Pulses & Oilseeds only)	Kg. Gram	Kg. Gram	Kg. Gram	Kg. Gram	Kg. Gram	Kg. Gram
11	If Improved seed was used what was the cost/price (for Cereals, Pulses & Oilseeds only)	Birr sent	Birr sent	Birr sent	Birr sent	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	Reason Code	Reason Code	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	Type of Holding
									male → 1 Female → 2	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	
0	1										
0	2										
0	3										
0	4										
0	5										
0	6										
0	7										
0	8										
0	9										
1	0										

From EASE 94/4

Rural

Ethiopian Agricultral Sample Enumeration
Assessment of Crop Conditions - 2001/02 (1994 E.C.)

NOTE:- This Form should be Filled Out For Mixed Crops According to their Type in Pure Stands

Part I - Identification Particulars

1	2	3	4	5	6
Region	Zone	Wereda	Farmers' Association	Enumeration Area	Crop Name

Part II - Assessment of Crop Conditions (For Meher Season)

1	2	3	4	5	6	7	8	9		10	11
					Crop Productivity Compared to Last Year						
Sr. No.	Name of Holder	Household ID Number	Holder ID Number	Number of Fields	Increase =1 Equal / No change =2 Decrease =3	If Increase Quantity in Percent	If Decrease: Quantity In Percent	If Decrease: One Major Reason for Decrease	Code	Change In Percent	Remarks
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											
1 6											
1 7											
1 8											

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	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				Area in Percentage share for each Crop (If in Col. 11 Code 3)
		cod			Identification particulars				
				code	Name	Code	Quantity		
			1						
			2						
			3						

Part II. Area Measurement Result

1		2	3		4		5	
The field or other land use Date of measurement		Area in Sq.m.	Area in Local Units				Reason if area Measurment not conducted	
Date	Month		Name of Local Area Unit	code	Area			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
Parcel		Field			Code	Day	Month	Kg.	Grams	Day	Month	Kg.	Grams	Yes =1 No =2	If yes, Reason for Damage	Code	Percentage Damaged	

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					
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	From starting point to the center of the field: Shortest Side Random Distance in Meter	From starting point to the center of the field: Shortest Side Bearing
0 1												
0 2												
0 3												
0 4												
0 5												
0 6												
0 7												
0 8												
0 9												
1 0												

PART III - CROP CUTTING RESULT (FOR VEGETABLES AND ROOT CROPS)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
					For Rows Only			From 1m x 1m (for Broad cast) or 1m x 2 Rows (for Rows) Plot No. of Fruits and Quantity Harvested							
				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															

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 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	No =2 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-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	7	8	9	10	11	12	13	14	15	16	17
			Type of Tenure	Location of field in Urban Boundary	Use of Agricultural Inputs							If column 12 is blank			If column 15 is blank	
			Own → 1	Within → 1	Type of seeds used	Use of fertilizer		Use of Irrigation				Area in local units		Production in kilograms	Production In Local units	
Parcel Number	Field Number	Name of crops	Rented → 2 Others → 3	Outside → 2	Improved seed → 1 Local seed → 2	Did you use Fertilizer Yes → 1 No → 2	If yes in column 7 Type of fertilizer Natural → 1 Chemical → 2 Both → 3	Did you apply Irrigation Yes → 1 No → 2	If yes in Column 9 Source of water River → 1 Lake → 2 Pool → 3 Pipe water → 4 Others → 5	Did you use pesticides Yes → 1 No → 2	Field Area in Square Meters	Name of Local Units	Area		Name of Local units	Quantity
			CODE									code			Code	

Continued

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
					WEIGHT OF COFFEE FRUITS DRIED AND BEANS (KG)									
SERIAL No. OF		FRUIT / TWIGS PICKED		NUMBER OF TREES PICKED	FIRST VISIT DATE / /		SECOND VISIT DATE / /		THIRD VISIT DATE / /		FOURTH VISIT DATE / /		TOTAL	
					DATE WEIGHED / /		DATE WEIGHED / /		DATE WEIGHED / /		DATE WEIGHED / /			
					FRUITS	BEANS	FRUITS	BEANS	FRUITS	BEANS	FRUITS	BEANS	FRUITS	BEANS
PARCE	FIELD		CODE		KG. GRAMS	KG. GRAMS	KG. GRAMS	KG. GRAMS	KG. GRAMS	KG. GRAMS	KG. GRAMS	KG. GRAMS	KG. GRAMS	KG. GRAMS
		COFFEE	72											
					WEIGHT OF FRESH AND DRY TWIGS (KG)									
					FIRST VISIT		SECOND VISIT		THIRD VISIT		FOURTH VISIT		TOTAL	
					DATE / /	DATE / /	DATE / /	DATE / /	DATE / /	DATE / /	DATE / /	DATE / /		
					FRESH	DRY	FRESH	DRY	FRESH	DRY	FRESH	DRY	FRESH	DRY
		GESHO	75											
					Date / /		Date / /		Date / /		Date / /		Date / /	
		CHAT	71											

Rural

Form EASE-94/8

Ethiopian Agricultural Sample Enumeration
Livestock and Honey Production-2001/2002 (1994 E.C)

PART I - Idetification Particulars

1	2	3	4	5	6	7	8	9	10	11
REGION	ZONE	WEREDA	FARMERS' ASSOCIATION	ENUMERATION AREA	HOUSEHOLD ID. No	HOLDER ID. No	HOLDER'S NAME	Age	Sex Male=1 Female=2	TYPE OF HOLDING CROP = 1 LIVESTOCK = 2 BOTH = 3

PART II-LIVESTOCK, BEEHIVES AND LIVESTOCK PRODUCTS

Question No I- Did you have livestock, And/or beehives on February 8, 2002?

Yes → 1 Complete questions below ☐
No → 2 Complet question No II

Number of Cattle in Age & Purpose on February 8/2002

	None	Total	Male	Femal
1. Cattle of all ages on February 8,2002		1	2	3
a. Cattle < 6 months		4	5	6
b. Cattle 6 months & <1 years old		7	8	9
c. Cattle 1 year to <3 years old		10	11	12
d. Cattle 3 years to < 10 years		13	14	15
(1) Beef Cattle (for meat production purpose)		16	17	18
(2) For breeding purpose		19	20	21
(3) Dairy cows		22		23
(4) Cows gave milk for the last 12 months		24		25
(5) Draft Cattle (for work purpose)		26	27	28
(6) Cattle for other purposes		29	30	31
e. Cattle 10 years and older		32	33	34
f. Grand Total		35	36	37
1. Total Local breed		38	39	40
2. Total Exotic		41	42	43
3. Total Hybrid		44	45	46

Number of Sheep in Age & Purpose on February 8/2002

	None	Total	Male	Female
2. SHEEP of all ages on February 8, 2002		47	48	49
a. Sheep < 6 months		50	51	52
b. Sheep 6 months & < 1 years old		53	54	55
c. Sheep 1 year to < 2 years old		56	57	58
d. Sheep 2 years and older		59	60	61
(1) Sheep for meat (slaughter purpose)		62	63	64
(2) Sheep for wool only		65	66	67
(3) Sheep for breeding purpose only		68	69	70
(4) Sheep for other purposes		71	72	73
e. Grand Total		74	75	76
1. Total Local breed		77	78	79
2. Total Exotic		80	81	82
3. Total Hybrid		83	84	85

Number of Goats in Age & Purpose on February 8/2002

	None	Total	Male	Female
3. GOATS of all ages on February 8, 2002		86	87	88
a. Goats < 6 months		89	90	91
b. Goats 6 months & < 1 year old		92	93	94
c. Goats 1 year to < 2 years old		95	96	97
d. Goats 2 years and older		98	99	100
(1) Goats for meat (slaughter purpose)		101	102	103
(2) Dairy Goats		104		105
(3) Goats for breeding purpose only		106	107	108
(4) Goats for other purposes		109	110	111
e. Grand Total		112	113	114
1. Total Local breed		115	116	117
2. Total Exotic		118	119	120
3. Total Hybrid		121	122	123

Number of Pigs by age & purpose on February 8, 2002

	None	Total	Male	Female
4. Total Pigs		124	125	126
a. below 6 months		127	128	129
b. 6 months & above		130	131	132
b.1. For meat Purpose		133	134	135
b.2. Pigs for other purpose		136	137	138

Number of Horses, Asses,Mules & Camels in Age and Purpose (Feb. 9,2001-Feb. 8, 2002)

	None	Total		Male		Female	
5. HORSES of all ages		139		140		141	
a. Horses <3 years old		142		143		144	
b. Horses 3 Years and older		145		146		147	
b1) Horses used primarily for draft purpose		148		149		150	
b2) Horses for Transportation		151		152		153	
b3) Horses for other purpose		154		155		156	
6. MULES of all ages		157		158		159	
a. Mules <3 years old		160		161		162	
b. Mules 3 years older		163		164		165	
b1) Mules used primarily for draft purpose		166		167		168	
b2) Mules for Transportation purposes		169		170		171	
b3) Mules for Other Purpose		172		173		174	
7. ASSES of all ages		175		176		177	
a. Asses <3 years old		178		179		180	
b. Asses 3 years and older		181		182		183	
b1) Asses used for draft purpose		184		185		186	
b2) Asses for Transportation purposes.		187		188		189	
b3) Asses for Other Purpose		190		191		192	
8. CAMELS of all ages		193		194		195	
a. Camels <4 years old		196		197		198	
b. Camels 4 years and older		199		200		201	
b1) Camels for slaughter		202		203		204	
b2) Camels used for draft purpose		205		206		207	
b3) Camels for milk purpose		208				209	
b4) Camels for Transportation purposes		210		211		212	
b5) Camels for other purposes		213		214		215	

CHICKENS

	None		
9. CHICKENS Total on February 8, 2002		216	
a. Laying hens (over 20 weeks old)		217	
b. Non-laying hens (over 20 weeks old)		218	
c. Cocks - males (over 20 weeks old)		219	
d. Cockerels (8 weeks to 20 weeks old)		220	
e. Pullets (8 weeks to 20 weeks old)		221	
f. Chicks (below 8 weeks old)		222	

Question No II: Did you have livestock, chickens, and/or beehives for the last 12 months (Feb. 9, 2001-Feb.8,2002)?

Yes ——→1 Complet question below ☐

No ——→2 Complet question No. 11 'c' and 'g' only

10. HONEY BEE COLONIES on February 8, 2002	None		
		223	
a. Traditinal beehives		224	
b. Intermediate beehives		225	
c. Modern beehives		226	

MILK, EGG AND HONEY PRODUCTION FOR THE LAST 12 MONTHS (Feb. 9, 2001-Feb. 8, 2002)

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		235	
13. Average number of clutches (in days)		236	

14. Honey production per beehive per year (Feb. 9, 2001 - Feb. 8, 2002) in Kg.

	None		
a. Average honey production from traditional beehive per season per beehive		237	
Frequency of production per year per beehive.		238	
b. Average honey production from intermediate beehive per season per beehive		239	
Frequency of production per year per beehive.		240	
c. Average honey production from modern beehive per season per beehive		241	
Frequency of production per year per beehive.		242	

15. Livestock diseases & treatment Feb. 9, 2001-Feb. 8,2002)

1	2	3	4	5	6	7			8
Sr. No.	Type of **Livestock**	Total Vaccinated	Total Affected	Total Treated	Total Died	Major cause of death	Code 271	Code 272	Remark
1	Cattle								
2	Sheep								
3	Goats								
4	Equines								
5	Camels								
6	Pigs								
7	Chickens								

16. Source of Livestock feed

1	2		3		4
Sr. No.	TYPE OF FEED	Code	USE YES = 1 NO = 2	Code	IF YES, PERCENT
1	Natural grazing	1			
2	Crop Residue	2			
3	Improved pasture	3			
4	Hay	4			
6	Oil seed(noug cake)	5			
7	Other	6			

Rural

Form EASE -R- 94/9

Ethiopian Agricultural Sample Enumeration
Use of Crop, Livestock and Products - 2000/01 (1994 E.C.)
(Peasant Holding)

Job ID	1	2	3

Part I - Identification Particulars

1	2	3	4	5	6	7	8	9	10	11
Region	Zone	Wereda	Farmers' Association	Enumeration Area	Household ID. No.	Holder ID No.	Name of Holder	Age	Sex Male =1 Female =2	Type of Holding Crop =1 Livestock =2 Both =3

Part II - Crop Usage Proportions (Percentages)

1	2		3	4	5	6	7	8	9
Sr. No.	Name of Crop	Code	Household Consumption	Proportions of Total Product For Seed	Sale*	Wages in Kind	Animal Feed	Other (Gifts ...)	Total
0 1									
0 2									
0 3									
0 4									
0 5									
0 6									
0 7									
0 8									
0 9									
1 0									
1 1									
1 2									
1 3									
1 4									
1 5									

Part III - Livestock Product Usage Proportions (Percentages)

1	2		3	4	5	6	7
SR. No.	Name of Livestock & Livestock Products	Code	Proportions in Percentage Household Consumptio	Sale*	Wages in Kind	Others (Gifts ...)	Total
0 1							
0 2							
0 3							
0 4							
0 5							
0 6							
0 7							
0 8							
0 9							
1 0							
1 1							
1 2							
1 3							
1 4							
1 5							

*For sale includes the part of products that the holder sold for purchase of agricultural inputs, family clothings, ... etc.

Form NASE 94/10

Ethiopian Agricultural Sample Enumeration
Miscellaneous Questions - 2001/02 (1994 E.C.)

PART I- IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7	8	9	10	11
Region	Zone	Wereda	Farmers' Association	Enumeration Area	Household ID No.	Holder ID No.	Name of Holder	Age	Sex Male =1 Female =2	Type of Holding Crop =1 Livestock =2 Both =3

PART II - MISCELLANEOUS QUESTIONS

Q. No		Code
1.	Do you practice crop rotation on your holding? Yes = 1 No = 2	
2.	Do you practice burning of soil to increase fertility of the soil on your holding? Yes = 1 No = 2	
3.	If practice irrigation, what is the source of irrigation water? River = 1 Lake = 2 Pond = 3 Others =4 Not Used = 5	
4.	Have you used hired labour on you holding during this agricultural year? (last 12 months) Yes = 1 No = 2	
5.	How many persons were engaged on the holding other than the holder ? (Last 12 /mths)	Number: Male / Female / Total
	5.1 permanent paid workers (full time)	
	5.2 Temporary (seasonal paid workers)	
	5.3 Unpaid family workers	
	5.4 partners (share holders paid/ unpaid)	
	5.5 Total persons engaged at any time of the year	
6.	Which ploughing practice do you use on your holding?	
	6.1 Hand dug = 1	
	6.2 Oxen /horse driven /pulling = 2	
	6.3 Mechanized /Tractor = 3	
	6.4 Both hand dug & oxen/ Horse driven = 4	
	6.5 Both Oxen/Horse driven & Mechanized = 5	
7.	What method do you practice to, preserve soil against degradation or erosion?	
	Terracing = 1	
	Water catchment = 2	
	Afforestation = 3	
	Ploughing along the contour = 4	
	Others /Specify/ = 5	
	Do not practice = 6	
8.	Have you ever been included in the extension package program? Yes = 1 No = 2 ERR	
9.	If yes in 8, which extension package? Rain abundant areas extension package = 1 Rain shortage areas extension package = 2 Post harvest technology " " = 3 Economically important crops " " = 4 Livestock development " " = 5 Any two of the above = 6	

Q. No		Code
10.	If the answer is 6 in 9, specify	
11.	If Yes in 8, when? Specify	
12.	What percentage of your holding is under the extension package/ (excluding livestock)	
13.	For which crop are you useing the extension package? specify	
14.	If No in 8, why? specify	
15.	Are you beneficiary of Credit facilities for agricultural activities Yes =1 No = 2	
16	Advisory services Yes = 1 No = 2	
17	Where do you get chemical fertilizer? Government Enterprise =1 Private Enterprise =2 Private Seller =3 Others (Specify) =4 Not Purchased =5	
18	How much do you buy 50 kg Urea?	Birr / Cent
19	How much do you buy 50 kg Dap?	Birr / Cent
20	How far do you go to Purchase Fertilizer?	kilo meter
21	How much time do man & women spend in the household on each of the following agricultural activities? use the codes given below the table*.	Male / Female
	21.1 Tilling	
	21.2 Sowing	
	21.3 Weeding	
	21.4 Harvesting	
	21.5 Feeding /Treating	
	21.6 Milking	
	21.7 Marketing of agricultural products	
	* Not Participated = 1 One fourth of the time (1/4) = 2 One half of the time (1/2) = 3 Three fourth of the time (3/4) = 4 Full time = 5 Not applicable = 6	

Rural

Form EASE-R- 94/11

Ethiopian Agricultural Sampe Enumeration
Farm Implements, Work Animals And Storage Facilities - 2001/02 (1994 E.C.)

PART I- IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7	8	9	10	11
Region	Zone	Wereda	Farmers' Association	Enumeration Area	Household ID No.	Holder ID No.	Name of Holder	Age	Sex Male =1 Female =2	Type of Holding Crop =1 Livestock =2 Both =3

PART II- FARM IMPLEMENTS, WORK ANIMALS, AND STORAGE FACILITIES

2.1 Farming Implements

1	2		3	4		5		6	7	8	
Line No.	Name of Implement	Code	Number Owned	Replacement Value (cost per unit) Birr	Ct.	Total Value Birr	Ct.	Average Age of Service (years)	Do you rent Farm Implements? Yes =1 No =2	If Yes,enter Rate /day Birr	Ct.
01	Axe	01									
02	"Gejera"	02									
03	Hoe	04									
04	Shovel	05									
05	Pick axe	03									
06	Plow beam	06									
07	Yoke	07									
08	" Deger"	08									
09	Plow tip (Metal)	09									
10	"Wagel" tip	10									
11	"Erfe" (handle)	11									
12	Harrow	12									
13	Sprayer (hand operated)	17									
14	Reaper (sickle)	19									
15	Trashing stick	20									
16	Rake (all wood)	23									
17	Rake (any Metal)	24									
18	Winnower (wood)	25									
19	Winnower (Metal)	26									
20	Wheelbarrow	27									
21	Carts (hauling)	28									
22	Other (specify _____)										
23	Other (specify _____)										
24	Other (specify _____)										
25	Other (specify _____)										

2.2 Work Animals (including those used for transport)

1	2		3	4		5		6	7	8	
Line No.	Name of animal	Code	Number owned	Replacement Value (Cost Per Animal) Birr	Ct.	Total Value Birr	Ct.	Average age of animal? (Years)	Do you rent work Animals? Yes=1 No=2	If yes rate per day Birr	Ct.
2 6	Oxen (all including cows)	42									
2 7	Donkeys	43									
2 8	Horses	44									
2 9	Mules	45									
3 0	Camels	46									
3 1	Other (specify _____)										
3 2	Other (specify _____)										
3 3	Other (specify _____)										
3 4	Other (specify _____)										

2.3 Work Animals used specifically for plowing

3 5	Oxen for plowing	42									
3 6	Other for plowing										
3 7	Other (specify _____)										
3 8	Other (specify _____)										
3 9	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.
4 0	Modern buildings	32									
4 1	" Gottera"	33									
4 2	" Debegnet"	34									
4 3	Under ground	35									
4 4	Other (specify _____)										
4 5	Other (specify_____)										
4 6	Other (specify _____)										
4 7	Other (specify_____)										

Note :- *Sack, 'Silicha', 'Akumada', Plastic sack etc not used as storage facilities*

Form EASE-R-94/12A

RURAL

Ethiopian Agricultural Sample Enumeration

List of Fields Under Temporary Crops (Including Vegetables and Root Crops) and Agricultural Practices (Belg Season) - 2001/02 (1994 E.C.)

Part 1- IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7	8	9	10	11
Region	zone	Wereda	Farmers Association	Enumeratio Areas	Household Number	Holder Number	Holder Name	Age	Sex male →1 Female →2	Type of Holding Crop →1 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	2	3	4	5	6	7	8	9	10	11
Region	Zone	Wereda	Farmers' Association	Enumeration Areas	Household Number	Holder Number	Holders' Name	Age	Sex: male → 1, Femal → 2	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 / Corp Name / Crop Name (code)	Corp Name / Corp Name / Corp Name (code)
01	Type of Holding: Private → 1, Rented/contract → 2, Others → 3		
02	Have the field been included in the extention pakage program: Yes → 1, No → 2		
03	Total Mixed Crop Area in Local Unit	Name of Local Unit / code / Area	Name of Local Unit / code / Area
04	Production in Local Unit	Production Unit (Local Unit / Code) / Quantity	Production Unit (Local Unit / Code) / Quantity
05	Percentage shere of Area	Quantity	Quantity
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, Non-chemical → 2, Both → 3		
16	If chemical in 16: Insecticid → 1, Herbicide → 2, Fungicide → 3, 1&2 → 4, 1&3 → 5, 2&3 → 6, All → 7		
17	Was the field fertilized: yes → 1, No → 2		
18	If fertilized what type? Natural → 1, Chemical → 2, Both → 3		
19	One main Reson for not using Chemical fertilizer	Reason / Code	Reason / Code
20	If chemical fertilizer used: 20.1 Type — Urea → 1, Dap → 2, Both → 3		
	20.2 Quantity in Kilo gram	Kg. / Gram	Kg. / Gram
21	If natural fertilizer used mainly what type ? Manure → 1, Compost → 2, Both → 3, Others → 4 / If others specify/ →		

PART III- AREA UNDER PERMANENT CROPS AND AGRICULTURAL PRACTICES

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
			Use of Agricultural Inputs								Number of Trees			If column 14 is blank			If column 17 is blank	
			Type of Tenure	Location of field in Urban Boundary		Use of fertilizer		Use of Irrigation						Area in local units			Production In Local units	
Parcel Number	Field Number	Name of crops	Own → 1 Rented → 2 Others → 3	Within → 1 Outside → 2	Type of seeds used Improved seed → 1 Local seed → 2	Did you use Fertilizer Yes → 1 No → 2	If yes in column 7 Type of fertilizer Natural → 1 Chemical → 2 Both → 3	Did you apply Irrigation Yes → 1 No → 2	If yes in Column 9 Source of water River → 1 Lake → 2 Pool → 3 Pipe water → 4 Others → 5	Did you use pesticides Yes → 1 No → 2	Total trees	Fruit bearing	Field Area In square Meters	Name of Local Units	Area	Production in kilograms	Name of Local units	Quantity
			CODE											code			Code	