

**FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA  
CENTRAL AGRICULTURAL CENSUS COMMISSION**

**ETHIOPIAN AGRICULTURAL  
SAMPLE ENUMERATION, 2001/02(1994 E.C.)  
RESULTS FOR TIGRAY REGION**



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***STATISTICAL REPORT ON  
FARM MANAGEMENT PRACTICES  
PART III***

**Addis Ababa  
May, 2003**

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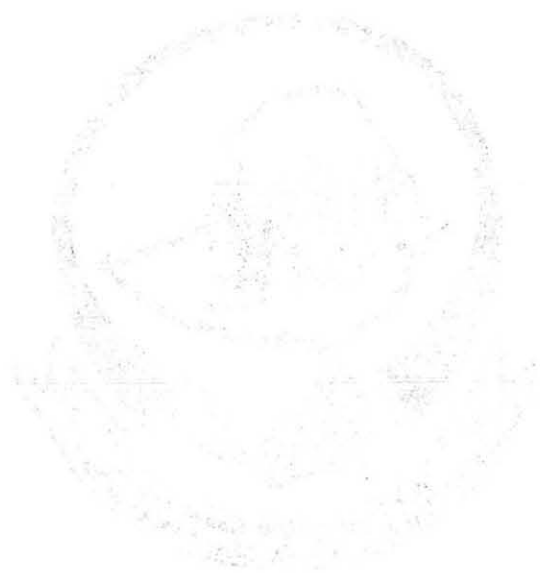


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## **FOREWORD**

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

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

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

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

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

The 2001/02 Ethiopian Agricultural Sample Enumeration is a huge nation wide operation, which could not be undertaken by a single organization. Hence, in order to enhance and facilitate the census enumeration activities Regional, Zonal, and Wereda Census Commissions have been established and Census Committees 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 Tigray Region is the forth series of this census report. This regional report is a comprehensive one and it consists all the agricultural data collected during the 2001/02 Ethiopian Agricultural Sample Enumeration. These data include: the socio-economic characteristics of the population in agricultural households; land use; area, production and yield of temporary and permanent crops; farm management practices; livestock, poultry and beehives; and farm implements, draught animals and storage facilities. Similar comprehensive reports for the other regions will follow and would be released consecutively.

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

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

Abdulahi . Hassen (Ph.D.)

Member and Secretary,

Central Agricultural Census Commission

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# CHAPTER I

## BACKGROUND

### 1. INTRODUCTION

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

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

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

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

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

## **2. OBJECTIVES OF THE CENSUS**

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

### **2.1 The general objectives are to: -**

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

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

## **2.2 The specific objectives are to provide: -**

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

This report presents the Agricultural Sample Enumeration results for Tigray 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 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 Tigray Regional state constitutes eight Chapters presented on about 1,600 pages. Hence, it is neither possible nor comfortable to the reader to present it as a single report. Accordingly, the report is presented in Four 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 and IV . Part II consists of the first two common Chapters and Chapter V . Part III comprises of the first two common Chapters and Chapter VI. Finally, Part IV constitutes the first two common Chapters and Chapters 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 EAs 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 quantitative information on the structure of agriculture. Such a huge operation demands sequence of standard activities. In order to collect, process and produce reliable and internationally comparable data, the different technical procedures and operations that have to be applied during the census should follow what has been globally recommended.

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

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

Since the census of agriculture is not a frequent data collection activity, it is best suited for collecting more data on various characteristics relating to area and production of crops. It

lends the opportunity of capturing as much data as possible, especially when it is conducted for the first time. But agricultural census is not a practical means of providing all data. Not all agricultural statistics can be collected through a census of agriculture. Hence, there was caution against overloading the agricultural census forms with extensive scope. Thus, with regard to the scope, the census had to be restricted to a coherent and manageable range of data items.

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

The cost of data collection is one of the most important factors in the planning and execution of a census. In a country like Ethiopia including in Tigray 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.

Tigray is a regional state with an estimated population of 3.901 millions in July 2002 and an area of 50,078.64 sq. kms. For administrative purposes, the Region is divided into five zones and 34 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 Tigray Region Agricultural Sample Enumeration has covered adequately representative and sufficiently large number of units (holdings) engaged in agriculture both in rural and urban areas to produce relatively reliable data at wereda level. For the purpose of this census, three farming categories have been identified: rural private holdings, urban private holdings and commercial farms. All the categories have been treated in the census on sample bases except the last one that was enumerated completely. These farming categories were enumerated at different times of the census year in order to capture the data as the events happened. The census data collection operation took about six months for Meher seasons and 2 months for Belg season to cover the rural private holdings, about 10 days to cover the urban private holdings and about one month to cover the commercial farms.

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

## **2. CENSUS METHODOLOGY**

### **2.1 Scope and Coverage**

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

At the time of the census, Tigray Regional State consists of five zones; (i.e four rural and one urban) 34 weredas and 70 towns. The rural parts of region have a total of 3,375 EAs while the urban parts have a total of 671 EAs.

In the five zones of the region,, all the 34 weredas were covered in the census. In these weredas, 850 rural and 418 urban EAs. were sampled but the number of EAs which were completed and found to be acceptable for tabulation amounted to 849 in the rural areas and all the EAs. in urban areas. The remaining one EA (rural) was not fully or partially covered due to various reasons. With respect to ultimate sampling units (agricultural households), it was planned to cover 25,500 households in rural areas and 10,422 in urban areas but about 25,460 rural and 10,387 urban agricultural households were actually covered. Based on the results of the census, for the rural parts of the region, the over all coverage rate of sampled EAs was 99.9 percent and the response rate of sampled agricultural households was 99.8 percent. The response rate in the urban domain was 100% of the EAs and about 99.7% of the sampled agricultural households. 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 TIGRAY 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
Western Tigray	9	20	9	20	224	112
Central Tigray	10	20	10	20	250	95
Eastern Tigray	7	14	7	14	175	71
Southern Tigray	8	15	8	15	200	115
Mekele	-	1	-	1	-	25
TOTAL	34	70	34	70	849	418

## 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 Tigray 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 418 E.A's in the 70 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 Mekele and another temporary Branch Census Office in Shire. 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 4,378 enumerators were selected from those who were hired for the rural parts of the country. Of this total, the Tigray Region had a share of 936 enumerators, where 86 of them were held as reserves. For undertaking the census in the urban parts of the region 418 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 Tigray Region, a total of 160 supervisors and 850 enumerators were involved and various field equipment were given to these field staff. The equipment used include, 14 field vehicles, 856 programmable calculators, 860 field compasses, 860 measuring tapes, 860 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 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 Mekele and Shire Towns. Extensive training was given to the field staff. The instructions in the training focused more on the procedures and techniques of data collection and the responsibility shouldered both by the enumerators and the supervisors. The instructions, details of techniques and procedures of enumeration were covered in the manual. The manual served as an instruction text and a reference guide. The rigorous theoretical training was emphasized by a series of field practice and demonstrations. After about 50 days of training and field practice, a rigorous 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, 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

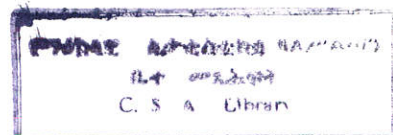
scientific calculators. Moreover, they harvested and weighed the yields obtained using kitchen balances from plots of randomly selected crop fields.

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 \*<sup>1</sup> 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.
- ◆ Form 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.

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

- ◆ Forms 94/7A, 94/7B, and 94/7C are developed for recording yield data on cereals, oil seeds, pulses, vegetables root crops and permanent crops by weighing their yields obtained from sub-plots and/or trees selected for crop-cuttings.
- ◆ Form 94/8 is prepared to enumerate livestock, poultry and beehives data by type, age, sex and purpose including products through interview (subjective approach).
- ◆ Forms 94/9, 94/10 and 94/11 are used to collect data on crop and livestock product usage; miscellaneous items and farm tools, implements, draught animals and storage facilities, in that order, by interviewing the sample holders
- ◆ The last but not least forms are the Belg season questionnaires identified as 94/12A and 94/12B that are used to record data on farm management practices of the season subjectively while 94/12C is for recording Belg season crop area through objective measurement and volume of production through interview approach.

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

- ◆ Form 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.
- ◆ Form 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, quantitative 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 than five years is considered fallow land.

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

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

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

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

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

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

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

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

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

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

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

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

## **4. DATA PROCESSING**

### **4.1 Editing, Coding and Verification**

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

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

For Tigray region, the editing, coding and verification of the filled-in forms in general took about 23 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 17 working days, while that of the filled-in forms on farm implements, demographic characteristics, Belg season and the urban forms took around 6 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 6<sup>th</sup> week of the launching of the operation and was further reduced to 50% from the 10<sup>th</sup> 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 Tigray 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 18.5 working days, while that of the filled-in forms on farm implements, demographic characteristics, Belg season and the urban forms took about 16.9 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.

To this end, 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

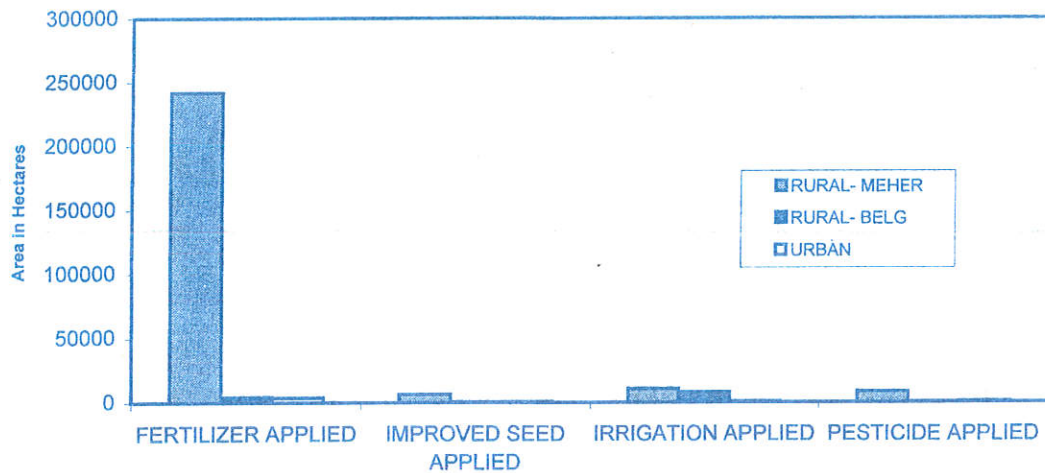
management practices, and number of holders covered by extension package programs in Tigray Region. Data are presented for private holdings in rural areas for both Meher and Belg seasons, and urban areas of holdings for Meher season. For urban areas, data are collected and presented only on the inputs applied and the irrigated cropland area and number of holders who applied farm inputs. Also, data are presented for all zones and weredas of Tigray Region in Statistical Tables 6.1 – 6.57. Moreover, 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 Tigray 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 crop, irrigated land, fertilizers, pesticides and improved seeds used during the agricultural year. Following data on area under agricultural farm inputs for Tigray Region are briefly discussed.

The census data show that Tigray Region predominantly produces grain crops that accounted for about 98% 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, unlike fertilizers 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 used improved seeds, practiced irrigation and applied pesticides 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).

In Tigray Region, fertilizers were applied on 249.6 thousand hectares (43.9% of the total cultivated cropland area). Of this total fertilized cropland area, the share of rural and urban areas was found to be 98.5% and 1.5%, respectively. Moreover, the proportion of total fertilized cropland areas in rural areas for Meher season was 96.8% (241.7 thousand hectares) as compared to only 1.7% (4.2 thousand hectares) 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, 93.9% were under cereals, 3.5% under pulses, 0.9% under oil seeds and the remaining 1.7% were under other 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)

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
<b>Total Area</b>										
Rural and Urban..	568762	481417	44930	31740	332	2094	1981	4400	1815	53
Rural .....	557418	472275	44201	30648	321	2055	1945	4293	1628	53
Meher .....	544351	462526	42715	30634	291	1393	820	4293	1628	53
Belg.....	13067	9749	1487	14	*	663	1125	*	*	*
Urban (Meher) ...	11343	9142	729	1093	11	39	37	106	187	*
<b>Improved Seeds</b>										
Rural and Urban..	7265	6568	186	74	*	123	183	104	22	*
Percent..	100.00	90.41	2.56	1.02	*	1.69	2.52	1.43	0.30	*
Rural .....	6794	6169	179	52	*	115	180	87	*	*
Percent..	93.52	90.80	2.63	0.77	*	1.69	2.65	1.28	*	*
Meher .....	6295	5896	162	52	*	34	53	87	*	*
Percent..	86.65	93.66	2.57	0.83	*	0.54	0.84	1.38	*	*
Belg.....	499	274	*	*	*	81	127	*	*	*
Percent..	6.87	54.91	*	*	*	16.23	25.45	*	*	*
Urban (Meher) ...	470	399	7	*	*	*	4	17	14	*
Percent..	6.47	84.89	1.49	*	*	*	0.85	3.62	2.98	*
<b>Irrigation</b>										
Rural and Urban..	19050	13762	1970	7	*	819	1406	356	694	4
Percent..	100.00	72.24	10.34	0.04	*	4.30	7.38	1.87	3.64	0.02
Rural .....	18423	13387	1959	7	*	794	1384	261	596	*
Percent..	96.71	72.66	10.63	0.04	*	4.31	7.51	1.42	3.24	*
Meher .....	10634	8449	860	7	3	156	298	261	596	*
Percent..	55.82	44.35	4.51	0.04	0.02	0.82	1.56	1.37	3.13	*
Belg.....	7790	4938	1099	*	*	638	1086	*	*	*
Percent..	40.89	63.39	14.11	*	*	8.19	13.94	*	*	*
Urban (Meher) ...	627	375	11	*	1	25	22	96	98	*
Percent..	3.29	59.81	1.75	*	0.16	3.99	3.51	15.31	15.63	*
<b>Fertilizer</b>										
Rural and Urban..	249588	234415	8662	2256	79	1468	1203	862	614	30
Percent..	100.00	93.92	3.47	0.90	0.03	0.59	0.48	0.35	0.25	0.01
Rural .....	245896	230986	8529	2242	72	1438	1181	834	584	30
Percent..	98.52	93.94	3.47	0.91	0.03	0.58	0.48	0.34	0.24	0.01
Meher .....	241649	228134	8333	2241	45	1041	409	834	584	30
Percent..	96.82	94.41	3.45	0.93	0.02	0.43	0.17	0.35	0.24	0.01
Belg.....	4247	2852	196	*	*	397	773	*	*	*
Percent..	1.70	67.15	4.62	*	*	9.35	18.20	*	*	*
Urban (Meher) ...	3692	3429	133	14	*	30		27	30	*
Percent..	1.48	92.88	3.60	0.38	*	0.81	*	0.73	0.81	*
<b>Pesticides</b>										
Rural and Urban..	9065	8265	599	33	*	46	59	*	31	*
Percent..	100.00	91.17	6.61	0.36	*	0.51	0.65	*	0.34	*
Rural .....	8383	7648	583	19	*	44	56	*	12	*
Percent..	92.48	91.23	6.95	0.23	*	0.52	0.67	*	0.14	*
Meher .....	8224	7580	576	19	*	*	7	*	12	*
Percent..	90.72	92.17	7.00	0.23	*	*	0.09	*	0.15	*
Belg.....	160	68	*	*	*	36	49	*	*	*
Percent..	1.77	42.50	*	*	*	22.50	30.63	*	*	*
Urban (Meher) ...	682	617	16	14	*	2	3	*	*	*
Percent..	7.52	90.47	2.35	2.05	*	0.29	0.44	*	*	*

With regard to a specific crop, Teff is the most important fertilized crop that comprised an area of 26.5% of the total cropland area under fertilizers. The second important fertilized crop is maize covering 17.0% of the total cropland area under fertilizers. Sorghum ranks third taking up 15.1% of the total cropland area under fertilizers. For details, refer to Summary Table VI.2.

The result of the census data indicate that Central Tigray Zone has relatively the highest share from the total cropland areas with application of fertilizers (37.8%). The next highest share was observed in West Tigray Zone accounted for about 31.2 percent. It is also seen that the percent of cropland areas under fertilizers was 21.6 and 18.2 percent for East and South Tigray Zone, respectively. Moreover, the application of fertilizers in Meher season constituted relatively higher proportion for all the zones as compared to Belg season. (See 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 9.1 thousand hectares. This indicates that less than two percent of the total cultivated cropland areas were treated with pesticides. Of the total cropland areas treated with pesticides, the share of rural and urban areas was found to be 92.5% and 7.5%, 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 90.7 percent as compared to only 1.8 percent for the Belg season.

Furthermore, most of the pesticide applied land areas in the region were under cereal crops (about 91.2%), whereas only 6.6% of the fields under pulses were treated with pesticides. On the other hand, land areas of the remaining crops treated with pesticides were insignificant. Out of all cropland areas on which pesticides are applied, Teff accounts for about 3.4 thousand hectares followed by wheat and barley, accounting for about 2 and 1.6 thousand 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 Central Tigray Zone (52.8%) followed by South Tigray Zone (23.3%). The percent of cropland area under pesticides for the remaining zones are 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 568.8 thousand hectares. Of this total, only 7.3 thousand hectares (1.3%) was sown with improved variety of seeds. The share of rural and urban areas was found to be 93.5 percent and 6.5 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. Moreover, the share of Belg season to the total improved seed applied cropland area was 499 hectares (6.9%) (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 90.4%, 2.6% and one percent of the total area under improved seeds was reported to be under cereals, pulses and oil seeds, respectively. While, land area of other crops on which improved seeds are applied constitute the remaining six percent. 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, South Tigray Zone (33.2%) constituted the highest share from the total cropland area under improved seeds. This is followed by Central and East Tigray zones, which accounted for about 29.4 and 21.6 percent, respectively. It is also observed that the percent of cropland area under improved seeds in Mekele Zone is negligible.

## **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 19.1 thousand hectares and this accounted for about 3.4% of the total cropland areas. Of the total irrigated cropland areas, the share of the rural and urban areas was found to be 96.7% and 3.3%, respectively. Thus, there is large difference in the size of the total irrigated cropland area between rural and urban areas. Moreover, of the total irrigated cropland areas in rural areas, the Meher season constituted 55.8 percent compared to 40.9 percent for Belg season.

As indicated in Summary Table VI.1, out of the total irrigated cropland areas in the region 72.2% were under cereals, 10.3% under pulses, 4.3% under vegetables, 7.4% under root crops, 1.9% under fruits and 3.6% under stimulant crops. In both rural and urban areas, the proportion under irrigation for cereals crops was the highest as compared to other crops. With regard to specific crops, maize at 5.5, sorghum at 3.1 and Teff at 2.6 thousand hectares reported the largest areas of land under irrigation (See Summary Tables VI.1 and VI.2).

The census data in Summary Table VI.3 indicate that irrigated cropland area was relatively highest in South Tigray Zone (74.4%) followed by Central Tigray Zone (16.6%). It is also observed that areas of land under irrigation practice for East and Central Tigray zones constituted the highest proportion in Belg season relative to Méher season.

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

In 2001/02 Agricultural Sample Enumeration, the total number of holders applying fertilizers in Tigray Region, is estimated to be about 517.7 thousands. Of these total private holders, about 98.8% were in rural and about 1.2% in urban areas. The application of fertilizers in Meher and Belg seasons for private holdings in rural areas shows a great

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	Improved Seed			Irrigation		Fertilizer		Pesticide	
	Total Crop Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%
TOTAL .....	568761	7265	1.28	19050	3.35	249588	43.88	9065	1.59
Grain Crops .....	558419	6831	1.22	15771	2.82	245412	43.95	8898	1.59
Cereals .....	481417	6568	1.36	13761	2.86	234415	48.69	8265	1.72
Teff .....	129545	1127	0.87	2566	1.98	66008	50.95	3356	2.59
Barley .....	56119	731	1.3	1064	1.9	27914	49.74	1594	2.84
Wheat .....	64642	3182	4.92	1364	2.11	31527	48.77	1957	3.03
Maize .....	58037	752	1.3	5527	9.52	42326	72.93	591	1.02
Sorghum .....	117232	517	0.44	3113	2.66	37678	32.14	313	0.27
Finger millet .....	55427	259	0.47	121	0.22	28908	52.16	435	0.78
Oats ('Aja') .....	413	-	-	*	*	52	12.59	*	*
Rice .....	*	-	-	*	*	*	*	*	*
Pulses .....	44930	186	0.41	1970	4.38	8662	19.28	599	1.33
Horse beans .....	15211	90	0.59	226	1.49	4683	30.79	178	1.17
Field peas .....	3801	11	0.29	99	2.6	772	20.31	32	0.84
Haricot beans .....	2311	23	1	*	*	269	11.64	293	12.68
Chick peas .....	12227	36	0.29	1285	10.51	1737	14.21	60	0.49
Lentils .....	4794	12	0.25	181	3.78	429	8.95	*	*
Vetch .....	6019	*	*	122	2.03	645	10.72	28	0.47
Soya .....	51	*	*	-	-	*	*	-	-
Fenugreek .....	516	*	*	54	10.47	110	21.32	*	*
Gibto .....	*	-	-	*	*	-	-	-	-
Oil Seeds .....	31740	74	0.23	7	0.02	2256	7.11	32	0.1
Neug .....	5176	10	0.19	*	*	568	10.97	*	*
Linseed .....	4437	9	0.2	*	*	384	8.65	6	0.14
Ground nuts .....	21	-	-	-	-	*	*	-	-
Sufflower .....	45	*	*	-	-	19	42.22	-	-
Sesame .....	22029	*	*	*	*	1265	5.74	20	0.09
Rapeseed .....	31	*	*	-	-	15	48.39	-	-
Other Grains .....	332	*	*	*	*	79	23.8	*	*
Vegetables .....	2094	123	5.87	819	39.11	1468	70.11	46	2.2
Lettuce .....	38	16	42.11	36	94.74	23	60.53	2	5.26
Head cabbage .....	79	14	17.72	77	97.47	43	54.43	5	6.33
Kale .....	17	*	*	7	41.18	11	64.71	-	-
Tomatoes .....	322	36	11.18	273	84.78	216	67.08	11	3.42
Green peppers .....	277	*	*	122	44.04	179	64.62	6	2.17
Red peppers .....	876	5	0.57	259	29.57	555	63.36	*	*
Swiss chard .....	49	19	38.78	44	89.8	30	61.22	*	*
Others .....	*	*	*	*	*	*	*	*	*
Root Crops .....	1981	183	9.24	1406	70.97	1203	60.73	59	2.98
Beet root .....	14	*	*	12	85.71	*	*	-	-
Carrot .....	63	22	34.92	57	90.48	35	55.56	*	*
Onions .....	1038	117	11.27	913	87.96	651	62.72	43	4.14
Potatoes .....	575	37	6.43	327	56.87	385	66.96	*	*
Garlic .....	200	*	*	86	43	95	47.5	*	*
Taro .....	-	-	-	-	-	-	-	-	-
Sweet potatoes .....	2	*	*	*	*	*	*	-	-
Others .....	89	-	-	*	*	31	34.83	*	*
Permanent Crops .....	6268	128	2.04	1054	16.82	1505	24.01	63	1.01
Fruit Crops .....	4400	104	2.36	356	8.09	861	19.57	*	*
Avocado .....	*	*	*	*	*	*	*	-	-
Bananas .....	106	2	1.89	87	82.08	*	*	*	*
Guava .....	131	*	*	124	94.66	18	13.74	*	*
Lemons .....	55	3	5.45	25	45.45	24	43.64	*	*
Mangoes .....	6	3	50	4	66.67	2	33.33	-	-
Oranges .....	48	10	20.83	40	83.33	19	39.58	*	*
Papayas .....	54	11	20.37	28	51.85	31	57.41	*	*
Pineapples .....	*	*	*	*	*	*	*	-	-
Others .....	3997	11	0.28	45	1.13	723	18.09	*	*
Stimulant Crops .....	1815	22	1.21	694	38.24	613	33.77	31	1.71
Chat .....	231	-	-	*	*	*	*	*	*
Coffee .....	185	14	7.57	152	82.16	35	18.92	4	2.16
Hops .....	1399	8	0.57	414	29.59	536	38.31	5	0.36
Others .....	-	-	-	-	-	-	-	-	-
Other Permanent .....	53	*	*	4	7.55	30	56.6	*	*
Enset .....	*	-	-	*	*	*	*	-	-
Sugar Cane .....	*	-	-	*	*	*	*	-	-
Others .....	50	*	*	*	*	29	58	*	*

SUMMARY TABLE VI.3: Area Under Agricultural Inputs and Irrigation Practices by Season and Zones in Rural and Urban Areas, for Private Holdings

Data Items	Area under Agricultural Inputs and Irrigation in Hectares							
	Rural and Urban	Percent	Rural Meher	Rural Belg	Rural	Percent	Urban Meher	Percent
<b>Tigray Killil</b>								
Irrigation	19050	100.00	10633	7790	18423	100.00	627	100.00
Improved seeds	7265	100.00	6295	499	6794	100.00	470	100.00
Pesticides	9065	100.00	8224	160	8383	100.00	682	100.00
Fertilizer	249588	100.00	241649	4247	245896	100.00	3692	100.00
<b>West Tigray Zone</b>								
Irrigation	503	2.64	268	220	488	2.65	15	2.39
Improved seeds	1131	15.57	986	53	1040	15.31	92	19.57
Pesticides	989	10.91	920	12	932	11.12	57	8.36
Fertilizer	77817	31.18	77037	109	77146	31.37	671	18.17
<b>Central Tigray Zone</b>								
Irrigation	3170	16.64	1500	1562	3062	16.62	108	17.22
Improved seeds	2139	29.44	1853	159	2012	29.61	127	27.02
Pesticides	4787	52.81	4335	40	4375	52.19	412	60.41
Fertilizer	94391	37.82	91393	939	92333	37.55	2058	55.74
<b>East Tigray Zone</b>								
Irrigation	1168	6.13	467	684	1152	6.25	16	2.55
Improved seeds	1568	21.58	1507	*	1524	22.43	45	9.57
Pesticides	*	*	1115	*	1131	13.49	36	5.28
Fertilizer	31993	12.82	31025	725	31751	12.91	243	6.58
<b>South Tigray Zone</b>								
Irrigation	14176	74.41	8398	5324	13722	74.48	454	72.41
Improved seeds	2413	33.21	1948	271	2219	32.66	194	41.28
Pesticides	2113	23.31	1854	92	1946	23.21	167	24.49
Fertilizer	45322	18.16	42193	2473	44667	18.16	655	17.74
<b>Mekele Zone</b>								
Irrigation	*	*	-	-	-	-	*	*
Improved seeds	*	*	-	-	-	-	*	*
Pesticides	*	*	-	-	-	-	*	*
Fertilizer	64	0.03	-	-	-	-	64	1.73

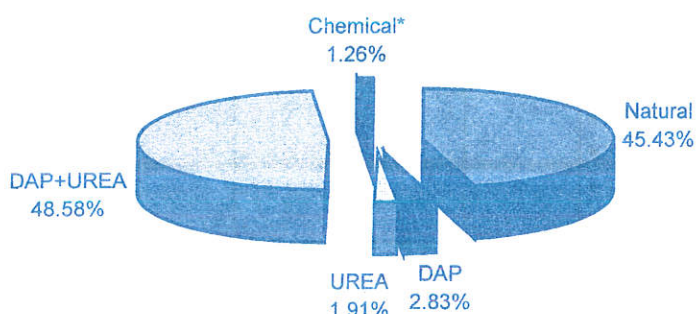
variation, that is, 97.8% of the holders applied fertilizers in Meher season while only 7.1 percent applied in Belg season (See Summary Tables VI.4 and VI.5).

With regard to the type of fertilizers applied, the great majority of holders applied natural fertilizers (372.7 thousands). When we come to the utilization of commercial fertilizers, about 296.3 thousand of the holders applied mixture of DAP and UREA followed by only DAP (24.5 thousands) and only UREA (20.6 thousands). Moreover, about 20.9 thousand holders reported the application of chemical fertilizers for Belg season. In urban areas for private holdings, a total of 3.6 thousand holders applied natural and chemical fertilizers.

Among the types of fertilizers used, a mixture of DAP and UREA was applied in larger cultivated cropland area, which is about 121.2 thousand hectares (that is, 48.6% of fertilized cropland area). Next to the mixture of DAP and UREA, considerable amount of cropland area was covered by natural fertilizers which is 113.4 thousand hectares (45.4%) (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 132.9 thousand quintals, of which, the share of the DAP and UREA mixture was the highest accounting for about 93.9 percent of the total quantity of chemical fertilizers applied. This is followed by DAP accounting for about 3.6 percent (See Fig VI.3 and Summary Table VI.4). Total amount of fertilizers used by zone is presented in Summary Table VI.7. The data in the table shows that the highest quantity of chemical fertilizers application was reported in Central Tigray Zone (41.1%). The application in West, East, and South Tigray Zones were 29.2, 10.8, 19.0 percent, respectively.

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

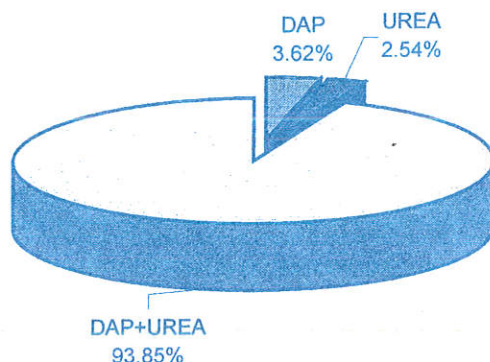


\* Cropland area under chemical fertilizers by percent of the total fertilized cropland is only for urban areas

### 3.1 Application of Natural Fertilizers in the Rural and Urban Areas

According to the census findings, about 371.6 thousand holders in rural areas and 1.1 thousand holders in urban areas applied natural fertilizers on 113.4 thousand hectares of cropland (comprising 45.4% 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 44.6 and 0.6 percent, respectively. Moreover, of the total land area on which natural

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



fertilizers are applied 90.3% was under cereals, 5.9% under pulses, and 1.6% under oilseeds, and the remaining 2.2% was under other crops. For details, refer to Summary Table VI.4

### 3.2 Application of DAP in the Rural Areas

As illustrated in Summary Table VI.4, about 24.5 thousand holders in rural areas have applied DAP on about 7.1 thousand hectares, which is about 2.8% of the total fertilized land area. The application of DAP varied markedly from one group of crops to another, i.e., 94.2% of the total DAP was applied for cereals, 3.1% for pulses and the remaining 2.7 percent is for other crops. Variations with respect to specific crops are also considerable, i.e., relatively higher for Teff at 2.7 thousand hectares and finger millet at 1.3 thousand 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 4.8 thousand quintals, which is 3.6% of the total quantity of chemical fertilizers applied. In general, the quantity of DAP applied was the highest for cereals which was about 4.5 thousand quintals followed by pulses that amounted to 246 quintals.

### 3.3 Application of UREA in the Rural Areas

There were about 20.6 thousand holders in rural areas that applied UREA, and the cropland areas applied occupy 4.8 thousand hectares, which is only 1.9% of the total fertilizers

applied. Out of the total area on which UREA was applied, it is reported that 94.5 % was under cereals and 1.9% under pulses. These values indicate that UREA was applied in a high proportion of area under cereals relative to other group of crops. Among all crops, the largest UREA applied area was under Teff at 1.6 thousand hectares and wheat at 781 hectares. Moreover, the data in the table shows that the total quantity of UREA applied was about 3.4 thousand quintals in which the highest amount was applied for cereals at 3.1 thousand quintals followed by root crops at 94 quintals (See 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 296.3 thousand holders in rural areas who applied a mixture of DAP and UREA on 121.2 thousand hectares, which is 48.6% of the total area on which fertilizers were applied. The application of a mixture of DAP and UREA to cereals was on 117.9 thousand hectares (97.2%). 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, Vegetables, and root crops were only 1.5 thousand, 780 and 670 hectares, respectively.

In addition, out of the total quantity of chemical fertilizers applied, the amount of a mixture of DAP and UREA was 124.7 thousand quintals, which is 93.9% of the total quantity of chemical fertilizers. The application of a mixture of DAP and UREA to cereals and pulses amounted to about 119.9 and 2.3 thousand quintals, in that order. Of the total quantity of mixed chemical fertilizers applied, Teff and wheat took the highest proportion accounting for about 39.0 and 18.3 percent, respectively. 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	Number of Holders Applying Fertilizer by Type									
	Total	Grains				Vegetables	Root Crops	Permanent Crops		
		Cereals	Pulses	Oilseeds	Others			Fruits	Stimulant	Other
Rural and Urban	517709	503893	98763	15627	2464	63181	35518	22621	33388	2132
Percent.	100									
Natural	372655	332613	80163	12413	1981	51148	21504	21580	29180	1836
Chemical	325459	319224	21338	3471	508	13286	16016	1167	4652	296
DAP	24498	22024	2018	212	-	620	756	*	*	*
UREA	20564	17414	1182	205	-	1613	1681	172	382	-
DAP & UREA	296262	291558	17902	3033	502	11070	13823	845	4064	228
Urban	5951	5742	433	57	*	133	80	200	159	-
Percent.	1.15									
Natural	1109	903	65	19	-	61	17	149	102	-
Chemical	5297	5192	368	38	*	73	63	62	57	-
Rural Meher	506110	493377	97085	15464	1482	53488	21927	22421	33229	2132
Percent.	97.76									
Natural	365033	327186	79256	12288	1130	44911	15352	21431	29077	1836
Chemical	313091	309567	20366	3433	376	8904	7113	1105	4596	296
DAP	23803	21752	2018	212	-	546	249	*	*	*
UREA	18457	16435	1131	205	-	872	814	172	382	-
DAP & UREA	289215	286982	17350	3033	376	7486	6125	845	4064	228
Rural Belg	36530	22395	1769	*	*	11463	16367	-	-	-
Percent.	7.06									
Natural	18151	10116	1095	*	*	6985	7205	-	-	-
Chemical	20944	12855	674	-	*	5113	9977	-	-	-
DAP	854	332	-	-	-	*	506	-	-	-
UREA	2428	1102	*	-	-	778	867	-	-	-
DAP & UREA	18365	11563	623	-	*	4312	8604	-	-	-
Area in Hectares										
Rural and Urban	249588	234415	8662	2256	79	1468	1203	861	613	30
Percent.	100.00	93.92	3.47	0.9	0.03	0.59	0.48	0.34	0.25	0.01
Natural	113386	102422	6738	1765	38	650	450	829	474	19
Percent.	45.43	90.33	5.94	1.56	0.03	0.57	0.4	0.73	0.42	0.02
Chemical	136202	131993	1924	491	41	818	753	33	140	*
Percent.	54.57	96.91	1.41	0.36	0.03	0.6	0.55	0.02	0.1	*
DAP	7052	6642	215	162	-	6	25	*	*	*
Percent.	2.83	94.19	3.05	2.30	-	0.09	0.35	*	*	*
UREA	4761	4501	89	81	-	27	50	*	*	*
Percent.	1.91	94.54	1.87	1.70	-	0.57	1.05	*	*	*
DAP & UREA	121242	117862	1513	239	34	780	670	15	120	*
Percent.	48.58	97.21	1.25	0.20	0.03	0.64	0.55	0.01	0.10	*
Urban	3692	3429	133	14	*	30	*	27	30	-
Percent.	1.48	92.88	3.6	0.38	*	0.81	*	0.73	0.81	-
Natural	545	441	*	*	-	*	*	14	20	-
Percent.	0.22	80.92	*	*	-	*	*	2.57	3.67	-
Chemical	3147	2988	107	9	*	5	8	*	*	-
Percent.	1.26	94.95	3.4	0.29	*	0.16	0.25	*	*	-
Rural Meher	241649	228134	8333	2240	45	1041	409	834	584	30
Percent.	96.82	94.41	3.45	0.93	0.02	0.43	0.17	0.35	0.24	0.01
Natural	111256	100925	6603	1758	25	444	214	814	454	19
Percent.	44.58	90.71	5.93	1.58	0.02	0.4	0.19	0.73	0.41	0.02
Chemical	130393	127209	1730	482	20	*	194	20	130	*
Percent.	52.24	97.56	1.33	0.37	0.02	*	0.15	0.02	0.1	*
DAP	6998	6605	215	*	-	4	*	*	*	*
Percent.	2.80	94.38	3.07	*	-	0.06	*	*	*	*
UREA	4611	4404	88	*	-	9	17	*	*	*
Percent.	1.85	95.51	1.91	*	-	0.2	0.37	*	*	*
DAP & UREA	118784	116200	1428	239	20	*	168	15	120	*
Percent.	47.59	97.82	1.2	0.2	0.02	*	0.14	0.01	0.1	*
Rural Belg	4247	2852	196	*	*	397	773	-	-	-
Percent.	1.70	67.15	4.62	*	*	9.35	18.2	-	-	-
Natural	1585	1056	110	*	*	181	223	-	-	-
Percent.	0.64	66.62	6.94	*	*	11.42	14.07	-	-	-
Chemical	2662	1796	86	*	*	218	550	-	-	-
Percent.	1.07	67.47	3.23	*	*	8.11	20.66	-	-	-
DAP	54	37	-	-	-	*	16	-	-	-
Percent.	0.02	68.52	-	-	-	*	29.63	-	-	-
UREA	150	97	*	-	-	18	33	-	-	-
Percent.	0.06	64.67	*	-	-	12	22	-	-	-
DAP & UREA	2458	1662	85	*	*	196	502	-	-	-
Percent.	0.98	67.62	3.46	*	*	7.97	20.42	-	-	-

SUMMARY TABLE VI.4: CONTD.

Type of Fertilizer	Quantity in Quintals									
	Total	Grains				Vegetables	Root Crops	Permanent Crops		
		Cereals	Pulses	Oilseeds	Others			Fruits	Stimulant	Other
Total (Rural) .....	132920	127473	2597	230	55	807	1617	22	113	3
Percent..	100.00	95.90	1.95	0.17	0.04	0.61	1.22	0.02	0.09	0.00
DAP .....	4806	4500	246	12	-	9	33	*	*	*
Percent..	3.62	93.63	5.12	0.25	-	0.19	0.69	*	*	*
UREA .....	3374	3112	80	12	-	72	94	*	*	-
Percent..	2.54	92.23	2.37	0.36	-	2.13	2.79	*	*	-
DAP & UREA .....	124740	119861	2271	206	55	727	1489	19	108	*
Percent..	93.85	96.09	1.82	0.17	0.04	0.58	1.19	0.02	0.09	*
Rural Meher.....	128933	125085	2496	230	29	354	599	22	113	*
Percent..	97.00	97.02	1.94	0.18	0.02	0.27	0.46	0.02	0.09	*
DAP .....	4755	4465	246	12	-	8	19	*	*	-
Percent..	3.58	93.9	5.17	0.25	-	0.17	0.4	*	*	-
UREA .....	3202	3035	79	12	-	40	32	*	*	-
Percent..	2.41	94.78	2.47	0.37	-	1.25	1	*	*	-
DAP & UREA .....	120976	117585	2171	206	29	307	547	19	108	*
Percent..	91.01	97.2	1.79	0.17	0.02	0.25	0.45	0.02	0.09	*
Rural Belg.....	3987	2388	101	-	*	453	1018	-	-	-
Percent..	3.00	59.89	2.53	-	*	11.36	25.53	-	-	-
DAP .....	51	35	-	-	-	*	14	-	-	-
Percent..	0.04	68.63	-	-	-	*	27.45	-	-	-
UREA .....	172	77	*	-	-	32	62	-	-	-
Percent..	0.13	44.77	*	-	-	18.6	36.05	-	-	-
DAP & UREA .....	3764	2276	100	-	*	420	942	-	-	-
Percent..	2.83	60.47	2.66	-	*	11.16	25.03	-	-	-

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.

#### 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 in Tigray Region are presented in Summary Table VI.6.

##### 4.1 Number of Holders using Improved Seeds.

As portrayed in Summary Table VI.6 the use of improved seeds is limited to only 41.6 thousand holders in rural and urban areas of the region. Of the total holders using improved seeds, 46.7% used improved wheat seed, 15% improved barley seed, and 14.3% improved maize seed, 10.5% improved variety of Teff seeds. The utilization of improved seeds for pulses, oil seeds, vegetables, root crops and permanent crops is very low compared to cereals.

**SUMMARY TABLE VI.5: Number of Holders Applying Fertilizers, Fertilized Area, and Quantity of Fertilizers by Crop Type in Rural and Urban Areas, for Private Holdings**

CROP	Application of total Fertilizers		Application of Fertilizers by Type and Quantity				
	Holders	Hectares	Natural		Chemical – DAP		
			Holders	Hectares	Holders	Hectares	Quintals
TOTAL .....	517709	249588	372655	113386	24498	7052	4805
Grain Crops .....	508754	245412	347600	110964	23419	7018	4758
Cereals .....	503893	234415	332613	102422	22024	6642	4500
Teff .....	225599	66008	53936	11752	8717	2743	1531
Barley .....	192877	27914	99605	11667	6902	1083	999
Wheat.....	182810	31527	70190	8825	5533	770	693
Maize.....	289649	42326	215026	28904	2638	337	356
Sorghum.....	114338	37678	95668	31109	1391	380	193
Finger millet.....	118594	28908	51631	10124	4232	1329	728
Oats ('Aja').....	406	52	267	39	-	-	-
Rice .....	*	*	-	-	-	-	-
Pulses .....	98763	8662	80163	6738	2018	215	246
Horse beans.....	70237	4683	56442	3600	1209	142	161
Field peas.....	11495	772	9196	569	499	48	60
Haricot beans .....	3649	269	3244	255	-	-	-
Chick peas.....	12436	1737	10803	1461	*	*	*
Lentils.....	6326	429	4700	319	297	11	17
Vetch.....	4646	645	3658	488	-	-	-
Soya.....	173	*	*	*	-	-	-
Fenugreek .....	1705	110	866	31	*	*	*
Gibto .....	-	-	-	-	-	-	-
Oil Seeds .....	15627	2256	12413	1765	212	*	12
Neug .....	4360	568	3101	513	*	*	*
Linseed.....	6650	384	5362	309	91	*	*
Ground nuts .....	*	*	-	-	-	-	-
Sufflower .....	627	19	376	11	*	*	*
Sesame.....	4003	1265	3559	921	83	*	*
Rapeseed.....	527	15	407	11	-	-	-
Other Grains .....	2464	79	1981	38	-	-	-
Vegetables .....	63181	1468	51148	650	620	5	10
Lettuce.....	3217	23	2326	13	-	-	-
Head cabbage.....	2240	43	1304	13	-	-	-
Kale.....	702	11	589	4	-	-	-
Tomatoes .....	7995	216	5011	94	*	*	*
Green peppers .....	16713	179	12586	110	*	*	*
Red peppers .....	37885	555	33051	385	461	3	5
Swiss chard .....	3133	30	1896	18	*	*	*
Others .....	1201	*	938	14	-	-	-
Root Crops .....	35518	1203	21504	450	756	25	34
Beet root .....	440	*	197	*	-	-	-
Carrot.....	2173	35	1165	20	*	*	*
Onions.....	17200	651	8269	180	*	4	12
Potatoes.....	11208	385	7079	171	*	*	20
Garlic.....	10344	95	7578	63	*	*	*
Taro ('Godere') .....	-	-	-	-	-	-	-
Sweet potatoes .....	213	*	*	*	*	*	*
Others .....	479	31	308	*	-	-	-
Permanent Crops.....	50666	1505	45845	1321	307	4	*
Fruit Crops .....	22621	861	21580	829	*	*	*
Avocado.....	160	*	*	*	-	-	-
Bananas.....	2115	*	2000	*	-	-	-
Guava (Zeytuna).....	1545	18	1246	14	*	*	*
Lemons .....	3078	24	2762	15	*	*	*
Mangoes.....	249	2	209	2	-	-	-
Oranges.....	1628	19	1438	14	-	-	-
Papayas.....	2117	31	2008	*	-	-	-
Pineapples.....	*	*	*	*	-	-	-
Others .....	15688	723	15451	713	*	*	*
Stimulant Crops.....	33388	613	29180	474	*	*	*
Chat.....	1191	*	1096	*	-	-	-
Coffee .....	1492	35	1276	30	-	-	-
Hops .....	32046	536	27927	413	*	*	*
Others .....	-	-	-	-	-	-	-
Other Permanent .....	2132	30	1836	19	*	*	-
Enset.....	*	*	*	*	-	-	-
Sugar Cane.....	*	*	*	*	-	-	-
Others .....	2035	29	1772	18	*	*	-

SUMMARY TABLE VI.5 Contd.

Crop	Application of Fertilizers by Type and Quantity							
	UREA			DAP & UREA			Chemical (Urban)	
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare
TOTAL .....	20564	4761	3375	296262	121242	124740	5297	3147
Grain Crops.....	18065	4671	3204	292864	119648	122394	5234	3111
Cereals .....	17414	4501	3112	291558	117862	119861	5192	2988
Teff .....	7005	1603	1040	163202	48587	48659	3548	1323
Barley .....	4070	701	575	101250	14150	12729	1088	313
Wheat .....	4170	781	746	121667	20764	22785	1495	387
Maize.....	3762	409	289	78359	12450	15962	757	226
Sorghum.....	1257	344	139	19887	5418	4838	698	427
Finger millet.....	3085	662	325	66040	16480	14879	850	312
Oats ('Aja') .....	-	-	-	139	13	*	-	-
Rice .....	-	-	-	*	*	*	-	-
Pulses.....	1182	89	80	17902	1513	2272	368	107
Horse beans.....	609	39	47	12794	842	1302	169	61
Field peas.....	233	18	*	1633	129	171	26	7
Haricot beans.....	*	*	*	321	*	*	*	*
Chick peas.....	154	*	*	1334	225	259	87	18
Lentils .....	*	*	*	1280	92	*	41	6
Vetch.....	*	*	*	971	146	148	44	8
Soya.....	-	-	-	*	*	*	-	-
Fenugreek.....	*	*	*	779	68	56	30	6
Gibto .....	-	-	-	-	-	-	-	-
Oil Seeds.....	205	*	12	3033	239	206	38	9
Neug.....	*	*	*	1310	53	60	1	*
Linseed.....	*	*	*	1085	65	61	22	3
Ground nuts.....	-	-	-	*	*	*	*	*
Sufflower.....	*	*	*	232	7	*	-	-
Sesame.....	*	*	*	292	108	81	*	3
Rapeseed .....	-	-	-	*	*	*	-	-
Other Grains.....	-	-	-	502	33	55	*	*
Vegetables .....	1613	27	72	11070	*	726	73	5
Lettuce.....	152	*	*	803	6	14	8	1
Head cabbage.....	321	4	9	679	26	46	6	*
Kale .....	-	-	-	113	*	*	-	-
Tomatoes.....	436	8	13	2896	113	232	10	*
Green peppers.....	267	3	*	4074	64	168	*	*
Red peppers.....	521	7	7	4024	156	202	47	4
Swiss chard.....	324	2	*	967	9	22	13	1
Others .....	-	-	-	263	*	*	-	-
Root Crops.....	1681	50	95	13823	670	1489	63	8
Beet root.....	*	*	*	196	*	*	*	*
Carrot .....	*	*	*	929	12	20	3	*
Onions.....	705	22	49	8518	438	886	44	7
Potatoes.....	539	21	36	3681	171	381	*	*
Garlic.....	284	2	*	2528	29	184	3	*
Taro ('Godere') .....	-	-	-	-	-	-	-	-
Sweet potatoes.....	-	-	-	*	*	*	-	-
Others .....	*	*	*	149	18	*	*	*
Permanent Crops.....	491	*	*	4597	145	131	89	23
Fruit Crops.....	172	*	*	845	15	19	62	*
Avocado .....	-	-	-	*	*	*	*	*
Bananas .....	*	*	*	*	*	*	*	*
Guava (Zeytuna).....	*	*	*	*	*	*	12	*
Lemons.....	*	*	*	245	*	*	*	*
Mangoes.....	-	-	-	*	*	*	6	-
Oranges.....	*	*	*	122	*	*	43	5
Papayas.....	-	-	-	*	*	*	17	*
Pineapples .....	-	-	-	-	-	-	-	-
Others .....	*	*	*	179	*	*	18	*
Stimulant Crops.....	382	*	*	4064	120	108	57	*
Chat .....	*	*	*	*	*	*	*	*
Coffee.....	*	*	-	162	*	*	29	*
Hops .....	333	2	*	4002	117	103	28	2
Others.....	-	-	-	-	-	-	-	-
Other Permanent Crops.....	-	-	-	228	*	*	-	-
Enset.....	-	-	-	-	-	-	-	-
Sugar Cane .....	-	-	-	*	*	*	-	-
Others.....	-	-	-	194	*	*	-	-

**SUMMARY TABLE VI.6: Number of Holders Utilizing Improved Seeds and Quantity of Improved Seeds Applied by Crop Type in Rural and Urban Areas, for Private Holdings**

Type of Crop	Holders Applying Improved Seeds					Quantity in Quintals			
	Total	%	Rural		Urban	Rural	%	Meher	Belg
			Meher	Belg	Meher				
Total.....	41595	100.00	35659	6318	1388	6504	100.00	6329	175
Grain Crops.....	33153	79.70	30156	1998	1176	6504	100.00	6329	175
Cereals.....	31614	76.00	28783	1822	1176	6377	98.05	6233	144
Teff.....	4351	10.46	3966	*	1161	430	6.61	430	-
Barley.....	6217	14.95	6031	*	364	494	7.60	485	*
Wheat.....	19429	46.71	18829	*	115	4990	76.72	4981	*
Maize.....	5942	14.29	4033	1755	574	306	4.70	179	127
Sorghum.....	2928	7.04	2860	-	154	64	0.98	64	-
Finger millet.....	1495	3.59	1448	-	68	93	1.43	93	-
Oats ('Aja').....	-	-	-	-	47	-	-	-	-
Rice.....	-	-	-	-	-	-	-	-	-
Pulses.....	2044	4.91	1907	119	-	123	1.89	92	*
Horse beans.....	1069	2.57	1065	-	18	66	1.01	66	-
Field peas.....	204	0.49	202	-	4	*	*	*	-
Haricot beans.....	298	0.72	298	-	2	*	*	*	-
Chick peas.....	264	0.63	172	*	-	49	0.75	*	*
Lentils.....	167	0.40	166	-	*	*	*	*	-
Vetch.....	*	*	*	-	1	-	-	-	-
Soya.....	*	*	*	-	9	-	-	-	-
Fenugreek.....	*	*	*	*	-	*	*	*	*
Oil Seeds.....	724	1.74	714	-	-	*	*	*	-
Neug.....	217	0.52	217	-	-	*	*	*	-
Linseed.....	207	0.50	205	-	10	*	*	*	-
Ground nuts.....	-	-	-	-	-	-	-	-	-
Sufflower.....	*	*	*	-	2	-	-	-	-
Sesame.....	*	*	*	-	-	*	*	*	-
Rapeseed.....	*	*	*	-	-	*	*	*	-
Other Grains.....	309	0.74	252	*	8	-	-	-	-
Vegetables.....	4569	10.98	2145	2890	-	-	-	-	-
Lettuce.....	1236	2.97	*	676	-	-	-	-	-
Head cabbage.....	1260	3.03	*	780	50	-	-	-	-
Kale.....	*	*	*	*	20	-	-	-	-
Tomatoes.....	1710	4.11	515	1328	1	-	-	-	-
Green peppers.....	567	1.36	*	493	-	-	-	-	-
Red peppers.....	430	1.03	155	274	*	-	-	-	-
Swiss chard.....	2121	5.10	*	1013	*	-	-	-	-
Others.....	*	*	*	*	-	-	-	-	-
Root Crops.....	5190	12.48	1941	3354	40	-	-	-	-
Beet root.....	*	*	*	*	*	-	-	-	-
Carrot.....	1526	3.67	*	488	32	-	-	-	-
Onions.....	2818	6.77	370	2462	*	-	-	-	-
Potatoes.....	1055	2.54	598	457	1	-	-	-	-
Garlic.....	237	0.57	165	*	26	-	-	-	-
Taro ('Godere').....	-	-	-	-	-	-	-	-	-
Sweet potatoes.....	*	*	*	-	-	-	-	-	-
Others.....	-	-	-	-	-	-	-	-	-
Permanent crops.....	3792	9.12	3626	-	166	-	-	-	-
Fruit Crops.....	3465	8.33	3303	-	-	-	-	-	-
Avocado.....	217	0.52	209	-	-	-	-	-	-
Bananas.....	166	0.40	145	-	166	-	-	-	-
Guava (Zeytuna) ...	1374	3.30	1289	-	162	-	-	-	-
Lemons.....	375	0.90	358	-	8	-	-	-	-
Mangoes.....	143	0.34	*	-	*	-	-	-	-
Oranges.....	456	1.10	390	-	86	-	-	-	-
Papayas.....	1285	3.09	1214	-	17	-	-	-	-
Pineapples.....	*	*	-	-	36	-	-	-	-
Others.....	620	1.49	595	-	66	-	-	-	-
Stimulant Crops.....	358	0.86	319	-	71	-	-	-	-
Chat.....	-	-	-	-	*	-	-	-	-
Coffee.....	358	0.86	319	-	24	-	-	-	-
Other Permanent Crops.....	179	0.43	179	-	39	-	-	-	-

## 4.2 Quantity of Improved Seeds Used

Information on quantity of improved varieties of seeds is limited to grain crops only. As can be seen from Summary Table VI.6, the total quantity of improved seeds was estimated to be 6.5 thousand quintals in rural areas. Of which the share of Belg season was 2.7% (175 quintals). Considering the total quantity of improved seeds utilized, about 76.7% accounted for wheat followed by about 7.6% for barley and 6.6% for Teff. In the case of pulse crops, the quantity of improved seeds used was insignificant. Moreover, the highest amount of improved seeds used was observed in East Tigray Zone (38.8%) followed by South Tigray Zone accounting for about 33.9%. Details are given in Summary Tables VI.6 and VI.7.

Summary Table VI.7 Quantity of Chemical Fertilizers Applied and Improved Seeds Used by Zone and Season in Rural Areas, for Private Holdings

Item	Quantity in Quintals					
	Total	West Tigray	Central Tigray	East Tigray	South Tigray	Mekele
<b>Fertilizer Quantity</b>						
Total	132919	38817	54589	14325	25190	-
Percent	100.00	29.20	41.07	10.78	18.95	-
Meher	128933	38712	53472	13711	23037	-
Belg	3987	104	1116	613	2153	-
<b>Improved Seeds Quantity</b>						
Total	6504	382	1394	2520	2206	-
Percent	100.00	5.87	21.43	38.75	33.92	-
Meher	6329	382	1366	2520	2061	-
Percent	100.00	6.04	21.58	39.82	32.56	-
Belg	175	*	28	*	145	-
Percent	100.00	*	16.00	*	82.86	-

## 5. FARM MANAGEMENT PRACTICES AND EDUCATIONAL ATTAINMENT OF HOLDERS

This section of the report presents data on educational attainment of holders in relation to their farm management practices. At the time of enumeration all holders in the sampled households were asked to state their educational attainment. As presented in Summary Table VI.8 data on literacy status and highest grade completed for literate holders were collected. The census findings indicate that the level of educational attainment of the holders in Tigray 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 (71% in rural and 54.7 % in urban areas) were found to be illiterate while 16.8% in rural and 14.6% in urban areas have participated in informal education. Moreover, the data shows that 11.3% of the holders in rural and 23.9% of holders in urban areas have completed grades 1 to 6 and only 0.9% of the holders in rural and 6.5 % in urban areas have completed grades 7-12. Furthermore, around 0.02% of the holders in rural and 0.4% 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.

The total number of holders participating in the agricultural extension package programs was 91.3 thousands, which is only about 13.6% of the total holders in the region. Of the total holders participating in the extension programs, 80.9 thousand holders were in Meher season and 15.6 thousand holders were in Belg season. The distribution of extension package program participants by educational status shows that 65.7% were illiterate, 19.3% have participated in informal education, 14.1% have completed grades 1 to 6 and 0.9% 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, 63.6, 67.2, 69.1 and 61.0 percents were illiterate, respectively.

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 proportions of the total holders who have applied fertilizers were the highest as compared to other inputs and irrigation. Thus, fertilizers are the most important input and it is used by 125.6 thousand holders (24.3%) in West Tigray Zone, 188.9 thousands (36.5%) in Central Tigray Zone, and about 102 thousands each in East and South Tigray Zone. With the exception of irrigation Practice in South Tigray Zone (52.4%), the proportion of holders that

follow irrigation schemes (28.1%), used improved seeds (30.9%), and applied pesticides (54.9%) were higher in Central Tigray Zone compared to other Zones (For details, refer to Summary Tables VI.8 and VI.9).

SUMMARY TABLE VI.8: Holders Applying Agricultural Inputs and Participating in Extension Programs by Level of Education in Rural and Urban Areas, for Private Holdings

Place of Residence/Season	Total		Educational Level of Holder									
			Illiterate		Literate, but no Formal Education		Grade 1 - 6		Grade 7 - 12		Above Grade 12	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
<b>All Crop Holders</b>												
Rural and Urban...	685552	100.00	484810	70.72	114539	16.71	79108	11.54	6889	1.00	204	0.03
Rural .....	672096	100.00	477446	71.04	112579	16.75	75898	11.29	6018	0.90	155	0.02
Meher .....	671585	100.00	477067	71.04	112522	16.75	75851	11.29	5990	0.89	155	0.02
Belg.....	82447	100.00	56448	68.47	15493	18.79	9356	11.35	1084	1.31	*	*
Urban .....	13455	100.00	7365	54.74	1960	14.57	3209	23.85	871	6.47	49	0.36
<b>Improved Seeds</b>												
Rural and Urban...	41595	6.07	26466	63.63	8103	19.48	6342	15.25	664	1.60	20	0.05
Rural .....	40207	5.86	25872	64.35	7884	19.61	5928	14.74	523	1.30	*	*
Meher .....	35659	5.31	23208	65.08	6989	19.60	4957	21.36	505	1.42	*	*
Belg.....	6318	7.66	3823	60.51	1154	18.27	1258	32.91	*	*	*	*
Urban .....	1389	10.32	595	42.84	219	15.77	414	29.81	141	10.15	20	1.44
<b>Irrigation.....</b>												
Rural and Urban...	106603	15.55	71623	67.19	20937	19.64	12797	12.00	1212	1.14	34	0.03
Rural .....	105055	15.63	70917	67.50	20686	19.69	12370	11.77	1065	1.01	*	*
Meher .....	63431	9.44	42474	66.96	12690	20.01	7670	12.09	582	0.92	*	*
Belg.....	64609	78.36	43970	68.06	12371	19.15	7413	11.47	855	1.32	*	*
Urban .....	1548	11.51	706	45.61	251	16.21	427	27.58	147	9.50	18	1.16
<b>Fertilizer</b>												
Rural and Urban...	517709	75.52	357699	69.09	91194	17.61	63442	12.25	5223	1.01	151	0.03
Rural .....	511758	76.14	354892	69.35	90261	17.64	61737	12.06	4748	0.93	*	*
Meher .....	506110	75.36	350887	69.33	89378	17.66	61114	12.08	4612	0.91	*	*
Belg.....	36530	44.31	24290	66.49	6664	18.24	4988	13.65	573	1.57	*	*
Urban .....	5951	44.23	2807	47.17	933	15.68	1704	28.63	475	7.98	31	0.52
<b>Pesticides</b>												
Rural and Urban...	37313	5.44	22751	60.97	7573	20.30	6506	17.44	476	1.28	*	*
Rural .....	36156	5.38	22277	61.61	7344	20.31	6148	17.00	389	1.08	*	*
Meher .....	33515	4.99	20395	60.85	6996	20.87	5762	17.19	362	1.08	*	*
Belg.....	2794	3.39	1975	70.69	371	13.28	386	*	*	*	*	*
Urban .....	1157	8.60	475	41.05	229	19.79	359	31.03	87	7.52	*	*
<b>Extension Program</b>												
Rural .....	91288	13.58	60014	65.74	17590	19.27	12883	14.11	801	0.88	*	*
Meher .....	80935	12.05	53248	65.79	15705	19.40	11295	13.96	688	0.85	*	*
Belg.....	15579	18.90	9969	63.99	2888	18.54	2508	16.10	215	1.38	*	*

SUMMARY TABLE VI.9: Holders Applying Agricultural Inputs and Practices in Rural and Urban Areas and Zones, for Private Holdings

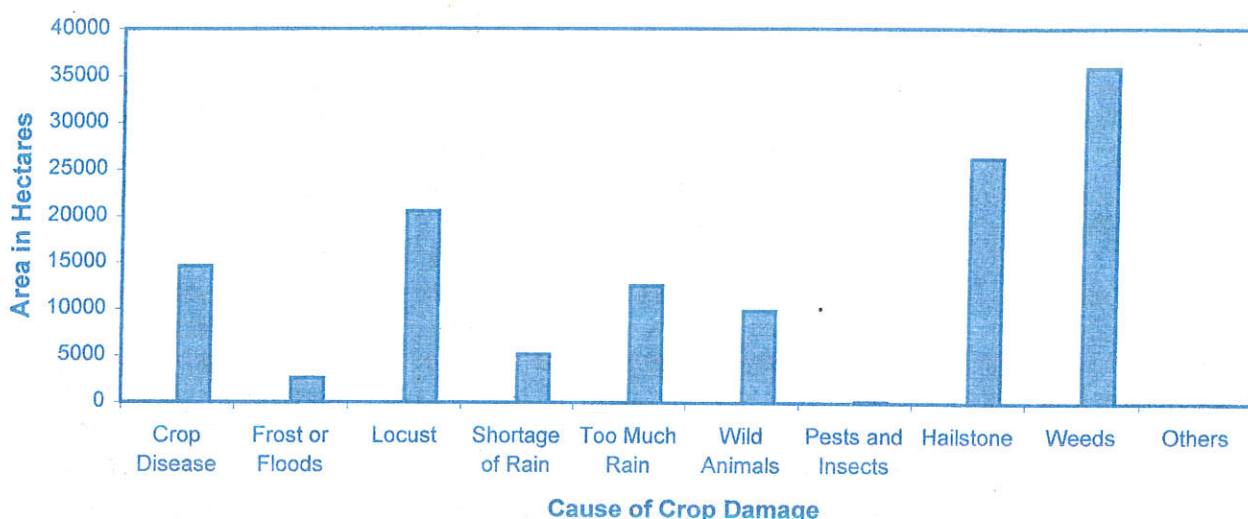
Data Items	Number of Holders							
	Total	Percent	Rural Meher	Rural Belg	Rural	Percent	Urban Meher	Percent
<b>Tigray Killil</b>								
Irrigation.....	106602	100.00	63431	64609	105055	100.00	1548	100.00
Improved seeds.....	41595	100.00	35659	6318	40206	100.00	1388	100.00
Pesticides.....	37313	100.00	33515	2794	36156	100.00	1157	100.00
Fertilizer.....	517709	100.00	506110	36530	511758	100.00	5951	100.00
<b>West Tigray Zone</b>								
Irrigation.....	7842	7.36	4766	4100	7733	7.36	109	7.04
Improved seeds.....	5127	12.33	4188	1129	4911	12.21	216	15.56
Pesticides.....	3593	9.63	3086	440	3492	9.66	101	8.73
Fertilizer.....	125595	24.26	124367	2273	124491	24.33	1104	18.55
<b>Central Tigray Zone</b>								
Irrigation.....	30004	28.15	18033	16664	29462	28.04	542	35.01
Improved seeds.....	12864	30.93	10485	2206	12421	30.89	442	31.84
Pesticides.....	20481	54.89	18587	1273	19824	54.83	658	56.87
Fertilizer.....	188871	36.48	185132	10789	185726	36.29	3144	52.83
<b>East Tigray Zone</b>								
Irrigation.....	12879	12.08	6213	9048	12828	12.21	52	3.36
Improved seeds.....	12162	29.24	11588	514	11967	29.76	195	14.05
Pesticides.....	6555	17.57	6176	307	6443	17.82	112	9.68
Fertilizer.....	101251	19.56	99727	9094	100750	19.69	501	8.42
<b>South Tigray Zone</b>								
Irrigation.....	55814	52.36	34418	34796	55032	52.38	782	50.52
Improved seeds.....	11409	27.43	9398	2469	10906	27.13	502	36.17
Pesticides.....	6678	17.90	5666	774	6397	17.69	281	24.29
Fertilizer.....	101922	19.69	96884	14374	100790	19.69	1131	19.01
<b>Mekele Zone</b>								
Irrigation.....	63	0.06	-	-	-	-	63	4.07
Improved seeds.....	33	0.08	-	-	-	-	33	2.38
Pesticides.....	*	*	-	-	-	-	*	*
Fertilizer.....	70	0.01	-	-	-	-	70	1.18

## 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 Tigray Region. Damaged cropland area includes any cropland planted or sown with intention to harvest crops, but failed to produce crop partly or fully due to various reasons. Out of the total cultivated cropland area, 22.8% in Meher and 27.5% in Belg seasons were affected by crop damage. The cropland area damage that accounted for 55.7% 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 25.9% 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 4.7% of the total cropland area damage. With regard to the causes of crop damage, it is reported that 16% was damaged due to locusts, 11.5% was caused by crop disease, 20.6% was due to hailstone, 10% was due to too much rain, 7.7% was due to wild animals, 28.1% was due to weeds and the remaining 6.1% was reported due to all other causes of crop damage (For details see Summary Table VI.10 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.11. Following are discussions of the major findings with respect to these data.

### 7.1 Sources of Water for Irrigation Schemes

In a country like Ethiopia, where the amount, timing and distribution of rainfall is irregular, use of irrigation would significantly improve and raise the level of production. However,

**SUMMARY TABLE VI.10: Causes of Damage of Cropland Area by Size of Holdings and Seasons in Rural Areas, for Private Holdings**

Cause of Damage	Size of Holding (Hectares)							
	Total	Under 0.1	0.1 – 0.5	0.51 – 1.0	1.01 – 2.0	2.01 – 5.00	5.01 – 10.0	Over 10
	Both Seasons							
Total .....	127651	500	17125	33036	43020	28016	3882	2072
Percent.,	100.00	0.39	13.42	25.88	33.70	21.95	3.04	1.62
Crop Disease.....	14617	52	1716	3836	5095	3098	676	*
Percent.,	11.45	0.36	11.74	26.24	34.86	21.19	4.62	*
Frost or Floods.....	2581	33	670	750	712	366	*	-
Percent.,	2.02	1.28	25.0.96	29.06	27.59	14.18	*	-
Locust.....	20575	93	2223	4625	6868	5896	713	*
Percent.,	16.12	0.45	10.80	22.48	33.38	28.66	3.47	*
Shortage of Rain.....	5203	28	749	1640	1778	971	*	*
Percent.,	4.08	0.54	14.40	31.52	34.17	18.66	*	*
Too Much Rain.....	12579	64	1797	3623	4715	2128	188	*
Percent.,	9.85	0.51	14.29	28.80	37.48	16.92	1.49	*
Wild Animals .....	9880	50	1464	2643	3832	1272	*	*
Percent.,	7.74	0.51	14.82	26.75	38.79	12.87	*	*
Birds .....	*	*	*	-	*	-	-	-
Percent.,	*	*	*	-	*	-	-	-
Hailstone.....	26245	59	3961	7738	8391	5643	317	*
Percent.,	20.56	0.22	15.09	29.48	31.97	21.50	1.21	*
Pests and Insects.....	128	*	10	31	*	*	-	-
Percent.,	0.10	*	7.81	24.22	*	*	-	-
Weeds.....	35824	119	4532	8142	11550	8626	1558	*
Percent.,	28.06	0.33	12.65	22.73	32.24	24.08	4.35	
Others.....	19	2	2	8	3	*	*	-
Percent.,	0.01	10.53	10.53	42.11	15.79	*	*	-
	<b>Meher Season</b>							
Total	124063	282	15246	32148	42492	27941	3882	2072
Crop Disease.....	14533	37	1668	3833	5076	3098	676	*
Frost or Floods.....	2511	17	623	745	711	366	*	-
Locust.....	19821	45	1937	4440	6682	5848	713	*
Shortage of Rain.....	5184	22	738	1639	1778	970	*	*
Too Much Rain.....	12473	32	1734	3614	4715	2126	188	*
Wild Animals .....	9776	26	1391	2641	3828	1272	*	*
Birds .....	*	-	-	-	*	-	-	-
Hailstone.....	26188	53	3932	7716	8391	5643	317	*
Pests and Insects.....	128	*	10	31	*	*	-	-
Weeds.....	33436	49	3213	7484	11233	8603	1558	*
Others.....	13	*	*	5	3	*	*	-
	<b>Belg Season</b>							
Total	3588	218	1879	889	528	*	-	-
Crop Disease.....	84	15	48	*	*	-	-	-
Frost or Floods.....	70	16	47	*	*	-	-	-
Locust.....	754	48	286	*	*	*	-	-
Shortage of Rain.....	19	6	11	*	-	*	-	-
Too Much Rain.....	105	32	63	*	-	*	-	-
Wild Animals .....	104	24	73	*	*	-	-	-
Birds .....	*	*	*	-	*	-	-	-
Hailstone.....	57	*	30	*	-	-	-	-
Pests and Insects.....	-	-	-	-	-	-	-	-
Weeds.....	2388	70	1319	658	317	*	-	-
Others.....	*	1	1	*	-	-	-	-

irrigation is not extensive in Tigray Region. As presented earlier, maize, sorghum and Teff 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 11.5% reported to have used irrigation practices. Among these holders who practice different sources of water, 74.8, 8.9 and 10 percent of the holders have used rivers, lakes and other sources of water, respectively. Utilization of pond water for irrigation was only 6.3% in the region. It should be noted that total number of holders, and the number of holders who practice irrigation schemes and the number of holders reporting the sources of water for irrigation were collected in different period of time during the 2001/02 agricultural activities. In an enumeration area a total of 30 households were systematically sampled that mainly resulted 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, the data on the holders reporting the sources of water for irrigation was collected only in March. Hence, some discrepancy is observed in the total numbers of holders and the number of holders who have reported the use of irrigation practices presented in Summary Table VI.8 and VI.11.

During the 2001/02 EASE, an attempt has also been made to assess 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 VI.12. The data in the table shows that only 11.5 percent of the total holders reported as practicing irrigation during the Meher season and of these holders the sources of water for irrigation were 72.3 and 15.6 percent from rivers and tap water, respectively. However, holders that use lake and well are very few in the urban areas of the region. In the same summary table, it was observed that, out of the total holders, only 1.2 thousand (8.8 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 soil fertility, that is whether they use crop rotation or burning of soil. Hence, the data

showed that of the total holders about 92.7% have reported practicing crop rotation, while 6.3% reported practicing burning of soil as their main method for improving soil fertility.

### **7.3 Application of Chemical Fertilizers and Reasons for not Applying Fertilizers**

In section 3, it was indicated that about 76% of the holders have applied both natural and chemical fertilizers. However, it was less than 48% of the total holders that applied chemical fertilizers. In order to gauge the attitude of holders who did not use chemical fertilizers, sampled households were asked the reasons for not using chemical fertilizers. The data in Summary Table VI.11, indicates the reasons given by the holders who did not use chemical fertilizers. A total of about 24.7 thousand holders did not use chemical fertilizers due to shortage of money, about 4 thousand holders due to lack of knowledge about the advantage, about 2 thousand holders due to insufficient supply of fertilizers in their area, about 3.8 thousand holders due to the high cost of fertilizer, 3.2 thousand holders reported suspecting the efficiency of the fertilizers, and about 12.5 thousand holders mentioned "other reasons" for not using chemical fertilizers.

### **7.4 Method of Ploughing**

One aspect to increase agricultural production is through mechanization. The replacement of hand digging and ox/horse driven ploughing method by tractor is of paramount importance for increasing the volume of agricultural production. In light of this, an attempt has been made to collect some basic information on method of ploughing by the holders at the time of the census enumeration. Thus, the majority of the holders (74.4%) reported to have used ox/horse driven ploughing method and 23.1% of the holders reported to have used both hand dug and ox/horse driven methods. On the other hand, 0.1% and 0.5% of the holders have used tractor and ox/horse driven, and tractor-only methods for ploughing, respectively. This ascertained the fact that the use of a tractor for ploughing among the holders in the rural areas of the region is not common.

### **7.5 Methods Used for Soil Conservation**

According to the data in Summary Table VI.11, the majority of the holders reported using different methods of soil conservation. Of which, 45.5, 21.3 and 29.5 percent of holders

have practiced terracing, water catchments and ploughing along the contour, respectively. On the other hand; about 0.2% of the total holders reported using afforestation method.

## **7.6 Extension Package Programs and Use of Agricultural Credit and Advisory Services**

*Extension package programs* are outreach programs operating in rural areas for private holdings aiming to transfer modern agricultural technologies to increase crop and livestock productivity. The programs are usually undertaken by follow-up and advisory services by the agricultural development agents.

*A holder* is said to be a participant of this program if and only if he/she obtains agricultural advices and apply the recommended inputs and related services such as close follow up by the development agents, supervision from wereda and Zonal Agricultural Bureaus...etc. on a regular basis.

The prevalence of different types of extension packages was assessed during the enumeration. These include, rain shortage area packages, rain abundant area packages, post harvest technology packages, ...etc. Thus, the data showed that about 5.8% and 4.3% of the agricultural holders were covered by rain shortage area and rain abundant area extension packages, respectively. The total agricultural holders covered by all other types of extension packages listed in the table are insignificant. In response to why they have not been covered by these extension packages since the program started, holders reported the reasons as follows: 29.4% of the holders reported shortage of money, 11.1% reported no knowledge about the advantage, 24.7% reported program not available, 5 to 6% each were suspicious of its efficiency and insufficient arable land, and 7.7% reported other reasons.

In the country, there are institutions that provide credit and assist peasants by furnishing short and intermediate term loans for the purchase of chemical fertilizers, improved variety seeds and pesticides. These institutions not only give great emphasis to making loans to peasants but also aiding them with advice on farming practices. Then, data are collected by interviewing sampled holders on use of credit and advisory services and are presented in Summary Table VI.11. Thus, the data in this table shows that about 33.9 percent of holders

used agricultural credit services and about 45.3 percent of the holders have obtained advice on agricultural practices.

## **7.7 SOURCES AND COST OF CHEMICAL FERTILIZERS.**

As illustrated in Summary Table VI.13, it is estimated that a total of 316.9 thousand holders (47.2%) reported "Government" as their major sources of chemical fertilizers, while about 33.4 thousand holders (5%) mentioned private organization as their major sources of chemical fertilizers. Regardless of the source, the average cost was 282 Birr/Quintal for DAP and 217 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 (ADAs) 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.

### **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.14. Accordingly, about 36.9, 33.9, 28.9 and 28.8 thousand holders considered Teff, wheat, barley and maize in crop specific extension package program. Moreover, about 8.7 thousand holders took sorghum, 6 thousand holders onions and 4.4 thousand holders considered potatoes in crop specific extension packages. As can be observed from the data in the table, most of this extension package programs were mainly practiced in Meher season by about 80.9 thousand holders and the participation of holders in these programs were about 15.6 thousand holders in Belg season (For details, see Summary Table VI.14).

### **8.2 Area Under Crop Specific Extension Package Programs**

In the 2001/02 EASE, data on cropland area under extension package programs was collected. Thus, Summary Table VI.14 shows that a total of 28.7 thousand hectares (5% of the total cropland area) was under extension package programs. Out of the total cropland

area under extension package programs, 34.5% was observed under Teff, 19.6% under wheat, 18% under maize and 8.6% under sorghum. Moreover, the census data revealed that slightly greater than one percent for chickpeas and onions were also under extension package programs in the region.

SUMMARY TABLE VI.11: Number of Holders by Type of Farm Management Practices in Rural Areas, for Private Holdings

Farm Practices	Number of Holders Reporting	Percentage
<b>Total Crop Holders</b> .....	671821	100
<b>Source of Water for Irrigation</b>		
Holders who Practice Irrigation.....	77531	11.54
River .....	58021	74.84
Lake .....	6905	8.91
Pond.....	4907	6.33
Other .....	7698	9.93
<b>Method to Improve Soil Fertility</b>		
Crop Rotation .....	622573	92.67
Burning of Soil .....	42267	6.29
<b>Reason for Not Using Chemical Fertilizer</b>		
Do Not Know Advantages.....	4009	
Too Expensive .....	3808	
Shortage of Money.....	24658	
Insufficient Supply.....	2004	
No Credit Service.....	265	
Suspicious of Efficacy .....	3189	
Other .....	12502	
<b>Method of Ploughing</b>		
Hand Dug.....	10011	1.49
Ox/Horse Driven.....	499706	74.38
Tractor .....	3378	0.5
Hand Dug and Ox/Horse Driven.....	155237	23.11
Tractor and Ox/Horse Driven .....	696	0.1
<b>Method of Soil Conservation</b>		
Terracing.....	305328	45.45
Water Catchments.....	143318	21.33
Afforestation .....	1068	0.16
Plowing Along the Contour .....	198155	29.5
Others.....	2694	0.4
<b>All Holders</b> .....	713171	100
<b>Participation in Extension Package by Type</b>		
Rain Shortage Areas Package .....	41577	5.83
Rain Abundant Areas Package.....	30404	4.26
Post Harvest Technology Package .....	2065	0.29
Livestock Development Package .....	703	0.1
Economically Important Crops Package .....	14007	1.96
Any Two or More Packages.....	6479	0.91
<b>Reason For Not Participating in Extension Packages</b>		
Do Not Know the Advantages .....	78865	11.06
Shortage of Money.....	209925	29.44
Suspicious of Efficacy .....	36952	5.18
Programs Not Available.....	176096	24.69
Insufficient Arable Land.....	45703	6.41
Others.....	55187	7.74
<b>Use of Credit or Advisory Services</b>		
Credit Services.....	241758	33.9
Advisory Services.....	323267	45.33

Summary Table VI.12 Holders who Practice Irrigation by Sources of Water in Meher Season and Holders who Practice Belg From 1999/2000 to 2001/02 in Urban Areas

Sources of Water	Number of Holders	Percent
<b>Those who Practice Irrigation in Meher Season (2001/02)</b>		
<b>Crop Holders.....</b>	<b>13455</b>	<b>100.00</b>
<b>Holders who Practice Irrigation.....</b>	<b>1548</b>	<b>11.51</b>
<b>Sources</b>		
River.....	1119	72.29
Lake.....	52	3.36
Well.....	56	3.62
Tap Water.....	241	15.57
Others.....	45	2.91
Not Stated.....	69	4.46
<b>Those who Practice Belg from 1999/2000 to 2001/02</b>		
<b>Crop Holders.....</b>	<b>13455</b>	<b>100.00</b>
<b>Holders who Practice Belg.....</b>	<b>1187</b>	<b>8.82</b>
Male.....	932	78.52
Female.....	255	21.48

Summary Table VI.13: Holders by Sources of Chemical Fertilizers and Cost of Chemical Fertilizers in Rural Areas for Private Holdings.

Sources and Type of Fertilizers	Number of Holders	Percent
<b>Crop Holders.....</b>	<b>671821</b>	<b>100.00</b>
<b>Sources</b>		
Government.....	316920	47.17
Private Organization.....	33385	4.97
Traders.....	2671	0.40
Others.....	9160	1.36
Do not Buy.....	303406	45.16
Not Reported.....	6278	0.93
<b>Type of Fertilizers</b>	<b>Cost in Birr/Quintal</b>	
DAP.....	282	
UREA.....	271	

Summary Table VI.14: Number of Holders Participating Crop Specific Extension Package Program and Area under Crop Specific Extension Package Program By Season in Rural Areas, for Private Holdings.

Ext. Package by Crop	Rural				Meher		Belg	
	Holder	%	Area	%	Holder	Area	Holder	Area
Total .....	91288	100.00	28672	100.00	80935	26527	15579	2145
Teff .....	36920	40.44	9882	34.47	36881	9877	*	*
Barley .....	28887	31.64	4018	14.01	27996	3936	1034	82
Wheat .....	33919	37.16	5619	19.60	33860	5604	166	15
Maize.....	28831	31.58	5177	18.06	20524	3864	8605	1313
Sorghum .....	8657	9.48	2473	8.63	8579	2460	*	*
Rice .....	*	*	*	*	-	-	*	*
Field peas.....	2138	2.34	172	0.60	2094	160	*	*
Haricot beans....	206	0.23	*	*	206	*	-	-
Chick peas.....	1924	2.11	295	1.03	1054	142	*	*
Lentils.....	937	1.03	100	0.35	905	99	*	*
Nueg .....	651	0.71	37	0.13	651	37	-	-
Linseed .....	848	0.93	64	0.22	818	64	*	*
Ground nuts.....	-	-	-	-	-	-	-	-
Sesame.....	102	0.11	*	*	102	*	-	-
Rapeseed.....	*	*	*	*	*	*	-	-
Other Grains.....	*	*	*	*	*	*	*	*
Tomatoes .....	2470	2.71	76	0.27	671	15	1973	62
Red Papper.....	2407	2.64	*	*	949	*	1458	*
Onion .....	6025	6.60	305	1.06	911	*	5205	273
Potatoes .....	4434	4.86	169	0.59	1381	41	3277	128
Sweet potatoes...	*	*	*	*	*	*	-	-
Enset	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	-	-	-

STATISTICAL TABLES PRESENTING  
RESULTS AT  
ZONE AND WEREDA LEVELS

**Tables 6.1-6.57**



TABLE 6.1: AREA OF CROPLAND UNDER IMPROVED FARM MANAGEMENT PRACTICES BY TYPE OF CROPS IN RURAL AREAS, FOR PRIVATE HOLDINGS

TYPE OF CROP	Total Crop		Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%	
TOTAL .....	557418	6794	1.22	18423	3.31	245896	44.11	8383	1.5	
Grain Crops .....	547444	6403	1.17	15384	2.81	241829	44.17	8250	1.51	
Cereals .....	472275	6169	1.31	13387	2.83	230986	48.91	7648	1.62	
Teff .....	127087	1000	0.79	2485	1.96	64643	50.87	3025	2.38	
Barley .....	55202	706	1.28	1054	1.91	27548	49.9	1535	2.78	
Wheat .....	63846	3023	4.73	1344	2.11	31105	48.72	1874	2.94	
Maize .....	56939	718	1.26	5430	9.54	41957	73.69	578	1.02	
Sorghum .....	114099	482	0.42	2947	2.58	37113	32.53	227	0.2	
Finger millet .....	54693	240	0.44	118	0.22	28568	52.23	392	0.72	
Oats ('Aja') .....	406	-	-	*	*	52	12.81	*	*	
Rice .....	*	-	-	*	*	*	*	-	-	
Pulses .....	44201	179	0.4	1959	4.43	8529	19.3	583	1.32	
Horse beans .....	14991	89	0.59	225	1.5	4601	30.69	168	1.12	
Field peas .....	3725	7	0.19	98	2.63	761	20.43	31	0.83	
Haricot beans .....	2294	23	1	*	*	268	11.68	292	12.73	
Chick peas .....	12095	36	0.3	1278	10.57	1719	14.21	57	0.47	
Lentils .....	4651	12	0.26	180	3.87	423	9.09	*	*	
Vetch .....	5904	*	*	122	2.07	637	10.79	26	0.44	
Soya .....	51	*	*	-	-	*	*	-	-	
Fenugreek .....	490	*	*	54	11.02	104	21.22	*	*	
Gibto .....	*	-	-	*	*	-	-	-	-	
Oil Seeds .....	30647	52	0.17	6	0.02	2242	7.32	19	0.06	
Neug .....	5135	10	0.19	*	*	567	11.04	*	*	
Linseed .....	4332	8	0.18	*	*	378	8.73	5	0.12	
Ground nuts .....	*	-	-	-	-	*	*	-	-	
Sufflower .....	45	*	*	-	-	19	42.22	-	-	
Sesame .....	21094	*	*	-	-	1260	5.97	*	*	
Rapeseed .....	31	*	*	-	-	15	48.39	-	-	
Other Grains .....	321	*	*	*	*	72	22.43	-	-	
Vegetables .....	2055	115	5.6	794	38.64	1438	69.98	44	2.14	
Lettuce .....	35	13	37.14	32	91.43	21	60	1	2.86	
Head cabbage .....	76	14	18.42	75	98.68	43	56.58	5	6.58	
Kale .....	17	*	*	7	41.18	11	64.71	-	-	
Tomatoes .....	315	35	11.11	266	84.44	209	66.35	11	3.49	
Green peppers .....	277	*	*	122	44.04	179	64.62	6	2.17	
Red peppers .....	859	5	0.58	256	29.8	538	62.63	*	*	
Swiss chard .....	42	15	35.71	36	85.71	26	61.9	*	*	
Others .....	*	*	*	*	*	*	*	*	*	
Root Crops .....	1945	180	9.25	1384	71.16	1181	60.72	56	2.88	
Beet root .....	13	*	*	12	92.31	*	*	-	-	
Carrot .....	59	22	37.29	53	89.83	31	52.54	*	*	
Onions .....	1026	114	11.11	901	87.82	640	62.38	39	3.8	
Potatoes .....	560	37	6.61	325	58.04	382	68.21	*	*	
Garlic .....	197	*	*	83	42.13	92	46.7	*	*	
Taro ('Godere') .....	-	-	-	-	-	-	-	-	-	
Sweet potatoes .....	2	*	*	*	*	*	*	-	-	
Others .....	87	-	-	*	*	31	35.63	*	*	
Permanent Crops .....	5974	97	1.62	861	14.41	1448	24.24	34	0.57	
Fruit Crops .....	4293	87	2.03	261	6.08	834	19.43	*	*	
Avocado .....	*	*	*	*	*	*	*	*	*	
Bananas .....	*	*	*	76	*	*	*	*	*	
Guava (Zeytuna) .....	85	*	*	79	92.94	15	17.65	*	*	
Lemons .....	47	*	*	18	38.3	23	48.94	*	*	
Mangoes .....	3	*	*	*	*	1	33.33	*	*	
Oranges .....	32	6	18.75	25	78.13	10	31.25	*	*	
Papayas .....	39	8	20.51	19	48.72	*	*	*	*	
Pineapples .....	*	-	-	-	-	-	-	-	-	
Others .....	3990	11	0.28	39	0.98	719	18.02	*	*	
Stimulant Crops .....	1628	*	*	596	36.61	584	35.87	12	0.74	
Chat .....	197	*	*	*	*	*	*	*	*	
Coffee .....	133	*	*	113	84.96	23	17.29	*	*	
Hops .....	1298	-	-	376	28.97	523	40.29	4	0.31	
Others .....	-	-	-	-	-	-	-	-	-	
Other Permanent Crops .....	53	*	*	*	*	30	56.6	*	*	
Enset .....	*	-	-	*	*	*	*	-	-	
Sugar Cane .....	*	-	-	*	*	*	*	-	-	

TABLE 6.1.1: RURAL MEHER

TYPE OF CROP	Total Crop		Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%	
TOTAL .....	544351	6295	1.16	10633	1.95	241649	44.39	8224	1.51	
Grain Crops.....	536165	6111	1.14	9318	1.74	238752	44.53	8175	1.52	
Cereals.....	462526	5895	1.27	8449	1.83	228134	49.32	7580	1.64	
Teff.....	124699	1000	0.8	2410	1.93	64494	51.72	3013	2.42	
Barley.....	53238	698	1.31	683	1.28	27128	50.96	1523	2.86	
Wheat.....	63216	3019	4.78	1224	1.94	31041	49.1	1874	2.96	
Maize.....	52218	456	0.87	1072	2.05	39750	76.12	534	1.02	
Sorghum.....	114059	482	0.42	2940	2.58	37102	32.53	227	0.2	
Finger millet.....	54693	240	0.44	118	0.22	28567	52.23	392	0.72	
Oats ('Aja').....	404	-	-	*	*	52	12.87	*	*	
Rice.....	-	-	-	-	-	-	-	-	-	
Pulses.....	42715	162	0.38	860	2.01	8333	19.51	576	1.35	
Horse beans.....	14988	89	0.59	223	1.49	4599	30.68	168	1.12	
Field peas.....	3398	7	0.21	80	2.35	736	21.66	31	0.91	
Haricot beans.....	2293	23	1	*	*	268	11.69	292	12.73	
Chick peas.....	11159	20	0.18	387	3.47	1578	14.14	51	0.46	
Lentils.....	4587	12	0.26	125	2.73	419	9.13	*	*	
Vetch.....	5795	*	*	*	*	632	10.91	26	0.45	
Soya.....	51	*	*	-	-	*	*	-	-	
Fenugreek.....	444	*	*	9	2.03	86	19.37	*	*	
Gibto.....	-	-	-	-	-	-	-	-	-	
Oil Seeds.....	30634	52	0.17	6	0.02	2240	7.31	19	0.06	
Neug.....	5135	10	0.19	*	*	567	11.04	*	*	
Linseed.....	4318	8	0.19	*	*	376	8.71	5	0.12	
Ground nuts.....	*	-	-	-	-	*	*	-	-	
Sufflower.....	45	*	*	-	-	19	42.22	-	-	
Sesame.....	21094	*	*	-	-	1260	5.97	*	*	
Rapeseed.....	31	*	*	-	-	15	48.39	-	-	
Other Grains.....	291	*	*	3	1.03	45	15.46	-	-	
Vegetables.....	1393	34	2.44	156	11.2	1041	74.73	*	*	
Lettuce.....	9	*	*	7	77.78	5	55.56	-	-	
Head cabbage.....	15	*	*	13	86.67	7	46.67	-	-	
Kale.....	13	*	*	*	*	*	*	-	-	
Tomatoes.....	76	10	13.16	34	44.74	49	64.47	*	*	
Green peppers.....	186	*	*	33	17.74	118	63.44	*	*	
Red peppers.....	654	1	0.15	60	9.17	437	66.82	*	*	
Swiss chard.....	10	*	*	6	60	5	50	*	*	
Others.....	*	*	*	*	*	*	*	*	*	
Root Crops.....	820	53	6.46	298	36.34	409	49.88	7	0.85	
Beet root.....	*	*	*	*	*	*	*	-	-	
Carrot.....	38	*	*	34	89.47	19	50	*	*	
Onions.....	266	*	*	151	56.77	124	46.62	*	*	
Potatoes.....	264	12	4.55	51	19.32	164	62.12	*	*	
Garlic.....	161	*	*	47	29.19	70	43.48	*	*	
Taro ('Godere').....	-	-	-	-	-	-	-	-	-	
Sweet potatoes.....	2	*	*	*	*	*	*	-	-	
Others.....	83	-	-	*	*	30	36.14	*	*	
Permanent Crops.....	5974	97	1.62	861	14.41	1448	24.24	34	0.57	
Fruit Crops.....	4293	87	2.03	261	6.08	834	19.43	*	*	
Avocado.....	*	*	*	*	*	*	*	*	*	
Bananas.....	*	*	*	76	*	*	*	*	*	
Guava (Zeytuna).....	85	*	*	79	92.94	15	17.65	*	*	
Lemons.....	47	*	*	18	38.3	23	48.94	*	*	
Mangoes.....	3	*	*	*	*	1	33.33	*	*	
Oranges.....	32	6	18.75	25	78.13	10	31.25	*	*	
Papayas.....	39	8	20.51	19	48.72	*	*	*	*	
Pineapples.....	*	-	-	-	-	-	-	-	-	
Others.....	3990	11	0.28	39	0.98	719	18.02	*	*	
Stimulant Crops.....	1628	*	*	596	36.61	584	35.87	12	0.74	
Chat.....	197	*	*	*	*	*	*	*	*	
Coffee.....	133	*	*	113	84.96	23	17.29	*	*	
Hops.....	1298	-	-	376	28.97	523	40.29	4	0.31	
Others.....	-	-	-	-	-	-	-	-	-	
Other Permanent Crops.....	53	*	*	*	*	30	56.6	*	*	
Enset.....	*	-	-	*	*	*	*	-	-	
Sugar Cane.....	*	-	-	*	*	*	*	-	-	
Others.....	50	*	*	*	*	29	58	*	*	

TABLE 6.1.2: RURAL BELG

TYPE OF CROP	Total Crop		Improved Seed		Irrigation		Fertilizer		Pesticide	
	Hectares	Hectares	%	Hectares	%	Hectares	%	Hectares	%	
TOTAL .....	13067	499	3.82	7790	59.62	4247	32.5	160	1.22	
Grain Crops.....	11279	291	2.58	6066	53.78	3077	27.28	74	0.66	
Cereals.....	9749	273	2.8	4938	50.65	2852	29.25	68	0.7	
Teff.....	2388	*	*	76	3.18	148	6.2	*	*	
Barley.....	1964	*	*	371	18.89	420	21.38	*	*	
Wheat.....	630	*	*	121	19.21	64	10.16	-	-	
Maize.....	4721	262	5.55	4358	92.31	2208	46.77	44	0.93	
Sorghum.....	*	-	-	*	*	*	*	-	-	
Finger millet.....	*	-	-	*	*	*	*	-	-	
Oats ('Aja').....	*	-	-	*	*	-	-	-	-	
Rice.....	*	-	-	*	*	*	*	-	-	
Pulses.....	1487	*	*	1099	73.91	196	13.18	*	*	
Horse beans.....	*	-	-	*	*	*	*	-	-	
Field peas.....	327	-	-	*	*	26	7.95	-	-	
Haricot beans.....	*	-	-	*	*	-	-	-	-	
Chick peas.....	937	*	*	890	94.98	141	15.05	*	*	
Lentils.....	64	-	-	56	87.5	*	*	-	-	
Vetch.....	109	-	-	87	79.82	*	*	-	-	
Soya.....	-	-	-	-	-	-	-	-	-	
Fenugreek.....	46	*	*	45	97.83	19	41.3	-	-	
Gibto.....	*	-	-	*	*	-	-	-	-	
Oil Seeds.....	14	-	-	-	-	*	*	-	-	
Neug.....	-	-	-	-	-	-	-	-	-	
Linseed.....	14	-	-	-	-	*	*	-	-	
Ground nuts.....	-	-	-	-	-	-	-	-	-	
Sufflower.....	-	-	-	-	-	-	-	-	-	
Sesame.....	-	-	-	-	-	-	-	-	-	
Rapeseed.....	-	-	-	-	-	-	-	-	-	
Other Grains.....	*	*	*	*	*	*	*	-	-	
Vegetables.....	663	81	12.22	638	96.23	397	59.88	36	5.43	
Lettuce.....	26	7	26.92	25	96.15	15	57.69	1	3.85	
Head cabbage....	61	10	16.39	61	100.00	36	59.02	5	8.2	
Kale.....	4	*	*	4	100.00	3	75	-	-	
Tomatoes.....	239	25	10.46	232	97.07	160	66.95	9	3.77	
Green peppers...	91	*	*	89	97.8	61	67.03	*	*	
Red peppers.....	205	*	*	196	95.61	*	*	*	*	
Swiss chard.....	32	11	34.38	30	93.75	21	65.63	*	*	
Others.....	*	*	*	*	*	*	*	-	-	
Root Crops.....	1125	127	11.29	1086	96.53	773	68.71	49	4.36	
Beet root.....	7	*	*	6	85.71	*	*	-	-	
Carrot.....	21	7	33.33	20	95.24	12	57.14	*	*	
Onions.....	760	91	11.97	750	98.68	516	67.89	38	5	
Potatoes.....	296	25	8.45	274	92.57	218	73.65	*	*	
Garlic.....	36	*	*	35	97.22	22	61.11	*	*	
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 .....	11343	470	4.14	627	5.53	3692	32.55	682	6.01	
Grain Crops .....	10974	428	3.9	387	3.53	3583	32.65	648	5.9	
Cereals .....	9142	399	4.36	375	4.1	3429	37.51	617	6.75	
Teff .....	2458	127	5.17	81	3.3	1365	55.53	331	13.47	
Barley .....	917	25	2.73	10	1.09	366	39.91	59	6.43	
Wheat .....	796	159	19.97	19	2.39	423	53.14	83	10.43	
Maize .....	1098	34	3.1	97	8.83	369	33.61	13	1.18	
Sorghum .....	3132	35	1.12	166	5.3	566	18.07	87	2.78	
Finger millet .....	734	19	2.59	2	0.27	340	46.32	44	5.99	
Oats ('Aja') .....	7	-	-	-	-	-	-	1	14.29	
Rice .....	-	-	-	-	-	-	-	-	-	
Pulses .....	729	7	0.96	11	1.51	133	18.24	16	2.19	
Horse beans .....	220	1	0.45	2	0.91	83	37.73	9	4.09	
Field peas .....	76	4	5.26	*	*	10	13.16	1	1.32	
Haricot beans .....	17	*	*	*	*	*	*	*	*	
Chick peas .....	132	*	*	8	6.06	18	13.64	2	1.52	
Lentils .....	*	*	*	*	*	6	*	*	*	
Vetch .....	115	2	1.74	-	-	9	7.83	2	1.74	
Soya .....	-	-	-	-	-	-	-	-	-	
Fenugreek .....	26	-	-	-	-	6	23.08	*	*	
Gibto .....	-	-	-	-	-	-	-	-	-	
Oil Seeds .....	1093	*	*	*	*	14	1.28	14	1.28	
Neug .....	41	*	*	*	*	*	*	*	*	
Linseed .....	*	*	*	*	*	6	*	*	*	
Ground nuts .....	*	-	-	-	-	*	*	-	-	
Sufflower .....	-	-	-	-	-	-	-	-	-	
Sesame .....	936	*	*	*	*	5	0.53	13	1.39	
Rapeseed .....	-	-	-	-	-	-	-	-	-	
Other Grains .....	11	-	-	1	9.09	*	*	*	*	
Vegetables .....	39	*	*	25	64.1	30	76.92	2	5.13	
Lettuce .....	3	*	*	3	100.00	*	*	1	33.33	
Head cabbage .....	*	-	-	*	*	*	*	-	-	
Kale .....	*	-	-	*	*	*	*	-	-	
Tomatoes .....	*	-	-	*	*	*	*	-	-	
Green peppers .....	1	*	*	1	100.00	*	*	-	-	
Red peppers .....	*	-	-	3	*	*	*	-	-	
Swiss chard .....	7	*	*	7	100.00	*	*	1	14.29	
Others .....	*	-	-	-	-	-	-	-	-	
Root Crops .....	37	4	10.81	22	59.46	*	*	3	8.11	
Beet root .....	1	*	*	1	100.00	*	*	-	-	
Carrot .....	*	-	-	*	*	*	*	-	-	
Onions .....	12	4	33.33	12	100.00	11	91.67	3	25	
Potatoes .....	*	-	-	*	*	*	*	-	-	
Garlic .....	*	-	-	*	*	*	*	-	-	
Taro ('Godere') .....	-	-	-	-	-	-	-	-	-	
Sweet potatoes .....	-	-	-	-	-	-	-	-	-	
Others .....	*	-	-	-	-	*	*	-	-	
Permanent Crops .....	294	31	10.54	194	65.99	57	19.39	29	9.86	
Fruit Crops .....	106	17	16.04	96	90.57	27	25.47	*	*	
Avocado .....	*	-	-	*	*	*	*	-	-	
Bananas .....	12	1	8.33	11	91.67	*	*	-	-	
Guava (Zeytuna) ..	46	*	*	45	97.83	*	*	*	*	
Lemons .....	8	2	25	7	87.5	1	12.5	*	*	
Mangoes .....	3	*	*	2	66.67	2	66.67	-	-	
Oranges .....	16	4	25	15	93.75	9	56.25	*	*	
Papayas .....	15	3	20	10	66.67	9	60	*	*	
Pineapples .....	*	*	*	*	*	*	*	-	-	
Others .....	6	*	*	5	83.33	*	*	*	*	
Stimulant Crops .....	187	13	6.95	98	52.41	30	16.04	*	*	
Chat .....	34	-	-	*	*	*	*	*	*	
Coffee .....	52	6	11.54	39	75	12	23.08	3	5.77	
Hops .....	101	8	7.92	38	37.62	13	12.87	*	*	
Others .....	-	-	-	-	-	-	-	-	-	
Other Permanent Crops ..	*	-	-	*	*	-	-	-	-	
Enset .....	-	-	-	-	-	-	-	-	-	
Sugar Cane .....	*	-	-	*	*	-	-	-	-	
Others .....	-	-	-	-	-	-	-	-	-	

TABLE 6:3 AREA OF CROPLAND UNDER IMPROVED FARM MANAGEMENT PRACTICES  
CROP CATEGORY IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	568761	7265	1.28	19050	3.35	249588	43.88	9065	1.59
West Tigray Zone	182887	1131	0.62	503	0.28	77817	42.55	989	0.54
Kafta	20458	*	*	*	*	1179	5.76	16	0.08
Tahtay Adiyabo	18341	*	*	*	*	8978	48.95	152	0.83
Laelay Adiyabo	22116	354	1.6	*	*	11607	52.48	222	1
Tahtay Koraro	10843	119	1.1	79	0.73	7561	69.73	251	2.31
Medebay Zana	16854	139	0.82	156	0.93	10357	61.45	*	*
Asegede Tsimbela	24368	192	0.79	*	*	13254	54.39	*	*
Tselemti	31793	*	*	*	*	15391	48.41	*	*
Welkait	21052	55	0.26	*	*	4721	22.43	*	*
Tsegede	17063	*	*	*	*	4769	27.95	*	*
Central Tigray Zone	168245	2139	1.27	3170	1.88	94391	56.1	4787	2.85
Mereb Lehe	13665	116	0.85	129	0.94	7653	56	164	1.2
Ahiferom	20215	444	2.2	744	3.68	14318	70.83	879	4.35
Werie Lehe	24668	216	0.88	598	2.42	11397	46.2	897	3.64
Adwa	12060	174	1.44	347	2.88	9894	82.04	1180	9.78
Laelay Maychew	15667	142	0.91	264	1.69	10722	68.44	850	5.43
Tahtay Maychew	11282	76	0.67	149	1.32	7470	66.21	203	1.8
Naeder Adet	13830	61	0.44	74	0.54	7972	57.64	141	1.02
Kola Temben	19213	186	0.97	*	*	10122	52.68	*	*
Degua Temben	16074	595	3.7	*	*	6791	42.25	217	1.35
Tanqu Abergele	21570	129	0.6	101	0.47	8051	37.32	*	*
East Tigray Zone	56973	1568	2.75	1168	2.05	31993	56.15	1166	2.05
Gulumahada	4825	435	9.02	30	0.62	3467	71.85	457	9.47
Erob	634	2	0.32	7	1.1	283	44.64	3	0.47
Saesi Tsaedamba	10111	141	1.39	408	4.04	6157	60.89	40	0.4
Ganta Afeshum	6504	147	2.26	*	*	4570	70.26	159	2.44
Hawzen	12924	170	1.32	48	0.37	7303	56.51	179	1.39
Wukro	12780	448	3.51	291	2.28	4845	37.91	297	2.32
Atsbi Wenberta	9195	226	2.46	191	2.08	5369	58.39	31	0.34
South Tigray Zone	160305	2413	1.51	14176	8.84	45322	28.27	2113	1.32
Seharte Samre	31144	238	0.76	769	2.47	12917	41.48	429	1.38
Enderta	26676	774	2.9	931	3.49	6477	24.28	249	0.93
Hintalo Wajirat	26343	594	2.25	3011	11.43	8095	30.73	749	2.84
Ambalage	10325	*	*	1552	15.03	2349	22.75	115	1.11
Endamehoni	8030	107	1.33	677	8.43	1819	22.65	93	1.16
Rayazebo	28099	183	0.65	3226	11.48	7678	27.32	164	0.58
Alamata	15781	158	1	2273	14.4	1913	12.12	202	1.28
Wofla	13908	216	1.55	1738	12.5	4074	29.29	113	0.81
Mekele Zone	*	*	*	*	*	64	*	*	*
Mekele	*	*	*	*	*	64	*	*	*

TABLE 6.3.1:RURAL HOLDINGS

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	557418	6794	1.22	18423	3.31	245896	44.11	8383	1.5
West Tigray Zone	178956	1040	0.58	488	0.27	77146	43.11	932	0.52
Kafta	19072	*	*	*	*	1137	5.96	-	-
Tahtay Adiyabo	17224	*	*	*	*	8881	51.56	*	*
Laelay Adiyabo	21900	341	1.56	*	*	11501	52.52	212	0.97
Tahtay Koraro	10715	114	1.06	74	0.69	7485	69.86	242	2.26
Medebay Zana	16616	*	*	152	0.91	10204	61.41	*	*
Asegede Tsimbela	24152	183	0.76	*	*	13144	54.42	*	*
Tselemti	31503	*	*	*	*	15367	48.78	*	*
Welkait	20725	41	0.2	*	*	4660	22.48	*	*
Tsegede	17049	*	*	*	*	4766	27.95	*	*
Central Tigray Zone	164587	2012	1.22	3062	1.86	92333	56.1	4375	2.66
Mereb Lehe	13122	115	0.88	125	0.95	7246	55.22	*	*
Ahiferom	19860	434	2.19	726	3.66	14089	70.94	852	4.29
Werie Lehe	24320	173	0.71	572	2.35	11121	45.73	824	3.39
Adwa	11903	157	1.32	337	2.83	9775	82.12	1165	9.79
Laelay Maychew	14731	119	0.81	249	1.69	10236	69.49	714	4.85
Tahtay Maychew	11167	61	0.55	148	1.33	7421	66.45	176	1.58
Naeder Adet	13655	61	0.45	74	0.54	7872	57.65	118	0.86
Kola Temben	18924	181	0.96	*	*	9990	52.79	*	*
Degua Temben	15970	591	3.7	*	*	6740	42.2	208	1.3
Tanqu Abergele	20935	121	0.58	91	0.43	7843	37.46	*	*
East Tigray Zone	56391	1524	2.7	1152	2.04	31751	56.31	1131	2.01
Gulumahada	4803	426	8.87	29	0.6	3466	72.16	457	9.51
Erob	633	2	0.32	7	1.11	283	44.71	3	0.47
Saesi Tsaedamba	10062	138	1.37	407	4.04	6123	60.85	39	0.39
Ganta Afeshum	6480	144	2.22	*	*	4552	70.25	158	2.44
Hawzen	12774	165	1.29	47	0.37	7213	56.47	169	1.32
Wukro	12632	435	3.44	289	2.29	4796	37.97	275	2.18
Atsbi Wenberta	9007	214	2.38	184	2.04	5318	59.04	30	0.33
South Tigray Zone	157484	2219	1.41	13722	8.71	44667	28.36	1946	1.24
Seharte Samre	30856	232	0.75	749	2.43	12722	41.23	400	1.3
Enderta	26331	741	2.81	918	3.49	6331	24.04	246	0.93
Hintalo Wajirat	25833	513	1.99	2997	11.6	7976	30.88	716	2.77
Ambalage	10309	*	*	1551	15.05	2346	22.76	114	1.11
Endamehoni	7871	99	1.26	645	8.19	1801	22.88	67	0.85
Rayaazebo	27762	153	0.55	3197	11.52	7631	27.49	151	0.54
Alamata	14783	136	0.92	1936	13.1	1827	12.36	*	*
Wofla	13739	202	1.47	1728	12.58	4033	29.35	113	0.82

TABLE 6.3.2 RURAL MEHER

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	544351	6295	1.16	10633	1.95	241649	44.39	8224	1.51
West Tigray Zone	178731	986	0.55	268	0.15	77037	43.1	920	0.51
Kafta	19072	*	*	*	*	1137	5.96	-	-
Tahtay Adiyabo	17224	*	*	*	*	8881	51.56	*	*
Lalay Adiyabo	21831	320	1.47	27	0.12	11496	52.66	212	0.97
Tahtay Koraro	10667	88	0.82	26	0.24	7451	69.85	241	2.26
Medebay Zana	16523	*	*	64	0.39	10146	61.41	*	*
Asegede Tsimbela	24151	183	0.76	*	*	13144	54.42	*	*
Tselemti	31503	*	*	*	*	15367	48.78	*	*
Welkait	20725	41	0.2	*	*	4660	22.48	*	*
Tsegede	17035	*	*	*	*	4754	27.91	*	*
Central Tigray Zone	163004	1853	1.14	1500	0.92	91393	56.07	4335	2.66
Mereb Lehe	13013	99	0.76	*	*	7200	55.33	*	*
Ahiferom	19559	393	2.01	427	2.18	13860	70.86	845	4.32
Werie Lehe	24069	163	0.68	321	1.33	11027	45.81	820	3.41
Adwa	11645	138	1.19	85	0.73	9672	83.06	1155	9.92
Lalay Maychew	14485	55	0.38	*	*	10074	69.55	709	4.89
Tahtay Maychew	11078	57	0.51	61	0.55	7362	66.46	175	1.58
Naeder Adet	13597	58	0.43	17	0.13	7867	57.86	118	0.87
Kola Temben	18815	181	0.96	*	*	9883	52.53	*	*
Degua Temben	15810	589	3.73	*	*	6609	41.8	208	1.32
Tanqu Abergele	20932	119	0.57	88	0.42	7841	37.46	*	*
East Tigray Zone	55053	1507	2.74	467	0.85	31025	56.35	1115	2.03
Gulumahada	4801	425	8.85	28	0.58	3464	72.15	457	9.52
Erob	633	2	0.32	7	1.11	283	44.71	3	0.47
Saesi Tsaedamba	9709	131	1.35	142	1.46	5856	60.32	37	0.38
Ganta Afeshum	6405	142	2.22	121	1.89	4481	69.96	158	2.47
Hawzen	12770	165	1.29	43	0.34	7210	56.46	169	1.32
Wukro	12435	435	3.5	106	0.85	4662	37.49	269	2.16
Atsbi Wenberta	8300	208	2.51	*	*	5070	61.08	23	0.28
South Tigray Zone	147564	1948	1.32	8398	5.69	42193	28.59	1854	1.26
Seharte Samre	30509	163	0.53	411	1.35	12415	40.69	400	1.31
Enderta	25808	659	2.55	406	1.57	6085	23.58	208	0.81
Hintalo Wajirat	23265	454	1.95	977	4.2	6816	29.3	686	2.95
Ambalage	9374	*	*	649	6.92	2224	23.73	111	1.18
Endamehoni	6818	85	1.25	123	1.8	1558	22.85	62	0.91
Rayazebo	25314	122	0.48	3173	12.53	7461	29.47	*	*
Alamata	14248	135	0.95	1693	11.88	1757	12.33	*	*
Wofla	12227	192	1.57	968	7.92	3878	31.72	112	0.92

TABLE 6.3.3 RURAL BELG

Geographic Area	All Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	13067	499	3.82	7790	59.62	4247	32.5	160	1.22
West Tigray Zone	225	53	23.56	220	97.78	109	48.44	12	5.33
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	*	*	*	5	*	-	-
Tahtay Koraro	49	*	*	48	97.96	*	*	*	*
Medebay Zana	93	*	*	88	94.62	58	62.37	*	*
Asegede Tsimbela	*	-	-	*	*	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	15	*	*	15	100.00	12	80	-	-
Central Tigray Zone	1583	159	10.04	1562	98.67	939	59.32	40	2.53
Mereb Lehe	109	15	13.76	109	100.00	47	43.12	*	*
Ahiferom	302	*	*	299	99.01	229	75.83	*	*
Werie Lehe	251	*	*	251	100.00	94	37.45	*	*
Adwa	258	*	*	252	97.67	102	39.53	*	*
Laelay Maychew	246	64	26.02	244	99.19	162	65.85	*	*
Tahtay Maychew	89	*	*	88	98.88	59	66.29	*	*
Naeder Adet	57	*	*	57	100.00	*	*	-	-
Kola Temben	*	-	-	*	*	*	*	*	*
Degua Temben	*	*	*	*	*	*	*	-	-
Tanqu Abergele	*	*	*	*	*	*	*	-	-
East Tigray Zone	1338	*	*	684	51.12	725	54.19	*	*
Gulumahada	*	*	*	*	*	*	*	*	*
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	353	*	*	265	75.07	267	75.64	*	*
Ganta Afeshum	*	*	*	*	*	*	*	*	*
Hawzen	*	-	-	*	*	*	*	-	-
Wukro	197	-	-	183	92.89	134	68.02	*	*
Atsbi Wenberta	707	*	*	163	23.06	249	35.22	*	*
South Tigray Zone	9920	271	2.73	5324	53.67	2473	24.93	92	0.93
Seharte Samre	*	*	*	*	*	*	*	-	-
Enderta	523	83	15.87	512	97.9	247	47.23	*	*
Hintalo Wajirat	2568	58	2.26	2020	78.66	1160	45.17	30	1.17
Ambalage	935	*	*	903	96.58	*	*	*	*
Endamehoni	1053	15	1.42	523	49.67	243	23.08	*	*
Rayaazebo	2448	*	*	*	*	170	6.94	*	*
Alamata	534	*	*	243	45.51	*	*	*	*
Wofla	1512	*	*	761	50.33	155	10.25	*	*

TABLE 6.3.4 URBAN HOLDING

Geographic Area	All Crops								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	11343	470	4.14	627	5.53	3692	32.55	682	6.01
West Tigray Zone	3931	92	2.34	15	0.38	671	17.07	57	1.45
Kafta	1385	*	*	*	*	*	*	16	1.16
Tahtay Adiyabo	1117	6	0.54	*	*	97	8.68	11	0.98
Laelay Adiyabo	216	13	6.02	*	*	106	49.07	10	4.63
Tahtay Koraro	127	5	3.94	5	3.94	76	59.84	9	7.09
Medebay Zana	238	20	8.4	4	1.68	153	64.29	6	2.52
Asegede Tsimbela	217	9	4.15	4	1.84	110	50.69	4	1.84
Tselemti	290	*	*	*	*	24	8.28	-	-
Welkait	326	14	4.29	*	*	60	18.4	-	-
Tsegede	14	*	*	-	-	3	21.43	-	-
Central Tigray Zone	3658	127	3.47	108	2.95	2058	56.26	412	11.26
Mereb Lehe	543	2	0.37	4	0.74	407	74.95	84	15.47
Ahiferom	355	10	2.82	18	5.07	229	64.51	27	7.61
Werie Lehe	348	43	12.36	26	7.47	276	79.31	73	20.98
Adwa	157	16	10.19	10	6.37	120	76.43	15	9.55
Laelay Maychew	936	24	2.56	14	1.5	486	51.92	136	14.53
Tahtay Maychew	115	14	12.17	*	*	49	42.61	28	24.35
Naeder Adet	176	*	*	*	*	100	56.82	23	13.07
Kola Temben	289	5	1.73	24	8.3	133	46.02	3	1.04
Degua Temben	104	4	3.85	-	-	51	49.04	8	7.69
Tanqu Abergele	635	*	*	10	1.57	208	32.76	*	*
East Tigray Zone	582	45	7.73	16	2.75	243	41.75	36	6.19
Gulumahada	22	9	40.91	*	*	1	4.55	-	-
Erob	1	-	-	-	-	*	*	*	*
Saesi Tsaedamba	50	2	4	*	*	34	68	1	2
Ganta Afeshum	24	3	12.5	4	16.67	17	70.83	1	4.17
Hawzen	150	5	3.33	1	0.67	90	60	11	7.33
Wukro	148	13	8.78	2	1.35	49	33.11	22	14.86
Atsbi Wenberta	188	*	*	7	3.72	50	26.6	*	*
South Tigray Zone	2822	194	6.87	454	16.09	655	23.21	167	5.92
Seharte Samre	288	6	2.08	*	*	196	68.06	29	10.07
Enderta	345	32	9.28	13	3.77	146	42.32	*	*
Hintalo Wajirat	509	82	16.11	13	2.55	119	23.38	32	6.29
Ambalage	15	*	*	1	6.67	3	20	1	6.67
Endamehoni	159	8	5.03	31	19.5	17	10.69	*	*
Rayaazebo	337	30	8.9	29	8.61	47	13.95	13	3.86
Alamata	999	22	2.2	337	33.73	86	8.61	64	6.41
Wofla	169	14	8.28	9	5.33	41	24.26	*	*
Mekele Zone	*	*	*	*	*	64	*	*	*
Mekele	*	*	*	*	*	64	*	*	*

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

Geographic Area	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	558419	6831	1.22	15771	2.82	245412	43.95	8898	1.59
West Tigray Zone	181802	1055	0.58	258	0.14	77147	42.43	959	0.53
Kafta	20426	*	*	*	*	1168	5.72	16	0.08
Tahtay Adiyabo	18252	*	*	*	*	8908	48.81	151	0.83
Laelay Adiyabo	21947	337	1.54	*	*	11523	52.5	221	1.01
Tahtay Koraro	10720	83	0.77	26	0.24	7484	69.81	248	2.31
Medebay Zana	16642	125	0.75	53	0.32	10231	61.48	*	*
Asegede Tsimbela	24217	183	0.76	*	*	13132	54.23	*	*
Tselemti	31660	*	*	*	*	15280	48.26	*	*
Welkait	20978	54	0.26	*	*	4703	22.42	*	*
Tsegede	16959	*	*	*	*	4719	27.83	-	-
Central Tigray Zone	165623	2033	1.23	2050	1.24	92860	56.07	4744	2.86
Mereb Lehe	13593	102	0.75	99	0.73	7614	56.01	162	1.19
Ahiferom	18939	425	2.24	458	2.42	13442	70.98	869	4.59
Werie Lehe	24491	193	0.79	491	2	11332	46.27	893	3.65
Adwa	11744	147	1.25	134	1.14	9736	82.9	1171	9.97
Laelay Maychew	15584	137	0.88	207	1.33	10667	68.45	845	5.42
Tahtay Maychew	11103	69	0.62	42	0.38	7378	66.45	203	1.83
Naeder Adet	13715	58	0.42	34	0.25	7921	57.75	141	1.03
Kola Temben	18949	184	0.97	*	*	9978	52.66	*	*
Degua Temben	15967	592	3.71	*	*	6751	42.28	216	1.35
Tanqu Abergele	21538	127	0.59	74	0.34	8042	37.34	*	*
East Tigray Zone	53143	1540	2.9	801	1.51	30903	58.15	1150	2.16
Gulumahada	4071	430	10.56	17	0.42	3287	80.74	457	11.23
Erob	443	2	0.45	6	1.35	256	57.79	3	0.68
Saesi Tsaedamba	9103	128	1.41	201	2.21	5803	63.75	36	0.4
Ganta Afeshum	5725	145	2.53	*	*	4306	75.21	155	2.71
Hawzen	12522	169	1.35	*	*	7236	57.79	179	1.43
Wukro	12295	446	3.63	229	1.86	4724	38.42	296	2.41
Atsbi Wenberta	8983	220	2.45	171	1.9	5291	58.9	24	0.27
South Tigray Zone	157531	2197	1.39	12660	8.04	44469	28.23	2042	1.3
Seharte Samre	31008	230	0.74	690	2.23	12856	41.46	429	1.38
Enderta	25891	633	2.44	537	2.07	6212	23.99	230	0.89
Hintalo Wajirat	25650	551	2.15	2579	10.05	7797	30.4	725	2.83
Ambalage	10051	*	*	1429	14.22	2289	22.77	113	1.12
Endamehoni	7845	100	1.27	627	7.99	1748	22.28	76	0.97
Rayaazebo	27764	172	0.62	3040	10.95	7648	27.55	154	0.55
Alamata	15661	155	0.99	2194	14.01	1903	12.15	201	1.28
Wofla	13662	214	1.57	1564	11.45	4017	29.4	113	0.83
Mekele zone	*	*	*	*	*	*	*	*	*
Mekele	*	*	*	*	*	*	*	*	*

TABLE 6.4.1 RURAL HOLDING

Geographic Area	Grain Crops								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	547444	6403	1.17	15384	2.81	241829	44.17	8250	1.51
West Tigray Zone	177909	968	0.54	252	0.14	76491	42.99	904	0.51
Kafta	19053	*	*	*	*	1126	5.91	-	-
Tahtay Adiyabo	17135	*	*	*	*	8811	51.42	*	*
Laelay Adiyabo	21732	324	1.49	*	*	11418	52.54	211	0.97
Tahtay Koraro	10596	78	0.74	25	0.24	7408	69.91	239	2.26
Medebay Zana	16405	106	0.65	51	0.31	10078	61.43	*	*
Asegede Tsimbela	24018	178	0.74	*	*	13037	54.28	*	*
Tselemti	31370	*	*	*	*	15256	48.63	*	*
Welkait	20655	41	0.2	*	*	4642	22.47	*	*
Tsegede	16945	*	*	*	*	4715	27.83	-	-
Central Tigray Zone	162080	1920	1.18	2025	1.25	90845	56.05	4333	2.67
Mereb Lehe	13055	100	0.77	97	0.74	7208	55.21	*	*
Ahiferom	18592	415	2.23	448	2.41	13215	71.08	842	4.53
Werie Lehe	24171	158	0.65	489	2.02	11079	45.84	820	3.39
Adwa	11610	134	1.15	133	1.15	9618	82.84	1155	9.95
Laelay Maychew	14664	113	0.77	204	1.39	10187	69.47	709	4.83
Tahtay Maychew	10989	55	0.5	42	0.38	7329	66.69	175	1.59
Naeder Adet	13540	57	0.42	34	0.25	7822	57.77	118	0.87
Kola Temben	18689	180	0.96	*	*	9853	52.72	*	*
Degua Temben	15863	588	3.71	*	*	6700	42.24	208	1.31
Tanqu Abergele	20907	119	0.57	68	0.33	7834	37.47	*	*
East Tigray Zone	52565	1495	2.84	788	1.5	30662	58.33	1114	2.12
Gulumahada	4049	422	10.42	16	0.4	3286	81.16	457	11.29
Erob	442	2	0.45	6	1.36	256	57.92	3	0.68
Saesi Tsaedamba	9054	126	1.39	200	2.21	5769	63.72	35	0.39
Ganta Afeshum	5706	142	2.49	*	*	4290	75.18	154	2.7
Hawzen	12373	165	1.33	*	*	7146	57.75	169	1.37
Wukro	12147	433	3.56	227	1.87	4674	38.48	274	2.26
Atsbi Wenberta	8795	207	2.35	164	1.86	5241	59.59	23	0.26
South Tigray Zone	154890	2019	1.3	12319	7.95	43831	28.3	1900	1.23
Seharte Samre	30726	224	0.73	676	2.2	12660	41.2	400	1.3
Enderta	25558	608	2.38	531	2.08	6068	23.74	227	0.89
Hintalo Wajirat	25146	472	1.88	2571	10.22	7682	30.55	696	2.77
Ambalage	10035	*	*	1428	14.23	2285	22.77	113	1.13
Endamehoni	7744	92	1.19	615	7.94	1734	22.39	67	0.87
Rayaazebo	27455	147	0.54	3017	10.99	7607	27.71	146	0.53
Alamata	14732	134	0.91	1927	13.08	1820	12.35	*	*
Wofla	13493	201	1.49	1554	11.52	3976	29.47	113	0.84

TABLE 6.4.2 RURAL MEHER

Geographic Area	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	536165	6111	1.14	9318	1.74	238752	44.53	8175	1.52
West Tigray Zone	177857	962	0.54	202	0.11	76479	43	902	0.51
Kafta	19053	*	*	*	*	1126	5.91	-	-
Tahtay Adiyabo	17135	*	*	*	*	8811	51.42	*	*
Laelay Adiyabo	21705	318	1.47	*	*	11418	52.61	211	0.97
Tahtay Koraro	10580	78	0.74	*	*	7402	69.96	239	2.26
Medebay Zana	16396	106	0.65	42	0.26	10071	61.42	*	*
Asegede Tsimbela	24018	178	0.74	*	*	13037	54.28	*	*
Tselemti	31370	*	*	*	*	15256	48.63	*	*
Welkait	20655	41	0.2	*	*	4642	22.47	*	*
Tsegede	16945	*	*	*	*	4715	27.83	-	-
Central Tigray Zone	161098	1826	1.13	1046	0.65	90304	56.06	4329	2.69
Mereb Lehe	12972	98	0.76	*	*	7171	55.28	*	*
Ahiferom	18422	384	2.08	278	1.51	13087	71.04	842	4.57
Werie Lehe	23938	154	0.64	256	1.07	10999	45.95	818	3.42
Adwa	11534	134	1.16	57	0.49	9608	83.3	1155	10.01
Laelay Maychew	14462	55	0.38	*	*	10060	69.56	709	4.9
Tahtay Maychew	10968	55	0.5	*	*	7315	66.69	175	1.6
Naeder Adet	13514	57	0.42	8	0.06	7818	57.85	118	0.87
Kola Temben	18665	180	0.96	*	*	9830	52.67	*	*
Degua Temben	15717	588	3.74	*	*	6582	41.88	208	1.32
Tanqu Abergele	20906	119	0.57	67	0.32	7834	37.47	*	*
East Tigray Zone	51493	1493	2.9	352	0.68	30178	58.61	1108	2.15
Gulumahada	4049	422	10.42	16	0.4	3286	81.16	457	11.29
Erob	442	2	0.45	6	1.36	256	57.92	3	0.68
Saesi Tsaedamba	8883	126	1.42	100	1.13	5670	63.83	35	0.39
Ganta Afeshum	5646	140	2.48	*	*	4234	74.99	154	2.73
Hawzen	12373	165	1.33	*	*	7146	57.75	169	1.37
Wukro	11993	433	3.61	87	0.73	4576	38.16	269	2.24
Atsbi Wenberta	8107	206	2.54	*	*	5010	61.8	22	0.27
South Tigray Zone	145717	1830	1.26	7718	5.3	41791	28.68	1836	1.26
Seharte Samre	30406	160	0.53	364	1.2	12374	40.7	400	1.32
Enderta	25283	560	2.21	266	1.05	5993	23.7	205	0.81
Hintalo Wajirat	22912	446	1.95	881	3.85	6729	29.37	677	2.95
Ambalage	9167	*	*	590	6.44	2177	23.75	111	1.21
Endamehoni	6714	84	1.25	106	1.58	1504	22.4	62	0.92
Rayaaazebo	25007	117	0.47	2992	11.96	7437	29.74	*	*
Alamata	14201	134	0.94	1685	11.87	1750	12.32	*	*
Wofla	12026	191	1.59	835	6.94	3827	31.82	112	0.93

TABLE 6.4.3 RURAL BELG

Geographic Area	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	11279	291	2.58	6066	53.78	3077	27.28	74	0.66
West Tigray Zone	52	*	*	51	98.08	12	23.08	*	*
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	*	*	*	-	-	-	-
Tahtay Koraro	16	-	-	16	100.00	*	*	*	*
Medebay Zana	*	-	-	*	*	*	*	*	*
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	*	-	-	*	*	-	-	-	-
Central Tigray Zone	983	95	9.66	979	99.59	541	55.04	*	*
Mereb Lehe	83	*	*	83	100.00	37	44.58	*	*
Ahiferom	170	*	*	169	99.41	128	75.29	*	*
Werie Lehe	233	*	*	233	100.00	81	34.76	*	*
Adwa	*	*	*	*	*	*	*	-	-
Laelay Maychew	203	58	28.57	202	99.51	126	62.07	-	-
Tahtay Maychew	*	-	-	*	*	*	*	-	-
Naeder Adet	26	-	-	26	100	*	*	-	-
Kola Temben	*	-	-	*	*	*	*	-	-
Degua Temben	*	-	-	*	*	*	*	-	-
Tanqu Abergele	*	*	*	*	*	*	*	-	-
East Tigray Zone	1072	*	*	436	40.67	484	45.15	*	*
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	171	-	-	100	58.48	99	57.89	-	-
Ganta Afeshum	*	*	*	*	*	*	*	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	154	-	-	140	90.91	*	*	*	*
Atsbi Wenberta	688	*	*	144	20.93	231	33.58	*	*
South Tigray Zone	9173	189	2.06	4601	50.16	2041	22.25	64	0.7
Seharte Samre	*	*	*	*	*	*	*	-	-
Enderta	274	48	17.52	266	97.08	74	27.01	*	*
Hintalo Wajirat	2234	27	1.21	1690	75.65	953	42.66	19	0.85
Ambalage	868	*	*	839	96.66	*	*	*	*
Endamehoni	1030	*	*	508	49.32	230	22.33	*	*
Rayazebo	2448	*	*	*	*	170	6.94	*	*
Alamata	531	-	-	242	45.57	*	*	*	*
Wofla	1467	*	*	720	49.08	149	10.16	*	*

TABLE 6.4.4 URBAN HOLDING

Geographic Area	Grain Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	10974	428	3.9	387	3.53	3583	32.65	648	5.9
West Tigray Zone	3892	87	2.24	5	0.13	655	16.83	55	1.41
Kafta	1373	*	*	*	*	*	*	16	1.17
Tahtay Adiyabo	1117	6	0.54	-	-	97	8.68	11	0.98
Laelay Adiyabo	215	13	6.05	-	-	105	48.84	10	4.65
Tahtay Koraro	124	5	4.03	2	1.61	76	61.29	9	7.26
Medebay Zana	236	19	8.05	*	*	153	64.83	6	2.54
Asegede Tsimbela	199	5	2.51	1	0.5	95	47.74	3	1.51
Tselemti	290	*	*	*	*	24	8.28	-	-
Welkait	324	14	4.32	-	-	60	18.52	-	-
Tsegede	14	*	*	-	-	3	21.43	-	-
Central Tigray Zone	3543	112	3.16	25	0.71	2015	56.87	412	11.63
Mereb Lehe	538	2	0.37	*	*	406	75.46	84	15.61
Ahiferom	347	10	2.88	11	3.17	227	65.42	27	7.78
Werie Lehe	320	35	10.94	*	*	252	78.75	73	22.81
Adwa	134	12	8.96	*	*	117	87.31	15	11.19
Laelay Maychew	920	24	2.61	3	0.33	481	52.28	136	14.78
Tahtay Maychew	114	14	12.28	-	-	49	42.98	28	24.56
Naeder Adet	175	*	*	-	-	100	57.14	23	13.14
Kola Temben	260	4	1.54	*	*	125	48.08	3	1.15
Degua Temben	104	4	3.85	-	-	51	49.04	8	7.69
Tanqu Abergele	631	*	*	*	*	208	32.96	*	*
East Tigray Zone	578	45	7.79	13	2.25	241	41.7	36	6.23
Gulumahada	22	9	40.91	*	*	1	4.55	-	-
Erob	1	-	-	-	-	*	*	*	*
Saesi Tsaedamba	49	2	4.08	*	*	34	69.39	1	2.04
Ganta Afeshum	19	3	15.79	1	5.26	16	84.21	1	5.26
Hawzen	150	5	3.33	1	0.67	90	60	11	7.33
Wukro	148	13	8.78	2	1.35	49	33.11	22	14.86
Atsbi Wenberta	188	*	*	7	3.72	50	26.6	*	*
South Tigray Zone	2961	185	6.25	343	11.58	672	22.7	146	4.93
Seharte Samre	281	6	2.14	*	*	195	69.4	29	10.32
Enderta	333	25	7.51	5	1.5	144	43.24	*	*
Hintalo Wajirat	504	78	15.48	8	1.59	115	22.82	29	5.75
Ambalage	15	*	*	1	6.67	3	20	1	6.67
Endamehoni	101	8	7.92	12	11.88	14	13.86	9	8.91
Rayaazebo	309	24	7.77	24	7.77	42	13.59	8	2.59
Alamata	929	22	2.37	267	28.74	83	8.93	64	6.89
Wofla	169	14	8.28	9	5.33	41	24.26	*	*
Mekele Zone	*	*	*	*	*	*	*	*	*
Mekele	*	*	*	*	*	*	*	*	*

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

Geographic Area	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	481417	6568	1.36	13761	2.86	234415	48.69	8265	1.72
West Tigray Zone	149277	989	0.66	236	0.16	74148	49.67	920	0.62
Kafta	6858	*	*	-	-	758	11.05	4	0.06
Tahtay Adiyabo	16528	*	*	*	*	8696	52.61	*	*
Laelay Adiyabo	21039	337	1.6	42	0.2	11396	54.17	221	1.05
Tahtay Koraro	9768	78	0.8	21	0.21	7370	75.45	246	2.52
Medebay Zana	15421	118	0.77	46	0.3	9969	64.65	*	*
Asegede Tsimbela	22018	183	0.83	*	*	12638	57.4	*	*
Tselemti	29388	*	*	*	*	14953	50.88	*	*
Welkait	15371	45	0.29	*	*	4368	28.42	*	*
Tsegede	12886	*	*	*	*	4000	31.04	-	-
Central Tigray Zone	146835	1948	1.33	1579	1.08	89092	60.67	4368	2.97
Mereb Lehe	13328	100	0.75	73	0.55	7486	56.17	162	1.22
Ahiferom	16990	411	2.42	324	1.91	12943	76.18	819	4.82
Werie Lehe	21924	184	0.84	327	1.49	10814	49.32	866	3.95
Adwa	10642	146	1.37	81	0.76	9174	86.21	1142	10.73
Laelay Maychew	11817	133	1.13	143	1.21	10013	84.73	779	6.59
Tahtay Maychew	9125	63	0.69	35	0.38	7094	77.74	191	2.09
Naeder Adet	11608	45	0.39	32	0.28	7594	65.42	125	1.08
Kola Temben	17486	180	1.03	*	*	9824	56.18	*	*
Degua Temben	13687	571	4.17	*	*	6300	46.03	202	1.48
Tanqu Abergele	20228	115	0.57	70	0.35	7849	38.8	*	*
East Tigray Zone	45583	1517	3.33	742	1.63	28174	61.81	1108	2.43
Gulumahada	3833	429	11.19	16	0.42	3224	84.11	453	11.82
Erob	424	2	0.47	6	1.42	247	58.25	2	0.47
Saesi Tsaedamba	7767	124	1.6	177	2.28	5108	65.77	34	0.44
Ganta Afeshum	4991	139	2.79	*	*	3944	79.02	147	2.95
Hawzen	10221	162	1.58	*	*	6747	66.01	170	1.66
Wukro	10802	443	4.1	222	2.06	4385	40.59	287	2.66
Atsbi Wenberta	7546	218	2.89	165	2.19	4519	59.89	16	0.21
South Tigray Zone	139567	2107	1.51	11201	8.03	42969	30.79	1867	1.34
Seharte Samre	27739	228	0.82	626	2.26	12617	45.48	312	1.12
Enderta	23505	615	2.62	430	1.83	6168	26.24	222	0.94
Hintalo Wajirat	23049	551	2.39	2057	8.92	7514	32.6	701	3.04
Ambalage	7397	*	*	1227	16.59	2086	28.2	105	1.42
Endamehoni	5689	90	1.58	488	8.58	1528	26.86	72	1.27
Rayaazebo	26713	171	0.64	3004	11.25	7476	27.99	144	0.54
Alamata	14769	147	1	2162	14.64	1815	12.29	201	1.36
Wofla	10705	175	1.63	1207	11.28	3766	35.18	111	1.04
Mekele Zone	*	*	*	*	*	*	*	*	*
Mekele	*	*	*	*	*	*	*	*	*

TABLE 6.5.1 RURAL HOLDINGS

Geographic Area	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	472275	6169	1.31	13387	2.83	230986	48.91	7648	1.62
West Tigray Zone	146448	925	0.63	231	0.16	73508	50.19	879	0.6
Kafta	6260	*	*	-	-	716	11.44	-	-
Tahtay Adiyabo	15513	*	*	*	*	8603	55.46	*	*
Laelay Adiyabo	20826	324	1.56	42	0.2	11291	54.22	211	1.01
Tahtay Koraro	9672	73	0.75	*	*	7300	75.48	239	2.47
Medebay Zana	15208	*	*	44	0.29	9818	64.56	*	*
Asegede Tsimbela	21820	178	0.82	*	*	12544	57.49	*	*
Tselemti	29126	*	*	*	*	14929	51.26	*	*
Welkait	15146	*	*	*	*	4311	28.46	*	*
Tsegede	12876	*	*	*	*	3997	31.04	-	-
Central Tigray Zone	143626	1838	1.28	1555	1.08	87168	60.69	3968	2.76
Mereb Lehe	12816	99	0.77	71	0.55	7104	55.43	*	*
Ahiferom	16687	401	2.4	315	1.89	12724	76.25	792	4.75
Werie Lehe	21619	149	0.69	325	1.5	10571	48.9	794	3.67
Adwa	10517	134	1.27	80	0.76	9065	86.19	1127	10.72
Laelay Maychew	11038	110	1	140	1.27	9554	86.56	652	5.91
Tahtay Maychew	9026	49	0.54	35	0.39	7050	78.11	164	1.82
Naeder Adet	11461	44	0.38	32	0.28	7495	65.4	101	0.88
Kola Temben	17236	175	1.02	*	*	9703	56.29	*	*
Degua Temben	13612	568	4.17	*	*	6260	45.99	195	1.43
Tanqu Abergele	19613	107	0.55	64	0.33	7642	38.96	*	*
East Tigray Zone	45110	1473	3.27	731	1.62	27960	61.98	1074	2.38
Gulumahada	3812	420	11.02	16	0.42	3223	84.55	453	11.88
Erob	424	2	0.47	6	1.42	247	58.25	2	0.47
Saesi Tsaedamba	7720	122	1.58	177	2.29	5074	65.73	33	0.43
Ganta Afeshum	4974	136	2.73	*	*	3930	79.01	145	2.92
Hawzen	10093	158	1.57	*	*	6661	66	160	1.59
Wukro	10666	430	4.03	219	2.05	4336	40.65	266	2.49
Atsbi Wenberta	7422	205	2.76	159	2.14	4489	60.48	*	*
South Tigray Zone	137092	1934	1.41	10869	7.93	42350	30.89	1727	1.26
Seharte Samre	27470	221	0.8	612	2.23	12424	45.23	*	*
Enderta	23205	590	2.54	425	1.83	6026	25.97	219	0.94
Hintalo Wajirat	22607	472	2.09	2049	9.06	7401	32.74	672	2.97
Ambalage	7387	*	*	1226	16.6	2083	28.2	104	1.41
Endamehoni	5599	82	1.46	476	8.5	1515	27.06	63	1.13
Rayaaazebo	26407	147	0.56	2980	11.28	7434	28.15	136	0.52
Alamata	13857	*	*	1901	13.72	1735	12.52	*	*
Wofla	10560	165	1.56	1199	11.35	3732	35.34	111	1.05

TABLE 6.5.2 RURAL MEHER

Geographic Area	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	462526	5895	1.27	8449	1.83	228134	49.32	7580	1.64
West Tigray Zone	146410	919	0.63	194	0.13	73498	50.2	877	0.6
Kafta	6260	*	*	-	-	716	11.44	-	-
Tahtay Adiyabo	15513	*	*	*	*	8603	55.46	*	*
Lalay Adiyabo	20807	318	1.53	*	*	11291	54.27	211	1.01
Tahtay Koraro	9662	73	0.76	*	*	7296	75.51	239	2.47
Medebay Zana	15200	*	*	*	*	9813	64.56	*	*
Asegede Tsimbela	21820	178	0.82	*	*	12544	57.49	*	*
Tselemti	29126	*	*	*	*	14929	51.26	*	*
Welkait	15146	*	*	*	*	4311	28.46	*	*
Tsegede	12876	*	*	*	*	3997	31.04	-	-
Central Tigray Zone	142910	1743	1.22	843	0.59	86661	60.64	3967	2.78
Mereb Lehe	12759	97	0.76	*	*	7070	55.41	*	*
Ahiferom	16555	370	2.23	184	1.11	12613	76.19	792	4.78
Werie Lehe	21469	146	0.68	*	*	10491	48.87	794	3.7
Adwa	10479	134	1.28	43	0.41	9055	86.41	1127	10.75
Lalay Maychew	10898	52	0.48	*	*	9428	86.51	652	5.98
Tahtay Maychew	9009	49	0.54	*	*	7036	78.1	164	1.82
Naeder Adet	11436	44	0.38	7	0.06	7491	65.5	101	0.88
Kola Temben	17228	175	1.02	*	*	9694	56.27	*	*
Degua Temben	13466	568	4.22	*	*	6142	45.61	195	1.45
Tanqu Abergele	19613	107	0.55	64	0.33	7642	38.96	*	*
East Tigray Zone	44136	1471	3.33	315	0.71	27494	62.29	1068	2.42
Gulumahada	3812	420	11.02	16	0.42	3223	84.55	453	11.88
Erob	424	2	0.47	6	1.42	247	58.25	2	0.47
Saesi Tsaedamba	7565	122	1.61	90	1.19	4978	65.8	33	0.44
Ganta Afeshum	4914	134	2.73	*	*	3874	78.84	145	2.95
Hawzen	10093	158	1.57	*	*	6661	66	160	1.59
Wukro	10518	430	4.09	83	0.79	4238	40.29	261	2.48
Atsbi Wenberta	6810	204	3	*	*	4273	62.75	*	*
South Tigray Zone	129069	1763	1.37	7096	5.5	40481	31.36	1669	1.29
Seharte Samre	27175	158	0.58	324	1.19	12143	44.68	*	*
Enderta	23036	560	2.43	257	1.12	5960	25.87	197	0.86
Hintalo Wajirat	20753	446	2.15	737	3.55	6553	31.58	658	3.17
Ambalage	6600	*	*	469	7.11	1978	29.97	102	1.55
Endamehoni	4867	74	1.52	64	1.31	1318	27.08	58	1.19
Rayaazebo	23959	116	0.48	2956	12.34	7264	30.32	123	0.51
Alamata	13327	*	*	1659	12.45	1665	12.49	*	*
Wofla	9353	156	1.67	631	6.75	3599	38.48	111	1.19

TABLE 6.5.2a Teff

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Tigray Region	124699	1000	0.8	2410	1.93	64494	51.72	3013	2.42
West Tigray Zone	29281	288	0.98	*	*	16487	56.31	439	1.5
Kafta	589	-	-	-	-	232	39.39	-	-
Tahtay Adiyabo	272	-	-	-	-	50	18.38	-	-
Laelay Adiyabo	5094	43	0.84	-	-	3193	62.68	149	2.93
Tahtay Koraro	4088	47	1.15	-	-	3650	89.29	171	4.18
Medebay Zana	5697	*	*	*	*	3940	69.16	*	*
Asegede Tsimbela	4635	*	*	-	-	2708	58.43	-	-
Tselemti	6152	*	*	*	*	1602	26.04	-	-
Welkait	2130	-	-	*	*	755	35.45	-	-
Tsegede	624	-	-	-	-	357	57.21	-	-
Central Tigray Zone	52066	413	0.79	271	0.52	33915	65.14	1968	3.78
Mereb Lehe	2990	*	*	*	*	1582	52.91	*	*
Ahiferom	6285	102	1.62	64	1.02	5280	84.01	411	6.54
Werie Lehe	7991	41	0.51	*	*	3591	44.94	336	4.2
Adwa	3971	51	1.28	*	*	3592	90.46	597	15.03
Laelay Maychew	6121	37	0.6	-	-	5721	93.47	366	5.98
Tahtay Maychew	4004	*	*	*	*	3308	82.62	66	1.65
Naeder Adet	4219	*	*	*	*	2800	66.37	75	1.78
Kola Temben	6991	*	*	*	*	4605	65.87	*	*
Degua Temben	3020	*	*	*	*	1492	49.4	*	*
Tanqu Abergele	6473	*	*	*	*	1944	30.03	*	*
East Tigray Zone	5730	37	0.65	44	0.77	3037	53	160	2.79
Gulumahada	127	-	-	-	-	49	38.58	*	*
Erob	3	-	-	-	-	3	100.00	-	-
Saesi Tsaedamba	1201	-	-	23	1.92	538	44.8	*	*
Ganta Afeshum	563	*	*	*	*	416	73.89	*	*
Hawzen	1156	*	*	-	-	741	64.1	58	5.02
Wukro	2011	16	0.8	*	*	893	44.41	*	*
Atsbi Wenberta	669	*	*	-	-	399	59.64	-	-
South Tigray Zone	37622	261	0.69	2072	5.51	11055	29.38	446	1.19
Seharte Samre	9641	*	*	*	*	4352	45.14	*	*
Enderta	4621	*	*	120	2.6	698	15.1	*	*
Hintalo Wajirat	5460	*	*	366	6.7	1838	33.66	92	1.68
Ambalage	1004	*	*	138	13.75	451	44.92	-	-
Endamehoni	265	*	*	*	*	54	20.38	-	-
Rayaazebo	9739	*	*	778	7.99	2512	25.79	*	*
Alamata	5788	*	*	422	7.29	726	12.54	*	*
Wofla	1103	*	*	*	*	423	38.35	*	*

TABLE 6.5.2b Barley

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	53238	698	1.31	683	1.28	27128	50.96	1523	2.86
West Tigray Zone	1320	*	*	*	*	702	53.18	*	*
Kafta	*	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	-	-	-	-	*	*	-	-
Laelay Adiyabo	24	*	*	-	-	8	33.33	-	-
Tahtay Koraro	11	-	-	-	-	6	54.55	-	-
Medebay Zana	30	-	-	-	-	15	50	*	*
Asegede Tsimbela	*	-	-	-	-	*	*	-	-
Tselemti	*	-	-	-	-	*	*	-	-
Welkait	60	-	-	-	-	*	*	-	-
Tsegede	1137	*	*	*	*	611	53.74	-	-
Central Tigray Zone	12743	228	1.79	65	0.51	7733	60.68	650	5.1
Mereb Lehe	142	*	*	*	*	98	69.01	*	*
Ahiferom	1451	11	0.76	*	*	1060	73.05	93	6.41
Werie Lehe	3122	39	1.25	*	*	1843	59.03	159	5.09
Adwa	1311	19	1.45	*	*	1084	82.68	178	13.58
Laelay Maychew	1714	*	*	-	-	1352	78.88	174	10.15
Tahtay Maychew	499	-	-	-	-	330	66.13	8	1.6
Naeder Adet	620	*	*	-	-	401	64.68	*	*
Kola Temben	666	*	*	*	*	374	56.16	*	*
Degua Temben	2843	157	5.52	*	*	1065	37.46	*	*
Tanqu Abergele	375	-	-	-	-	126	33.6	-	-
East Tigray Zone	16288	208	1.28	83	0.51	11347	69.66	397	2.44
Gulumahada	1612	24	1.49	*	*	1414	87.72	214	13.28
Erob	272	1	0.37	3	1.1	163	59.93	1	0.37
Saesi Tsaedamba	3590	*	*	*	*	2590	72.14	21	0.58
Ganta Afeshum	1926	10	0.52	*	*	1576	81.83	53	2.75
Hawzen	2914	76	2.61	*	*	2453	84.18	54	1.85
Wukro	2563	45	1.76	*	*	965	37.65	*	*
Atsbi Wenberta	3410	34	1	*	*	2185	64.08	*	*
South Tigray Zone	22887	249	1.09	480	2.1	7346	32.1	476	2.08
Seharte Samre	2458	*	*	*	*	1209	49.19	*	*
Enderta	7598	*	*	*	*	2390	31.46	85	1.12
Hintalo Wajirat	5218	54	1.03	*	*	1644	31.51	234	4.48
Ambalage	1351	*	*	34	2.52	327	24.2	25	1.85
Endamehoni	1744	25	1.43	*	*	423	24.25	*	*
Rayaazebo	1092	-	-	*	*	266	24.36	*	*
Alamata	799	-	-	*	*	193	24.16	-	-
Wofla	2626	*	*	181	6.89	894	34.04	42	1.6

TABLE 6.5.2c Wheat

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	63216	3019	4.78	1224	1.94	31041	49.1	1874	2.96
West Tigray Zone	516	*	*	-	-	381	73.84	-	-
Kafta	*	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	-	-	-	-	*	*	-	-
Laelay Adiyabo	*	-	-	-	-	*	*	-	-
Tahtay Koraro	*	-	-	-	-	*	*	-	-
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	*	-	-	-	-	*	*	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	18	-	-	-	-	*	*	-	-
Tsegede	485	*	*	-	-	356	73.4	-	-
Central Tigray Zone	14539	705	4.85	145	1	9155	62.97	741	5.1
Mereb Lehe	*	-	-	-	-	*	*	*	*
Ahiferom	3480	*	*	77	2.21	2735	78.59	241	6.93
Werie Lehe	2739	50	1.83	*	*	1750	63.89	204	7.45
Adwa	1374	27	1.97	*	*	1173	85.37	*	*
Laelay Maychew	856	*	*	-	-	686	80.14	61	7.13
Tahtay Maychew	181	*	*	-	-	143	79.01	*	*
Naeder Adet	29	-	-	-	-	21	72.41	-	-
Kola Temben	*	*	*	-	-	*	*	-	-
Degua Temben	5738	372	6.48	*	*	2571	44.81	83	1.45
Tanqu Abergele	28	-	-	-	-	*	*	-	-
East Tigray Zone	14459	1158	8.01	86	0.59	9185	63.52	461	3.19
Gulumahada	1877	393	20.94	8	0.43	1624	86.52	234	12.47
Erob	51	*	*	*	*	35	68.63	1	1.96
Saesi Tsaedamba	1323	95	7.18	*	*	939	70.98	*	*
Ganta Afeshum	1884	113	6	*	*	1504	79.83	*	*
Hawzen	2192	56	2.55	*	*	1795	81.89	*	*
Wukro	4684	346	7.39	15	0.32	1802	38.47	129	2.75
Atsbi Wenberta	2448	156	6.37	*	*	1487	60.74	*	*
South Tigray Zone	33702	1148	3.41	993	2.95	12320	36.56	672	1.99
Seharte Samre	5448	66	1.21	*	*	3074	56.42	*	*
Enderta	10088	442	4.38	115	1.14	2697	26.73	84	0.83
Hintalo Wajirat	6753	*	*	180	2.67	2558	37.88	331	4.9
Ambalage	3809	*	*	225	5.91	1118	29.35	77	2.02
Endamehoni	2554	*	*	33	1.29	808	31.64	*	*
Rayaazebo	626	*	*	*	*	84	13.42	-	-
Alamata	615	*	*	*	*	141	22.93	-	-
Wofla	3809	123	3.23	249	6.54	1841	48.33	49	1.29

TABLE 6.5.2d Maize

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	52218	456	0.87	1072	2.05	39750	76.12	534	1.02
West Tigray Zone	23511	224	0.95	*	*	19324	82.19	203	0.86
Kafta	369	*	*	-	-	127	34.42	-	-
Tahtay Adiyabo	634	*	*	*	*	485	76.5	*	*
Laelay Adiyabo	3923	157	4	*	*	3293	83.94	*	*
Tahtay Koraro	2682	22	0.82	-	-	2336	87.1	53	1.98
Medebay Zana	4448	*	*	*	*	3890	87.46	*	*
Asegede Tsimbela	3069	*	*	-	-	2543	82.86	-	-
Tselemti	6174	*	*	-	-	*	*	-	-
Welkait	1376	*	*	-	-	830	60.32	-	-
Tsegede	835	*	*	*	*	613	73.41	-	-
Central Tigray Zone	18795	166	0.88	256	1.36	15466	82.29	312	1.66
Mereb Lehe	977	*	*	*	*	726	74.31	*	*
Ahiferom	1160	*	*	*	*	973	83.88	28	2.41
Werie Lehe	2294	*	*	*	*	1783	77.72	*	*
Adwa	1539	30	1.95	11	0.71	1426	92.66	135	8.77
Laelay Maychew	932	*	*	-	-	831	89.16	39	4.18
Tahtay Maychew	2183	*	*	*	*	1985	90.93	57	2.61
Naeder Adet	2463	*	*	-	-	2188	88.83	-	-
Kola Temben	4116	*	*	*	*	2899	70.43	*	*
Degua Temben	901	*	*	*	*	601	66.7	*	*
Tanqu Abergele	2229	*	*	*	*	2055	92.19	*	*
East Tigray Zone	3094	44	1.42	76	2.46	2104	68	15	0.48
Gulumahada	74	*	*	-	-	58	78.38	-	-
Erob	97	1	1.03	2	2.06	46	47.42	-	-
Saesi Tsaedamba	1206	*	*	20	1.66	800	66.33	*	*
Ganta Afeshum	256	*	*	*	*	220	85.94	*	*
Hawzen	698	*	*	*	*	506	72.49	*	*
Wukro	505	*	*	*	*	286	56.63	-	-
Atsbi Wenberta	260	*	*	-	-	187	71.92	*	*
South Tigray Zone	6818	23	0.34	707	10.37	2856	41.89	*	*
Seharte Samre	1899	*	*	57	3	1480	77.94	-	-
Enderta	315	*	*	*	*	159	50.48	-	-
Hintalo Wajirat	512	*	*	*	*	250	48.83	*	*
Ambalage	277	*	*	70	25.27	77	27.8	-	-
Endamehoni	73	-	-	*	*	16	21.92	-	-
Rayaazebo	1525	*	*	*	*	488	32	*	*
Alamata	1750	*	*	315	18	205	11.71	-	-
Wofla	467	*	*	*	*	180	38.54	-	-

TABLE 6.5.2e Sorghum

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	114059	482	0.42	2940	2.58	37102	32.53	227	0.2
West Tigray Zone	54226	239	0.44	*	*	17003	31.36	85	0.16
Kafta	4878	*	*	-	-	229	4.69	-	-
Tahtay Adiyabo	9380	*	*	*	*	4952	52.79	60	0.64
Laelay Adiyabo	5103	*	*	-	-	1637	32.08	*	*
Tahtay Koraro	880	-	-	-	-	29	3.3	-	-
Medebay Zana	1680	*	*	-	-	484	28.81	-	-
Asegede Tsimbela	7015	*	*	-	-	3532	50.35	-	-
Tselemti	9985	*	*	*	*	3191	31.96	*	*
Welkait	8024	*	*	-	-	1474	18.37	*	*
Tsegede	7281	-	-	-	-	1475	20.26	-	-
Central Tigray Zone	30788	160	0.52	73	0.24	12635	41.04	60	0.19
Mereb Lehe	5148	*	*	*	*	2968	57.65	*	*
Ahiferom	2568	*	*	-	-	1347	52.45	*	*
Werie Lehe	3876	-	-	*	*	975	25.15	*	*
Adwa	660	*	*	-	-	397	60.15	*	*
Laelay Maychew	382	*	*	-	-	*	*	*	*
Tahtay Maychew	897	*	*	-	-	608	67.78	*	*
Naeder Adet	2455	*	*	*	*	1211	49.33	*	*
Kola Temben	3991	*	*	*	*	1181	29.59	*	*
Degua Temben	601	*	*	*	*	249	41.43	-	-
Tanqu Abergele	10210	48	0.47	*	*	3460	33.89	*	*
East Tigray Zone	1966	12	0.61	*	*	686	34.89	*	*
Gulumahada	42	*	*	*	*	20	47.62	*	*
Erob	*	-	-	-	-	*	*	-	-
Saesi Tsaedamba	91	-	-	-	-	*	*	-	-
Ganta Afeshum	129	*	*	-	-	78	60.47	-	-
Hawzen	1474	*	*	*	*	498	33.79	*	*
Wukro	230	*	*	-	-	47	20.43	*	*
Atsbi Wenberta	*	-	-	-	-	-	-	-	-
South Tigray Zone	27079	70	0.26	2835	10.47	6778	25.03	69	0.25
Seharte Samre	7522	*	*	*	*	1994	26.51	*	*
Enderta	*	-	-	-	-	*	*	-	-
Hintalo Wajirat	2730	*	*	*	*	252	9.23	-	-
Ambalage	134	-	-	-	-	*	*	-	-
Endamehoni	222	*	*	*	*	16	7.21	-	-
Rayaazebo	10964	*	*	1862	16.98	3914	35.7	*	*
Alamata	4346	*	*	906	20.85	400	9.2	-	-
Wofla	1019	*	*	*	*	186	18.25	-	-

TABLE 6.5.2f Finger Millet

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	54693	240	0.44	118	0.22	28567	52.23	392	0.72
West Tigray Zone	37544	147	0.39	63	0.17	19595	52.19	149	0.4
Kafta	408	*	*	-	-	126	30.88	-	-
Tahtay Adiyabo	5218	*	*	*	*	3106	59.52	*	*
Laelay Adiyabo	6659	35	0.53	*	*	3155	47.38	*	*
Tahtay Koraro	1990	*	*	*	*	1270	63.82	*	*
Medebay Zana	3345	-	-	*	*	1484	44.36	*	*
Asegede Tsimbela	7084	*	*	*	*	3746	52.88	*	*
Tselemti	6788	*	*	-	-	4906	72.27	*	*
Welkait	3538	*	*	-	-	1218	34.43	*	*
Tsegede	2514	-	-	-	-	584	23.23	-	-
Central Tigray Zone	13966	71	0.51	34	0.24	7748	55.48	236	1.69
Mereb Lehe	3445	17	0.49	-	-	1650	47.9	*	*
Ahiferom	1610	*	*	-	-	1218	75.65	*	*
Werie Lehe	1447	*	*	*	*	549	37.94	*	*
Adwa	1622	*	*	*	*	1383	85.27	69	4.25
Laelay Maychew	892	*	*	*	*	601	67.38	*	*
Tahtay Maychew	1244	*	*	-	-	661	53.14	*	*
Naeder Adet	1650	*	*	-	-	870	52.73	*	*
Kola Temben	1396	*	*	-	-	606	43.41	*	*
Degua Temben	360	*	*	*	*	165	45.83	*	*
Tanqu Abergele	*	-	-	-	-	*	*	-	-
East Tigray Zone	2522	*	*	*	*	1105	43.81	*	*
Gulumahada	81	-	-	-	-	58	71.6	*	*
Erob	*	-	-	-	-	-	-	-	-
Saesi Tsaedamba	148	-	-	*	*	68	45.95	-	-
Ganta Afeshum	*	*	*	-	-	81	*	-	-
Hawzen	1658	*	*	*	*	667	40.23	*	*
Wukro	464	-	-	-	-	216	46.55	-	-
Atsbi Wenberta	*	-	-	*	*	*	*	-	-
South Tigray Zone	662	*	*	*	*	119	17.98	*	*
Seharte Samre	203	-	-	-	-	*	*	-	-
Enderta	*	*	*	-	-	*	*	*	*
Hintalo Wajirat	*	*	*	-	-	*	*	-	-
Ambalage	*	-	-	*	*	-	-	-	-
Endamehoni	*	-	-	-	-	-	-	-	-
Rayaazebo	*	-	-	-	-	-	-	-	-
Alamata	*	-	-	-	-	-	-	-	-
Wofla	304	-	-	*	*	75	24.67	-	-

TABLE 6.5.2g Oats

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	404	-	-	*	*	52	12.87	*	*
West Tigray Zone	13	-	-	-	-	*	*	-	-
Kafta	*	-	-	-	-	*	*	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-	-
Tahtay Koraro	*	-	-	-	-	*	*	-	-
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	*	-	-	-	-	-	-	-	-
Central Tigray Zone	*	-	-	-	-	*	*	-	-
Mereb Lehe	*	-	-	-	-	*	*	-	-
Ahiferom	-	-	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-	-	-
Adwa	*	-	-	-	-	*	*	-	-
Laelay Maychew	-	-	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-	-
Kola Temben	*	-	-	-	-	-	-	-	-
Degua Temben	*	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	77	-	-	-	-	*	*	*	*
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-	-
Hawzen	*	-	-	-	-	*	*	-	-
Wukro	62	-	-	-	-	*	*	*	*
Atsbi Wenberta	*	-	-	-	-	-	-	-	-
South Tigray Zone	300	-	-	*	*	*	*	-	-
Seharte Samre	*	-	-	-	-	*	*	-	-
Enderta	248	-	-	-	-	*	*	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-	-
Ambalage	*	-	-	-	-	-	-	-	-
Endamehoni	*	-	-	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-	-	-	-
Alamata	*	-	-	-	-	-	-	-	-
Wofla	*	-	-	*	*	*	*	-	-

TABLE 6.5.3 RURAL BELG

Geographic Area	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	9749	273	2.8	4938	50.65	2852	29.25	68	0.7
West Tigray Zone	38	*	*	*	*	*	*	*	*
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	*	*	*	-	-	-	-
Tahtay Koraro	*	-	-	*	*	*	*	*	*
Medebay Zana	*	-	-	*	*	*	*	*	*
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	*	-	-	*	*	-	-	-	-
Central Tigray Zone	715	94	13.15	712	99.58	507	70.91	*	*
Mereb Lehe	57	*	*	57	100.00	34	59.65	*	*
Ahiferom	132	*	*	131	99.24	112	84.85	*	*
Werie Lehe	151	*	*	151	100.00	81	53.64	*	*
Adwa	*	-	-	*	*	*	*	-	-
Laelay Maychew	140	58	41.43	140	100.00	126	90	-	-
Tahtay Maychew	*	-	-	*	*	*	*	-	-
Naeder Adet	25	-	-	25	100.00	*	*	-	-
Kola Temben	*	-	-	*	*	*	*	-	-
Degua Temben	*	-	-	*	*	*	*	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	974	*	*	417	42.81	466	47.84	*	*
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	154	-	-	87	56.49	96	62.34	-	-
Ganta Afeshum	*	*	*	*	*	*	*	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	148	-	-	137	92.57	*	*	*	*
Atsbi Wenberta	612	*	*	141	23.04	217	35.46	*	*
South Tigray Zone	8022	171	2.13	3772	47.02	1869	23.3	59	0.74
Seharte Samre	*	*	*	*	*	*	*	-	-
Enderta	168	*	*	168	100.00	66	39.29	*	*
Hintalo Wajirat	1855	27	1.46	1312	70.73	848	45.71	*	*
Ambalage	787	*	*	758	96.32	*	*	*	*
Endamehoni	732	*	*	412	56.28	197	26.91	*	*
Rayaaazebo	2448	*	*	*	*	170	6.94	*	*
Alamata	531	-	-	242	45.57	*	*	*	*
Wofla	1207	*	*	568	47.06	133	11.02	*	*

TABLE 6.5.4 URBAN HOLDINGS

Geographic Area	Cereals								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Tigray Region	9142	399	4.36	375	4.1	3429	37.51	617	6.75
West Tigray Zone	2829	65	2.3	5	0.18	639	22.59	41	1.45
Kafta	598	-	-	-	-	*	*	4	0.67
Tahtay Adiyabo	1015	6	0.59	-	-	94	9.26	11	1.08
Laelay Adiyabo	213	13	6.1	-	-	105	49.3	10	4.69
Tahtay Koraro	96	5	5.21	2	2.08	70	72.92	7	7.29
Medebay Zana	212	19	8.96	*	*	151	71.23	6	2.83
Asegede Tsimbela	198	5	2.53	1	0.51	94	47.47	3	1.52
Tselemti	263	*	*	*	*	24	9.13	-	-
Welkait	225	14	6.22	-	-	57	25.33	-	-
Tsegede	10	*	*	-	-	3	30	-	-
Central Tigray Zone	3209	110	3.43	24	0.75	1923	59.93	400	12.46
Mereb Lehe	512	2	0.39	*	*	382	74.61	84	16.41
Ahiferom	303	10	3.3	9	2.97	218	71.95	27	8.91
Werie Lehe	305	35	11.48	*	*	242	79.34	71	23.28
Adwa	125	12	9.6	*	*	108	86.4	15	12
Laelay Maychew	779	23	2.95	3	0.39	459	58.92	126	16.17
Tahtay Maychew	99	14	14.14	-	-	45	45.45	27	27.27
Naeder Adet	147	*	*	-	-	100	68.03	23	15.65
Kola Temben	250	4	1.6	*	*	121	48.4	3	1.2
Degua Temben	75	3	4	-	-	40	53.33	7	9.33
Tanqu Abergele	615	*	*	*	*	208	33.82	*	*
East Tigray Zone	473	44	9.3	11	2.33	214	45.24	34	7.19
Gulumahada	21	9	42.86	*	*	1	4.76	-	-
Erob	1	-	-	-	-	*	*	*	*
Saesi Tsaedamba	48	2	4.17	*	*	34	70.83	1	2.08
Ganta Afeshum	17	3	17.65	1	5.88	15	88.24	1	5.88
Hawzen	128	4	3.13	*	*	86	67.19	10	7.81
Wukro	136	13	9.56	2	1.47	49	36.03	21	15.44
Atsbi Wenberta	124	*	*	6	4.84	30	24.19	*	*
South Tigray Zone	2475	173	6.99	333	13.45	619	25.01	139	5.62
Seharte Samre	269	6	2.23	*	*	193	71.75	27	10.04
Enderta	301	25	8.31	5	1.66	141	46.84	*	*
Hintalo Wajirat	442	78	17.65	8	1.81	113	25.57	29	6.56
Ambalage	10	*	*	1	10	3	30	1	10
Endamehoni	90	7	7.78	12	13.33	13	14.44	9	10
Rayaazebo	307	24	7.82	24	7.82	42	13.68	8	2.61
Alamata	912	22	2.41	261	28.62	80	8.77	63	6.91
Wofla	145	10	6.9	8	5.52	34	23.45	-	-
Mekele Zone	*	*	*	*	*	*	*	*	*
Mekele	*	*	*	*	*	*	*	*	*

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

Geographic Area	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	44930	186	0.41	1970	4.38	8662	19.28	599	1.33
West Tigray Zone	5902	20	0.34	20	0.34	1164	19.72	*	*
Kafta	207	-	-	-	-	15	7.25	-	-
Tahtay Adiyabo	521	*	*	-	-	79	15.16	-	-
Lalay Adiyabo	474	-	-	*	*	90	18.99	-	-
Tahtay Koraro	831	*	*	*	*	95	11.43	-	-
Medebay Zana	1054	*	*	*	*	241	22.87	*	*
Asegede Tsimbela	596	-	-	-	-	223	37.42	-	-
Tselemti	675	-	-	-	-	36	5.33	-	-
Welkait	1018	*	*	-	-	89	8.74	-	-
Tsegede	526	-	-	-	-	296	56.27	-	-
Central Tigray Zone	15974	70	0.44	451	2.82	3470	21.72	368	2.3
Mereb Lehe	200	*	*	*	*	110	55	*	*
Ahiferom	1837	*	*	*	*	479	26.08	47	2.56
Werie Lehe	2223	*	*	163	7.33	502	22.58	*	*
Adwa	1021	-	-	*	*	547	53.57	28	2.74
Lalay Maychew	3633	3	0.08	*	*	633	17.42	63	1.73
Tahtay Maychew	1846	*	*	*	*	262	14.19	*	*
Naeder Adet	1566	*	*	*	*	304	19.41	*	*
Kola Temben	1036	*	*	*	*	118	11.39	*	*
Degua Temben	2034	*	*	*	*	427	20.99	*	*
Tanqu Abergele	577	*	*	*	*	91	15.77	*	*
East Tigray Zone	6826	19	0.28	58	0.85	2598	38.06	39	0.57
Gulumahada	189	-	-	*	*	51	26.98	*	*
Erob	16	-	-	*	*	8	50	*	*
Saesi Tsaedamba	1232	*	*	*	*	651	52.84	*	*
Ganta Afeshum	683	4	0.59	*	*	343	50.22	*	*
Hawzen	2138	*	*	*	*	467	21.84	*	*
Wukro	1199	*	*	*	*	328	27.36	*	*
Atsbi Wenberta	1368	*	*	*	*	751	54.9	8	0.58
South Tigray Zone	16129	77	0.48	1441	8.93	1429	8.86	173	1.07
Seharte Samre	2556	-	-	63	2.46	214	8.37	*	*
Enderta	1795	*	*	106	5.91	40	2.23	*	*
Hintalo Wajirat	2292	-	-	509	22.21	264	11.52	*	*
Ambalage	2601	*	*	201	7.73	197	7.57	*	*
Endamehoni	2113	*	*	139	6.58	217	10.27	*	*
Rayaazebo	1044	*	*	*	*	171	16.38	*	*
Alamata	860	*	*	32	3.72	81	9.42	1	0.12
Wofla	2866	34	1.19	354	12.35	245	8.55	*	*
Mekele Zone	*	-	-	-	-	*	*	*	*
Mekele	*	-	-	-	-	*	*	*	*

TABLE 6.6.1 RURAL HOLDINGS

Geographic Area	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	44201	179	0.4	1959	4.43	8529	19.3	583	1.32
West Tigray Zone	5811	20	0.34	20	0.34	1153	19.84	*	*
Kafta	207	-	-	-	-	15	7.25	-	-
Tahtay Adiyabo	498	*	*	-	-	77	15.46	-	-
Lalay Adiyabo	473	-	-	*	*	90	19.03	-	-
Tahtay Koraro	805	*	*	*	*	90	11.18	-	-
Medebay Zana	1035	*	*	*	*	239	23.09	*	*
Asegede Tsimbela	595	-	-	-	-	222	37.31	-	-
Tselemti	674	-	-	-	-	36	5.34	-	-
Welkait	1001	*	*	-	-	89	8.89	-	-
Tsegede	522	-	-	-	-	295	56.51	-	-
Central Tigray Zone	15677	68	0.43	450	2.87	3391	21.63	357	2.28
Mereb Lehe	179	*	*	*	*	88	49.16	*	*
Ahiferom	1794	*	*	*	*	471	26.25	46	2.56
Werie Lehe	2208	*	*	163	7.38	492	22.28	*	*
Adwa	1011	-	-	*	*	538	53.21	28	2.77
Lalay Maychew	3494	*	*	*	*	611	17.49	54	1.55
Tahtay Maychew	1832	*	*	*	*	257	14.03	*	*
Naeder Adet	1543	*	*	*	*	304	19.7	*	*
Kola Temben	1029	*	*	*	*	116	11.27	*	*
Degua Temben	2012	*	*	*	*	423	21.02	*	*
Tanqu Abergele	575	*	*	*	*	91	15.83	*	*
East Tigray Zone	6731	18	0.27	56	0.83	2572	38.21	38	0.56
Gulumahada	187	-	-	*	*	50	26.74	*	*
Erob	16	-	-	*	*	8	50	*	*
Saesi Tsaedamba	1231	*	*	*	*	651	52.88	*	*
Ganta Afeshum	681	4	0.59	*	*	341	50.07	*	*
Hawzen	2118	*	*	-	-	464	21.91	*	*
Wukro	1192	*	*	*	*	327	27.43	*	*
Atsbi Wenberta	1304	*	*	*	*	731	56.06	8	0.61
South Tigray Zone	15982	72	0.45	1433	8.97	1413	8.84	170	1.06
Seharte Samre	2548	-	-	63	2.47	212	8.32	*	*
Enderta	1772	*	*	106	5.98	39	2.2	*	*
Hintalo Wajirat	2235	-	-	509	22.77	262	11.72	*	*
Ambalage	2596	*	*	201	7.74	197	7.59	*	*
Endamehoni	2102	*	*	138	6.57	215	10.23	*	*
Rayazebo	1042	*	*	*	*	171	16.41	*	*
Alamata	844	*	*	26	3.08	78	9.24	-	-
Wofla	2842	*	*	353	12.42	238	8.37	*	*

TABLE 6.6.2 RURAL MEHER

Geographic Area	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	42715	162	0.38	860	2.01	8333	19.51	576	1.35
West Tigray Zone	5797	20	0.35	*	*	1151	19.86	*	*
Kafta	207	-	-	-	-	15	7.25	-	-
Tahtay Adiyabo	498	*	*	-	-	77	15.46	-	-
Laelay Adiyabo	465	-	-	-	-	90	19.35	-	-
Tahtay Koraro	799	*	*	-	-	88	11.01	-	-
Medebay Zana	1034	*	*	*	*	239	23.11	*	*
Asegede Tsimbela	595	-	-	-	-	222	37.31	-	-
Tselemti	674	-	-	-	-	36	5.34	-	-
Welkait	1001	*	*	-	-	89	8.89	-	-
Tsegede	522	-	-	-	-	295	56.51	-	-
Central Tigray Zone	15426	68	0.44	199	1.29	3370	21.85	355	2.3
Mereb Lehe	153	*	*	-	-	86	56.21	*	*
Ahiferom	1757	*	*	*	*	456	25.95	46	2.62
Werie Lehe	2126	*	*	81	3.81	492	23.14	*	*
Adwa	974	-	-	*	*	538	55.24	28	2.87
Laelay Maychew	3432	*	*	*	*	611	17.8	54	1.57
Tahtay Maychew	1828	*	*	*	*	257	14.06	*	*
Naeder Adet	1543	*	*	*	*	304	19.7	*	*
Kola Temben	1026	*	*	*	*	113	11.01	*	*
Degua Temben	2012	*	*	*	*	423	21.02	*	*
Tanqu Abergele	575	*	*	*	*	91	15.83	*	*
East Tigray Zone	6637	18	0.27	37	0.56	2555	38.5	38	0.57
Gulumahada	187	-	-	*	*	50	26.74	*	*
Erob	16	-	-	*	*	8	50	*	*
Saesi Tsaedamba	1215	*	*	*	*	648	53.33	*	*
Ganta Afeshum	681	4	0.59	*	*	341	50.07	*	*
Hawzen	2118	*	*	-	-	464	21.91	*	*
Wukro	1186	*	*	*	*	327	27.57	*	*
Atsbi Wenberta	1232	*	*	*	*	716	58.12	8	0.65
South Tigray Zone	14854	55	0.37	618	4.16	1257	8.46	165	1.11
Seharte Samre	2524	-	-	*	*	207	8.2	*	*
Enderta	1666	-	-	*	*	*	*	*	*
Hintalo Wajirat	1868	-	-	*	*	170	9.1	*	*
Ambalage	2516	*	*	121	4.81	194	7.71	*	*
Endamehoni	1809	*	*	42	2.32	184	10.17	*	*
Rayaaazebo	1042	*	*	*	*	171	16.41	*	*
Alamata	844	*	*	26	3.08	78	9.24	-	-
Wofla	2585	*	*	201	7.78	222	8.59	*	*

TABLE 6.6.2a Horse beans

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	14988	89	0.59	223	1.49	4599	30.68	168	1.12
West Tigray Zone	1687	*	*	*	*	607	35.98	*	*
Kafta	19	-	-	-	-	5	26.32	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	102	-	-	-	-	41	40.2	-	-
Tahtay Koraro	362	*	*	-	-	52	14.36	-	-
Medebay Zana	463	*	*	*	*	182	39.31	*	*
Asegede Tsimbela	71	-	-	-	-	*	*	-	-
Tselemti	42	-	-	-	-	*	*	-	-
Welkait	157	*	*	-	-	*	*	-	-
Tsegede	470	-	-	-	-	283	60.21	-	-
Central Tigray Zone	6988	34	0.49	11	0.16	2423	34.67	124	1.77
Mereb Lehe	89	-	-	-	-	55	61.8	*	*
Ahiferom	980	*	*	*	*	369	37.65	*	*
Werie Lehe	1012	*	*	*	*	395	39.03	*	*
Adwa	829	-	-	*	*	477	57.54	28	3.38
Laelay Maychew	1192	*	*	-	-	387	32.47	*	*
Tahtay Maychew	1194	*	*	-	-	221	18.51	*	*
Naeder Adet	536	*	*	*	*	211	39.37	*	*
Kola Temben	202	-	-	-	-	67	33.17	-	-
Degua Temben	954	*	*	-	-	242	25.37	*	*
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	1691	6	0.35	16	0.95	1027	60.73	14	0.83
Gulumahada	29	-	-	-	-	9	31.03	*	*
Erob	3	-	-	-	-	3	100.00	*	*
Saesi Tsaedamba	260	*	*	*	*	173	66.54	-	-
Ganta Afeshum	324	*	*	*	*	156	48.15	*	*
Hawzen	152	-	-	-	-	73	48.03	-	-
Wukro	198	*	*	*	*	101	51.01	-	-
Atsbi Wenberta	725	*	*	*	*	511	70.48	8	1.1
South Tigray Zone	4622	46	1	191	4.13	543	11.75	13	0.28
Seharte Samre	161	-	-	*	*	65	40.37	*	*
Enderta	18	-	-	-	-	*	*	-	-
Hintalo Wajirat	125	-	-	*	*	*	*	*	*
Ambalage	1535	*	*	48	3.13	136	8.86	*	*
Endamehoni	947	*	*	*	*	132	13.94	*	*
Rayaaazebo	-	-	-	-	-	-	-	-	-
Alamata	313	*	*	*	*	*	*	-	-
Wofla	1522	*	*	87	5.72	166	10.91	-	-

TABLE 6.6.2b Field peas

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	3398	7	0.21	80	2.35	736	21.66	31	0.91
West Tigray Zone	354	-	-	-	-	27	7.63	-	-
Kafta	*	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	-	-	-	-	*	*	-	-
Laelay Adiyabo	27	-	-	-	-	*	*	-	-
Tahtay Koraro	18	-	-	-	-	-	-	-	-
Medebay Zana	*	-	-	-	-	*	*	-	-
Asegede Tsimbela	*	-	-	-	-	*	*	-	-
Tselemti	210	-	-	-	-	*	*	-	-
Welkait	19	-	-	-	-	*	*	-	-
Tsegede	48	-	-	-	-	*	*	-	-
Central Tigray Zone	612	*	*	*	*	113	18.46	*	*
Mereb Lehe	7	-	-	-	-	*	*	-	-
Ahiferom	*	*	*	*	*	*	*	-	-
Werie Lehe	23	-	-	-	-	-	-	-	-
Adwa	31	-	-	-	-	18	58.06	-	-
Laelay Maychew	155	*	*	-	-	36	23.23	*	*
Tahtay Maychew	216	-	-	-	-	10	4.63	-	-
Naeder Adet	43	-	-	-	-	*	*	*	*
Kola Temben	20	-	-	-	-	*	*	-	-
Degua Temben	99	*	*	*	*	20	20.2	*	*
Tanqu Abergele	*	*	*	*	*	*	*	-	-
East Tigray Zone	1047	*	*	18	1.72	489	46.7	*	*
Gulumahada	124	-	-	-	-	34	27.42	*	*
Erob	8	-	-	*	*	3	37.5	-	-
Saesi Tsaedamba	427	*	*	*	*	225	52.69	*	*
Ganta Afeshum	123	-	-	*	*	84	68.29	*	*
Hawzen	58	-	-	-	-	21	36.21	-	-
Wukro	7	-	-	-	-	*	*	-	-
Atsbi Wenberta	300	-	-	-	-	120	40	-	-
South Tigray Zone	1384	*	*	*	*	106	7.66	*	*
Seharte Samre	*	-	-	-	-	-	-	-	-
Enderta	*	-	-	-	-	-	-	-	-
Hintalo Wajirat	157	-	-	*	*	*	*	*	*
Ambalage	259	-	-	-	-	*	*	-	-
Endamehoni	283	*	*	*	*	13	4.59	*	*
Rayazebo	*	-	-	*	*	*	*	-	-
Alamata	215	*	*	-	-	*	*	-	-
Wofla	331	-	-	*	*	30	9.06	*	*

TABLE 6.6.2c Haricot beans

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	2293	23	1	*	*	268	11.69	292	12.73
West Tigray Zone	101	*	*	-	-	59	58.42	-	-
Kafta	*	-	-	-	-	*	*	-	-
Tahtay Adiyabo	*	-	-	-	-	*	*	-	-
Laelay Adiyabo	*	-	-	-	-	*	*	-	-
Tahtay Koraro	*	-	-	-	-	*	*	-	-
Medebay Zana	*	-	-	-	-	*	*	-	-
Asegede Tsimbela	*	-	-	-	-	*	*	-	-
Tselemti	*	-	-	-	-	*	*	-	-
Welkait	*	*	*	-	-	*	*	-	-
Tsegede	*	-	-	-	-	*	*	-	-
Central Tigray Zone	1140	*	*	*	*	161	14.12	*	*
Mereb Lehe	13	-	-	-	-	*	*	-	-
Ahiferom	*	-	-	-	-	-	-	-	-
Werie Lehe	*	-	-	-	-	*	*	-	-
Adwa	*	-	-	-	-	*	*	-	-
Laelay Maychew	*	-	-	-	-	*	*	-	-
Tahtay Maychew	3	-	-	-	-	-	-	-	-
Naeder Adet	238	*	*	-	-	43	18.07	*	*
Kola Temben	*	*	*	*	*	31	*	*	*
Degua Temben	*	-	-	-	-	*	*	-	-
Tanqu Abergele	452	*	*	-	-	*	*	*	*
East Tigray Zone	15	-	-	-	-	*	*	-	-
Gulumahada	*	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	*	-	-	-	-	*	*	-	-
Hawzen	*	-	-	-	-	-	-	-	-
Wukro	*	-	-	-	-	*	*	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-	-
South Tigray Zone	1037	*	*	*	*	*	*	*	*
Seharte Samre	1000	-	-	-	-	*	*	*	*
Enderta	-	-	-	-	-	-	-	-	-
Hintalo Wajirat	*	-	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-	-	-
Rayaaazebo	*	*	*	-	-	-	-	-	-
Alamata	*	*	*	*	*	*	*	-	-
Wofla	-	-	-	-	-	-	-	-	-

TABLE 6.6.2d Chick peas

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	11159	20	0.18	387	3.47	1578	14.14	51	0.46
West Tigray Zone	3417	*	*	-	-	419	12.26	-	-
Kafta	187	-	-	-	-	*	*	-	-
Tahtay Adiyabo	479	*	*	-	-	71	14.82	-	-
Laelay Adiyabo	330	-	-	-	-	42	12.73	-	-
Tahtay Koraro	325	*	*	-	-	*	*	-	-
Medebay Zana	434	*	*	-	-	42	9.68	-	-
Asegede Tsimbela	468	-	-	-	-	169	36.11	-	-
Tselemti	384	-	-	-	-	*	*	-	-
Welkait	808	-	-	-	-	*	*	-	-
Tsegede	*	-	-	-	-	*	*	-	-
Central Tigray Zone	3292	*	*	165	5.01	354	10.75	34	1.03
Mereb Lehe	44	-	-	-	-	*	*	-	-
Ahiferom	492	*	*	*	*	51	10.37	*	*
Werie Lehe	818	-	-	76	9.29	76	9.29	*	*
Adwa	58	-	-	*	*	33	56.9	-	-
Laelay Maychew	567	-	-	*	*	74	13.05	*	*
Tahtay Maychew	276	-	-	*	*	25	9.06	-	-
Naeder Adet	640	-	-	-	-	37	5.78	-	-
Kola Temben	261	-	-	-	-	*	*	-	-
Degua Temben	*	-	-	*	*	*	*	-	-
Tanqu Abergele	58	-	-	-	-	-	-	-	-
East Tigray Zone	1512	*	*	*	*	469	31.02	*	*
Gulumahada	*	-	-	-	-	*	*	-	-
Erob	1	-	-	-	-	1	100.00	-	-
Saesi Tsaedamba	209	-	-	-	-	131	62.68	-	-
Ganta Afeshum	63	-	-	-	-	*	*	-	-
Hawzen	1002	*	*	-	-	231	23.05	*	*
Wukro	217	-	-	*	*	61	28.11	-	-
Atsbi Wenberta	*	-	-	-	-	*	*	-	-
South Tigray Zone	2937	-	-	220	7.49	336	11.44	*	*
Seharte Samre	764	-	-	*	*	70	9.16	-	-
Enderta	*	-	-	-	-	-	-	-	-
Hintalo Wajirat	186	-	-	*	*	*	*	-	-
Ambalage	244	-	-	*	*	*	*	-	-
Endamehoni	230	-	-	*	*	*	*	-	-
Rayazebo	936	-	-	*	*	167	17.84	*	*
Alamata	263	-	-	20	7.6	*	*	-	-
Wofla	217	-	-	45	20.74	*	*	-	-

TABLE 6.6.2e Lentils

Geographic Area	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Tigray Region	4587	12	0.26	125	2.73	419	9.13	*	*
West Tigray Zone	*	-	-	-	-	*	*	-	-
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	-	-	-	-	*	*	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-
Central Tigray Zone	1165	*	*	*	*	128	10.99	*	*
Mereb Lehe	-	-	-	-	-	-	-	-	-
Ahiferom	176	-	-	*	*	*	*	*	*
Werie Lehe	191	-	-	*	*	*	*	-	-
Adwa	11	-	-	-	-	6	54.55	-	-
Laelay Maychew	156	-	-	-	-	12	7.69	-	-
Tahtay Maychew	22	-	-	-	-	-	-	-	-
Naeder Adet	43	-	-	-	-	*	*	-	-
Kola Temben	*	-	-	-	-	*	*	-	-
Degua Temben	370	*	*	-	-	59	15.95	-	-
Tanqu Abergele	57	*	*	*	*	*	*	-	-
East Tigray Zone	544	*	*	*	*	162	29.78	*	*
Gulumahada	28	-	-	*	*	6	21.43	-	-
Erob	4	-	-	-	-	2	50	-	-
Saesi Tsaedamba	40	-	-	-	-	20	50	-	-
Ganta Afeshum	166	*	*	-	-	62	37.35	-	-
Hawzen	*	-	-	-	-	-	-	-	-
Wukro	147	*	*	-	-	*	*	*	*
Atsbi Wenberta	152	-	-	-	-	55	36.18	-	-
South Tigray Zone	2875	*	*	111	3.86	124	4.31	*	*
Seharte Samre	226	-	-	*	*	*	*	-	-
Enderta	512	-	-	*	*	*	*	-	-
Hintalo Wajirat	938	-	-	*	*	29	3.09	*	*
Ambalage	455	*	*	*	*	*	*	-	-
Endamehoni	332	-	-	*	*	30	9.04	-	-
Rayaazebo	*	-	-	*	*	-	-	-	-
Alamata	37	-	-	-	-	*	*	-	-
Wofla	371	-	-	16	4.31	*	*	-	-

TABLE 6.6.2f Vetch

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	5795	*	*	*	*	632	10.91	26	0.45
West Tigray Zone	181	-	-	-	-	*	*	-	-
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-	-
Tahtay Koraro	*	-	-	-	-	*	*	-	-
Medebay Zana	103	-	-	-	-	*	*	-	-
Asegede Tsimbela	*	-	-	-	-	*	*	-	-
Tselemti	*	-	-	-	-	*	*	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-
Central Tigray Zone	1872	*	*	-	-	135	7.21	*	*
Mereb Lehe	*	*	*	-	-	*	*	-	-
Ahiferom	*	-	-	-	-	*	*	-	-
Werie Lehe	57	-	-	-	-	-	-	-	-
Adwa	*	-	-	-	-	*	*	-	-
Laelay Maychew	1123	-	-	-	-	66	5.88	*	*
Tahtay Maychew	103	-	-	-	-	-	-	-	-
Naeder Adet	*	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-	-
Degua Temben	431	-	-	-	-	*	*	*	*
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	1799	*	*	*	*	391	21.73	*	*
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	278	-	-	-	-	97	34.89	-	-
Ganta Afeshum	*	-	-	-	-	*	*	-	-
Hawzen	894	*	*	-	-	136	15.21	*	*
Wukro	587	-	-	*	*	135	23	*	*
Atsbi Wenberta	*	-	-	-	-	*	*	-	-
South Tigray Zone	1943	-	-	*	*	94	4.84	*	*
Seharte Samre	282	-	-	-	-	*	*	-	-
Enderta	1017	-	-	*	*	*	*	*	*
Hintalo Wajirat	426	-	-	*	*	*	*	-	-
Ambalage	*	-	-	*	*	-	-	-	-
Endamehoni	11	-	-	-	-	*	*	-	-
Rayaazebo	48	-	-	*	*	-	-	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	141	-	-	*	*	*	*	-	-

TABLE 6.6.2g Soya beans

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	51	*	*	-	-	*	*	-	-
West Tigray Zone		-	-	-	-	-	-	-	-
Kafta		-	-	-	-	-	-	-	-
Tahtay Adiyabo		-	-	-	-	-	-	-	-
Lalay Adiyabo		-	-	-	-	-	-	-	-
Tahtay Koraro		-	-	-	-	-	-	-	-
Medebay Zana		-	-	-	-	-	-	-	-
Asegede Tsimbela		-	-	-	-	-	-	-	-
Tselemti		-	-	-	-	-	-	-	-
Welkait		-	-	-	-	-	-	-	-
Tsegede		-	-	-	-	-	-	-	-
Central Tigray Zone	31	*	*	-	-	*	*	-	-
Mereb Lehe		-	-	-	-	-	-	-	-
Ahiferom		-	-	-	-	-	-	-	-
Werie Lehe	*	-	-	-	-	-	-	-	-
Adwa		-	-	-	-	-	-	-	-
Lalay Maychew		-	-	-	-	-	-	-	-
Tahtay Maychew	*	-	-	-	-	-	-	-	-
Naeder Adet		-	-	-	-	-	-	-	-
Kola Temben	*	-	-	-	-	-	-	-	-
Degua Temben	*	*	*	-	-	*	*	-	-
Tanqu Abergele		-	-	-	-	-	-	-	-
East Tigray Zone	*	-	-	-	-	*	*	-	-
Gulumahada	*	-	-	-	-	*	*	-	-
Erob		-	-	-	-	-	-	-	-
Saesi Tsaedamba		-	-	-	-	-	-	-	-
Ganta Afeshum		-	-	-	-	-	-	-	-
Hawzen	*	-	-	-	-	*	*	-	-
Wukro		-	-	-	-	-	-	-	-
Atsbi Wenberta		-	-	-	-	-	-	-	-
South Tigray Zone	*	-	-	-	-	*	*	-	-
Seharte Samre		-	-	-	-	-	-	-	-
Enderta		-	-	-	-	-	-	-	-
Hintalo Wajirat	*	-	-	-	-	*	*	-	-
Ambalage	*	-	-	-	-	*	*	-	-
Endamehoni	*	-	-	-	-	*	*	-	-
Rayaazebo		-	-	-	-	-	-	-	-
Alamata		-	-	-	-	-	-	-	-
Wofla	*	-	-	-	-	-	-	-	-

TABLE 6.6.2h Fenugreek

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	444	*	*	9	2.03	86	19.37	*	*
West Tigray Zone	54	*	*	-	-	23	42.59	-	-
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	-	-	-	-	-	-	-	-
Tahtay Koraro	*	-	-	-	-	*	*	-	-
Medebay Zana	*	*	*	-	-	*	*	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	*	-	-	-	-	-	-	-	-
Central Tigray Zone	327	*	*	*	*	51	15.6	-	-
Mereb Lehe	*	-	-	-	-	-	-	-	-
Ahiferom	*	-	-	*	*	*	*	-	-
Werie Lehe	*	-	-	-	-	-	-	-	-
Adwa	*	-	-	*	*	-	-	-	-
Laelay Maychew	227	-	-	-	-	36	15.86	-	-
Tahtay Maychew	*	-	-	-	-	*	*	-	-
Naeder Adet	*	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-	-
Degua Temben	61	*	*	-	-	*	*	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	24	-	-	*	*	8	33.33	*	*
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	-	-	*	*	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-	-
Hawzen	*	-	-	-	-	-	-	-	-
Wukro	19	-	-	-	-	*	*	*	*
Atsbi Wenberta	*	-	-	*	*	*	*	-	-
South Tigray Zone	40	-	-	*	*	*	*	-	-
Seharte Samre	*	-	-	-	-	-	-	-	-
Enderta	18	-	-	*	*	*	*	-	-
Hintalo Wajirat	4	-	-	-	-	*	*	-	-
Ambalage	*	-	-	*	*	*	*	-	-
Endamehoni	*	-	-	-	-	*	*	-	-
Rayazebo	*	-	-	*	*	-	-	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	*	-	-	*	*	*	*	-	-

TABLE 6.6.3 RURAL BELG

Geographic Area	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	1487	*	*	1099	73.91	196	13.18	*	*
West Tigray Zone	*	-	-	*	*	*	*	-	-
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	-	-	*	*	-	-	-	-
Tahtay Koraro	*	-	-	*	*	*	*	-	-
Medebay Zana	*	-	-	*	*	*	*	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-
Central Tigray Zone	251	-	-	251		20	7.97	*	*
Mereb Lehe	*	-	-	*	*	*	*	-	-
Ahiferom	*	-	-	*	*	*	*	-	-
Werie Lehe	82	-	-	82	100.00	-	-	*	*
Adwa	*	-	-	*	*	*	*	-	-
Laelay Maychew	*	-	-	*	*	-	-	-	-
Tahtay Maychew	*	-	-	*	*	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-	-
Kola Temben	*	-	-	*	*	*	*	-	-
Degua Temben	-	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	94	-	-	*	*	17	18.09	-	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	*	*	*	*	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	*	-	-	*	*	-	-	-	-
Atsbi Wenberta	*	-	-	*	*	*	*	-	-
South Tigray Zone	1128	*	*	815	72.25	157	13.92	*	*
Seharte Samre	*	-	-	*	*	*	*	-	-
Enderta	106	*	*	97	91.51	*	*	-	-
Hintalo Wajirat	366	-	-	365	99.73	*	*	*	*
Ambalage	80	-	-	80	100.00	*	*	-	-
Endamehoni	293	-	-	96	32.76	*	*	-	-
Rayaazebo	-	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	257	-	-	152	59.14	16	6.23	-	-

TABLE 6.6.4 URBAN HOLDINGS

Geographic Area	Pulses								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	729	7	0.96	11	1.51	133	18.24	16	16
West Tigray Zone	91	-	-	-	-	11	12.09	*	*
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	23	-	-	-	-	*	*	-	-
Laelay Adiyabo	1	-	-	-	-	-	-	-	-
Tahtay Koraro	26	-	-	-	-	6	23.08	-	-
Medebay Zana	19	-	-	-	-	2	10.53	*	*
Asegede Tsimbela	*	-	-	-	-	*	*	-	-
Tselemti	*	-	-	-	-	-	-	-	-
Welkait	16	-	-	-	-	-	-	-	-
Tsegede	3	-	-	-	-	*	*	-	-
Central Tigray Zone	297	2	0.67	*	*	80	26.94	11	11
Mereb Lehe	*	-	-	-	-	*	*	-	-
Ahiferom	43	*	*	*	*	8	18.6	*	*
Werie Lehe	15	-	-	-	-	10	66.67	*	*
Adwa	10	-	-	-	-	9	90	*	*
Laelay Maychew	139	1	0.72	*	*	21	15.11	10	7.19
Tahtay Maychew	15	*	*	-	-	4	26.67	*	*
Naeder Adet	23	-	-	-	-	-	-	-	-
Kola Temben	6	-	-	-	-	2	33.33	-	-
Degua Temben	22	1	4.55	-	-	3	13.64	*	*
Tanqu Abergele	*	-	-	-	-	-	-	-	-
East Tigray Zone	95	*	*	*	*	27	28.42	*	*
Gulumahada	*	-	-	*	*	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	1	-	-	-	-	*	*	*	*
Ganta Afeshum	2	-	-	-	-	1	50	-	-
Hawzen	20	*	*	*	*	4	20	*	*
Wukro	7	-	-	-	-	1	14.29	*	*
Atsbi Wenberta	64	-	-	*	*	*	*	-	-
South Tigray Zone	147	4	2.72	8	5.44	16	10.88	3	2.04
Seharte Samre	8	-	-	-	-	*	*	*	*
Enderta	23	-	-	-	-	*	*	-	-
Hintalo Wajirat	57	-	-	-	-	2	3.51	-	-
Ambalage	5	-	-	*	*	*	*	*	*
Endamehoni	11	*	*	*	*	1	9.09	*	*
Rayaazebo	2	-	-	-	-	-	-	-	-
Alamata	17	-	-	6	35.29	*	*	1	5.88
Wofla	24	4	16.67	1	4.17	7	29.17	*	*
Mekele Zone	*	-	-	-	-	*	*	*	*
Mekele	*	-	-	-	-	*	*	*	*

TABLE 6.7: AREA OF LAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Oil Seeds								
	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	31740	74	0.23	7	0.02	2256	7.11	32	0.1
West Tigray Zone	26402	*	*	*	*	1812	6.86	20	0.08
Kafta	13360	*	*	*	*	394	2.95	11	0.08
Tahtay Adiyabo	1199	-	-	-	-	133	11.09	*	*
Laelay Adiyabo	428	-	-	-	-	32	7.48	-	-
Tahtay Koraro	114	*	*	-	-	*	*	2	1.75
Medebay Zana	164	-	-	-	-	20	12.2	-	-
Asegede Tsimbela	1603	-	-	-	-	*	*	-	-
Tselemti	1575	*	*	-	-	*	*	-	-
Welkait	4429	*	*	-	-	244	5.51	-	-
Tsegede	3529	-	-	*	*	*	*	-	-
Central Tigray Zone	2753	*	*	*	*	266	9.66	*	*
Mereb Lehe	64	*	*	-	-	16	25	-	-
Ahiferom	111	-	-	-	-	*	*	*	*
Werie Lehe	344	*	*	-	-	*	*	-	-
Adwa	80	*	*	-	-	13	16.25	-	-
Laelay Maychew	131	*	*	-	-	21	16.03	*	*
Tahtay Maychew	124	*	*	-	-	17	13.71	-	-
Naeder Adet	536	-	-	-	-	20	3.73	-	-
Kola Temben	407	*	*	-	-	24	5.9	-	-
Degua Temben	236	-	-	-	-	17	7.2	-	-
Tanqu Abergele	721	*	*	*	*	101	14.01	-	-
East Tigray Zone	719	4	0.56	*	*	121	16.83	*	*
Gulumahada	50	*	*	*	*	12	24	*	*
Erob	2	-	-	*	*	1	50	-	-
Saesi Tsaedamba	104	-	-	-	-	44	42.31	-	-
Ganta Afeshum	47	*	*	-	-	15	31.91	-	-
Hawzen	159	*	*	-	-	17	10.69	*	*
Wukro	290	*	*	-	-	11	3.79	-	-
Atsbi Wenberta	68	*	*	-	-	21	30.88	-	-
South Tigray Zone	1799	11	0.61	*	*	57	3.17	*	*
Seharte Samre	710	*	*	*	*	25	3.52	-	-
Enderta	591	-	-	-	-	*	*	-	-
Hintalo Wajirat	296	*	*	-	-	*	*	*	*
Ambalage	51	-	-	-	-	*	*	-	-
Endamehoni	40	-	-	-	-	*	*	-	-
Rayaaazebo	6	-	-	-	-	*	*	-	-
Alamata	31	*	*	-	-	*	*	-	-
Wofla	75	*	*	*	*	*	*	-	-
Mekele Zone	*	-	-	*	*	*	*	*	*
Mekele	*	-	-	*	*	*	*	*	*

TABLE 6.7.1 RURAL HOLDINGS

Geographic Area	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	30647	52	0.17	6	0.02	2242	7.32	19	0.06
West Tigray Zone	25433	*	*	*	*	1807	7.1	*	*
Kafta	12586	*	*	-	-	394	3.13	-	-
Tahtay Adiyabo	1124	-	-	-	-	132	11.74	*	*
Laelay Adiyabo	427	-	-	-	-	32	7.49	-	-
Tahtay Koraro	112	*	*	-	-	*	*	-	-
Medebay Zana	159	-	-	-	-	20	12.58	-	-
Asegedè Tsimbela	1602	-	-	-	-	*	*	-	-
Tselemti	1549	*	*	-	-	*	*	-	-
Welkait	4347	*	*	-	-	240	5.52	-	-
Tsegede	3528	-	-	*	*	*	*	-	-
Central Tigray Zone	2723	*	*	*	*	261	9.59	*	*
Mereb Lehe	59	*	*	-	-	14	23.73	-	-
Ahiferom	109	-	-	-	-	*	*	*	*
Werie Lehe	344	*	*	-	-	*	*	-	-
Adwa	80	*	*	-	-	13	16.25	-	-
Laelay Maychew	130	*	*	-	-	21	16.15	*	*
Tahtay Maychew	124	*	*	-	-	17	13.71	-	-
Naeder Adet	531	-	-	-	-	20	3.77	-	-
Kola Temben	404	*	*	-	-	22	5.45	-	-
Degua Temben	235	-	-	-	-	17	7.23	-	-
Tanqu Abergele	708	*	*	*	*	101	14.27	-	-
East Tigray Zone	711	4	0.56	*	*	121	17.02	*	*
Gulumahada	49	*	*	*	*	12	24.49	*	*
Erob	2	-	-	*	*	1	50	-	-
Saesi Tsaedamba	104	-	-	-	-	44	42.31	-	-
Ganta Afeshum	47	*	*	-	-	15	31.91	-	-
Hawzen	156	*	*	-	-	17	10.9	*	*
Wukro	285	-	-	-	-	11	3.86	-	-
Atsbi Wenberta	67	*	*	-	-	20	29.85	-	-
South Tigray Zone	1780	11	0.62	*	*	53	2.98	*	*
Seharte Samre	706	*	*	*	*	24	3.4	-	-
Enderta	581	-	-	-	-	*	*	-	-
Hintalo Wajirat	291	-	-	-	-	*	*	*	*
Ambalage	51	-	-	-	-	*	*	-	-
Endamehoni	40	-	-	-	-	*	*	-	-
Rayaazebo	6	-	-	-	-	*	*	-	-
Alamata	31	*	*	-	-	*	*	-	-
Wofla	75	*	*	*	*	*	*	-	-

TABLE 6.7.2 RURAL MEHER

Geographic Area	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	30634	52	0.17	6	0.02	2240	7.31	19	0.06
West Tigray Zone	25433	*	*	*	*	1807	7.1	*	*
Kafta	12586	*	*	-	-	394	3.13	-	-
Tahtay Adiyabo	1124	-	-	-	-	132	11.74	*	*
Laelay Adiyabo	427	-	-	-	-	32	7.49	-	-
Tahtay Koraro	112	*	*	-	-	*	*	-	-
Medebay Zana	159	-	-	-	-	20	12.58	-	-
Asegede Tsimbela	1602	-	-	-	-	*	*	-	-
Tselemti	1549	*	*	-	-	*	*	-	-
Welkait	4347	*	*	-	-	240	5.52	-	-
Tsegede	3528	-	-	*	*	*	*	-	-
Central Tigray Zone	2723	*	*	*	*	261	9.59	*	*
Mereb Lehe	59	*	*	-	-	14	23.73	-	-
Ahiferom	109	-	-	-	-	*	*	*	*
Werie Lehe	344	*	*	-	-	*	*	-	-
Adwa	80	*	*	-	-	13	16.25	-	-
Laelay Maychew	130	*	*	-	-	21	16.15	*	*
Tahtay Maychew	124	*	*	-	-	17	13.71	-	-
Naeder Adet	531	-	-	-	-	20	3.77	-	-
Kola Temben	404	*	*	-	-	22	5.45	-	-
Degua Temben	235	-	-	-	-	17	7.23	-	-
Tanqu Abergele	708	*	*	*	*	101	14.27	-	-
East Tigray Zone	706	4	0.57	*	*	120	17	*	*
Gulumahada	49	*	*	*	*	12	24.49	*	*
Erob	2	-	-	*	*	1	50	-	-
Saesi Tsaedamba	102	-	-	-	-	44	43.14	-	-
Ganta Afeshum	47	*	*	-	-	15	31.91	-	-
Hawzen	156	*	*	-	-	17	10.9	*	*
Wukro	285	-	-	-	-	11	3.86	-	-
Atsbi Wenberta	64	*	*	-	-	20	31.25	-	-
South Tigray Zone	1772	11	0.62	*	*	52	2.93	*	*
Seharte Samre	706	*	*	*	*	24	3.4	-	-
Enderta	581	-	-	-	-	*	*	-	-
Hintalo Wajirat	290	-	-	-	-	*	*	*	*
Ambalage	51	-	-	-	-	*	*	-	-
Endamehoni	35	-	-	-	-	*	*	-	-
Rayaaazebo	6	-	-	-	-	*	*	-	-
Alamata	31	*	*	-	-	*	*	-	-
Wofla	72	*	*	*	*	*	*	-	-

TABLE 6.7.2a Nueg

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	5135	10	0.19	*	*	567	11.04	*	*
West Tigray Zone	4242	*	*	*	*	505	11.9	-	-
Kafta	174	-	-	-	-	23	13.22	-	-
Tahtay Adiyabo	*	-	-	-	-	*	*	-	-
Laelay Adiyabo	163	-	-	-	-	*	*	-	-
Tahtay Koraro	67	*	*	-	-	4	5.97	-	-
Medebay Zana	123	-	-	-	-	*	*	-	-
Asegede Tsimbela	942	-	-	-	-	20	2.12	-	-
Tselemti	1414	-	-	-	-	*	*	-	-
Welkait	931	*	*	-	-	94	10.1	-	-
Tsegede	416	-	-	*	*	*	*	-	-
Central Tigray Zone	858	*	*	-	-	60	6.99	*	*
Mereb Lehe	5	-	-	-	-	3	60	-	-
Ahiferom	*	-	-	-	-	*	*	-	-
Werie Lehe	19	-	-	-	-	*	*	*	*
Adwa	21	-	-	-	-	*	*	-	-
Laelay Maychew	65	*	*	-	-	*	*	-	-
Tahtay Maychew	92	*	*	-	-	14	21.54	*	*
Naeder Adet	405	-	-	-	-	11	11.96	-	-
Kola Temben	230	-	-	-	-	*	*	-	-
Degua Temben	-	-	-	-	-	*	*	-	-
Tanqu Abergele	11	-	-	-	-	*	*	-	-
East Tigray Zone	13	*	*	-	-	*	*	-	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	*	-	-	-	-	-	-	-	-
Hawzen	*	*	*	-	-	*	*	-	-
Wukro	*	-	-	-	-	*	*	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-	-
South Tigray Zone	22	*	*	-	-	-	-	-	-
Seharte Samre	*	-	-	-	-	-	-	-	-
Enderta	*	-	-	-	-	-	-	-	-
Hintalo Wajirat	*	-	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-	-	-	-
Alamata	*	*	*	-	-	-	-	-	-
Wofla	*	*	*	-	-	-	-	-	-

TABLE 6.7.2b Linseed

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	4318	8	0.19	*	*	376	8.71	5	0.12
West Tigray Zone	540	*	*	-	-	79	14.63	-	-
Kafta	4	-	-	-	-	*	*	-	-
Tahtay Adiyabo	3	-	-	-	-	*	*	-	-
Laelay Adiyabo	176	-	-	-	-	13	7.39	-	-
Tahtay Koraro	42	-	-	-	-	*	*	-	-
Medebay Zana	37	-	-	-	-	*	*	-	-
Asegede Tsimbela	56	-	-	-	-	*	*	-	-
Tselemti	66	*	*	-	-	*	*	-	-
Welkait	31	-	-	-	-	*	*	-	-
Tsegede	126	-	-	-	-	*	*	-	-
Central Tigray Zone	1603	*	*	*	*	158	9.86	*	*
Mereb Lehe	52	*	*	-	-	10	19.23	-	-
Ahiferom	99	-	-	-	-	*	*	-	-
Werie Lehe	316	-	-	-	-	*	*	-	-
Adwa	45	-	-	-	-	10	22.22	-	-
Laelay Maychew	64	-	-	-	-	7	10.94	*	*
Tahtay Maychew	30	-	-	-	-	*	*	-	-
Naeder Adet	80	-	-	-	-	*	*	-	-
Kola Temben	139	-	-	-	-	*	*	-	-
Degua Temben	235	-	-	-	-	17	7.23	-	-
Tanqu Abergele	542	-	-	*	*	*	*	-	-
East Tigray Zone	679	*	*	*	*	108	15.91	*	*
Gulumahada	49	*	*	*	*	12	24.49	*	*
Erob	2	-	-	*	*	1	50	-	-
Saesi Tsaedamba	98	-	-	-	-	42	42.86	-	-
Ganta Afeshum	41	-	-	-	-	10	24.39	-	-
Hawzen	145	-	-	-	-	13	8.97	*	*
Wukro	280	-	-	-	-	10	3.57	-	-
Atsbi Wenberta	64	*	*	-	-	20	31.25	-	-
South Tigray Zone	1496	*	*	*	*	33	2.21	*	*
Seharte Samre	497	*	*	*	*	*	*	-	-
Enderta	578	-	-	-	-	*	*	-	-
Hintalo Wajirat	272	-	-	-	-	*	*	*	*
Ambalage	46	-	-	-	-	-	-	-	-
Endamehoni	35	-	-	-	-	*	*	-	-
Rayaaazebo	5	-	-	-	-	-	-	-	-
Alamata	11	-	-	-	-	-	-	-	-
Wofla	54	*	*	*	*	*	*	-	-

TABLE 6.7.2c Sufflower

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	45	*	*	-	-	19	42.22	-	-
West Tigray Zone	*	-	-	-	-	*	*	-	-
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	*	-	-	-	-	*	*	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-
Central Tigray Zone	7	*	*	-	-	3	42.86	-	-
Mereb Lehe	*	-	-	-	-	*	*	-	-
Ahiferom	*	-	-	-	-	-	-	-	-
Werie Lehe	*	*	*	-	-	-	-	-	-
Adwa	*	-	-	-	-	*	*	-	-
Laelay Maychew	*	-	-	-	-	*	*	-	-
Tahtay Maychew	*	-	-	-	-	*	*	-	-
Naeder Adet	*	-	-	-	-	*	*	-	-
Kola Temben	-	-	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	*	-	-	-	-	*	*	*	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	*	-	-	-	-	*	*	-	-
Hawzen	*	-	-	-	-	*	*	-	-
Wukro	-	-	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-	-
South Tigray Zone	36	*	*	-	-	14	38.89	-	-
Seharte Samre	*	-	-	-	-	*	*	-	-
Enderta	-	-	-	-	-	-	-	-	-
Hintalo Wajirat	*	-	-	-	-	-	-	-	-
Ambalage	*	-	-	-	-	*	*	-	-
Endamehoni	-	-	-	-	-	-	-	-	-
Rayaaazebo	*	-	-	-	-	*	*	-	-
Alamata	*	*	*	-	-	*	*	-	-
Wofla	*	*	*	-	-	-	-	-	-

TABLE 6.7.2d Sesame

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	21094	*	*	-	-	1260	5.97	*	*
West Tigray Zone	20624	*	*	-	-	1214	5.89	*	*
Kafta	12406	*	*	-	-	370	2.98	-	-
Tahtay Adiyabo	1106	-	-	-	-	129	11.66	*	*
Laelay Adiyabo	*	-	-	-	-	*	*	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	604	-	-	-	-	*	*	-	-
Tselemti	*	-	-	-	-	*	*	-	-
Welkait	3377	-	-	-	-	144	4.26	-	-
Tsegede	2979	-	-	-	-	*	*	-	-
Central Tigray Zone	252	*	*	-	-	*	*	-	-
Mereb Lehe	*	-	-	-	-	*	*	-	-
Ahiferom	*	-	-	-	-	*	*	-	-
Werie Lehe	*	-	-	-	-	-	-	-	-
Adwa	*	-	-	-	-	-	-	-	-
Laelay Maychew	-	-	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-	-	-
Naeder Adet	*	-	-	-	-	-	-	-	-
Kola Temben	*	*	*	-	-	*	*	-	-
Degua Temben	-	-	-	-	-	-	-	-	-
Tanqu Abergele	151	*	*	-	-	*	*	-	-
East Tigray Zone	-	-	-	-	-	-	-	-	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-	-
South Tigray Zone	217	-	-	-	-	*	*	-	-
Seharte Samre	204	-	-	-	-	*	*	-	-
Enderta	-	-	-	-	-	-	-	-	-
Hintalo Wajirat	*	-	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-	-	-
Rayaaazebo	*	-	-	-	-	*	*	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	*	-	-	-	-	-	-	-	-

TABLE 6.7.2e Rapeseed

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	31	*	*	-	-	15	48.39	-	-
West Tigray Zone	15	-	-	-	-	7	46.67	-	-
Kafta	*	-	-	-	-	*	*	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	*	-	-	-	-	-	-	-	-
Welkait	*	-	-	-	-	-	-	-	-
Tsegede	*	-	-	-	-	*	*	-	-
Central Tigray Zone	*	*	*	-	-	*	*	-	-
Mereb Lehe	*	-	-	-	-	-	-	-	-
Ahiferom	*	-	-	-	-	*	*	-	-
Werie Lehe	-	-	-	-	-	-	-	-	-
Adwa	*	*	*	-	-	-	-	-	-
Laelay Maychew	-	-	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-	-	-
Tanqu Abergele	*	-	-	-	-	-	-	-	-
East Tigray Zone	12	*	*	-	-	8	66.67	-	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	-	-	*	*	-	-
Ganta Afeshum	*	*	*	-	-	*	*	-	-
Hawzen	*	-	-	-	-	*	*	-	-
Wukro	*	-	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-	-
South Tigray Zone	-	-	-	-	-	-	-	-	-
Seharte Samre	-	-	-	-	-	-	-	-	-
Enderta	-	-	-	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-	-	-

TABLE 6.7.3 RURAL BELG

Geographic Area	Oil Seeds								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	14	-	-	-	-	*	*	-	-
West Tigray Zone	-	-	-	-	-	-	-	-	-
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-
Central Tigray Zone	-	-	-	-	-	-	-	-	-
Mereb Lehe	-	-	-	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-	-	-
Adwa	-	-	-	-	-	-	-	-	-
Laelay Maychew	-	-	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	*	-	-	-	-	*	*	-	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	-	-	*	*	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-	-	-
Atsbi Wenberta	*	-	-	-	-	*	*	-	-
South Tigray Zone	*	-	-	-	-	*	*	-	-
Seharte Samre	-	-	-	-	-	-	-	-	-
Enderta	-	-	-	-	-	-	-	-	-
Hintalo Wajirat	*	-	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-	-	-
Endamehoni	*	-	-	-	-	*	*	-	-
Rayazebo	-	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	*	-	-	-	-	-	-	-	-

TABLE 6.7.4 URBAN HOLDINGS

Geographic Area	Oil Seeds									
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide		
		Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	1093	*	*	*	*	14	1.28	14	1.28	
West Tigray Zone	969	*	*	*	*	5	0.52	13	1.34	
Kafta	775	*	*	*	*	-	-	11	1.42	
Tahtay Adiyabo	76	-	-	-	-	*	*	-	-	
Laelay Adiyabo	*	-	-	-	-	-	-	-	-	
Tahtay Koraro	2	-	-	-	-	-	-	2	100.00	
Medebay Zana	5	-	-	-	-	*	*	-	-	
Asegede Tsimbela	1	-	-	-	-	-	-	-	-	
Tselemti	26	-	-	-	-	-	-	-	-	
Welkait	82	-	-	-	-	3	3.66	-	-	
Tsegede	*	-	-	-	-	-	-	-	-	
Central Tigray Zone	30	-	-	-	-	5	16.67	-	-	
Mereb Lehe	*	-	-	-	-	*	*	-	-	
Ahiferom	1	-	-	-	-	-	-	-	-	
Werie Lehe	-	-	-	-	-	-	-	-	-	
Adwa	-	-	-	-	-	-	-	-	-	
Laelay Maychew	1	-	-	-	-	*	*	-	-	
Tahtay Maychew	-	-	-	-	-	-	-	-	-	
Naeder Adet	5	-	-	-	-	-	-	-	-	
Kola Temben	4	-	-	-	-	*	*	-	-	
Degua Temben	1	-	-	-	-	-	-	-	-	
Tanqu Abergele	*	-	-	-	-	-	-	-	-	
East Tigray Zone	9	*	*	-	-	*	*	-	-	
Gulumahada	*	-	-	-	-	-	-	-	-	
Erob	-	-	-	-	-	-	-	-	-	
Saesi Tsaedamba	*	-	-	-	-	-	-	-	-	
Ganta Afeshum	-	-	-	-	-	-	-	-	-	
Hawzen	*	-	-	-	-	*	*	-	-	
Wukro	5	*	*	-	-	*	*	-	-	
Atsbi Wenberta	*	-	-	-	-	*	*	-	-	
South Tigray Zone	19	*	*	-	-	*	*	-	-	
Seharte Samre	4	-	-	-	-	*	*	-	-	
Enderta	9	-	-	-	-	*	*	-	-	
Hintalo Wajirat	5	*	*	-	-	-	-	-	-	
Ambalage	-	-	-	-	-	-	-	-	-	
Endamehoni	-	-	-	-	-	-	-	-	-	
Rayaazebo	*	-	-	-	-	-	-	-	-	
Alamata	-	-	-	-	-	-	-	-	-	
Wofla	-	-	-	-	-	-	-	-	-	
Mekele Zone	*	-	-	*	*	*	*	*	*	
Mekele	*	-	-	*	*	*	*	*	*	

TABLE 6.8 AREA OF LAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS

Geographic Area	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	332	*	*	*	*	79	23.8	*	*
West Tigray Zone	220	-	-	*	*	23	10.45	-	-
Kafta	*	-	-	*	*	*	*	-	-
Tahtay Adiyabo	*	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	-	-	-	-	*	*	-	-
Tahtay Koraro	*	-	-	-	-	*	*	-	-
Medebay Zana	*	-	-	*	*	*	*	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	*	-	-	-	-	*	*	-	-
Welkait	161	-	-	-	-	*	*	-	-
Tsegede	*	-	-	-	-	*	*	-	-
Central Tigray Zone	61	*	*	*	*	32	52.46	*	*
Mereb Lehe	*	-	-	*	*	*	*	-	-
Ahiferom	*	-	-	*	*	*	*	-	-
Werie Lehe	*	-	-	*	*	-	-	-	-
Adwa	*	*	*	*	*	*	*	-	-
Laelay Maychew	*	-	-	*	*	*	*	-	-
Tahtay Maychew	*	*	*	-	-	*	*	-	-
Naeder Adet	*	-	-	*	*	*	*	-	-
Kola Temben	*	*	*	*	*	*	*	-	-
Degua Temben	11	-	-	-	-	*	*	*	*
Tanqu Abergele	*	*	*	*	*	*	*	-	-
East Tigray Zone	14	*	*	1	7.14	*	*	-	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	*	-	-	1	*	*	*	-	-
Hawzen	*	-	-	-	-	*	*	-	-
Wukro	*	-	-	-	-	-	-	-	-
Atsbi Wenberta	*	*	*	*	*	*	*	-	-
South Tigray Zone	*	*	*	*	*	*	*	-	-
Seharte Samre	*	-	-	-	-	*	*	-	-
Enderta	*	*	*	*	*	*	*	-	-
Hintalo Wajirat	*	-	-	*	*	*	*	-	-
Ambalage	*	-	-	*	*	*	*	-	-
Endamehoni	*	*	*	-	-	*	*	-	-
Rayaazebo	*	-	-	-	-	-	-	-	-
Alamata	*	-	-	*	*	*	*	-	-
Wofla	*	*	*	*	*	-	-	-	-
Mekele Zone	-	-	-	-	-	-	-	-	-
Mekele	-	-	-	-	-	-	-	-	-

TABLE 6.8.1 RURAL HOLDINGS

Geographic Area	Other Grains									
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide		
		Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	321	*	*	*	*	72	22.43	-	321	
West Tigray Zone	217	-	-	*	*	23	10.6	-	217	
Kafta	*	-	-	*	*	*	*	-	*	
Tahtay Adiyabo	*	-	-	-	-	-	-	-	*	
Laelay Adiyabo	*	-	-	-	-	*	*	-	*	
Tahtay Koraro	*	-	-	-	-	*	*	-	*	
Medebay Zana	*	-	-	*	*	*	*	-	*	
Asegede Tsimbela	-	-	-	-	-	-	-	-	-	
Tselemti	*	-	-	-	-	*	*	-	*	
Welkait	161	-	-	-	-	*	*	-	161	
Tsegede	*	-	-	-	-	*	*	-	*	
Central Tigray Zone	54	*	*	*	*	25	46.3	-	54	
Mereb Lehe	*	-	-	*	*	*	*	-	*	
Ahiferom	*	-	-	*	*	*	*	-	*	
Werie Lehe	*	-	-	*	*	-	-	-	*	
Adwa	*	*	*	*	*	*	*	-	*	
Laelay Maychew	*	-	-	*	*	*	*	-	*	
Tahtay Maychew	*	*	*	-	-	*	*	-	*	
Naeder Adet	*	-	-	*	*	*	*	-	*	
Kola Temben	*	*	*	*	*	*	*	-	*	
Degua Temben	*	-	-	-	-	-	-	-	*	
Tanqu Abergele	*	*	*	*	*	*	*	-	*	
East Tigray Zone	14	*	*	*	*	*	*	-	14	
Gulumahada	-	-	-	-	-	-	-	-	-	
Erob	-	-	-	-	-	-	-	-	-	
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-	
Ganta Afeshum	*	-	-	-	-	*	*	-	*	
Hawzen	*	-	-	-	-	*	*	-	*	
Wukro	*	-	-	-	-	-	-	-	*	
Atsbi Wenberta	*	*	*	*	*	*	*	-	*	
South Tigray Zone	*	*	*	*	*	*	*	-	*	
Seharte Samre	*	-	-	-	-	*	*	-	*	
Enderta	*	*	*	*	*	*	*	-	*	
Hintalo Wajirat	*	-	-	*	*	*	*	-	*	
Ambalage	*	-	-	*	*	*	*	-	*	
Endamehoni	*	*	*	-	-	*	*	-	*	
Rayazebo	-	-	-	-	-	-	-	-	-	
Alamata	*	-	-	*	*	*	*	-	*	
Wofla	*	*	*	*	*	-	-	-	*	

TABLE 6.8.2 RURAL MEHER

Geographic Area	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	291	*	*	3	1.03	45	15.46	-	-
West Tigray Zone	217	-	-	*	*	23	10.6	-	-
Kafta	*	-	-	*	*	*	*	-	-
Tahtay Adiyabo	*	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	-	-	-	-	*	*	-	-
Tahtay Koraro	*	-	-	-	-	*	*	-	-
Medebay Zana	*	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	*	-	-	-	-	*	*	-	-
Welkait	161	-	-	-	-	*	*	-	-
Tsegede	*	-	-	-	-	*	*	-	-
Central Tigray Zone	38	*	*	2	5.26	11	28.95	-	-
Mereb Lehe	*	-	-	-	-	*	*	-	-
Ahiferom	-	-	-	-	-	-	-	-	-
Werie Lehe	*	-	-	*	*	-	-	-	-
Adwa	*	-	-	-	-	*	*	-	-
Laelay Maychew	*	-	-	*	*	*	*	-	-
Tahtay Maychew	*	*	*	-	-	*	*	-	-
Naeder Adet	*	-	-	-	-	*	*	-	-
Kola Temben	*	*	*	*	*	*	*	-	-
Degua Temben	*	-	-	-	-	-	-	-	-
Tanqu Abergele	*	-	-	*	*	-	-	-	-
East Tigray Zone	14	*	*	*	*	*	*	-	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	*	-	-	-	-	*	*	-	-
Hawzen	*	-	-	-	-	*	*	-	-
Wukro	*	-	-	-	-	-	-	-	-
Atsbi Wenberta	*	*	*	*	*	*	*	-	-
South Tigray Zone	*	*	*	*	*	*	*	-	-
Sharte Samre	*	-	-	-	-	*	*	-	-
Enderta	*	*	*	*	*	*	*	-	-
Hintalo Wajirat	*	-	-	-	-	-	-	-	-
Ambalage	*	-	-	-	-	-	-	-	-
Endamehoni	*	*	*	-	-	*	*	-	-
Rayaazebo	-	-	-	-	-	-	-	-	-
Alamata	*	-	-	*	*	*	*	-	-
Wofla	*	*	*	*	*	-	-	-	-

TABLE 6.8.3 URBAN HOLDINGS

Geographic Area	Other Grains								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	11	-	-	1	9.09	*	*	*	*
West Tigray Zone	*	-	-	-	-	-	-	-	-
Kafta	*	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-
Central Tigray Zone	*	-	-	-	-	*	*	*	*
Mereb Lehe	-	-	-	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-	-	-
Adwa	-	-	-	-	-	-	-	-	-
Laelay Maychew	-	-	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-	-
Degua Temben	*	-	-	-	-	*	*	*	*
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	1	-	-	1	100	-	-	-	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	1	-	-	1	100	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-	-
South Tigray Zone	*	-	-	-	-	-	-	-	-
Seharte Samre	-	-	-	-	-	-	-	-	-
Enderta	-	-	-	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-	-	-
Rayaazebo	*	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-	-	-
Mekele Zone	-	-	-	-	-	-	-	-	-
Mekele	-	-	-	-	-	-	-	-	-

TABLE 6.9 AREA OF LAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY  
IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Vegetables								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Tigray Region	2094	123	5.87	819	39.11	1468	70.11	46	2.2
West Tigray Zone	681	*	*	87	12.78	484	71.07	4	0.59
Kafta	7	-	-	*	*	*	*	-	-
Tahtay Adiyabo	86	*	*	*	*	69	80.23	*	*
Lalay Adiyabo	133	*	*	*	*	69	51.88	*	*
Tahtay Koraro	74	*	*	*	*	60	81.08	*	*
Medebay Zana	83	-	-	20	24.1	63	75.9	*	*
Asegede Tsimbela	113	1	0.88	2	1.77	104	92.04	1	0.88
Tselemti	*	-	-	-	-	*	*	-	-
Welkait	42	-	-	-	-	*	*	-	-
Tsegede	27	*	*	*	*	10	37.04	-	-
Central Tigray Zone	823	40	4.86	277	33.66	*	*	*	*
Mereb Lehe	43	*	*	20	46.51	25	58.14	*	*
Ahiferom	*	*	*	62	*	*	*	*	*
Werie Lehe	30	*	*	11	36.67	15	50	*	*
Adwa	59	*	*	43	72.88	37	62.71	*	*
Lalay Maychew	38	*	*	28	73.68	*	*	*	*
Tahtay Maychew	33	*	*	21	63.64	25	75.76	*	*
Naeder Adet	58	*	*	23	39.66	27	46.55	-	-
Kola Temben	*	-	-	*	*	*	*	*	*
Degua Temben	*	*	*	*	*	*	*	-	-
Tanqu Abergele	7	*	*	*	*	*	*	-	-
East Tigray Zone	144	4	2.78	112	77.78	116	80.56	7	4.86
Gulumahada	14	*	*	6	42.86	13	92.86	*	*
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	57	-	-	51	89.47	49	85.96	*	*
Ganta Afeshum	16	*	*	9	56.25	12	75	*	*
Hawzen	7	*	*	*	*	*	*	-	-
Wukro	42	-	-	36	85.71	33	78.57	*	*
Atsbi Wenberta	*	*	*	*	*	*	*	*	*
South Tigray Zone	435	33	7.59	332	76.32	169	38.85	13	2.99
Seharte Samre	14	*	*	12	85.71	*	*	-	-
Enderta	107	*	*	93	86.92	*	*	*	*
Hintalo Wajirat	168	*	*	146	86.9	70	41.67	*	*
Ambalage	32	-	-	*	*	*	*	*	*
Endamehoni	12	*	*	9	75	6	50	*	*
Rayazebo	*	*	*	*	*	5	*	-	-
Alamata	35	-	-	8	22.86	6	17.14	-	-
Wofla	44	*	*	34	77.27	14	31.82	-	-
Mekele Zone	*	*	*	*	*	*	*	-	-
Mekele	*	*	*	*	*	*	*	-	-

TABLE 6.9.1 RURAL HOLDINGS

Geographic Area	Vegtabels								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	2055	115	5.6	794	38.64	1438	69.98	44	2.14
West Tigray Zone	666	*	*	85	12.76	469	70.42	2	0.3
Kafta	7	-	-	*	*	*	*	-	-
Tahtay Adiyabo	86	-	-	*	*	69	80.23	*	*
Laelay Adiyabo	133	*	*	*	*	68	51.13	*	*
Tahtay Koraro	74	*	*	*	*	60	81.08	*	*
Medebay Zana	83	-	-	20	24.1	63	75.9	*	*
Asegede Tsimbela	99	-	-	*	*	90	90.91	-	-
Tselemti	*	-	-	-	-	*	*	-	-
Welkait	42	-	-	-	-	*	*	-	-
Tsegede	27	*	*	*	*	10	37.04	-	-
Central Tigray Zone	818	40	4.89	273	33.37	*	*	*	*
Mereb Lehe	43	*	*	20	46.51	25	58.14	*	*
Ahiferom	*	*	*	61	*	*	*	*	*
Werie Lehe	30	*	*	11	36.67	15	50	*	*
Adwa	59	*	*	42	71.19	37	62.71	*	*
Laelay Maychew	35	*	*	25	71.43	*	*	*	*
Tahtay Maychew	33	*	*	21	63.64	25	75.76	*	*
Naeder Adet	57	*	*	23	40.35	27	47.37	-	-
Kola Temben	*	-	-	*	*	*	*	*	*
Degua Temben	*	*	*	*	*	*	*	-	-
Tanqu Abergele	7	*	*	*	*	*	*	-	-
East Tigray Zone	142	4	2.82	110	77.46	116	81.69	7	4.93
Gulumahada	14	*	*	6	42.86	13	92.86	*	*
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	57	-	-	51	89.47	49	85.96	*	*
Ganta Afeshum	14	*	*	7	50	12	85.71	*	*
Hawzen	7	*	*	*	*	*	*	-	-
Wukro	42	-	-	36	85.71	33	78.57	*	*
Atsbi Wenberta	*	*	*	*	*	*	*	*	*
South Tigray Zone	430	32	7.44	326	75.81	166	38.6	13	3.02
Seharte Samre	14	*	*	12	85.71	*	*	-	-
Enderta	106	*	*	93	87.74	*	*	*	*
Hintalo Wajirat	168	*	*	146	86.9	70	41.67	*	*
Ambalage	32	-	-	*	*	*	*	*	*
Endamehoni	10	*	*	*	*	6	60	*	*
Rayaaazebo	*	-	-	*	*	5	*	-	-
Alamata	32	-	-	5	15.63	*	*	-	-
Wofla	44	*	*	34	77.27	14	31.82	-	-

TABLE 6.9.2 RURAL MEHER

Geographic Area	Vegtabels								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	1393	34	2.44	156	11.2	1041	74.73	*	*
West Tigray Zone	590	*	*	*	*	427	72.37	*	*
Kafta	7	-	-	*	*	*	*	-	-
Tahtay Adiyabo	86	-	-	*	*	69	80.23	*	*
Laelay Adiyabo	102	1	0.98	*	*	64	62.75	*	*
Tahtay Koraro	50	*	*	*	*	37	74	-	-
Medebay Zana	61	-	-	*	*	48	78.69	*	*
Asegede Tsimbela	99	-	-	-	-	90	90.91	-	-
Tselemti	*	-	-	-	-	*	*	-	-
Welkait	42	-	-	-	-	*	*	-	-
Tsegede	26	-	-	*	*	9	34.62	-	-
Central Tigray Zone	*	*	*	39	*	*	*	*	*
Mereb Lehe	24	*	*	*	*	17	70.83	*	*
Ahiferom	*	*	*	7	*	*	*	*	*
Werie Lehe	26	*	*	*	*	12	46.15	*	*
Adwa	18	*	*	*	*	14	77.78	-	-
Laelay Maychew	10	*	*	*	*	8	80	-	-
Tahtay Maychew	20	*	*	*	*	12	60	*	*
Naeder Adet	36	*	*	*	*	26	72.22	-	-
Kola Temben	18	-	-	*	*	*	*	*	*
Degua Temben	*	*	*	*	*	*	*	-	-
Tanqu Abergele	5	-	-	*	*	*	*	-	-
East Tigray Zone	46	3	6.52	16	34.78	35	76.09	*	*
Gulumahada	*	*	*	5	*	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	5	-	-	*	*	*	*	-	-
Ganta Afeshum	11	*	*	4	36.36	9	81.82	*	*
Hawzen	7	*	*	*	*	*	*	-	-
Wukro	9	-	-	*	*	7	77.78	-	-
Atsbi Wenberta	2	*	*	*	*	*	*	*	*
South Tigray Zone	183	18	9.84	88	48.09	64	34.97	*	*
Seharte Samre	10	*	*	*	*	*	*	-	-
Enderta	34	*	*	23	67.65	*	*	-	-
Hintalo Wajirat	49	*	*	28	57.14	25	51.02	*	*
Ambalage	*	-	-	*	*	*	*	-	-
Endamehoni	6	-	-	*	*	4	66.67	-	-
Rayazebo	*	-	-	*	*	5	*	-	-
Alamata	30	-	-	5	16.67	*	*	-	-
Wofla	17	-	-	10	58.82	9	52.94	-	-

TABLE 6.9.2a Lettuce

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	9	*	*	7	77.78	5	55.56	-	-
West Tigray Zone	-	*	*	*	*	*	*	*	*
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	-	-	*	*	*	*	*	*
Tahtay Koraro	*	*	*	*	*	*	*	*	*
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	*	-	-	*	*	*	*	*	*
Central Tigray Zone	2	*	*	*	*	*	*	*	*
Mereb Lehe	*	-	-	*	*	*	*	*	*
Ahiferom	*	*	*	*	*	*	*	*	*
Werie Lehe	*	-	-	-	-	*	*	*	*
Adwa	*	*	*	*	*	*	*	*	*
Laelay Maychew	*	-	-	*	*	*	*	*	*
Tahtay Maychew	-	-	-	-	-	-	-	-	-
Naeder Adet	*	-	-	-	-	*	*	*	*
Kola Temben	*	-	-	-	-	*	*	*	*
Degua Temben	*	*	*	*	*	*	*	*	*
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	*	*	*	*	*
Gulumahada	*	*	*	*	*	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	*	-	-	*	*	*	*	*	*
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	*	-	-	*	*	*	*	*	*
Atsbi Wenberta	*	*	*	*	*	*	*	*	*
South Tigray Zone	*	*	*	*	*	*	*	*	*
Seharte Samre	-	-	-	-	-	-	-	-	-
Enderta	*	*	*	*	*	*	*	*	*
Hintalo Wajirat	*	-	-	-	-	*	*	*	*
Ambalage	-	-	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-	-	-
Rayazebo	-	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-	-	-

TABLE 6.9.2b Head cabbage

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	15	*	*	13	86.67	7	46.67	-	-
West Tigray Zone	*	-	-	*	*	*	*	-	-
Kafta	*	-	-	*	*	*	*	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Lalay Adiyabo	-	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-
Central Tigray Zone	*	-	-	-	-	*	*	-	-
Mereb Lehe	-	-	-	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-	-	-
Adwa	-	-	-	-	-	-	-	-	-
Lalay Maychew	-	-	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-	-
Kola Temben	*	-	-	-	-	*	*	-	-
Degua Temben	-	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	2	*	*	*	*	21	100	-	-
Gulumahada	*	*	*	*	*	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	*	*	*	*	-	-
Ganta Afeshum	*	-	-	*	*	*	*	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	*	-	-	*	*	*	*	-	-
Atsbi Wenberta	*	*	*	*	*	*	*	-	-
South Tigray Zone	12	*	*	*	*	3	25	-	-
Seharte Samre	*	*	*	*	*	*	*	-	-
Enderta	*	*	*	*	*	*	*	-	-
Hintalo Wajirat	*	*	*	*	*	*	*	-	-
Ambalage	*	-	-	*	*	*	*	-	-
Endamehoni	*	-	-	*	*	*	*	-	-
Rayaaazebo	-	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	*	-	-	*	*	*	*	-	-

TABLE 6.9.2c Kale

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	13	*	*	*	*	*	*	-	-
West Tigray Zone	-	*	-	-	-	-	*	*	-
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	*	-	-	-	-	*	*	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	*	-	-	-	-	-	-	-	-
Tsegede	*	-	-	-	-	*	*	-	-
Central Tigray Zone	2	-	-	*	*	*	*	-	-
Mereb Lehe	-	-	-	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-	-	-
Werie Lehe	*	-	-	-	-	*	*	-	-
Adwa	*	-	-	*	*	*	*	-	-
Laelay Maychew	*	-	-	-	-	-	-	-	-
Tahtay Maychew	*	-	-	*	*	-	-	-	-
Naeder Adet	*	-	-	-	-	-	-	-	-
Kola Temberr	-	-	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	-	-	*	*	-	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	-	-	*	*	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-	-
Hawzen	*	*	*	-	-	*	*	-	-
Wukro	*	-	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	*	*	*	-	-
Seharte Samre	-	-	-	-	-	-	-	-	-
Enderta	*	*	*	*	*	-	-	-	-
Hintalo Wajirat	*	-	-	*	*	*	*	-	-
Ambalage	*	-	-	*	*	*	*	-	-
Endamehoni	*	-	-	*	*	*	*	-	-
Rayaaazebo	-	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	*	-	-	*	*	*	*	-	-

TABLE 6.9.2d Tomatoes

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	76	10	13.16	34	44.74	49	64.47	*	*
West Tigray Zone	*	*	*	*	*	*	*	-	-
Kafta	*	-	-	-	-	*	*	-	-
Tahtay Adiyabo	*	-	-	-	-	*	*	-	-
Laelay Adiyabo	*	*	*	*	*	*	*	-	-
Tahtay Koraro	*	*	*	*	*	*	*	-	-
Medebay Zana	*	-	-	*	*	-	-	-	-
Asegede Tsimbela	*	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	*	-	-	-	-	*	*	-	-
Tsegede	*	-	-	-	-	*	*	-	-
Central Tigray Zone	18	*	*	11	61.11	15	83.33	-	-
Mereb Lehe	*	-	-	*	*	*	*	-	-
Ahiferom	*	*	*	*	*	*	*	-	-
Werie Lehe	-	-	-	-	-	-	-	-	-
Adwa	*	-	-	*	*	*	*	-	-
Laelay Maychew	*	-	-	*	*	*	*	-	-
Tahtay Maychew	*	*	*	*	*	*	*	-	-
Naeder Adet	*	-	-	-	-	-	-	-	-
Kola Temben	*	-	-	*	*	*	*	-	-
Degua Temben	*	-	-	*	*	*	*	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	21	-	-	8	38.1	17	80.95	-	-
Gulumahada	3	-	-	*	*	3	100.00	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	*	*	*	*	-	-
Ganta Afeshum	7	-	-	*	*	6	85.71	-	-
Hawzen	*	-	-	*	*	*	*	-	-
Wukro	7	-	-	*	*	*	*	-	-
Atsbi Wenberta	*	-	-	*	*	*	*	-	-
South Tigray Zone	30	9	30	12	40	16	53.33	*	*
Seharte Samre	*	-	-	*	*	*	*	-	-
Enderta	7	*	*	*	*	*	*	-	-
Hintalo Wajirat	*	*	*	8	*	*	*	*	*
Ambalage	-	-	-	-	-	-	-	-	-
Endamehoni	*	-	-	*	*	*	*	-	-
Rayaazebo	-	-	-	-	-	-	-	-	-
Alamata	*	-	-	-	-	-	-	-	-
Wofla	*	-	-	*	*	*	*	-	-

TABLE 6.9.2e Green peppers

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	186	*	*	33	17.74	118	63.44	*	*
West Tigray Zone	91	*	*	*	*	68	74.73	-	-
Kafta	*	-	-	*	*	*	*	-	-
Tahtay Adiyabo	53	-	-	*	*	43	81.13	-	-
Laelay Adiyabo	8	-	-	-	-	*	*	-	-
Tahtay Koraro	17	*	*	*	*	15	88.24	-	-
Medebay Zana	*	-	-	*	*	*	*	-	-
Asegede Tsimbela	*	-	-	-	-	*	*	-	-
Tselemti	*	-	-	-	-	-	-	-	-
Welkait	*	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-
Central Tigray Zone	53	*	*	14	26.42	37	69.81	*	*
Mereb Lehe	12	-	-	*	*	8	66.67	*	*
Ahiferom	13	-	-	5	38.46	10	76.92	*	*
Werie Lehe	*	-	-	*	*	*	*	*	*
Adwa	*	*	*	*	*	*	*	-	-
Laelay Maychew	3	-	-	*	*	3	100.00	-	-
Tahtay Maychew	*	*	*	*	*	*	*	-	-
Naeder Adet	*	-	-	-	-	*	*	-	-
Kola Temben	8	-	-	*	*	5	62.5	*	*
Degua Temben	*	-	-	-	-	*	*	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	8	-	-	4	50	6	75	*	*
Gulumahada	*	-	-	*	*	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	*	*	*	*	-	-
Ganta Afeshum	*	-	-	*	*	*	*	*	*
Hawzen	*	-	-	*	*	*	*	-	-
Wukro	2	-	-	*	*	*	*	-	-
Atsbi Wenberta	*	-	-	-	-	-	-	-	-
South Tigray Zone	34	-	-	7	20.59	8	23.53	-	-
Seharte Samre	-	-	-	-	-	-	-	-	-
Enderta	*	-	-	-	-	*	*	-	-
Hintalo Wajirat	*	-	-	*	*	*	*	-	-
Ambalage	-	-	-	-	-	-	-	-	-
Endamehoni	*	-	-	*	*	*	*	-	-
Rayaaazebo	5	-	-	*	*	*	*	-	-
Alamata	*	-	-	*	*	*	*	-	-
Wofla	5	-	-	4	80	*	*	-	-

TABLE 6.9.2f Red peppers

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	654	1	0.15	60	9.17	437	66.82	*	*
West Tigray Zone	474	1	0.21	*	*	344	72.57	*	*
Kafta	4	-	-	-	-	*	*	-	-
Tahtay Adiyabo	33	-	-	*	*	25	75.76	*	*
Laelay Adiyabo	93	1	1.08	*	*	62	66.67	*	*
Tahtay Koraro	30	-	-	*	*	20	66.67	-	-
Medebay Zana	51	-	-	*	*	41	80.39	*	*
Asegede Tsimbela	90	-	-	-	-	82	91.11	-	-
Tselemti	*	-	-	-	-	*	*	-	-
Welkait	39	-	-	-	-	*	*	-	-
Tsegede	22	-	-	*	*	8	36.36	-	-
Central Tigray Zone	93	*	*	11	11.83	59	63.44	*	*
Mereb Lehe	8	-	-	*	*	6	75	-	-
Ahiferom	*	-	-	*	*	*	*	-	-
Werie Lehe	17	-	-	*	*	5	29.41	-	-
Adwa	*	-	-	*	*	*	*	-	-
Laelay Maychew	*	-	-	-	-	*	*	-	-
Tahtay Maychew	7	*	*	-	-	5	71.43	*	*
Naeder Adet	35	-	-	*	*	26	74.29	-	-
Kola Temben	*	-	-	*	*	*	*	-	-
Degua Temben	*	-	-	-	-	-	-	-	-
Tanqu Abergele	5	-	-	*	*	*	*	-	-
East Tigray Zone	*	-	-	*	*	*	*	-	-
Gulumahada	*	-	-	*	*	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-	-
Hawzen	*	-	-	-	-	*	*	-	-
Wukro	-	-	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-	-
South Tigray Zone	79	-	-	48	60.76	26	32.91	*	*
Seharte Samre	*	-	-	*	*	*	*	-	-
Enderta	*	-	-	*	*	-	-	-	-
Hintalo Wajirat	25	-	-	19	76	*	*	*	*
Ambalage	*	-	-	*	*	*	*	-	-
Endamehoni	1	-	-	*	*	*	*	-	-
Rayaaazebo	*	-	-	*	*	*	*	-	-
Alamata	*	-	-	*	*	*	*	-	-
Wofla	*	-	-	*	*	*	*	-	-

TABLE 6.9.2g Swiss chad

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	10	*	*	6	60	5	50	*	*
West Tigray Zone	*	-	-	*	*	*	*	-	-
Kafta	*	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	-	-	-	-	*	*	-	-
Tahtay Koraro	*	-	-	*	*	*	*	-	-
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-
Central Tigray Zone	2	*	*	*	*	1	50	-	-
Mereb Lehe	*	*	*	*	*	*	*	-	-
Ahiferom	*	*	*	*	*	*	*	-	-
Werie Lehe	*	*	*	*	*	*	*	-	-
Adwa	*	*	*	-	-	*	*	-	-
Laelay Maychew	*	*	*	-	-	*	*	-	-
Tahtay Maychew	*	*	*	*	*	*	*	-	-
Naeder Adet	*	*	*	-	-	*	*	-	-
Kola Temben	-	-	-	-	-	-	-	-	-
Degua Temben	*	-	-	*	*	*	*	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	2	*	*	*	*	1	50	*	*
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	-	-	*	*	-	-
Ganta Afeshum	*	-	-	-	-	*	*	-	-
Hawzen	*	-	-	*	*	-	-	-	-
Wukro	*	-	-	*	*	*	*	-	-
Atsbi Wenberta	1	*	*	*	*	*	*	*	*
South Tigray Zone	6	*	*	*	*	3	50	-	-
Seharte Samre	1	-	-	*	*	*	*	-	-
Enderta	*	*	*	*	*	*	*	-	-
Hintalo Wajirat	*	-	-	*	*	*	*	-	-
Ambalage	*	-	-	-	-	-	-	-	-
Endamehoni	*	-	-	-	-	*	*	-	-
Rayaaazebo	-	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	*	-	-	*	*	*	*	-	-

TABLE 6.9.3 RURAL BELG

Geographic Area	Vegtabels								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Tigray Region	663	81	12.22	638	96.23	397	59.88	36	5.43
West Tigray Zone	76	*	*	72	94.74	42	55.26	*	*
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	*	*	*	4	*	-	-
Tahtay Koraro	*	*	*	*	*	*	*	*	*
Medebay Zana	22	-	-	18	81.82	15	68.18	*	*
Asegede Tsimbela	*	-	-	*	*	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	*	*	*	*	*	*	*	-	-
Central Tigray Zone	244	36	14.75	233	95.49	171	70.08	*	*
Mereb Lehe	19	*	*	19	100.00	8	42.11	*	*
Ahiferom	55	*	*	54	98.18	38	69.09	*	*
Werie Lehe	*	*	*	*	*	*	*	*	*
Adwa	41	*	*	41	100.00	23	56.1	*	*
Laelay Maychew	25	*	*	24	96	*	*	*	*
Tahtay Maychew	13	*	*	13		12	92.31	-	-
Naeder Adet	*	*	*	*	*	1	*	-	-
Kola Temben	*	-	-	*	*	*	*	*	*
Degua Temben	*	*	*	*	*	*	*	-	-
Tanqu Abergele	*	*	*	*	*	*	*	-	-
East Tigray Zone	96	*	*	93	96.88	81	84.38	*	*
Gulumahada	*	*	*	*	*	*	*	*	*
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	51	-	-	49	96.08	46	90.2	*	*
Ganta Afeshum	*	-	-	*	*	*	*	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	33	-	-	33	100.00	26	78.79	*	*
Atsbi Wenberta	*	*	*	*	*	*	*	*	*
South Tigray Zone	247	14	5.67	239	96.76	103	41.7	*	*
Seharte Samre	*	*	*	*	*	*	*	-	-
Enderta	72	*	*	70	97.22	*	*	*	*
Hintalo Wajirat	119	*	*	117	98.32	45	37.82	-	-
Ambalage	*	-	-	*	*	*	*	*	*
Endamehoni	*	*	*	*	*	*	*	*	*
Rayaaazebo	-	-	-	-	-	-	-	-	-
Alamata	*	-	-	-	-	-	-	-	-
Wofla	27	*	*	24	88.89	*	*	-	-

TABLE 6.9.4 URBAN HOLDINGS

Geographic Area	Vegtabels								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	39	*	*	25	64.1	30	76.92	2	5.13
West Tigray Zone	*	*	*	*	*	*	*	*	*
Kafta	*	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	*	*	*	*	-	-	*	*
Laelay Adiyabo	*	-	-	*	*	*	*	-	-
Tahtay Koraro	*	-	-	*	*	*	*	-	-
Medebay Zana	*	-	-	*	*	-	-	-	-
Asegede Tsimbela	*	*	*	*	*	*	*	*	*
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-
Central Tigray Zone	5	*	*	4	80	1	20	-	-
Mereb Lehe	-	-	-	-	-	-	-	-	-
Ahiferom	1	-	-	*	*	*	*	-	-
Werie Lehe	*	-	-	-	-	*	*	-	-
Adwa	*	*	*	*	*	*	*	-	-
Laelay Maychew	3	-	-	3	100	*	*	-	-
Tahtay Maychew	-	-	-	-	-	-	-	-	-
Naeder Adet	*	-	-	-	-	-	-	-	-
Kola Temben	*	-	-	*	*	*	*	-	-
Degua Temben	-	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	2	-	-	2	100	*	*	-	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	*	*	*	*	-	-
Ganta Afeshum	2	-	-	2	100	*	*	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	*	-	-	-	-	*	*	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-	-
South Tigray Zone	5	*	*	5	100	*	*	-	-
Seharte Samre	-	-	-	-	-	-	-	-	-
Enderta	1	*	*	1	100	*	*	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-	-
Ambalage	*	-	-	*	*	*	*	-	-
Endamehoni	2	*	*	2	100	-	-	-	-
Rayaaazebo	*	*	*	-	-	-	-	-	-
Alamata	*	-	-	*	*	*	*	-	-
Wofla	-	-	-	-	-	-	-	-	-
Mekele Zone	*	*	*	*	*	*	*	-	-
Mekele	*	*	*	*	*	*	*	-	-

TABLE 6.10. AREA OF LAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	1981	183	9.24	1406	70.97	1203	60.73	59	2.98
West Tigray Zone	177	19	10.73	109	61.58	102	57.63	*	*
Kafta	*	-	-	-	-	*	*	-	-
Tahtay Adiyabo	*	-	-	-	-	*	*	*	*
Laelay Adiyabo	*	*	*	*	*	*	*	-	-
Tahtay Koraro	14	*	*	11	78.57	7	50	*	*
Medebay Zana	88	*	*	66	75	51	57.95	*	*
Asegede Tsimbela	*	-	-	*	*	*	*	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	*	-	-	-	-	*	*	-	-
Tsegede	39	*	*	20	51.28	30	76.92	-	-
Central Tigray Zone	579	31	5.35	438	75.65	359	62	18	3.11
Mereb Lehe	*	*	*	*	*	*	*	*	*
Ahiferom	141	*	*	116	82.27	108	76.6	*	*
Werie Lehe	33	*	*	25	75.76	20	60.61	*	*
Adwa	191	*	*	*	*	103	53.93	*	*
Laelay Maychew	23	*	*	19	82.61	18	78.26	*	*
Tahtay Maychew	114	*	*	80	70.18	56	49.12	*	*
Naeder Adet	14	*	*	10	71.43	*	*	-	-
Kola Temben	*	-	-	*	*	*	*	-	-
Degua Temben	*	*	*	*	*	*	*	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	312	19	6.09	202	64.74	266	85.26	*	*
Gulumahada	10	*	*	*	*	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	210	*	*	141	67.14	178	84.76	*	*
Ganta Afeshum	38	*	*	21	55.26	35	92.11	*	*
Hawzen	*	-	-	*	*	*	*	-	-
Wukro	26	*	*	17	65.38	20	76.92	*	*
Atsbi Wenberta	*	*	*	*	*	*	*	*	*
South Tigray Zone	902	114	12.64	645	71.51	465	51.55	28	3.1
Seharte Samre	37	*	*	*	*	25	67.57	-	-
Enderta	255	67	26.27	238	93.33	*	*	*	*
Hintalo Wajirat	255	*	*	235	92.16	176	69.02	*	*
Ambalage	143	*	*	59	41.26	38	26.57	-	-
Endamehoni	60	*	*	19	31.67	28	46.67	-	-
Rayazebo	*	-	-	-	-	*	*	-	-
Alamata	*	*	*	*	*	*	*	-	-
Wofla	108	-	-	61	56.48	21	19.44	-	-
Mekele Zone	*	-	-	*	*	*	*	-	-
Mekele	*	-	-	*	*	*	*	-	-

TABLE 6.10.1 RURAL HOLDINGS

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	1945	180	9.25	1384	71.16	1181	60.72	56	2.88
West Tigray Zone	165	19	11.52	108	65.45	101	61.21	*	*
Kafta	*	-	-	-	-	*	*	-	-
Tahtay Adiyabo	*	-	-	-	-	*	*	*	*
Laelay Adiyabo	*	*	*	*	*	*	*	-	-
Tahtay Koraro	13	*	*	10	76.92	7	53.85	*	*
Medebay Zana	87	*	*	66	75.86	51	58.62	*	*
Asegede Tsimbela	*	-	-	*	*	*	*	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	*	-	-	-	-	*	*	-	-
Tsegede	39	*	*	20	51.28	30	76.92	-	-
Central Tigray Zone	573	31	5.41	435	75.92	355	61.95	18	3.14
Mereb Lehe	*	*	*	*	*	*	*	*	*
Ahiferom	140	*	*	116	82.86	108	77.14	*	*
Werie Lehe	31	*	*	22	70.97	18	58.06	*	*
Adwa	191	*	*	*	*	103	53.93	*	*
Laelay Maychew	23	*	*	19	82.61	18	78.26	*	*
Tahtay Maychew	113	*	*	80	70.8	56	49.56	*	*
Naeder Adet	14	*	*	10	71.43	*	*	-	-
Kola Temben	*	-	-	*	*	*	*	-	-
Degua Temben	*	*	*	*	*	*	*	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	311	19	6.11	201	64.63	266	85.53	*	*
Gulumahada	10	*	*	*	*	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	210	*	*	141	67.14	178	84.76	*	*
Ganta Afeshum	38	*	*	20	52.63	35	92.11	*	*
Hawzen	*	-	-	*	*	*	*	-	-
Wukro	26	*	*	17	65.38	20	76.92	*	*
Atsbi Wenberta	*	*	*	*	*	*	*	*	*
South Tigray Zone	895	111	12.4	640	71.51	459	51.28	*	*
Seharte Samre	37	*	*	*	*	25	67.57	-	-
Enderta	254	67	26.38	238	93.7	*	*	*	*
Hintalo Wajirat	250	*	*	230	92	171	68.4	*	*
Ambalage	143	*	*	59	41.26	38	26.57	-	-
Endamehoni	60	*	*	19	31.67	28	46.67	-	-
Rayaazebo	*	-	-	-	-	*	*	-	-
Alamata	*	*	*	*	*	*	*	-	-
Wofla	108	-	-	61	56.48	21	19.44	-	-

TABLE 6.10.2 RURAL MEHER

Geographic Area	Vegtabels								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	820	53	6.46	298	36.34	409	49.88	7	0.85
West Tigray Zone	68	*	*	12	17.65	46	67.65	*	*
Kafta	*	-	-	-	-	*	*	-	-
Tahtay Adiyabo	*	-	-	-	-	*	*	*	*
Laelay Adiyabo	1	*	*	*	*	*	*	-	-
Tahtay Koraro	4	*	*	*	*	*	*	-	-
Medebay Zana	25	-	-	5	20	*	*	-	-
Asegede Tsimbela	*	-	-	-	-	*	*	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	*	-	-	-	-	*	*	-	-
Tsegede	24	-	-	*	*	18	75	-	-
Central Tigray Zone	216	3	1.39	85	39.35	128	59.26	*	*
Mereb Lehe	*	*	*	*	*	*	*	-	-
Ahiferom	63	*	*	40	63.49	45	71.43	*	*
Werie Lehe	16	-	-	*	*	7	43.75	*	*
Adwa	50	*	*	*	*	33	66	-	-
Laelay Maychew	4	-	-	*	*	*	*	-	-
Tahtay Maychew	59	*	*	26	44.07	24	40.68	*	*
Naeder Adet	*	-	-	-	-	*	*	-	-
Kola Temben	-	-	-	-	-	-	-	-	-
Degua Temben	7	*	*	*	*	4	57.14	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	141	6	4.26	46	32.62	105	74.47	*	*
Gulumahada	10	*	*	*	*	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	80	*	*	*	*	55	68.75	-	-
Ganta Afeshum	25	*	*	7	28	22	88	*	*
Hawzen	*	-	-	*	*	*	*	-	-
Wukro	16	*	*	*	*	*	*	-	-
Atsbi Wenberta	4	*	*	*	*	*	*	*	*
South Tigray Zone	395	*	*	155	39.24	129	32.66	*	*
Seharte Samre	*	*	*	*	*	*	*	-	-
Enderta	77	*	*	62	80.52	48	62.34	*	*
Hintalo Wajirat	35	-	-	17	48.57	*	*	*	*
Ambalage	96	*	*	15	15.63	24	25	-	-
Endamehoni	41	*	*	8	19.51	17	41.46	-	-
Rayaaazebo	*	-	-	-	-	*	*	-	-
Alamata	*	*	*	*	*	*	*	-	-
Wofla	90	-	-	43	47.78	21	23.33	-	-

TABLE 6.10.2a Carrot

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	38	*	*	34	89.47	19	50	*	*
West Tigray Zone	*	-	-	-	-	*	*	-	-
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	-	-	-	-	*	*	-	-
Tahtay Koraro	*	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-
Central Tigray Zone	5	*	*	*	*	4	80	-	-
Mereb Lehe	-	-	-	-	-	-	-	-	-
Ahiferom	*	-	-	*	*	*	*	-	-
Werie Lehe	*	-	-	-	-	-	-	-	-
Adwa	*	-	-	*	*	*	*	-	-
Laelay Maychew	*	-	-	-	-	*	*	-	-
Tahtay Maychew	*	*	*	-	-	*	*	-	-
Naeder Adet	-	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-	-
Degua Temben	*	*	*	*	*	*	*	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	*	*	*	*	*
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	*	*	*	*	*	*	*	-	-
Atsbi Wenberta	*	*	*	*	*	*	*	*	*
South Tigray Zone	26	*	*	*	*	8	30.77	-	-
Seharte Samre	*	-	-	*	*	*	*	-	-
Enderta	*	*	*	*	*	*	*	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-	-
Ambalage	*	*	*	*	*	*	*	-	-
Endamehoni	*	*	*	*	*	*	*	-	-
Rayaaazebo	-	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-	-	-

TABLE 6.10.2b Onions

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	266	*	*	151	56.77	124	46.62	*	*
West Tigray Zone	36	*	*	9	25	22	61.11	-	-
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	*	*	*	*	*	-	-
Tahtay Koraro	*	*	*	*	*	*	*	-	-
Medebay Zana	25	-	-	4	16	*	*	-	-
Asegede Tsimbela	*	-	-	-	-	*	*	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	*	-	-	-	-	-	-	-	-
Tsegede	7	-	-	*	*	6	85.71	-	-
Central Tigray Zone	99	*	*	57	57.58	50	50.51	*	*
Mereb Lehe	*	-	-	*	*	*	*	-	-
Ahiferom	41	-	-	27	65.85	27	65.85	*	*
Werie Lehe	*	-	-	*	*	*	*	-	-
Adwa	9	-	-	1	11.11	*	*	-	-
Laelay Maychew	*	-	-	*	*	*	*	-	-
Tahtay Maychew	38	*	*	23	60.53	14	36.84	-	-
Naeder Adet	*	-	-	-	-	*	*	-	-
Kola Temben	-	-	-	-	-	-	-	-	-
Degua Temben	*	-	-	-	-	*	*	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	19	*	*	11	57.89	16	84.21	*	*
Gulumahada	*	*	*	*	*	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	*	*	*	-	-
Ganta Afeshum	6	-	-	4	66.67	4	66.67	*	*
Hawzen	*	-	-	*	*	*	*	-	-
Wukro	*	-	-	*	*	*	*	-	-
Atsbi Wenberta	*	*	*	*	*	*	*	*	*
South Tigray Zone	112	*	*	74	66.07	*	*	-	-
Seharte Samre	*	-	-	*	*	*	*	-	-
Enderta	*	*	*	*	*	*	*	-	-
Hintalo Wajirat	17	-	-	*	*	*	*	-	-
Ambalage	17	-	-	11	64.71	4	23.53	-	-
Endamehoni	14	-	-	*	*	4	28.57	-	-
Rayaaazebo	-	-	-	-	-	-	-	-	-
Alamata	*	*	*	*	*	*	*	-	-
Wofla	266	*	*	151	56.77	124	46.62	*	*

TABLE 6.10.2c Potatoes

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	264	12	4.55	51	19.32	164	62.12	*	*
West Tigray Zone	*	-	-	-	-	*	*	*	*
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	-	-	-	-	*	*	*	*
Laelay Adiyabo	*	-	-	-	-	-	-	-	-
Tahtay Koraro	*	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	*	-	-	-	-	*	*	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	*	-	-	-	-	*	*	-	-
Central Tigray Zone	43	*	*	*	*	30	69.77	*	*
Mereb Lehe	*	-	-	-	-	*	*	-	-
Ahiferom	9	*	*	*	*	8	88.89	-	-
Werie Lehe	*	-	-	-	-	*	*	-	-
Adwa	16	*	*	*	*	*	*	-	-
Laelay Maychew	*	-	-	-	-	*	*	-	-
Tahtay Maychew	*	-	-	-	-	*	*	*	*
Naeder Adet	-	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-	-
Degua Temben	1	*	*	*	*	*	*	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	92	*	*	*	*	68	73.91	-	-
Gulumahada	*	-	-	*	*	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	63	*	*	*	*	43	68.25	-	-
Ganta Afeshum	18	*	*	*	*	17	94.44	-	-
Hawzen	*	-	-	*	*	*	*	-	-
Wukro	4	-	-	-	-	4	100.00	-	-
Atsbi Wenberta	3	-	-	*	*	*	*	-	-
South Tigray Zone	117	*	*	19	16.24	56	47.86	*	*
Seharte Samre	*	*	*	-	-	*	*	-	-
Enderta	25	*	*	16	64	*	*	*	*
Hintalo Wajirat	*	-	-	*	*	*	*	-	-
Ambalage	58	-	-	*	*	*	*	-	-
Endamehoni	*	*	*	*	*	*	*	-	-
Rayaaazebo	-	-	-	-	-	-	-	-	-
Alamata	*	-	-	-	-	-	-	-	-
Wofla	8	-	-	*	*	4	50	-	-

TABLE 6.10.2d Garlic

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	161	*	*	47	29.19	70	43.48	*	*
West Tigray Zone	19	-	-	*	*	13	68.42	-	-
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	-	-	*	*	-	-	-	-
Tahtay Koraro	*	-	-	-	-	*	*	-	-
Medebay Zana	*	-	-	*	*	*	*	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	*	-	-	-	-	*	*	-	-
Tsegede	18	-	-	*	*	13	72.22	-	-
Central Tigray Zone	52	*	*	19	36.54	31	59.62	*	*
Mereb Lehe	*	*	*	*	*	*	*	-	-
Ahiferom	13	-	-	9	69.23	9	69.23	*	*
Werie Lehe	7	-	-	*	*	5	71.43	*	*
Adwa	9	*	*	*	*	4	44.44	-	-
Laelay Maychew	1	-	-	*	*	1	100	-	-
Tahtay Maychew	17	*	*	*	*	9	52.94	-	-
Naeder Adet	*	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-	-
Degua Temben	4	*	*	*	*	2	50	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	1	*	*	*	*	1	100	*	*
Gulumahada	*	-	-	-	-	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	*	-	-	*	*	*	*	-	-
Hawzen	*	-	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-	-	-
Atsbi Wenberta	*	*	*	-	-	*	*	*	*
South Tigray Zone	89	-	-	25	28.09	25	28.09	-	-
Seharte Samre	*	-	-	*	*	*	*	-	-
Enderta	*	-	-	*	*	*	*	-	-
Hintalo Wajirat	*	-	-	*	*	*	*	-	-
Ambalage	20	-	-	3	15	*	*	-	-
Endamehoni	7	-	-	*	*	3	42.86	-	-
Rayaazebo	-	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	51	-	-	13	25.49	14	27.45	-	-

TABLE 6.9.2e Sweet Potatoes

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	2	*	*	*	*	*	*	-	-
West Tigray Zone	*	-	-	-	-	*	*	-	-
Kafta	*	-	-	-	-	*	*	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-
Central Tigray Zone	*	*	*	-	-	*	*	-	-
Mereb Lehe	-	-	-	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-	-	-
Adwa	*	*	*	-	-	*	*	-	-
Laelay Maychew	-	-	-	-	-	-	-	-	-
Tahtay Maychew	*	*	*	-	-	*	*	-	-
Naeder Adet	-	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	*	-	-	*	*	*	*	-	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	*	-	-	*	*	*	*	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-	-
South Tigray Zone	*	-	-	-	-	-	-	-	-
Seharte Samre	*	-	-	-	-	-	-	-	-
Enderta	-	-	-	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	*	-	-	-	-	-	-	-	-

TABLE 6.10.2f Other root crops

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	83	-	-	*	*	30	36.14	*	*
West Tigray Zone	*	-	-	-	-	-	-	-	-
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-	-
Tahtay Koraro	*	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-
Central Tigray Zone	*	-	-	-	-	*	*	*	*
Mereb Lehe	-	-	-	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-	-	-
Werie Lehe	*	-	-	-	-	*	*	*	*
Adwa	*	-	-	-	-	*	*	-	-
Laelay Maychew	-	-	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-	-	-
Naeder Adet	*	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	21	-	-	-	-	12	57.14	-	-
Gulumahada	*	-	-	-	-	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	-	-	*	*	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	*	-	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-	-
South Tigray Zone	*	-	-	*	*	*	*	*	*
Seharte Samre	-	-	-	-	-	-	-	-	-
Enderta	-	-	-	-	-	-	-	-	-
Hintalo Wajirat	*	-	-	*	*	*	*	*	*
Ambalage	-	-	-	-	-	-	-	-	-
Endamehoni	*	-	-	*	*	*	*	-	-
Rayaazebo	*	-	-	-	-	*	*	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-	-	-

TABLE 6.10.3 RURAL BELG

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Tigray Region	1125	127	11.29	1086	96.53	773	68.71	49	4.36
West Tigray Zone	97	18	18.56	96	98.97	55	56.7	*	*
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	*	*	*	*	*	*	*
Tahtay Koraro	10	*	*	10	100.00	*	*	*	*
Medebay Zana	62	*	*	61	98.39	37	59.68	*	*
Asegede Tsimbela	*	-	-	*	*	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	14	*	*	14	100.00	11	78.57	-	-
Central Tigray Zone	357	28	7.84	350	98.04	227	63.59	*	*
Mereb Lehe	*	*	*	*	*	*	*	*	*
Ahiferom	77	*	*	76	98.7	63	81.82	*	*
Werie Lehe	15	*	*	15	100.00	*	*	-	-
Adwa	*	*	*	*	*	*	*	*	*
Laelay Maychew	18	*	*	18	100.00	*	*	*	*
Tahtay Maychew	55	*	*	54	98.18	32	58.18	*	*
Naeder Adet	10	*	*	10	100.00	*	*	-	-
Kola Temben	*	-	-	*	*	*	*	-	-
Degua Temben	*	-	-	*	*	*	*	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	171	*	*	156	91.23	161	94.15	*	*
Gulumahada	*	*	*	*	*	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	130	*	*	116	89.23	122	93.85	*	*
Ganta Afeshum	*	-	-	*	*	*	*	*	*
Hawzen	*	-	-	*	*	*	*	-	-
Wukro	11	-	-	11	100.00	10	90.91	*	*
Atsbi Wenberta	*	*	*	*	*	*	*	*	*
South Tigray Zone	501	67	13.37	484	96.61	330	65.87	*	*
Seharte Samre	*	*	*	*	*	*	*	-	-
Enderta	177	27	15.25	176	99.44	*	*	*	*
Hintalo Wajirat	215	*	*	213	99.07	163	75.81	*	*
Ambalage	47	*	*	44	93.62	*	*	-	-
Endamehoni	20	*	*	11	55	11	55	-	-
Rayaazebo	-	-	-	-	-	-	-	-	-
Alamata	*	*	*	*	*	-	-	-	-
Wofla	18	-	-	17	94.44	-	-	-	-

TABLE 6.10.4 URBAN HOLDINGS

Geographic Area	Root Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	37	4	10.81	22	59.46	*	*	3	8.11
West Tigray Zone	*	*	*	*	*	*	*	-	-
Kafta	*	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	-	-	*	*	*	*	-	-
Tahtay Koraro	*	-	-	*	*	*	*	-	-
Medebay Zana	*	*	*	*	*	*	*	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	*	-	-	-	-	-	-	-	-
Central Tigray Zone	5	-	-	3	60	3	60	-	-
Mereb Lehe	*	-	-	-	-	*	*	-	-
Ahiferom	*	-	-	*	*	*	*	-	-
Werie Lehe	*	-	-	*	*	*	*	-	-
Adwa	*	-	-	*	*	*	*	-	-
Laelay Maychew	-	-	-	-	-	-	-	-	-
Tahtay Maychew	*	-	-	*	*	*	*	-	-
Naeder Adet	-	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	1	-	-	1	100	-	-	-	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	1	-	-	1	100	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-	-
South Tigray Zone	6	3	50	6	100	5	83.33	3	50
Seharte Samre	*	-	-	*	*	*	*	-	-
Enderta	*	*	*	*	*	*	*	-	-
Hintalo Wajirat	5	3	60	5	100	5	100	3	60
Ambalage	*	*	*	*	*	*	*	-	-
Endamehoni	-	-	-	-	-	-	-	-	-
Rayaazebo	*	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	*	-	-	-	-	-	-	-	-
Mekele Zone	*	-	-	*	*	*	*	-	-
Mekele	*	-	-	*	*	*	*	-	-

TABLE 6.11 AREA OF LAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY  
IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	6268	128	2.04	1054	16.82	1505	24.01	63	1.01
West Tigray Zone	227	17	7.49	49	21.59	85	37.44	*	*
Kafta	12	*	*	*	*	*	*	*	*
Tahtay Adiyabo	*	*	*	*	*	*	*	-	-
Lalay Adiyabo	24	*	*	3	12.5	*	*	*	*
Tahtay Koraro	36	*	*	10	27.78	10	27.78	*	*
Medebay Zana	42	*	*	17	40.48	13	30.95	-	-
Asegede Tsimbela	27	*	*	*	*	*	*	*	*
Tselemti	*	*	*	*	*	*	*	*	*
Welkait	31	*	*	1	3.23	*	*	-	-
Tsegede	38	-	-	*	*	11	28.95	*	*
Central Tigray Zone	1220	35	2.87	405	33.2	485	39.75	*	*
Mereb Lehe	7	*	*	3	42.86	1	14.29	-	-
Ahiferom	667	*	*	*	*	*	*	*	*
Werie Lehe	114	17	14.91	*	*	30	26.32	*	*
Adwa	66	6	9.09	25	37.88	19	28.79	*	*
Lalay Maychew	22	*	*	10	45.45	7	31.82	*	*
Tahtay Maychew	32	*	*	6	18.75	*	*	-	-
Naeder Adet	44	*	*	7	15.91	22	50	-	-
Kola Temben	161	*	*	124	77.02	*	*	*	*
Degua Temben	83	-	-	*	*	*	*	*	*
Tanqu Abergele	26	*	*	24	92.31	*	*	*	*
East Tigray Zone	3375	6	0.18	53	1.57	709	21.01	*	*
Gulumahada	730	*	*	5	0.68	157	21.51	-	-
Erob	191	-	-	1	0.52	27	14.14	-	-
Saesi Tsaedamba	741	*	*	15	2.02	127	17.14	*	*
Ganta Afeshum	725	*	*	20	2.76	217	29.93	*	*
Hawzen	385	*	*	*	*	56	14.55	-	-
Wukro	417	*	*	9	2.16	69	16.55	-	-
Atsbi Wenberta	186	*	*	*	*	56	30.11	*	*
South Tigray Zone	1437	*	*	539	37.51	219	15.24	30	2.09
Seharte Samre	85	*	*	35	41.18	26	30.59	*	*
Enderta	423	*	*	*	*	*	*	*	*
Hintalo Wajirat	270	*	*	50	18.52	53	19.63	*	*
Ambalage	99	*	*	36	36.36	21	21.21	*	*
Endamehoni	112	*	*	*	*	*	*	*	*
Rayaazebo	275	11	4	*	*	*	*	10	3.64
Alamata	78	*	*	70	89.74	*	*	*	*
Wofla	94	*	*	79	84.04	22	23.4	-	-
Mekele Zone	*	*	*	*	*	*	*	*	*
Mekele	*	*	*	*	*	*	*	*	*

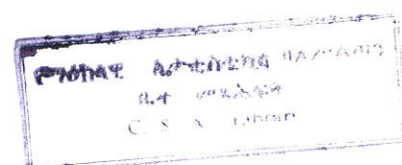


TABLE 6.11.1 RURAL MEHER

Geographic Area	Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	5974	97	1.62	861	14.41	1448	24.24	34	0.57
West Tigray Zone	217	*	*	42	19.35	84	38.71	*	*
Kafta	12	*	*	*	*	*	*	-	-
Tahtay Adiyabo	*	*	*	*	*	*	*	-	-
Laelay Adiyabo	23	*	*	*	*	*	*	*	*
Tahtay Koraro	33	*	*	7	21.21	10	30.3	*	*
Medebay Zana	41	*	*	16	39.02	13	31.71	-	-
Asegede Tsimbela	24	*	*	*	*	*	*	*	*
Tselemti	*	*	*	*	*	*	*	*	*
Welkait	28	*	*	*	*	*	*	-	-
Tsegede	38	-	-	*	*	11	28.95	*	*
Central Tigray Zone	1116	21	1.88	329	29.48	447	40.05	*	*
Mereb Lehe	3	*	*	1	33.33	*	*	-	-
Ahiferom	660	*	*	*	*	*	*	*	*
Werie Lehe	89	*	*	*	*	9	10.11	*	*
Adwa	43	*	*	16	37.21	17	39.53	*	*
Laelay Maychew	9	*	*	1	11.11	2	22.22	*	*
Tahtay Maychew	32	*	*	6	18.75	*	*	-	-
Naeder Adet	43	*	*	7	16.28	22	51.16	-	-
Kola Temben	*	*	*	*	*	*	*	*	*
Degua Temben	83	-	-	*	*	*	*	*	*
Tanqu Abergele	21	-	-	*	*	*	*	-	-
East Tigray Zone	3373	6	0.18	53	1.57	707	20.96	*	*
Gulumahada	730	*	*	5	0.68	157	21.51	-	-
Erob	191	-	-	1	0.52	27	14.14	-	-
Saesi Tsaedamba	741	*	*	15	2.02	127	17.14	*	*
Ganta Afeshum	723	*	*	19	2.63	216	29.88	*	*
Hawzen	385	*	*	*	*	56	14.55	-	-
Wukro	417	*	*	9	2.16	69	16.55	-	-
Atsbi Wenberta	186	*	*	*	*	56	30.11	*	*
South Tigray Zone	1268	*	*	436	34.38	210	16.56	9	0.71
Seharte Samre	78	*	*	*	*	26	33.33	*	*
Enderta	413	*	*	*	*	*	*	*	*
Hintalo Wajirat	270	*	*	50	18.52	53	19.63	*	*
Ambalage	99	*	*	36	36.36	21	21.21	*	*
Endamehoni	56	*	*	5	8.93	*	*	*	*
Rayaazebo	*	*	*	*	*	*	*	*	*
Alamata	11	*	*	*	*	*	*	*	*
Wofla	94	*	*	79	84.04	22	23.4	-	-

TABLE 6.11.2 URBAN HOLDINGS

Geographic Area	Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	294	31	10.54	194	65.99	57	19.39	29	9.86
West Tigray Zone	11	3	27.27	7	63.64	1	9.09	*	*
Kafta	*	-	-	*	*	-	-	*	*
Tahtay Adiyabo	*	*	*	*	*	-	-	-	-
Laelay Adiyabo	*	*	*	*	*	*	*	*	*
Tahtay Koraro	3	*	*	3	100.00	*	*	-	-
Medebay Zana	1	*	*	1	100.00	-	-	-	-
Asegede Tsimbela	3	3	100.00	1	33.33	1	33.33	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	*	-	-	*	*	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-
Central Tigray Zone	105	14	13.33	76	72.38	38	36.19	*	*
Mereb Lehe	3	*	*	3	100.00	*	*	-	-
Ahiferom	*	*	*	*	*	*	*	-	-
Werie Lehe	26	*	*	*	*	*	*	-	-
Adwa	22	*	*	9	40.91	3	13.64	*	*
Laelay Maychew	13	-	-	9	69.23	5	38.46	-	-
Tahtay Maychew	1	-	-	*	*	*	*	-	-
Naeder Adet	*	-	-	*	*	-	-	-	-
Kola Temben	29	*	*	23	79.31	7	24.14	-	-
Degua Temben	-	-	-	-	-	-	-	-	-
Tanqu Abergele	4	*	*	4	100.00	*	*	*	*
East Tigray Zone	2	-	-	1	50	*	*	-	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	2	-	-	1	50	*	*	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	*	-	-	-	-	-	-	-	-
Atsbi Wenberta	*	-	-	*	*	*	*	-	-
South Tigray Zone	169	13	7.69	103	60.95	9	5.33	*	*
Seharte Samre	*	-	-	*	*	-	-	-	-
Enderta	*	*	*	*	*	*	*	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-	-
Ambalage	*	-	-	*	*	*	*	-	-
Endamehoni	55	-	-	*	*	3	5.45	*	*
Rayaazebo	29	6	20.69	5	17.24	6	20.69	5	17.24
Alamata	68	-	-	68	100.00	-	-	*	*
Wofla	*	-	-	*	*	-	-	-	-
Mekele Zone	*	*	*	*	*	*	*	*	*
Mekele	*	*	*	*	*	*	*	*	*

TABLE 6.12 AREA OF LAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Fruit Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	4400	104	2.36	356	8.09	861	19.57	*	*
West Tigray Zone	56	12	21.43	23	41.07	*	*	*	*
Kafta	*	*	*	*	*	*	*	*	*
Tahtay Adiyabo	*	*	*	*	*	*	*	-	-
Laelay Adiyabo	6	*	*	1	16.67	2	33.33	*	*
Tahtay Koraro	8	*	*	6	75	*	*	*	*
Medebay Zana	*	*	*	*	*	*	*	-	-
Asegede Tsimbela	6	4	66.67	4	66.67	*	*	-	-
Tselemti	*	*	*	*	*	*	*	*	*
Welkait	*	*	*	1	*	*	*	-	-
Tsegede	*	-	-	*	*	*	*	-	-
Central Tigray Zone	267	29	10.86	145	54.31	77	28.84	*	*
Mereb Lehe	4	*	*	3	75	*	*	-	-
Ahiferom	42	*	*	*	*	11	26.19	-	-
Werie Lehe	38	14	36.84	20	52.63	9	23.68	-	-
Adwa	15	4	26.67	13	86.67	5	33.33	*	*
Laelay Maychew	10	-	-	6	60	5	50	-	-
Tahtay Maychew	*	*	*	*	*	*	*	-	-
Naeder Adet	8	*	*	*	*	3	37.5	-	-
Kola Temben	*	*	*	*	*	*	*	-	-
Degua Temben	42	-	-	*	*	*	*	-	-
Tanqu Abergele	4	*	*	*	*	*	*	-	-
East Tigray Zone	3250	*	*	27	0.83	647	19.91	*	*
Gulumahada	724	*	*	*	*	155	21.41	-	-
Erob	191	-	-	1	0.52	27	14.14	-	-
Saesi Tsaedamba	722	*	*	*	*	113	15.65	*	*
Ganta Afeshum	646	*	*	*	*	181	28.02	*	*
Hawzen	372	*	*	*	*	52	13.98	-	-
Wukro	408	*	*	*	*	64	15.69	-	-
Atsbi Wenberta	186	*	*	*	*	55	29.57	*	*
South Tigray Zone	819	*	*	154	18.8	101	12.33	4	0.49
Seharte Samre	53	*	*	*	*	14	26.42	-	-
Enderta	402	*	*	*	*	*	*	*	*
Hintalo Wajirat	227	*	*	*	*	*	*	*	*
Ambalage	57	*	*	11	19.3	5	8.77	-	-
Endamehoni	*	*	*	*	*	*	*	-	-
Rayaaazebo	23	*	*	*	*	4	17.39	3	13.04
Alamata	43	*	*	40	93.02	*	*	*	*
Wofla	*	*	*	*	*	*	*	-	-
Mekele Zone									
Mekele									

TABLE 6.12.1 RURAL MEHER

Geographic Area	Fruit Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	4293	87	2.03	261	6.08	834	19.43	*	*
West Tigray Zone	48	*	*	16	33.33	*	*	*	*
Kafta	*	*	*	*	*	*	*	-	-
Tahtay Adiyabo	*	*	*	*	*	*	*	-	-
Laelay Adiyabo	6	*	*	1	16.67	*	*	*	*
Tahtay Koraro	5	*	*	3	60	*	*	*	*
Medebay Zana	*	*	*	*	*	*	*	-	-
Asegede Tsimbela	3	*	*	*	*	*	*	-	-
Tselemti	*	*	*	*	*	*	*	*	*
Welkait	*	*	*	*	*	*	*	-	-
Tsegede	*	-	-	*	*	*	*	-	-
Central Tigray Zone	223	19	8.52	108	48.43	62	27.8	*	*
Mereb Lehe	*	*	*	*	*	*	*	-	-
Ahiferom	42	*	*	*	*	11	26.19	-	-
Werie Lehe	27	*	*	*	*	*	*	-	-
Adwa	8	*	*	*	*	*	*	*	*
Laelay Maychew	*	-	-	*	*	*	*	-	-
Tahtay Maychew	*	*	*	*	*	*	*	-	-
Naeder Adet	8	*	*	*	*	3	37.5	-	-
Kola Temben	*	*	*	*	*	*	*	-	-
Degua Temben	42	-	-	*	*	*	*	-	-
Tanqu Abergele	*	-	-	*	*	*	*	-	-
East Tigray Zone	3248	5	0.15	26	0.8	646	19.89	*	*
Gulumahada	724	*	*	*	*	155	21.41	-	-
Erob	191	-	-	1	0.52	27	14.14	-	-
Saesi Tsaedamba	722	*	*	*	*	113	15.65	*	*
Ganta Afeshum	645	*	*	*	*	180	27.91	*	*
Hawzen	372	*	*	*	*	52	13.98	-	-
Wukro	408	*	*	*	*	64	15.69	-	-
Atsbi Wenberta	186	*	*	*	*	55	29.57	*	*
South Tigray Zone	774	*	*	110	14.21	98	12.66	*	*
Seharte Samre	53	*	*	*	*	14	26.42	-	-
Enderata	399	*	*	*	*	*	*	*	*
Hintalo Wajirat	227	*	*	*	*	*	*	*	*
Ambalage	57	*	*	11	19.3	5	8.77	-	-
Endamehoni	*	*	*	*	*	*	*	-	-
Rayaazebo	*	*	*	*	*	*	*	-	-
Alamata	*	*	*	*	*	*	*	-	-
Wofla	*	*	*	*	*	*	*	-	-

TABLE 6.12.1a Bananas

Geographic Area	Total Crop		Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area		Area	%	Area	%	Area	%	Area	%
Tigray Region	*		*	*	76	*	*	*	*	*
West Tigray Zone	*		-	-	*	*	*	*	-	-
Kafta	*		-	-	*	*	*	*	-	-
Tahtay Adiyabo	-		-	-	-	-	-	-	-	-
Laelay Adiyabo	-		-	-	-	-	-	-	-	-
Tahtay Koraro	*		-	-	*	*	*	*	-	-
Medebay Zana	-		-	-	-	-	-	-	-	-
Asegede Tsimbela	*		-	-	*	*	*	*	-	-
Tselemti	-		-	-	-	-	-	-	-	-
Welkait	*		-	-	-	-	-	-	-	-
Tsegede	*		-	-	*	*	*	*	-	-
Central Tigray Zone	*		*	*	*	*	*	*	-	-
Mereb Lehe	*		-	-	*	*	-	-	-	-
Ahiferom	-		-	-	-	-	-	-	-	-
Werie Lehe	*		-	-	*	*	-	-	-	-
Adwa	*		*	*	*	*	*	*	-	-
Laelay Maychew	*		-	-	*	*	*	*	-	-
Tahtay Maychew	*		*	*	*	*	*	*	-	-
Naeder Adet	*		-	-	*	*	*	*	-	-
Kola Temben	*		-	-	*	*	*	*	-	-
Degua Temben	*		-	-	*	*	*	*	-	-
Tanqu Abergele	*		-	-	*	*	-	-	-	-
East Tigray Zone	*		*	*	*	*	*	*	-	-
Gulumahada	*		-	-	*	*	*	*	-	-
Erob	-		-	-	-	-	-	-	-	-
Saesi Tsaedamba	-		-	-	-	-	-	-	-	-
Ganta Afeshum	-		-	-	-	-	-	-	-	-
Hawzen	-		-	-	-	-	-	-	-	-
Wukro	*		*	*	*	*	*	*	-	-
Atsbi Wenberta	-		-	-	-	-	-	-	-	-
South Tigray Zone	23		*	*	20	86.96	*	*	*	*
Seharte Samre	*		-	-	*	*	*	*	-	-
Enderta	*		*	*	*	*	-	-	-	-
Hintalo Wajirat	*		*	*	*	*	*	*	*	*
Ambalage	*		*	*	*	*	*	*	-	-
Endamehoni	-		-	-	-	-	-	-	-	-
Rayaazebo	-		-	-	-	-	-	-	-	-
Alamata	-		-	-	-	-	-	-	-	-
Wofla	-		-	-	-	-	-	-	-	-

TABLE 6.12.1b Guava (Zeytuna)

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	85	*	*	79	92.94	15	17.65	*	*
West Tigray Zone	*	*	*	*	*	*	*	-	-
Kafta	*	*	*	*	*	*	*	-	-
Tahtay Adiyabo	*	*	*	-	-	*	*	-	-
Laelay Adiyabo	*	*	*	*	*	*	*	-	-
Tahtay Koraro	*	*	*	*	*	-	-	-	-
Medebay Zana	*	*	*	*	*	*	*	-	-
Asegede Tsimbela	*	*	*	-	-	*	*	-	-
Tselemti	*	-	-	*	*	*	*	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-
Central Tigray Zone	*	*	*	*	*	*	*	-	-
Mereb Lehe	-	-	-	-	-	-	-	-	-
Ahiferom	*	*	*	*	*	*	*	-	-
Werie Lehe	-	-	-	-	-	-	-	-	-
Adwa	*	*	*	*	*	*	*	-	-
Laelay Maychew	*	-	-	-	-	-	-	-	-
Tahtay Maychew	*	-	-	*	*	*	*	-	-
Naeder Adet	*	-	-	*	*	*	*	-	-
Kola Temben	-	-	-	-	-	-	-	-	-
Degua Temben	*	-	-	*	*	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	2	*	*	*	*	*
Gulumahada	*	*	*	*	*	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	*	*	*	*	*
Ganta Afeshum	*	*	*	*	*	*	*	-	-
Hawzen	*	*	*	*	*	-	-	-	-
Wukro	*	*	*	*	*	*	*	-	-
Atsbi Wenberta	*	*	*	*	*	*	*	-	-
South Tigray Zone	*	*	*	*	*	6	*	*	*
Seharte Samre	*	*	*	*	*	*	*	-	-
Enderta	*	*	*	*	*	*	*	*	*
Hintalo Wajirat	*	*	*	*	*	*	*	-	-
Ambalage	*	-	-	*	*	*	*	-	-
Endamehoni	*	*	*	-	-	*	*	-	-
Rayaazebo	*	*	*	*	*	*	*	-	-
Alamata	*	*	*	*	*	*	*	-	-
Wofla	*	-	-	*	*	*	*	-	-

TABLE 6.12.1c Lemons

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	47	*	*	18	38.3	23	48.94	*	*
West Tigray Zone	13	*	*	1	7.69	6	46.15	*	*
Kafta	1	*	*	*	*	*	*	-	-
Tahtay Adiyabo	*	-	-	-	-	*	*	-	-
Laelay Adiyabo	5	-	-	*	*	*	*	*	*
Tahtay Koraro	1	-	-	*	*	*	*	-	-
Medebay Zana	*	-	-	*	*	*	*	-	-
Asegede Tsimbela	*	*	*	*	*	*	*	-	-
Tselemti	*	-	-	*	*	*	*	-	-
Welkait	*	-	-	-	-	*	*	-	-
Tsegede	*	-	-	-	-	*	*	-	-
Central Tigray Zone	24	*	*	11	45.83	14	58.33	-	-
Mereb Lehe	*	-	-	*	*	*	*	-	-
Ahiferom	*	*	*	*	*	*	*	-	-
Werie Lehe	*	*	*	*	*	*	*	-	-
Adwa	*	-	-	*	*	*	*	-	-
Laelay Maychew	*	-	-	*	*	*	*	-	-
Tahtay Maychew	*	-	-	-	-	*	*	-	-
Naeder Adet	3	*	*	*	*	*	*	-	-
Kola Temben	5	-	-	4	80	*	*	-	-
Degua Temben	*	-	-	*	*	*	*	-	-
Tanqu Abergele	*	-	-	*	*	*	*	-	-
East Tigray Zone	*	*	*	*	*	*	*	-	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	*	*	*	*	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-	-
Hawzen	*	-	-	-	-	-	-	-	-
Wukro	*	*	*	*	*	*	*	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-	-
South Tigray Zone	10	*	*	6	60	*	*	-	-
Seharte Samre	*	-	-	*	*	*	*	-	-
Enderta	*	-	-	*	*	-	-	-	-
Hintalo Wajirat	*	-	-	*	*	*	*	-	-
Ambalage	*	-	-	*	*	*	*	-	-
Endamehoni	*	*	*	*	*	*	*	-	-
Rayaazebo	*	-	-	*	*	*	*	-	-
Alamata	*	-	-	-	-	*	*	-	-
Wofla	*	-	-	*	*	-	-	-	-

TABLE 6.12.1d Mangoes

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	3	*	*	*	*	1	33.33	-	-
West Tigray Zone	*	*	*	*	*	*	*	-	-
Kafta	*	-	-	*	*	*	*	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-	-
Medebay Zana	*	*	*	*	*	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-
Central Tigray Zone	*	*	*	*	*	*	*	-	-
Mereb Lehe	-	-	-	-	-	-	-	-	-
Ahiferom	*	*	*	*	*	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-	-	-
Adwa	*	-	-	-	-	*	*	-	-
Laelay Maychew	*	-	-	-	-	*	*	-	-
Tahtay Maychew	-	-	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	*	-	-	*	*	*	*	-	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	*	-	-	*	*	*	*	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	*	*	*	-	-
Seharte Samre	-	-	-	-	-	-	-	-	-
Enderta	*	*	*	*	*	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-	-	-
Endamehoni	*	*	*	-	-	*	*	-	-
Rayaaazebo	-	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	*	-	-	*	*	*	*	-	-

TABLE 6.12.1e Oranges

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	32	6	18.75	25	78.13	10	31.25	*	*
West Tigray Zone	*	*	*	*	*	*	*	*	*
Kafta	*	-	-	*	*	*	*	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	-	-	*	*	*	*	*	*
Tahtay Koraro	*	*	*	*	*	*	*	*	*
Medebay Zana	*	*	*	*	*	-	-	-	-
Asegede Tsimbela	*	*	*	*	*	-	-	-	-
Tselemti	*	*	*	-	-	-	-	-	-
Welkait	*	-	-	-	-	*	*	-	-
Tsegede	*	-	-	-	-	*	*	-	-
Central Tigray Zone	11	*	*	8	72.73	*	*	*	*
Mereb Lehe	*	*	*	-	-	-	-	-	-
Ahiferom	*	-	-	*	*	-	-	-	-
Werie Lehe	*	*	*	*	*	-	-	-	-
Adwa	*	-	-	*	*	*	*	*	*
Laelay Maychew	*	-	-	*	*	*	*	-	-
Tahtay Maychew	*	-	-	*	*	*	*	-	-
Naeder Adet	*	-	-	*	*	-	-	-	-
Kola Temben	*	*	*	*	*	*	*	-	-
Degua Temben	*	-	-	*	*	*	*	-	-
Tanqu Abergele	*	-	-	*	*	-	-	-	-
East Tigray Zone	5	*	*	*	*	*	*	-	-
Gulumahada	*	-	-	*	*	*	*	-	-
Erob	*	-	-	*	*	-	-	-	-
Saesi Tsaedamba	*	-	-	*	*	*	*	-	-
Ganta Afeshum	2	*	*	*	*	*	*	-	-
Hawzen	*	-	-	-	-	*	*	-	-
Wukro	*	*	*	*	*	*	*	-	-
Atsbi Wenberta	*	-	-	*	*	*	*	-	-
South Tigray Zone	*	*	*	*	*	*	*	-	-
Seharte Samre	*	-	-	*	*	*	*	-	-
Enderta	*	-	-	*	*	-	-	-	-
Hintalo Wajirat	*	-	-	*	*	-	-	-	-
Ambalage	*	-	-	*	*	*	*	-	-
Endamehoni	*	-	-	-	-	*	*	-	-
Rayaazebo	*	*	*	*	*	*	*	-	-
Alamata	*	*	*	*	*	*	*	-	-
Wofla	*	-	-	*	*	*	*	-	-

TABLE 6.12.1f Papayas

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	39	8	20.51	19	48.72	*	*	*	*
West Tigray Zone	*	2	*	4	*	*	*	*	*
Kafta	*	*	*	*	*	*	*	-	-
Tahtay Adiyabo	*	*	*	*	*	*	*	-	-
Laelay Adiyabo	*	*	*	*	*	*	*	-	-
Tahtay Koraro	*	*	*	*	*	*	*	*	*
Medebay Zana	*	*	*	*	*	*	*	-	-
Asegede Tsimbela	*	*	*	*	*	*	*	-	-
Tselemti	*	*	*	*	*	*	*	*	*
Welkait	*	*	*	*	*	*	*	-	-
Tsegede	*	-	-	-	-	*	*	-	-
Central Tigray Zone	11	*	*	9	81.82	3	27.27	-	-
Mereb Lehe	*	-	-	*	*	*	*	-	-
Ahiferom	*	-	-	*	*	-	-	-	-
Werie Lehe	*	*	*	*	*	*	*	-	-
Adwa	*	*	*	*	*	*	*	-	-
Laelay Maychew	*	-	-	*	*	-	-	-	-
Tahtay Maychew	*	*	*	*	*	-	-	-	-
Naeder Adet	*	*	*	*	*	*	*	-	-
Kola Temben	*	-	-	*	*	*	*	-	-
Degua Temben	*	-	-	*	*	-	-	-	-
Tanqu Abergele	*	-	-	*	*	*	*	-	-
East Tigray Zone	*	*	*	*	*	*	*	-	-
Gulumahada	*	-	-	-	-	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	*	*	*	*	*	*	*	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-	-
South Tigray Zone	7	*	*	*	*	*	*	-	-
Seharte Samre	*	-	-	*	*	*	*	-	-
Enderta	*	-	-	*	*	-	-	-	-
Hintalo Wajirat	*	*	*	*	*	*	*	-	-
Ambalage	*	-	-	*	*	-	-	-	-
Endamehoni	*	-	-	*	*	-	-	-	-
Rayaazebo	*	*	*	*	*	-	-	-	-
Alamata	*	*	*	*	*	*	*	-	-
Wofla	-	-	-	-	-	-	-	-	-

TABLE 6.12.1g Other Fruits

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	3990	11	0.28	39	0.98	719	18.02	*	*
West Tigray Zone	2	*	*	*	*	*	*	-	-
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	-	-	*	*	*	*	-	-
Tahtay Koraro	*	-	-	*	*	*	*	-	-
Medebay Zana	*	-	-	*	*	*	*	-	-
Asegede Tsimbela	*	*	*	*	*	*	*	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	*	-	-	-	-	*	*	-	-
Central Tigray Zone	92	*	*	10	10.87	10	10.87	-	-
Mereb Lehe	*	-	-	*	*	*	*	-	-
Ahiferom	*	*	*	*	*	*	*	-	-
Werie Lehe	17	*	*	*	*	*	*	-	-
Adwa	*	-	-	*	*	*	*	-	-
Laelay Maychew	*	-	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-	-	-
Naeder Adet	*	-	-	*	*	*	*	-	-
Kola Temben	*	*	*	*	*	*	*	-	-
Degua Temben	39	-	-	*	*	*	*	-	-
Tanqu Abergele	*	-	-	-	-	*	*	-	-
East Tigray Zone	3235	*	*	18	0.56	635	19.63	*	*
Gulumahada	724	*	*	*	*	155	21.41	-	-
Erob	191	-	-	*	*	27	14.14	-	-
Saesi Tsaedamba	716	*	*	*	*	108	15.08	-	-
Ganta Afeshum	642	*	*	*	*	178	27.73	*	*
Hawzen	371	-	-	*	*	52	14.02	-	-
Wukro	405	*	*	*	*	61	15.06	-	-
Atsbi Wenberta	186	-	-	-	-	55	29.57	*	*
South Tigray Zone	662	1	0.15	11	1.66	73	11.03	*	*
Seharte Samre	47	*	*	*	*	11	23.4	-	-
Enderta	354	*	*	*	*	*	*	-	-
Hintalo Wajirat	210	*	*	*	*	*	*	*	*
Ambalage	45	*	*	*	*	*	*	-	-
Endamehoni	*	-	-	*	*	*	*	-	-
Rayaazebo	1	*	*	*	*	-	-	-	-
Alamata	*	-	-	*	*	*	*	-	-
Wofla	*	-	-	*	*	*	*	-	-

TABLE 6.12.2 URBAN HOLDINGS

Geographic Area	Fruit Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Tigray Region	106	17	16.04	96	90.57	27	25.47	*	*
West Tigray Zone	8	3	37.5	7	87.5	*	*	*	*
Kafta	*	-	-	*	*	-	-	*	*
Tahtay Adiyabo	*	*	*	*	*	-	-	-	-
Laelay Adiyabo	*	*	*	*	*	*	*	*	*
Tahtay Koraro	3	*	*	3	100.00	*	*	-	-
Medebay Zana	*	*	*	*	*	-	-	-	-
Asegede Tsimbela	3	3	100.00	1	33.33	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	*	-	-	*	*	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-
Central Tigray Zone	44	10	22.73	37	84.09	15	34.09	*	*
Mereb Lehe	3	*	*	2	66.67	*	*	-	-
Ahiferom	*	*	*	*	*	*	*	-	-
Werie Lehe	11	*	*	*	*	*	*	-	-
Adwa	7	*	*	7	100.00	2	28.57	*	*
Laelay Maychew	8	-	-	5	62.5	4	50	-	-
Tahtay Maychew	*	-	-	*	*	*	*	-	-
Naeder Adet	-	-	-	-	-	-	-	-	-
Kola Temben	14	*	*	14	100.00	*	*	-	-
Degua Temben	-	-	-	-	-	-	-	-	-
Tanqu Abergele	*	*	*	*	*	*	*	-	-
East Tigray Zone	1	-	-	1	100.00	*	*	-	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	1	-	-	1	100.00	*	*	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-	-	-
Atsbi Wenberta	*	-	-	*	*	*	*	-	-
South Tigray Zone	45	*	*	44	97.78	3	6.67	3	6.67
Seharte Samre	-	-	-	-	-	-	-	-	-
Enderta	*	*	*	*	*	*	*	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-	-
Ambalage	*	-	-	*	*	-	-	-	-
Endamehoni	-	-	-	-	-	-	-	-	-
Rayaazebo	4	1	25	3	75	3	75	3	75
Alamata	38	-	-	38	100.00	-	-	*	*
Wofla	-	-	-	-	-	-	-	-	-
Mekele Zone	*	*	*	*	*	*	*	*	*
Mekele	*	*	*	*	*	*	*	*	*

TABLE 6.13: AREA OF LAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Stimulant Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	1815	22	1.21	694	38.24	613	33.77	31	1.71
West Tigray Zone	158	*	*	26	16.46	54	34.18	2	1.27
Kafta	8	-	-	*	*	4	50	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	18	-	-	2	11.11	*	*	*	*
Tahtay Koraro	28	*	*	4	14.29	8	28.57	*	*
Medebay Zana	30	-	-	8	26.67	9	30	-	-
Asegede Tsimbela	20	*	*	*	*	*	*	*	*
Tselemti	*	-	-	-	-	*	*	-	-
Welkait	27	-	-	-	-	*	*	-	-
Tsegede	26	-	-	*	*	11	42.31	*	*
Central Tigray Zone	933	*	*	258	27.65	391	41.91	*	*
Mereb Lehe	2	*	*	1	50	1	50	-	-
Ahiferom	611	*	*	89	14.57	*	*	*	*
Werie Lehe	75	*	*	*	*	21	28	*	*
Adwa	49	*	*	12	24.49	13	26.53	*	*
Laelay Maychew	11	-	-	4	36.36	2	18.18	*	*
Tahtay Maychew	25	*	*	5	20	5	20	-	-
Naeder Adet	35	*	*	4	11.43	19	54.29	-	-
Kola Temben	63	*	*	48	76.19	14	22.22	*	*
Degua Temben	*	-	-	*	*	*	*	*	*
Tanqu Abergele	22	-	-	21	95.45	*	*	*	*
East Tigray Zone	118	-	-	27	22.88	57	48.31	*	*
Gulumahada	5	-	-	1	20	1	20	-	-
Eröb	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	17	-	-	*	*	*	*	-	-
Ganta Afeshum	78	-	-	15	19.23	36	46.15	*	*
Hawzen	13	-	-	*	*	5	38.46	-	-
Wukro	4	-	-	2	50	2	50	-	-
Atsbi Wenberta	1	-	-	*	*	*	*	-	-
South Tigray Zone	607	12	1.98	384	63.26	111	18.29	*	*
Seharte Samre	32	-	-	27	84.38	*	*	*	*
Enderta	19	*	*	13	68.42	*	*	*	*
Hintalo Wajirat	42	*	*	34	80.95	13	30.95	*	*
Ambalage	37	-	-	25	67.57	12	32.43	-	-
Endamehoni	110	-	-	*	*	*	*	*	*
Rayaazebo	252	6	2.38	*	*	*	*	*	*
Alamata	35	-	-	30	85.71	*	*	*	*
Wofla	80	-	-	67	83.75	19	23.75	-	-

TABLE 6.13.1: RURAL MEHER

Geographic Area	Stimulant Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	1628	*	*	596	36.61	584	35.87	12	0.74
West Tigray Zone	155	*	*	26	16.77	54	34.84	2	1.29
Kafta	8	-	-	*	*	4	50	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	18	-	-	*	*	*	*	*	*
Tahtay Koraro	28	*	*	4	14.29	8	28.57	*	*
Medebay Zana	30	-	-	8	26.67	9	30	-	-
Asegede Tsimbela	20	*	*	*	*	*	*	*	*
Tselemti	*	-	-	-	-	*	*	-	-
Welkait	25	-	-	*	*	*	*	-	-
Tsegede	26	-	-	*	*	11	42.31	*	*
Central Tigray Zone	872	*	*	219	25.11	368	42.2	*	*
Mereb Lehe	2	-	-	*	*	*	*	-	-
Ahiferom	*	*	*	*	*	*	*	*	*
Werie Lehe	*	-	-	*	*	7	*	*	*
Adwa	34	-	-	*	*	12	35.29	*	*
Laelay Maychew	6	-	-	1	16.67	1	16.67	*	*
Tahtay Maychew	25	*	*	5	20	5	20	-	-
Naeder Adet	35	*	*	3	8.57	19	54.29	-	-
Kola Temben	49	-	-	40	81.63	*	*	*	*
Degua Temben	*	-	-	*	*	*	*	*	*
Tanqu Abergele	*	-	-	*	*	*	*	-	-
East Tigray Zone	117	-	-	27	23.08	57	48.72	*	*
Gulumahada	5	-	-	1	20	1	20	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	17	-	-	*	*	*	*	-	-
Ganta Afeshum	78	-	-	15	19.23	36	46.15	*	*
Hawzen	13	-	-	*	*	5	38.46	-	-
Wukro	4	-	-	2	50	2	50	-	-
Atsbi Wenberta	1	-	-	*	*	*	*	-	-
South Tigray Zone	483	*	*	325	67.29	105	21.74	*	*
Seharte Samre	*	-	-	*	*	*	*	*	*
Enderta	13	*	*	9	69.23	*	*	*	*
Hintalo Wajirat	42	*	*	34	80.95	13	30.95	*	*
Ambalage	37	-	-	25	67.57	12	32.43	-	-
Endamehoni	54	-	-	5	9.26	*	*	*	*
Rayaaazebo	*	*	*	*	*	*	*	*	*
Alamata	*	-	-	-	-	*	*	*	*
Wofla	79	-	-	67	84.81	19	24.05	-	-

TABLE 6.13.1a Chat

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	197	-	-	*	*	*	*	*	*
West Tigray Zone	*	-	-	*	*	*	*	*	*
Kafta	*	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-	-
Tahtay Koraro	*	-	-	*	*	*	*	*	*
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	*	-	-	-	-	*	*	-	-
Central Tigray Zone	*	-	-	*	*	*	*	-	-
Mereb Lehe	-	-	-	-	-	-	-	-	-
Ahiferom	*	-	-	-	-	*	*	-	-
Werie Lehe	-	-	-	-	-	-	-	-	-
Adwa	*	-	-	*	*	*	*	-	-
Laelay Maychew	-	-	-	-	-	-	-	-	-
Tahtay Maychew	*	-	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	*	-	-	*	*	-	-	-	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	*	-	-	*	*	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-	-
South Tigray Zone	196	-	-	*	*	*	*	*	*
Seharte Samre	*	-	-	*	*	-	-	-	-
Enderta	*	-	-	*	*	-	-	-	-
Hintalo Wajirat	*	-	-	*	*	-	-	-	-
Ambalage	*	-	-	*	*	*	*	-	-
Endamehoni	*	-	-	*	*	*	*	*	*
Rayazebo	*	-	-	*	*	*	*	*	*
Alamata	*	-	-	-	-	*	*	*	*
Wofla	*	-	-	*	*	*	*	-	-

TABLE 6.13.1b Coffee

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	133	*	*	113	84.96	23	17.29	*	*
West Tigray Zone	11	*	*	9	81.82	*	*	*	*
Kafta	*	-	-	*	*	*	*	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	-	-	*	*	*	*	-	-
Tahtay Koraro	*	*	*	*	*	*	*	*	*
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	*	*	*	*	*	*	*	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	*	-	-	-	-	-	-	-	-
Tsegede	*	-	-	*	*	-	-	-	-
Central Tigray Zone	30	*	*	*	*	*	*	*	*
Mereb Lehe	-	-	-	-	-	-	-	-	-
Ahiferom	*	*	*	*	*	*	*	-	-
Werie Lehe	*	-	-	*	*	-	-	-	-
Adwa	*	-	-	*	*	*	*	-	-
Laelay Maychew	*	-	-	*	*	*	*	*	*
Tahtay Maychew	*	*	*	*	*	-	-	-	-
Naeder Adet	*	*	*	*	*	*	*	-	-
Kola Temben	*	-	-	*	*	*	*	-	-
Degua Temben	*	-	-	*	*	*	*	-	-
Tanqu Abergele	*	-	-	*	*	*	*	-	-
East Tigray Zone	*	-	-	*	*	*	*	-	-
Gulumahada	*	-	-	-	-	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	*	*	*	*	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	*	-	-	*	*	*	*	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	*	*	*	*	*
Seharte Samre	*	-	-	*	*	*	*	-	-
Enderta	*	*	*	*	*	-	-	-	-
Hintalo Wajirat	*	*	*	*	*	*	*	*	*
Ambalage	5	-	-	4	80	*	*	-	-
Endamehoni	*	-	-	*	*	*	*	-	-
Rayazebo	*	*	*	*	*	*	*	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	11	-	-	11	100	*	*	-	-

TABLE 6.13.1c Hops

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	1298	-	-	376	28.97	523	40.29	4	0.31
West Tigray Zone	144	-	-	16	11.11	51	35.42	*	*
Kafta	6	-	-	*	*	3	50	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	17	-	-	1	5.88	*	*	*	*
Tahtay Koraro	27	-	-	3	11.11	7	25.93	*	*
Medebay Zana	30	-	-	8	26.67	9	30	-	-
Asegede Tsimbela	12	-	-	*	*	*	*	*	*
Tselemti	*	-	-	-	-	*	*	-	-
Welkait	25	-	-	*	*	*	*	-	-
Tsegede	25	-	-	*	*	11	44	*	*
Central Tigray Zone	842	-	-	194	23.04	360	42.76	*	*
Mereb Lehe	2	-	-	*	*	*	*	-	-
Ahiferom	*	-	-	*	*	*	*	*	*
Werie Lehe	*	-	-	*	*	7	*	*	*
Adwa	32	-	-	*	*	11	34.38	*	*
Laelay Maychew	6	-	-	1	16.67	1	16.67	-	-
Tahtay Maychew	25	-	-	5	20	5	20	-	-
Naeder Adet	34	-	-	3	8.82	19	55.88	-	-
Kola Temben	29	-	-	20	68.97	*	*	*	*
Degua Temben	*	-	-	*	*	*	*	*	*
Tanqu Abergele	*	-	-	*	*	*	*	-	-
East Tigray Zone	117	-	-	26	22.22	57	48.72	*	*
Gulumahada	5	-	-	1	20	1	20	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	17	-	-	*	*	*	*	-	-
Ganta Afeshum	78	-	-	15	19.23	36	46.15	*	*
Hawzen	13	-	-	*	*	5	38.46	-	-
Wukro	4	-	-	2	50	2	50	-	-
Atsbi Wenberta	1	-	-	*	*	*	*	-	-
South Tigray Zone	195	-	-	139	71.28	55	28.21	*	*
Seharte Samre	*	-	-	*	*	*	*	*	*
Enderta	10	-	-	8	80	*	*	*	*
Hintalo Wajirat	40	-	-	32	80	11	27.5	-	-
Ambalage	32	-	-	22	68.75	9	28.13	-	-
Endamehoni	22	-	-	4	18.18	6	27.27	-	-
Rayaazebo	*	-	-	*	*	*	*	-	-
Alamata	-	-	-	-	-	-	-	-	-
Wofla	62	-	-	54	87.1	15	24.19	-	-

TABLE 6.13.2 URBAN HOLDINGS

Geographic Area	Stimulant Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	187	13	6.95	98	52.41	30	16.04	*	*
West Tigray Zone	3	-	-	*	*	1	33.33	-	-
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	-	-	*	*	*	*	-	-
Tahtay Koraro	*	-	-	*	*	-	-	-	-
Medebay Zana	*	-	-	*	*	-	-	-	-
Asegede Tsimbela	1	-	-	-	-	1	100.00	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	*	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-
Central Tigray Zone	60	*	*	38	63.33	23	38.33	*	*
Mereb Lehe	1	*	*	*	*	*	*	-	-
Ahiferom	*	*	*	*	*	*	*	-	-
Werie Lehe	*	*	*	*	*	*	*	-	-
Adwa	*	*	*	2	*	1	*	*	*
Laelay Maychew	5	-	-	3	60	1	20	-	-
Tahtay Maychew	*	-	-	*	*	-	-	-	-
Naeder Adet	*	-	-	*	*	-	-	-	-
Kola Temben	14	*	*	8	57.14	6	42.86	-	-
Degua Temben	-	-	-	-	-	-	-	-	-
Tanqu Abergele	4	-	-	4	100.00	*	*	*	*
East Tigray Zone	*	-	-	*	*	*	*	-	-
Gulumahada	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-	-
Ganta Afeshum	*	-	-	*	*	*	*	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	*	-	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-	-
South Tigray Zone	124	9	7.26	59	47.58	6	4.84	*	*
Seharte Samre	*	-	-	*	*	-	-	-	-
Enderta	7	*	*	*	*	*	*	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-	-
Ambalage	*	-	-	*	*	*	*	-	-
Endamehoni	55	-	-	*	*	3	5.45	*	*
Rayaazebo	25	5	20	3	12	3	12	3	12
Alamata	30	-	-	30	100.00	-	-	-	-
Wofla	*	-	-	*	*	-	-	-	-
Mekele Zone	*	-	-	*	*	-	-	-	-
Mekele	*	-	-	*	*	-	-	-	-

TABLE 6.14: AREA OF LAND UNDER IMPROVED FARM PRACTICES BY CROP CATEGORY IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Other Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	Area	%	Area	%	Area	%	Area
Tigray Region	53	*	*	4	7.55	30	56.6	*	*
West Tigray Zone	*	-	-	-	-	*	*	-	-
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	-	-	-	-	*	*	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-	-
Tahtay Koraro	*	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	*	-	-	-	-	*	*	-	-
Tselemti	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	*	-	-	-	-	-	-	-	-
Central Tigray Zone	20	*	*	*	*	*	*	*	*
Mereb Lehe	*	-	-	-	-	-	-	-	-
Ahiferom	*	-	-	-	-	*	*	-	-
Werie Lehe	*	-	-	*	*	-	-	-	-
Adwa	*	*	*	-	-	*	*	-	-
Laelay Maychew	*	*	*	*	*	*	*	*	*
Tahtay Maychew	*	-	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-	-
Kola Temben	*	-	-	-	-	*	*	*	*
Degua Temben	*	-	-	*	*	*	*	-	-
Tanqu Abergele	*	-	-	*	*	-	-	-	-
East Tigray Zone	8	*	*	*	*	5	62.5	-	-
Gulumahada	*	-	-	-	-	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	*	*	*	*	-	-
Ganta Afeshum	*	-	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	*	*	*	-	-	*	*	-	-
Atsbi Wenberta	*	-	-	-	-	-	-	-	-
South Tigray Zone	11	*	*	*	*	7	63.64	*	*
Seharte Samre	*	-	-	-	-	*	*	-	-
Enderta	*	-	-	-	-	-	-	-	-
Hintalo Wajirat	1	-	-	-	-	*	*	-	-
Ambalage	*	*	*	*	*	*	*	*	*
Endamehoni	1	-	-	-	-	*	*	-	-
Rayazebo	*	-	-	-	-	*	*	-	-
Alamata	*	*	*	-	-	-	-	-	-
Wofla	*	-	-	*	*	*	*	-	-

TABLE 6.14.1 RURAL MEHER

Geographic Area	Other Permanent Crops								
	Total Crop Area	Improved Seed		Irrigated		Fertilizer		Pesticide	
		Area	%	Area	%	Area	%	Area	%
Tigray Region	53	*	*	*	*	30	56.6	*	*
West Tigray Zone	*	-	-	*	*	*	*	-	-
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	-	-	-	-	*	*	-	-
Laelay Adiyabo	*	-	-	-	-	-	-	-	-
Tahtay Koraro	*	-	-	-	-	-	-	-	-
Medebay Zana	*	-	-	-	-	-	-	-	-
Asegede Tsimbela	*	-	-	-	-	*	*	-	-
Tselemti	*	-	-	*	*	*	*	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	*	-	-	-	-	-	-	-	-
Central Tigray Zone	20	*	*	*	*	*	*	*	*
Mereb Lehe	*	-	-	-	-	-	-	-	-
Ahiferom	*	-	-	-	-	*	*	-	-
Werie Lehe	*	-	-	*	*	-	-	-	-
Adwa	*	*	*	-	-	*	*	-	-
Laelay Maychew	*	*	*	*	*	*	*	*	*
Tahtay Maychew	*	-	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-	-
Kola Temben	*	-	-	-	-	*	*	*	*
Degua Temben	*	-	-	*	*	*	*	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	8	*	*	*	*	5	62.5	-	-
Gulumahada	*	-	-	-	-	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	*	*	*	*	-	-
Ganta Afeshum	*	-	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	*	*	*	-	-	*	*	-	-
Atsbi Wenberta	*	*	*	*	*	-	-	-	-
South Tigray Zone	11	*	*	*	*	7	63.64	*	*
Seharte Samre	*	-	-	-	-	*	*	-	-
Enderta	*	-	-	-	-	*	*	-	-
Hintalo Wajirat	1	-	-	-	-	*	*	-	-
Ambalage	*	*	*	*	*	*	*	*	*
Endamehoni	1	-	-	-	-	*	*	-	-
Rayazebo	*	-	-	-	-	*	*	-	-
Alamata	*	*	*	-	-	-	-	-	-
Wofla	*	-	-	*	*	*	*	-	-

TABLE 6.14.1a Other of other permanent crops

Geographic Area	Total Crop	Improved Seed		Irrigated		Fertilizer		Pesticide	
	Area	Area	%	Area	%	Area	%	Area	%
Tigray Region	50	*	*	*	*	29	58	*	*
West Tigray Zone	*	-	-	*	*	*	*	-	-
Kafta	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	-	-	-	-	*	*	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-	-
Tahtay Koraro	*	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	*	-	-	-	-	*	*	-	-
Tselemti	*	-	-	*	*	*	*	-	-
Welkait	-	-	-	-	-	-	-	-	-
Tsegede	*	-	-	-	-	-	-	-	-
Central Tigray Zone	*	*	*	-	-	*	*	*	*
Mereb Lehe	*	-	-	-	-	-	-	-	-
Ahiferom	*	-	-	-	-	*	*	-	-
Werie Lehe	-	-	-	-	-	-	-	-	-
Adwa	*	*	*	-	-	*	*	-	-
Laelay Maychew	*	*	*	-	-	*	*	*	*
Tahtay Maychew	*	-	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-	-
Kola Temben	*	-	-	-	-	*	*	*	*
Degua Temben	*	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-
East Tigray Zone	8	*	*	*	*	5	62.5	-	-
Gulumahada	*	-	-	-	-	*	*	-	-
Erob	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	*	*	*	*	-	-
Ganta Afeshum	*	-	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-	-
Wukro	*	*	*	-	-	*	*	-	-
Atsbi Wenberta	*	*	*	*	*	-	-	-	-
South Tigray Zone	10	*	*	*	*	7	70	*	*
Seharte Samre	*	-	-	-	-	*	*	-	-
Enderta	*	-	-	-	-	*	*	-	-
Hintalo Wajirat	1	-	-	-	-	*	*	-	-
Ambalage	*	*	*	*	*	*	*	*	*
Endamehoni	1	-	-	-	-	*	*	-	-
Rayaaazebo	*	-	-	-	-	*	*	-	-
Alamata	*	*	*	-	-	-	-	-	-
Wofla	1	-	-	*	*	*	*	-	-

TABLE 6.15: NUMBER OF HOLDER APPLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP TYPE IN RURAL AREAS, BOTH SEASONS, FOR PRIVATE HOLDINGS

CROP	Application of total Fertilizers		Application of Fertilizers by Type and Quantity				
	Holder	Hectare	Natural		Chemical – DAP		
			Holder	Hectare	Holder	Hectare	Quintal
TOTAL	511758	245896	371546	112841	24498	7052	4805
Grain Crops	502975	241829	346674	110492	23419	7018	4758
Cereals	498151	230986	331710	101981	22024	6642	4500
Teff	221902	64643	53779	11710	8717	2743	1531
Barley	191607	27548	99399	11614	6902	1083	999
Wheat	181178	31105	70043	8790	5533	770	693
Maize	288499	41957	214628	28761	2638	337	356
Sorghum	113444	37113	95436	30970	1391	380	193
Finger millet	117659	28568	51547	10096	4232	1329	728
Oats ('Aja')	406	52	267	39	-	-	-
Rice	*	*	-	-	-	-	-
Pulses	98330	8529	80098	6712	2018	215	246
Horse beans	70021	4601	56394	3578	1209	142	161
Field peas	11454	761	9180	566	499	48	60
Haricot beans	3643	268	3244	255	-	-	-
Chick peas	12348	1719	10802	1461	*	*	*
Lentils	6285	423	4700	319	297	11	17
Vetch	4594	637	3651	487	-	-	-
Soya	173	*	*	*	-	-	-
Fenugreek	1674	104	866	31	*	*	*
Gibto	-	-	-	-	-	-	-
Oil Seeds	15570	2242	12395	1760	212	*	12
Neug	4359	567	3101	513	*	*	*
Linseed	6613	378	5346	306	91	*	*
Ground nuts	*	*	-	-	-	-	-
Sufflower	627	19	376	11	*	*	-
Sesame	3988	1260	3555	919	83	*	*
Rapeseed	527	15	407	11	-	-	-
Other Grains	2458	72	1981	38	-	-	-
Vegetables	63048	1438	51087	625	620	5	10
Lettuce	3192	21	2310	11	-	-	-
Head cabbage	2234	43	1304	13	-	-	-
Kale	702	11	589	4	-	-	-
Tomatoes	7974	209	5000	87	*	*	*
Green peppers	16697	179	12579	110	*	*	*
Red peppers	37819	538	33032	372	461	3	5
Swiss chard	3089	26	1866	14	*	*	*
Others	1201	*	938	14	-	-	-
Root Crops	35439	1181	21487	437	756	25	34
Beet root	438	*	197	*	-	-	-
Carrot	2166	31	1161	16	*	*	*
Onions	17140	640	8253	176	*	4	12
Potatoes	11191	382	7074	169	*	*	20
Garlic	10337	92	7574	60	*	*	*
Taro ('Godere')	-	-	-	-	-	-	-
Sweet potatoes	213	*	*	*	*	*	*
Others	476	31	308	*	-	-	-
Permanent Crops	50395	1448	45652	1287	307	4	*
Fruit Crops	22421	834	21431	814	*	*	*
Avocado	*	*	*	*	-	-	-
Bananas	2086	*	1987	*	-	-	-
Guava (Zeytuna)	1463	15	1177	11	*	*	-
Lemons	3040	23	2732	15	*	*	*
Mangoes	201	1	167	*	-	-	-
Oranges	1538	10	1391	9	-	-	-
Papayas	2022	*	1930	*	-	-	-
Pineapples	-	-	-	-	-	-	-
Others	15657	719	15438	713	*	*	*
Stimulant Crops	33229	584	29077	454	*	*	*
Chat	1181	*	1089	*	-	-	-
Coffee	1439	23	1251	21	-	-	-
Hops	31929	523	27838	402	*	*	*
Others	-	-	-	-	-	-	-
Other Permanent Crops	2132	30	1836	19	*	*	*
Enset	*	*	*	*	-	-	-
Sugar Cane	*	*	*	*	-	-	-
Others	2035	29	1772	18	*	*	*

TABLE 6.15 CONTD.

CROP	Application of Fertilizers by Type and Quantity					
	Chemical - UREA			Chemical - DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
TOTAL .....	20564	4761	3375	296262	121242	124740
Grain Crops.....	18065	4671	3204	292864	119648	122394
Cereals .....	17414	4501	3112	291558	117862	119861
Teff .....	7005	1603	1040	163202	48587	48659
Barley.....	4070	701	575	101250	14150	12729
Wheat.....	4170	781	746	121667	20764	22785
Maize.....	3762	409	289	78359	12450	15962
Sorghum.....	1257	344	139	19887	5418	4838
Finger millet.....	3085	662	325	66040	16480	14879
Oats ('Aja').....	-	-	-	139	13	*
Rice.....	-	-	-	*	*	*
Pulses .....	1182	89	80	17902	1513	2272
Horse beans.....	609	39	47	12794	842	1302
Field peas.....	233	18	*	1633	129	171
Haricot beans.....	*	*	*	321	*	*
Chick peas.....	154	*	*	1334	225	259
Lentils.....	*	*	*	1280	92	*
Vetch.....	*	*	*	971	146	148
Soya.....	-	-	-	*	*	*
Fenugreek.....	*	*	*	779	68	56
Gibto.....	-	-	-	-	-	-
Oil Seeds .....	205	*	12	3033	239	206
Neug.....	*	*	*	1310	53	60
Linseed.....	*	*	*	1085	65	61
Ground nuts.....	-	-	-	*	*	*
Safflower.....	*	*	*	232	7	*
Sesame.....	*	*	*	292	108	81
Rapeseed.....	-	-	-	*	*	*
Other Grains .....	-	-	-	502	33	55
Vegetables .....	1613	27	72	11070	*	726
Lettuce.....	152	*	*	803	6	14
Head cabbage.....	321	4	9	679	26	46
Kale.....	-	-	-	113	*	*
Tomatoes.....	436	8	13	2896	113	232
Green peppers.....	267	3	*	4074	64	168
Red peppers.....	521	7	7	4024	156	202
Swiss chard.....	324	2	*	967	9	22
Others.....	-	-	-	263	*	*
Root Crops.....	1681	50	95	13823	670	1489
Beet root.....	*	*	*	196	*	*
Carrot.....	*	*	*	929	12	20
Onions.....	705	22	49	8518	438	886
Potatoes.....	539	21	36	3681	171	381
Garlic.....	284	2	2	2528	29	184
Taro ('Godere').....	-	-	-	-	-	-
Sweet potatoes.....	-	-	-	*	*	*
Others.....	*	*	*	149	18	*
Permanent Crops.....	491	*	*	4597	145	131
Fruit Crops.....	172	*	*	845	15	19
Avocado.....	-	-	-	*	*	*
Bananas.....	*	*	*	*	*	*
Guava (Zeytuna) ...	*	*	*	*	*	*
Lemons.....	*	*	*	245	*	*
Mangoes.....	-	-	-	*	*	*
Oranges.....	*	*	*	122	*	*
Papayas.....	-	-	-	*	*	*
Pineapples.....	-	-	-	-	-	-
Others.....	*	*	*	179	*	*
Stimulant Crops.....	382	*	*	4064	120	108
Chat.....	*	*	*	*	*	*
Coffee.....	*	*	*	162	*	*
Hops.....	333	2	*	4002	117	103
Others.....	-	-	-	-	-	-
Other Permanent Crops....	-	-	-	228	*	*
Enset.....	-	-	-	-	-	-
Sugar Cane.....	-	-	-	*	*	*
Others.....	-	-	-	194	*	*

TABLE 6.15.1: RURAL MEHER

CROP	Application of total Fertilizers		Application of Fertilizers by Type and Quantity				
	Holder	Hectare	Natural		Chemical - DAP		
			Holder	Hectare	Holder	Hectare	Quintal
TOTAL	506110	241649	365033	111256	23803	6998	4755
Grain Crops	498436	238752	342221	109311	23147	6981	4723
Cereals	493377	228134	327186	100925	21752	6605	4465
Teff	221330	64494	53273	11569	8700	2738	1526
Barley	189935	27128	97721	11278	6815	1074	994
Wheat	180774	31041	69574	8734	5533	770	693
Maize	277134	39750	209680	28238	2410	317	335
Sorghum	113383	37102	95436	30970	1373	377	189
Finger millet	117639	28567	51527	10096	4232	1329	728
Oats ('Aja')	406	52	267	39	-	-	-
Rice	-	-	-	-	-	-	-
Pulses	97085	8333	79256	6603	2018	215	246
Horse beans	69959	4599	56332	3577	1209	142	161
Field peas	11214	736	8992	546	499	48	60
Haricot beans	3643	268	3244	255	-	-	-
Chick peas	11624	1578	10362	1383	*	*	*
Lentils	6162	419	4609	316	297	11	17
Vetch	4478	632	3600	484	-	-	-
Soya	173	*	*	*	-	-	-
Fenugreek	1329	86	657	26	*	*	*
Gibto	-	-	-	-	-	-	-
Oil Seeds	15464	2240	12288	1758	212	*	12
Neug	4359	567	3101	513	*	*	*
Linseed	6506	376	5239	304	91	*	*
Ground nuts	*	*	-	-	-	-	-
Sufflower	627	19	376	11	*	*	-
Sesame	3988	1260	3555	919	83	*	*
Rapeseed	527	15	407	11	-	-	-
Other Grains	1482	45	1130	25	-	-	-
Vegetables	53488	1041	44911	444	546	4	8
Lettuce	982	5	547	1	-	-	-
Head cabbage	819	7	526	4	-	-	-
Kale	381	*	301	2	-	-	-
Tomatoes	2883	49	1674	24	*	*	*
Green peppers	14177	118	10861	85	*	*	*
Red peppers	34657	437	30918	312	461	3	5
Swiss chard	1412	5	736	3	*	*	*
Others	1156	*	910	13	-	-	-
Root Crops	21927	409	15352	214	249	*	19
Beet root	186	*	*	*	-	-	-
Carrot	1335	19	723	12	-	-	-
Onions	6864	124	3783	42	*	*	*
Potatoes	7068	164	5479	102	*	*	*
Garlic	8943	70	6561	46	*	*	*
Taro ('Godere')	-	-	-	-	-	-	-
Sweet potatoes	190	*	*	*	*	*	*
Others	411	30	244	*	-	-	-
Permanent Crops	50395	1448	45652	1287	307	4	*
Fruit Crops	22421	834	21431	814	*	*	*
Avocado	*	*	*	*	-	-	-
Bananas	2086	*	1987	*	-	-	-
Guava (Zeytuna)	1463	15	1177	11	*	*	*
Lemons	3040	23	2732	15	*	*	*
Mangoes	201	1	167	*	-	-	-
Oranges	1538	10	1391	9	-	-	-
Papayas	2022	*	1930	*	-	-	-
Pineapples	-	-	-	-	-	-	-
Others	15657	719	15438	713	*	*	*
Stimulant Crops	33229	584	29077	454	*	*	*
Chat	1181	*	1089	*	-	-	-
Coffee	1439	23	1251	21	-	-	-
Hops	31929	523	27838	402	*	*	*
Others	-	-	-	-	-	-	-
Other Permanent Crops	2132	30	1836	19	*	*	*
Enset	*	*	*	*	-	-	-
Sugar Cane	*	*	*	*	-	-	-
Others	2035	29	1772	18	*	*	*

TABLE 6.15.1 CONTD

CROP	Application of Fertilizers by Type and Quantity					
	Chemical – UREA			Chemical - DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
TOTAL .....	18457	4611	3202	289215	118784	120976
Grain Crops.....	17034	4573	3126	288193	117887	119991
Cereals.....	16435	4404	3035	286982	116200	117585
Teff.....	7005	1603	1040	163137	48584	48655
Barley.....	3984	696	567	100418	14079	12583
Wheat.....	4170	781	746	121517	20756	22768
Maize.....	2772	317	219	69538	10878	13867
Sorghum.....	1257	344	139	19843	5410	4827
Finger millet.....	3085	662	325	66040	16480	14879
Oats ('Aja').....	-	-	-	139	13	*
Rice.....	-	-	-	-	-	-
Pulses.....	1131	88	79	17350	1428	2171
Horse beans.....	609	39	47	12794	842	1302
Field peas.....	233	18	*	1542	123	157
Haricot beans.....	*	*	*	321	*	*
Chick peas.....	135	*	*	1041	162	185
Lentils.....	-	-	-	1280	92	*
Vetch.....	*	*	*	906	144	142
Soya.....	-	-	-	*	*	*
Fenugreek.....	*	*	*	643	55	50
Gibto.....	-	-	-	-	-	-
Oil Seeds.....	205	*	12	3033	239	206
Neug.....	*	*	*	1310	53	60
Linseed.....	*	*	*	1085	65	61
Ground nuts.....	-	-	-	*	*	*
Sufflower.....	*	*	*	232	7	*
Sesame.....	*	*	*	292	108	81
Rapeseed.....	-	-	-	*	*	*
Other Grains.....	-	-	-	376	20	29
Vegetables.....	872	9	40	7486	*	307
Lettuce.....	*	*	*	351	2	6
Head cabbage.....	*	*	*	*	*	*
Kale.....	-	-	-	*	*	*
Tomatoes.....	136	*	*	1090	22	57
Green peppers.....	207	1	*	3087	31	79
Red peppers.....	338	2	2	2993	*	110
Swiss chard.....	*	*	*	518	2	8
Others.....	-	-	-	246	*	*
Root Crops.....	814	17	32	6125	168	547
Beet root.....	-	-	-	*	*	*
Carrot.....	*	*	*	423	4	7
Onions.....	236	*	*	2861	78	249
Potatoes.....	244	*	*	1287	45	104
Garlic.....	204	*	*	2151	22	*
Taro ('Godere').....	-	-	-	-	-	-
Sweet potatoes.....	-	-	-	*	*	*
Others.....	*	*	*	149	18	*
Permanent Crops.....	491	*	*	4597	145	131
Fruit Crops.....	172	*	*	845	15	19
Avocado.....	-	-	-	*	*	*
Bananas.....	*	*	*	*	*	*
Guava (Zeytuna).....	*	*	*	*	*	*
Lemons.....	*	*	*	245	*	*
Mangoes.....	-	-	-	*	*	*
Oranges.....	*	*	*	122	*	*
Papayas.....	-	-	-	*	*	*
Pineapples.....	-	-	-	-	-	-
Others.....	*	*	*	179	*	*
Stimulant Crops.....	382	*	*	4064	120	108
Chat.....	*	*	*	*	*	*
Coffee.....	*	*	*	162	*	*
Hops.....	333	2	*	4002	117	103
Others.....	-	-	-	-	-	-
Other Permanent Crops.....	-	-	-	228	*	*
Enset.....	-	-	-	-	-	-
Sugar Cane.....	-	-	-	*	*	*
Others.....	-	-	-	194	*	*

TABLE 6.15.2 RURAL BELG

CROP	Application of Total Fertilizer		Application of Fertilizer by Type and Quantity				
	Holder	Hectare	Natural		Chemical – DAP		
			Holder	Hectare	Holder	Hectare	Quintal
TOTAL .....	36530	4247	18151	1585	854	54	51
Grain Crops.....	24074	3077	11521	1181	332	37	35
Cereals.....	22395	2852	10116	1056	332	37	35
Teff.....	854	148	684	141	*	*	*
Barley.....	3972	420	3097	336	*	*	*
Wheat.....	850	64	683	56	-	-	-
Maize.....	17970	2208	6635	524	228	20	21
Sorghum.....	*	*	-	-	*	*	*
Finger millet.....	*	*	*	*	-	-	-
Oats ('Aja').....	-	-	-	-	-	-	-
Rice.....	*	*	-	-	-	-	-
Pulses.....	1769	196	1095	110	-	-	-
Horse beans.....	*	*	*	*	-	-	-
Field peas.....	332	26	241	20	-	-	-
Haricot beans.....	-	-	-	-	-	-	-
Chick peas.....	752	141	440	78	-	-	-
Lentils.....	*	*	*	*	-	-	-
Vetch.....	*	*	*	*	-	-	-
Soya.....	-	-	-	-	-	-	-
Fenugreek.....	382	19	209	5	-	-	-
Gibto.....	-	-	-	-	-	-	-
Oil Seeds.....	*	*	*	*	-	-	-
Neug.....	-	-	-	-	-	-	-
Linseed.....	*	*	*	*	-	-	-
Ground nuts.....	-	-	-	-	-	-	-
Sufflower.....	-	-	-	-	-	-	-
Sesame.....	-	-	-	-	-	-	-
Rapeseed.....	-	-	-	-	-	-	-
Other Grains.....	*	*	*	*	-	-	-
Vegetables.....	11463	397	6985	181	*	*	*
Lettuce.....	2313	15	1795	10	-	-	-
Head cabbage.....	1502	36	813	9	-	-	-
Kale.....	321	3	287	2	-	-	-
Tomatoes.....	5680	160	3455	63	*	*	*
Green peppers.....	2873	61	1768	25	*	*	*
Red peppers.....	3496	*	2393	*	-	-	-
Swiss chard.....	1752	21	1146	11	-	-	-
Others.....	*	*	*	*	-	-	-
Root Crops.....	16367	773	7205	223	506	16	14
Beet root.....	252	*	160	*	-	-	-
Carrot.....	1004	12	478	4	*	*	*
Onions.....	11291	516	4812	134	*	*	*
Potatoes.....	4815	218	1839	68	*	*	*
Garlic.....	1614	22	1234	14	*	*	*
Taro ('Godere').....	-	-	-	-	-	-	-
Sweet potatoes.....	*	*	*	*	-	-	-
Others.....	*	*	*	*	-	-	-

TABLE 6.15.2 CONTD.

CROP	Application of Fertilizers by Type and Quantity					
	Chemical - UREA			Chemical - DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
TOTAL .....	2428	150	172	18365	2458	3764
Grain Crops.....	1153	99	78	11929	1761	2403
Cereals .....	1102	97	77	11563	1662	2276
Teff .....	-	-	-	*	*	*
Barley.....	112	*	*	832	*	*
Wheat.....	-	-	-	*	*	*
Maize.....	1017	93	70	10630	1571	2094
Sorghum.....	-	-	-	*	*	*
Finger millet.....	-	-	-	-	-	-
Oats ('Aja').....	-	-	-	-	-	-
Rice.....	*	*	*	*	*	*
Pulses .....	*	*	*	623	85	100
Horse beans.....	-	-	-	-	-	-
Field peas .....	-	-	-	*	*	*
Haricot beans .....	-	-	-	-	-	-
Chick peas.....	*	*	*	293	*	75
Lentils .....	*	*	*	*	*	*
Vetch.....	-	-	-	*	*	*
Soya.....	-	-	-	-	-	-
Fenugreek .....	-	-	-	*	*	*
Gibto.....	-	-	-	-	-	-
Oil Seeds .....	-	-	-	-	-	-
Neug.....	-	-	-	-	-	-
Linseed.....	-	-	-	-	-	-
Ground nuts.....	-	-	-	-	-	-
Sufflower .....	-	-	-	-	-	-
Sesame.....	-	-	-	-	-	-
Rapeseed.....	-	-	-	-	-	-
Other Grains .....	-	-	-	*	*	*
Vegetables .....	778	18	32	4312	196	420
Lettuce .....	*	*	*	470	*	8
Head cabbage.....	*	*	8	564	24	40
Kale.....	-	-	-	*	*	*
Tomatoes.....	301	6	8	2131	91	176
Green peppers .....	*	*	*	1198	33	89
Red peppers.....	*	*	*	1031	*	*
Swiss chard .....	*	*	*	467	8	14
Others.....	-	-	-	*	*	*
Root Crops.....	867	33	62	8604	502	942
Beet root.....	*	*	*	*	*	*
Carrot.....	-	-	-	505	8	13
Onions.....	470	20	*	6159	360	637
Potatoes.....	294	12	17	2504	*	277
Garlic.....	*	*	*	376	7	14
Taro ('Godere').....	-	-	-	-	-	-
Sweet potatoes .....	-	-	-	-	-	-
Others.....	-	-	-	-	-	-

TABLE 6.16 NUMBER OF HOLDER APPLYING FERTILIZER, AREA, AND QUANTITY APPLIED BY CROP TYPE FOR URBAN AREAS IN MEHER SEASON, FOR RIVATE HOLDINGS

CROP	Application of Total Fertilizers		Application of Fertilizers by Type and Quantity					
	Holder	Hectare	Natural		Chemical		Natural and Chemical	
			Holder	Hectare	Holder	Hectare	Holder	Hectare
TOTAL .....	5951	3692	1109	545	4957	2763	585	384
Grain Crops.....	5779	3583	927	472	4910	2740	554	371
Cereals.....	5742	3429	903	441	4872	2628	551	360
Teff.....	3697	1365	157	42	3301	1240	265	83
Barley.....	1269	366	206	54	939	270	172	43
Wheat.....	1632	423	147	36	1341	336	178	51
Maize.....	1150	369	398	143	608	180	149	46
Sorghum.....	894	566	233	139	632	336	70	90
Finger millet.....	935	340	84	28	779	265	71	47
Oats ('Aja').....	-	-	-	-	-	-	-	-
Rice.....	-	-	-	-	-	-	-	-
Pulses.....	433	133	65	*	320	96	48	11
Horse beans.....	216	83	47	*	148	55	20	7
Field peas.....	41	10	15	3	19	6	7	*
Haricot beans.....	*	*	-	-	*	*	-	-
Chick peas.....	88	18	1	*	75	16	12	1
Lentils.....	41	6	-	-	41	6	-	-
Vetch.....	51	9	7	1	37	6	8	2
Soya.....	-	-	-	-	-	-	-	-
Fenugreek.....	30	6	-	-	28	6	*	*
Gibto.....	-	-	-	-	-	-	-	-
Oil Seeds.....	57	14	19	*	38	9	-	-
Neug.....	1	*	-	-	1	*	-	-
Linseed.....	37	6	16	*	22	3	-	-
Ground nuts.....	*	*	-	-	*	*	-	-
Safflower.....	-	-	-	-	-	-	-	-
Sesame.....	14	5	3	*	*	3	-	-
Rapeseed.....	-	-	-	-	-	-	-	-
Other Grains.....	*	*	-	-	*	*	-	-
Vegetables.....	133	30	61	*	55	5	17	*
Lettuce.....	25	*	17	*	8	1	-	-
Head cabbage.....	6	*	-	-	6	*	-	-
Kale.....	-	-	-	-	-	-	-	-
Tomatoes.....	21	*	11	*	5	*	*	*
Green peppers.....	16	*	*	*	*	*	*	*
Red peppers.....	66	*	19	*	35	3	*	*
Swiss chard.....	44	*	31	*	13	1	-	-
Others.....	-	-	-	-	-	-	-	-
Root Crops.....	80	*	17	*	51	7	*	*
Beet root.....	*	*	-	-	*	*	-	-
Carrot.....	*	*	*	*	*	*	-	-
Onions.....	60	11	16	*	3	*	-	-
Potatoes.....	17	*	*	*	44	7	-	-
Garlic.....	*	*	*	*	-	-	*	*
Taro ('Godere').....	-	-	-	-	3	*	-	-
Sweet potatoes.....	-	-	-	-	-	-	-	-
Others.....	*	*	-	-	*	*	-	-
Permanent Crops.....	270	57	193	34	68	*	21	*
Fruit Crops.....	200	27	149	14	43	*	19	*
Avocado.....	9	*	5	-	*	*	*	*
Bananas.....	29	*	13	*	*	*	*	*
Guava (Zeytuna).....	82	*	69	*	*	*	*	*
Lemons.....	37	1	30	*	*	*	6	*
Mangoes.....	47	2	42	2	-	-	*	*
Oranges.....	89	9	47	4	35	*	6	*
Papayas.....	95	9	78	5	10	*	7	*
Pineapples.....	*	*	*	*	-	-	*	*
Others.....	32	*	14	*	-	-	*	*
Stimulant Crops.....	159	30	102	20	46	1	10	*
Chat.....	10	*	7	*	-	-	*	*
Coffee.....	53	12	24	9	*	*	*	*
Hops.....	117	13	90	*	*	*	7	1
Others.....	-	-	-	-	-	-	-	-
Other Permanent Crops.....	-	-	-	-	-	-	-	-
Enset.....	-	-	-	-	-	-	-	-
Sugar Cane.....	-	-	-	-	-	-	-	-
Others.....	-	-	-	-	-	-	-	-

TABLE 6.17: NUMBER OF HOLDER APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

All Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	517709	249588	372655	113386	24498	7052	4805
West Tigray Zone	125595	77817	100816	40543	6770	3064	1656
Kafta	2708	1179	2042	485	271	*	41
Tahtay Adiyabo	13111	8978	11748	6020	567	261	150
Laelay Adiyabo	16183	11607	11767	3966	3248	1418	670
Tahtay Koraro	12506	7561	7438	1390	783	298	293
Medebay Zana	21086	10357	12674	2940	820	*	155
Asegede Tsimbela	18834	13254	16276	6574	572	201	205
Tselemti	20437	15391	19660	12049	347	*	*
Welkait	11073	4721	9802	2942	*	*	*
Tsegede	9656	4769	9408	4177	*	*	*
CentralTigray Zone	188871	94391	132948	36768	7161	1592	1009
Mereb Lehe	15202	7653	12490	4150	949	217	99
Ahiferom	30758	14318	18896	5233	1727	387	274
Werie Lehe	22420	11397	18386	5538	570	130	73
Adwa	22329	9894	15563	2837	906	*	66
Laelay Maychew	14043	10722	9905	2556	514	104	116
Tahtay Maychew	16498	7470	7059	1415	413	*	*
Naeder Adet	19113	7972	13611	2869	786	94	81
Kola Temben	19690	10122	15259	3707	805	201	118
Degua Temben	15949	6791	9722	2583	210	*	*
Tanqu Abergele	12868	8051	12058	5879	*	*	*
East Tigray Zone	101251	31993	74851	16638	6679	1395	1211
Gulumahada	13717	3467	8243	1004	688	102	87
Erob	2296	283	2285	281	21	1	3
Saesi Tsaedamba	20600	6157	16668	4124	2166	453	493
Ganta Afeshum	18038	4570	11993	1985	481	*	*
Hawzen	18250	7303	12206	2931	2057	557	358
Wukro	11229	4845	9067	2515	476	103	49
Atsbi Wenberta	17121	5369	14389	3798	792	114	146
South Tigray Zone	101922	45322	64006	19405	3887	1001	929
Seharte Samre	18050	12917	14297	4870	539	161	73
Enderta	12343	6477	6576	1347	933	387	314
Hintalo Wajirat	18321	8095	11471	2433	477	79	111
Ambalage	10640	2349	5219	573	631	128	129
Endamehoni	8888	1819	6860	1196	424	64	79
Rayaazebo	9579	7678	8756	7108	*	*	*
Alamata	4698	1913	2336	1089	*	*	*
Wofla	19403	4074	8492	789	730	123	198
Mekele Zone	70	64	34	*	-	-	-
Mekele	70	64	34	*	-	-	-

TABEL 6.17: CONTD.

Geographic Area	All Crops								
	Type of Fertilizer Applied							Chemical (Urban)	
	UREA			DAP & UREA					
Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare		
Tigray Region	20564	4761	3375	296262	121242	124740	5297	3147	
West Tigray Zone	2428	845	430	62726	32796	36731	1017	569	
Kafta	102	*	21	971	297	287	7	*	
Tahtay Adiyabo	506	188	102	5332	2436	2755	83	73	
Laelay Adiyabo	803	323	161	9048	5798	5588	125	102	
Tahtay Koraro	324	74	43	10942	5728	7932	187	71	
Medebay Zana	480	95	47	15500	6900	8666	378	152	
Asegede Tsimbela	*	*	*	11532	6359	7372	123	85	
Tselemti	-	-	-	4611	3035	1541	29	15	
Welkait	*	*	*	3409	1690	1613	75	50	
Tsegede	*	*	*	1380	551	977	12	3	
Central Tigray Zone	6356	1114	713	128046	53108	52867	2819	1809	
Mereb Lehe	548	*	54	8451	2808	2651	248	395	
Ahiferom	801	112	77	23760	8374	8717	736	211	
Werie Lehe	583	74	57	12778	5461	3152	284	194	
Adwa	772	63	75	19753	6800	8343	147	117	
Laelay Maychew	1095	146	113	11495	7480	10127	476	436	
Tahtay Maychew	499	62	74	14671	5876	5999	134	45	
Naeder Adet	887	74	48	13081	4837	5276	272	99	
Kola Temben	579	213	110	10816	5883	4156	204	119	
Degua Temben	224	*	*	11337	4065	3694	109	51	
Tanqu Abergele	367	241	81	1905	1525	751	208	141	
East Tigray Zone	6207	958	755	53426	12822	12359	437	180	
Gulumahada	526	83	49	8829	2277	2288	9	1	
Erob	16	*	*	-	-	-	-	-	
Saesi Tsaedamba	904	107	110	8956	1448	1674	62	25	
Ganta Afeshum	1013	124	80	13154	2380	3345	69	15	
Hawzen	2306	420	347	10855	3317	1965	170	79	
Wukro	779	148	87	5866	2041	1533	74	38	
Atsbi Wenberta	663	76	81	5766	1360	1553	53	22	
South Tigray Zone	5573	1844	1477	52064	22516	22783	982	557	
Seharte Samre	2103	870	399	8678	6855	4220	170	161	
Enderta	1609	662	*	6178	3955	3782	142	126	
Hintalo Wajirat	*	*	*	10699	5433	6375	147	98	
Ambalage	356	38	42	6890	1607	1944	177	3	
Endamehoni	243	48	45	2502	500	859	45	12	
Rayaaazebo	*	*	*	758	478	374	41	35	
Alamata	168	53	22	2169	643	658	141	81	
Wofla	710	76	134	14190	3046	4572	120	40	
Mekele Zone	-	-	-	-	-	-	42	*	
Mekele	-	-	-	-	-	-	42	*	

TABLE 6.17.1 RURAL HOLDINGS

Geographic Area	Total Fertilized Cropland		All Crops					
			Type of Fertilizer Applied					
	Holder	Hectare	Natural		Dap		Quintal	
		Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	511758	245896	371546	112841		24498	7052	4805
West Tigray Zone	124491	77146	100649	40441		6770	3064	1656
Kafta	2691	1137	2031	461		271	*	41
Tahtay Adiyabo	13013	8881	11732	5996		567	261	150
Laelay Adiyabo	16057	11501	11764	3963		3248	1418	670
Tahtay Koraro	12305	7485	7375	1385		783	298	293
Medebay Zana	20703	10204	12666	2939		820	*	155
Asegede Tsimbela	18701	13144	16259	6549		572	201	205
Tselemti	20378	15367	19624	12040		347	*	*
Welkait	10999	4660	9788	2931		*	*	*
Tsegede	9644	4766	9408	4177		*	*	*
Central Tigray Zone	185726	92333	132379	36518		7161	1592	1009
Mereb Lehe	14933	7246	12462	4139		949	217	99
Ahiferom	29997	14089	18840	5215		1727	387	274
Werie Lehe	22075	11121	18288	5456		570	130	73
Adwa	22130	9775	15505	2834		906	*	66
Laelay Maychew	13520	10236	9823	2506		514	104	116
Tahtay Maychew	16363	7421	7044	1411		413	*	*
Naeder Adet	18836	7872	13601	2868		786	94	81
Kola Temben	19450	9990	15197	3693		805	201	118
Degua Temben	15839	6740	9720	2583		210	*	*
Tanqu Abergele	12584	7843	11900	5812		*	*	*
East Tigray Zone	100750	31751	74729	16575		6679	1395	1211
Gulumahada	13708	3466	8243	1004		688	102	87
Erob	2295	283	2284	281		21	1	3
Saesi Tsaedamba	20524	6123	16649	4115		2166	453	493
Ganta Afeshum	17963	4552	11983	1983		481	*	*
Hawzen	18080	7213	12165	2919		2057	557	358
Wukro	11135	4796	9046	2504		476	103	49
Atsbi Wenberta	17046	5318	14359	3769		792	114	146
South Tigray Zone	100790	44667	63790	19306		3887	1001	929
Seharte Samre	17858	12722	14262	4835		539	161	73
Enderta	12128	6331	6470	1328		933	387	314
Hintalo Wajirat	18151	7976	11434	2412		477	79	111
Ambalage	10463	2346	5219	573		631	128	129
Endamehoni	8836	1801	6849	1190		424	64	79
Rayazebo	9530	7631	8745	7096		*	*	*
Alamata	4544	1827	2323	1084		*	*	*
Wofla	19281	4033	8487	788		730	123	198

TABEL 6.17.1: CONTD.

Geographic Area	All Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
Holder	Hectare	Quintal	Holder	Hectare	Quintal	
Tigray Region	20564	4761	3375	296262	121242	124740
West Tigray Zone	2428	845	430	62726	32796	36731
Kafta	102	*	21	971	297	287
Tahtay Adiyabo	506	188	102	5332	2436	2755
Laelay Adiyabo	803	323	161	9048	5798	5588
Tahtay Koraro	324	74	43	10942	5728	7932
Medebay Zana	480	95	47	15500	6900	8666
Asegede Tsimbela	*	*	*	11532	6359	7372
Tselemti	-	-	-	4611	3035	1541
Welkait	*	*	*	3409	1690	1613
Tsegede	*	*	*	1380	551	977
Central Tigray Zone	6356	1114	713	128046	53108	52867
Mereb Lehe	548	*	54	8451	2808	2651
Ahiferom	801	112	77	23760	8374	8717
Werie Lehe	583	74	57	12778	5461	3152
Adwa	772	63	75	19753	6800	8343
Laelay Maychew	1095	146	113	11495	7480	10127
Tahtay Maychew	499	62	74	14671	5876	5999
Naeder Adet	887	74	48	13081	4837	5276
Kola Temben	579	213	110	10816	5883	4156
Degua Temben	224	*	*	11337	4065	3694
Tanqu Abergele	367	241	81	1905	1525	751
East Tigray Zone	6207	958	755	53426	12822	12359
Gulumahada	526	83	49	8829	2277	2288
Erob	16	*	*	-	-	-
Saesi Tsaedamba	904	107	110	8956	1448	1674
Ganta Afeshum	1013	124	80	13154	2380	3345
Hawzen	2306	420	347	10855	3317	1965
Wukro	779	148	87	5866	2041	1533
Atsbi Wenberta	663	76	81	5766	1360	1553
South Tigray Zone	5573	1844	1477	52064	22516	22783
Seharte Samre	2103	870	399	8678	6855	4220
Enderta	1609	662	*	6178	3955	3782
Hintalo Wajirat	*	*	*	10699	5433	6375
Ambalage	356	38	42	6890	1607	1944
Endamehoni	243	48	45	2502	500	859
Rayaaazebo	*	*	*	758	478	374
Alamata	168	53	22	2169	643	658
Wofla	710	76	134	14190	3046	4572

TABEL 6.17.2: RURAL MEHER

Geographic Area	All Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
Tigray Region	506110	241649	365033	111256	23803	6998	4755
West Tigray Zone	124367	77037	100027	40389	6715	3063	1655
Kafta	2691	1137	2031	461	271	*	41
Tahtay Adiyabo	13013	8881	11732	5996	567	261	150
Lalay Adiyabo	16057	11496	11692	3960	3206	1417	670
Tahtay Koraro	12305	7451	7134	1371	783	298	293
Medebay Zana	20674	10146	12480	2915	820	*	155
Asegede Tsimbela	18701	13144	16259	6549	572	201	205
Tselemti	20378	15367	19624	12040	347	*	*
Welkait	10999	4660	9788	2931	*	*	*
Tsegede	9549	4754	9287	4167	*	*	*
Central Tigray Zone	185132	91393	130812	36241	7096	1583	1000
Mereb Lehe	14782	7200	12370	4133	883	207	90
Ahiferom	29972	13860	18634	5174	1727	387	274
Werie Lehe	21898	11027	18128	5428	570	130	73
Adwa	22071	9672	14967	2758	906	*	66
Lalay Maychew	13503	10074	9748	2498	514	104	116
Tahtay Maychew	16363	7362	6863	1399	413	*	*
Naeder Adet	18798	7867	13563	2867	786	94	81
Kola Temben	19382	9883	15068	3635	805	201	118
Degua Temben	15794	6609	9601	2536	210	*	*
Tanqu Abergele	12568	7841	11869	5812	*	*	*
East Tigray Zone	99727	31025	74075	16244	6398	1377	1195
Gulumahada	13708	3464	8243	1004	688	102	87
Erob	2295	283	2284	281	21	1	3
Saesi Tsaedamba	19893	5856	16276	3968	1911	442	480
Ganta Afeshum	17919	4481	11961	1958	481	*	*
Hawzen	18080	7210	12125	2916	2057	557	358
Wukro	10961	4662	8962	2486	476	98	47
Atsbi Wenberta	16871	5070	14224	3631	765	112	145
South Tigray Zone	96884	42193	60119	18381	3593	975	904
Seharte Samre	17794	12415	14179	4831	444	160	71
Enderta	11667	6085	5627	1261	933	387	314
Hintalo Wajirat	16655	6816	10368	2052	415	70	106
Ambalage	10262	2224	4984	529	612	127	129
Endamehoni	7967	1558	6328	1059	306	48	61
Rayaazebo	9291	7461	8507	6926	*	*	*
Alamata	4348	1757	2169	1028	*	*	*
Wofla	18901	3878	7957	693	730	123	198

TABEL 6.17.2: CONTD.

Geographic Area	All Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	18457	4611	3202	289215	118784	120976
West Tigray Zone	2380	841	424	62607	32743	36633
Kafta	102	*	21	971	297	287
Tahtay Adiyabo	506	188	102	5332	2436	2755
Laelay Adiyabo	803	321	160	9028	5797	5580
Tahtay Koraro	324	74	43	10942	5708	7880
Medebay Zana	431	92	42	15472	6870	8630
Asegede Tsimbela	*	*	*	11532	6359	7372
Tselemti	-	-	-	4611	3035	1541
Welkait	*	*	*	3409	1690	1613
Tsegede	*	*	*	1310	550	974
CentralTigray Zone	5826	1081	663	127292	52488	51809
Mereb Lehe	485	*	47	8268	2778	2628
Ahiferom	682	108	74	23719	8191	8432
Werie Lehe	506	64	49	12471	5404	3078
Adwa	671	56	*	19726	6781	8263
Laelay Maychew	1077	145	113	11424	7326	9766
Tahtay Maychew	411	55	52	14671	5837	5949
Naeder Adet	861	74	48	13081	4832	5271
Kola Temben	542	212	109	10779	5835	4055
Degua Temben	224	*	*	11248	3981	3620
Tanqu Abergele	367	241	81	1905	1523	746
East Tigray Zone	5588	912	727	49948	12492	11790
Gulumahada	526	83	49	8829	2275	2283
Erob	16	*	*	-	-	-
Saesi Tsaedamba	686	99	99	6986	1347	1448
Ganta Afeshum	640	90	68	13088	2368	3320
Hawzen	2306	420	347	10855	3317	1965
Wukro	779	148	87	5187	1931	1421
Atsbi Wenberta	635	73	75	5003	1254	1353
South Tigray Zone	4664	1776	1389	49368	21061	20743
Seharte Samre	1896	854	373	8112	6570	3717
Enderta	*	641	*	5958	3796	3546
Hintalo Wajirat	*	*	*	9763	4644	5330
Ambalage	254	31	39	6693	1536	1913
Endamehoni	*	*	*	1945	414	693
Rayaazebo	*	*	*	758	478	374
Alamata	147	47	19	2148	634	652
Wofla	557	72	*	13991	2990	4518

TABEL 6.17.3: RURAL BELG

Geographic Area	All Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
Tigray Region	36530	4247	18151	1585	854	54	51
West Tigray Zone	2273	109	1605	52	*	*	*
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	304	5	218	*	*	*	*
Tahtay Koraro	521	*	367	*	-	-	-
Medebay Zana	708	58	383	24	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	740	12	637	*	*	*	-
Central Tigray Zone	10789	939	5326	277	*	*	*
Mereb Lehe	621	47	*	*	*	*	*
Ahiferom	2800	229	847	*	-	-	-
Werie Lehe	1268	94	*	*	-	-	-
Adwa	2391	102	1858	77	-	-	-
Laelay Maychew	963	162	249	8	-	-	-
Tahtay Maychew	615	59	317	*	-	-	-
Naeder Adet	321	*	165	*	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	*	*	*	*	-	-	-
Tanqu Abergele	*	*	*	*	-	-	-
East Tigray Zone	9094	725	3572	331	*	18	*
Gulumahada	*	*	*	*	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	4518	267	1822	147	*	*	*
Ganta Afeshum	*	*	*	*	-	-	-
Hawzen	*	*	*	*	-	-	-
Wukro	1281	134	189	19	*	*	*
Atsbi Wenberta	2294	249	977	138	*	*	*
South Tigray Zone	14374	2473	7648	925	359	26	25
Seharte Samre	*	*	*	*	*	*	*
Enderta	1501	247	890	*	-	-	-
Hintalo Wajirat	5764	1160	3166	360	*	*	*
Ambalage	979	*	429	44	*	*	*
Endamehoni	2376	243	1296	131	*	*	*
Rayaazebo	561	170	561	170	-	-	-
Alamata	229	*	*	*	-	-	-
Wofla	1511	155	948	95	-	-	-

TABEL 6.17.3: CONTD.

Geographic Area	All Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	2428	150	172	18365	2458	3764
West Tigray Zone	*	*	*	946	53	98
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	*	*	*	*	*	*
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	*	*	*	*	*	*
Asegede Tsimbela	-	-	-	412	*	36
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	555	33	51	116	1	3
Mereb Lehe	*	*	*	5727	620	1057
Ahiferom	*	*	*	182	30	23
Werie Lehe	*	*	*	2144	183	285
Adwa	*	*	*	*	*	*
Laelay Maychew	*	*	*	582	*	*
Tahtay Maychew	*	*	*	870	154	360
Naeder Adet	*	*	*	255	40	50
Kola Temben	*	*	*	*	*	*
Degua Temben	-	-	-	*	*	*
Tanqu Abergele	-	-	-	*	*	*
East Tigray Zone	725	*	28	5257	331	569
Gulumahada	-	-	-	*	*	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	2516	101	226
Ganta Afeshum	*	*	*	*	*	*
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	1115	110	112
Atsbi Wenberta	*	*	*	1290	*	200
South Tigray Zone	1080	67	88	6434	1455	2040
Seharte Samre	*	*	*	*	*	*
Enderta	*	*	*	562	*	*
Hintalo Wajirat	*	*	*	2643	789	1045
Ambalage	*	*	*	*	*	*
Endamehoni	*	*	*	952	86	166
Rayaazebo	-	-	-	-	-	-
Alamata	*	*	*	*	*	*
Wofla	*	*	*	512	*	*

TABEL 6.17.4: URBAN HOLDINGS

Geographic Area	All Crops							
	Application of Total Fertilizers		Type of Fertilizer Applied					
			Natural		Chemical		Natural and Chemical	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Tigray Region	5951	3692	1109	545	4957	2763	585	384
West Tigray Zone	1104	671	167	102	958	526	99	44
Kafta	17	*	11	*	7	*	-	-
Tahtay Adiyabo	98	97	16	*	73	63	*	*
Lalay Adiyabo	126	106	3	3	122	98	3	4
Tahtay Koraro	201	76	63	5	165	62	50	9
Medebay Zana	383	153	8	1	373	149	10	3
Asegede Tsimbela	133	110	17	*	118	81	11	4
Tselemti	59	24	36	9	16	*	*	13
Welkait	75	60	*	*	75	50	-	-
Tsegede	12	3	-	-	9	3	2	*
Central Tigray Zone	3144	2058	569	249	2652	1560	272	248
Mereb Lehe	269	407	28	12	226	282	38	113
Ahiferom	761	229	56	18	729	206	19	*
Werie Lehe	345	276	99	*	264	153	44	41
Adwa	199	120	58	3	130	105	25	12
Lalay Maychew	522	486	82	50	420	381	80	56
Tahtay Maychew	135	49	15	*	132	43	*	*
Naeder Adet	278	100	*	*	247	89	30	10
Kola Temben	240	133	61	14	195	115	19	4
Degua Temben	110	51	1	*	105	48	*	*
Tanqu Abergele	284	208	158	66	204	138	*	*
East Tigray Zone	501	243	122	63	370	123	129	57
Gulumahada	9	1	-	-	9	1	-	-
Erob	1	*	1	*	-	-	-	-
Saesi Tsaedamba	76	34	19	9	46	11	16	14
Ganta Afeshum	75	17	10	2	60	13	10	2
Hawzen	170	90	41	11	142	48	86	31
Wukro	94	49	21	*	67	32	12	7
Atsbi Wenberta	76	50	30	29	47	18	6	*
South Tigray Zone	1131	655	216	99	939	526	68	31
Seharte Samre	192	196	35	35	164	149	18	11
Enderta	216	146	105	19	136	123	*	3
Hintalo Wajirat	170	119	36	21	137	89	14	10
Ambalage	177	3	-	-	177	3	*	*
Endamehoni	52	17	10	5	43	12	2	*
Rayaaazebo	50	47	11	12	38	33	*	2
Alamata	153	86	13	5	127	77	14	4
Wofla	122	41	5	1	119	40	1	1
Mekele Zone	70	64	34	*	38	28	*	*
Mekele	70	64	34	*	38	28	*	*

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

Grain Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
	Holder	Hectare	Natural		Dap		
			Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	508754	245412	347600	110964	23419	7018	4758
West Tigray Zone	123725	77147	93988	40062	6553	3061	1651
Kafta	2577	1168	1843	474	271	*	41
Tahtay Adiyabo	12629	8908	10918	5953	567	261	150
Laelay Adiyabo	16081	11523	10563	3896	3080	1416	667
Tahtay Koraro	12461	7484	5999	1349	747	298	292
Medebay Zana	20871	10231	10800	2867	820	*	154
Asegede Tsimbela	18660	13132	15828	6469	572	201	205
Tselemti	20362	15280	19586	12002	347	*	*
Welkait	10865	4703	9544	2923	*	*	*
Tsegede	9221	4719	8906	4127	*	*	*
Central Tigray Zone	187867	92860	127985	36110	6843	1588	993
Mereb Lehe	15051	7614	12223	4123	928	217	98
Ahiferom	30541	13442	17697	4952	1727	387	272
Werie Lehe	22248	11332	18043	5501	570	130	73
Adwa	22185	9736	14656	2723	833	*	66
Laelay Maychew	14035	10667	9732	2541	462	103	111
Tahtay Maychew	16471	7378	6663	1400	365	*	*
Naeder Adet	19046	7921	12859	2838	730	93	80
Kola Temben	19639	9978	14962	3613	736	200	117
Degua Temben	15834	6751	9146	2547	210	*	*
Tanqu Abergele	12818	8042	12004	5871	*	*	*
East Tigray Zone	99406	30903	69333	15775	6369	1375	1191
Gulumahada	13566	3287	6886	845	664	101	87
Erob	2187	256	2171	254	21	1	3
Saesi Tsaedamba	19939	5803	16051	3899	1907	438	476
Ganta Afeshum	17663	4306	10313	1748	481	*	*
Hawzen	18250	7236	11605	2866	2057	557	358
Wukro	10773	4724	8157	2423	476	98	47
Atsbi Wenberta	17029	5291	14149	3739	764	114	146
South Tigray Zone	97699	44469	56274	19009	3654	994	923
Seharte Samre	17969	12856	13940	4838	444	160	71
Enderta	11432	6212	4949	1260	920	387	314
Hintalo Wajirat	17553	7797	10081	2323	419	77	109
Ambalage	10059	2289	4237	528	605	127	129
Endamehoni	8269	1748	6089	1139	383	62	76
Rayaazebo	9381	7648	8559	7086	*	*	*
Alamata	4624	1903	2266	1085	*	*	*
Wofla	18413	4017	6154	750	730	123	198
Mekele Zone	57	*	*	*	-	-	-
Mekele	57	*	*	*	-	-	-

TABEL 6.18: CONTD.

Grain Crops								
Geographic Area	Type of Fertilizer Applied							
	UREA			DAP & UREA			Chemical (Urban)	
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare
Tigray Region	18065	4671	3204	292864	119648	122394	5234	3111
West Tigray Zone	2166	838	420	62570	32618	36532	1004	567
Kafta	102	*	21	971	297	287	7	*
Tahtay Adiyabo	472	187	100	5294	2434	2750	83	73
Laelay Adiyabo	697	320	159	9028	5789	5577	123	102
Tahtay Koraro	324	73	43	10942	5693	7849	182	71
Medebay Zana	373	92	42	15473	6851	8605	371	152
Asegede Tsimbela	*	*	*	11532	6343	7337	123	83
Tselemti	-	-	-	4611	2971	1541	29	15
Welkait	*	*	*	3409	1690	1613	75	50
Tsegede	*	*	*	1310	550	974	12	3
Central Tigray Zone	5442	1092	652	127317	52278	51864	2788	1791
Mereb Lehe	423	*	47	8325	2800	2632	245	394
Ahiferom	660	110	71	23377	7784	8361	731	209
Werie Lehe	550	73	56	12703	5443	3123	284	183
Adwa	619	57	69	19726	6763	8237	134	116
Laelay Maychew	986	145	96	11495	7444	9969	476	435
Tahtay Maychew	308	54	51	14644	5808	5816	134	45
Naeder Adet	835	73	48	13044	4818	5242	272	99
Kola Temben	544	213	110	10816	5834	4054	204	118
Degua Temben	151	*	*	11283	4062	3683	109	51
Tanqu Abergele	367	241	81	1905	1523	747	200	141
East Tigray Zone	5717	938	725	51343	12635	11952	437	180
Gulumahada	488	82	48	8829	2257	2273	9	1
Erob	*	*	*	-	-	-	-	-
Saesi Tsaedamba	574	95	86	7212	1346	1416	62	25
Ganta Afeshum	1013	121	79	13110	2356	3278	69	15
Hawzen	2246	419	347	10855	3316	1963	170	79
Wukro	744	146	84	5689	2019	1509	74	38
Atsbi Wenberta	642	74	81	5648	1343	1512	53	22
South Tigray Zone	4739	1803	1406	51634	22116	22045	963	548
Seharte Samre	1923	864	382	8678	6833	4172	170	160
Enderta	1189	639	*	6050	3801	3513	136	126
Hintalo Wajirat	*	*	*	10620	5252	6035	142	94
Ambalage	337	38	42	6818	1593	1933	175	3
Endamehoni	198	47	44	2502	488	831	45	12
Rayaazebo	*	*	*	758	478	374	40	34
Alamata	168	53	22	2169	641	657	137	78
Wofla	576	72	130	14039	3032	4530	118	40
Mekele Zone	-	-	-	-	-	-	42	*
Mekele	-	-	-	-	-	-	42	*

TABLE 6.18.1 RURAL HOLDINGS

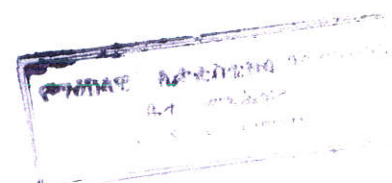
Geographic Area	Grain Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
Tigray Region	502975	241829	346674	110492	23419	7018	4758
West Tigray Zone	122635	76491	93833	39973	6553	3061	1651
Kafta	2559	1126	1832	450	271	*	41
Tahtay Adiyabo	12531	8811	10903	5929	567	261	150
Laelay Adiyabo	15956	11418	10560	3893	3080	1416	667
Tahtay Koraro	12266	7408	5948	1344	747	298	292
Medebay Zana	20494	10078	10793	2866	820	*	154
Asegede Tsimbela	18526	13037	15812	6458	572	201	205
Tselemti	20303	15256	19550	11994	347	*	*
Welkait	10790	4642	9530	2913	*	*	*
Tsegede	9209	4715	8906	4127	*	*	*
Central Tigray Zone	184814	90845	127514	35886	6843	1588	993
Mereb Lehe	14789	7208	12199	4111	928	217	98
Ahiferom	29786	13215	17654	4935	1727	387	272
Werie Lehe	21914	11079	17959	5432	570	130	73
Adwa	22021	9618	14622	2722	833	*	66
Laelay Maychew	13520	10187	9661	2495	462	103	111
Tahtay Maychew	16337	7329	6649	1396	365	*	*
Naeder Adet	18768	7822	12848	2838	730	93	80
Kola Temben	19404	9853	14909	3605	736	200	117
Degua Temben	15723	6700	9145	2547	210	*	*
Tanqu Abergele	12551	7834	11867	5805	*	*	*
East Tigray Zone	98910	30662	69216	15714	6369	1375	1191
Gulumahada	13556	3286	6886	845	664	101	87
Erob	2186	256	2170	254	21	1	3
Saesi Tsaedamba	19864	5769	16033	3890	1907	438	476
Ganta Afeshum	17590	4290	10306	1747	481	*	*
Hawzen	18080	7146	11564	2854	2057	557	358
Wukro	10680	4674	8137	2412	476	98	47
Atsbi Wenberta	16954	5241	14119	3710	764	114	146
South Tigray Zone	96616	43831	56111	18919	3654	994	923
Seharte Samre	17777	12660	13905	4803	444	160	71
Enderta	11246	6068	4889	1241	920	387	314
Hintalo Wajirat	17387	7682	10045	2302	419	77	109
Ambalage	9884	2285	4237	528	605	127	129
Endamehoni	8218	1734	6079	1137	383	62	76
Rayaazebo	9334	7607	8550	7079	*	*	*
Alamata	4478	1820	2257	1080	*	*	*
Wofla	18292	3976	6149	749	730	123	198

TABLE 6.18.1: CONTD.

Geographic Area	Grain Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	18065	4671	3204	292864	119648	122394
West Tigray Zone	2166	838	420	62570	32618	36532
Kafta	102	*	21	971	297	287
Tahtay Adiyabo	472	187	100	5294	2434	2750
Laelay Adiyabo	697	320	159	9028	5789	5577
Tahtay Koraro	324	73	43	10942	5693	7849
Medebay Zana	373	92	42	15473	6851	8605
Asegede Tsimbela	*	*	*	11532	6343	7337
Tselemti	-	-	-	4611	2971	1541
Welkait	*	*	*	3409	1690	1613
Tsegede	*	*	*	1310	550	974
Central Tigray Zone	5442	1092	652	127317	52278	51864
Mereb Lehe	423	*	47	8325	2800	2632
Ahiferom	660	110	71	23377	7784	8361
Werie Lehe	550	73	56	12703	5443	3123
Adwa	619	57	69	19726	6763	8237
Laelay Maychew	986	145	96	11495	7444	9969
Tahtay Maychew	308	54	51	14644	5808	5816
Naeder Adet	835	73	48	13044	4818	5242
Kola Temben	544	213	110	10816	5834	4054
Degua Temben	151	*	*	11283	4062	3683
Tanqu Abergele	367	241	81	1905	1523	747
East Tigray Zone	5717	938	725	51343	12635	11952
Gulumahada	488	82	48	8829	2257	2273
Erob	*	*	*	-	-	-
Saesi Tsaedamba	574	95	86	7212	1346	1416
Ganta Afeshum	1013	121	79	13110	2356	3278
Hawzen	2246	419	347	10855	3316	1963
Wukro	744	146	84	5689	2019	1509
Atsbi Wenberta	642	74	81	5648	1343	1512
South Tigray Zone	4739	1803	1406	51634	22116	22045
Seharte Samre	1923	864	382	8678	6833	4172
Enderta	1189	639	*	6050	3801	3513
Hintalo Wajirat	*	*	*	10620	5252	6035
Ambalage	337	38	42	6818	1593	1933
Endamehoni	198	47	44	2502	488	831
Rayaaazebo	*	*	*	758	478	374
Alamata	168	53	22	2169	641	657
Wofla	576	72	130	14039	3032	4530

TABEL 6.18.2: RURAL MEHER

Geographic Area	Grain Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
Tigray Region	498436	238752	342221	109311	23147	6981	4723
West Tigray Zone	122607	76479	93760	39968	6553	3061	1651
Kafta	2559	1126	1832	450	271	*	41
Tahtay Adiyabo	12531	8811	10903	5929	567	261	150
Laelay Adiyabo	15956	11418	10560	3893	3080	1416	667
Tahtay Koraro	12266	7402	5931	1340	747	298	292
Medebay Zana	20466	10071	10737	2864	820	*	154
Asegede Tsimbela	18526	13037	15812	6458	572	201	205
Tselemti	20303	15256	19550	11994	347	*	*
Welkait	10790	4642	9530	2913	*	*	*
Tsegede	9209	4715	8906	4127	*	*	*
Central Tigray Zone	184338	90304	126696	35783	6778	1579	984
Mereb Lehe	14705	7171	12176	4110	863	207	89
Ahiferom	29761	13087	17604	4919	1727	387	272
Werie Lehe	21737	10999	17831	5409	570	130	73
Adwa	22021	9608	14596	2716	833	*	66
Laelay Maychew	13503	10060	9625	2494	462	103	111
Tahtay Maychew	16337	7315	6587	1392	365	*	*
Naeder Adet	18768	7818	12848	2837	730	93	80
Kola Temben	19337	9830	14627	3588	736	200	117
Degua Temben	15634	6582	8967	2512	210	*	*
Tanqu Abergele	12535	7834	11835	5805	*	*	*
East Tigray Zone	98486	30178	68900	15477	6315	1370	1187
Gulumahada	13556	3286	6886	845	664	101	87
Erob	2186	256	2170	254	21	1	3
Saesi Tsaedamba	19803	5670	15943	3814	1880	436	473
Ganta Afeshum	17568	4234	10255	1730	481	*	*
Hawzen	18080	7146	11564	2854	2057	557	358
Wukro	10541	4576	8097	2407	476	98	47
Atsbi Wenberta	16752	5010	13985	3573	738	112	145
South Tigray Zone	93006	41791	52865	18082	3501	971	902
Seharte Samre	17681	12374	13877	4801	444	160	71
Enderta	11081	5993	4590	1214	920	387	314
Hintalo Wajirat	15877	6729	8964	1985	382	70	106
Ambalage	9730	2177	3967	484	586	126	129
Endamehoni	7296	1504	5579	1010	286	47	58
Rayaazebo	9095	7437	8311	6908	*	*	*
Alamata	4282	1750	2102	1024	*	*	*
Wofla	17964	3827	5474	655	730	123	198



TABEL 6.18.2: CONTD

Geographic Area	Grain Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	17034	4573	3126	288193	117887	119991
West Tigray Zone	2166	838	420	62542	32611	36513
Kafta	102	*	21	971	297	287
Tahtay Adiyabo	472	187	100	5294	2434	2750
Laelay Adiyabo	697	320	159	9028	5789	5577
Tahtay Koraro	324	73	43	10942	5691	7844
Medebay Zana	373	92	42	15444	6846	8590
Asegede Tsimbela	*	*	*	11532	6343	7337
Tselemti	-	-	-	4611	2971	1541
Welkait	*	*	*	3409	1690	1613
Tsegede	*	*	*	1310	550	974
Central Tigray Zone	5250	1076	640	126670	51865	51291
Mereb Lehe	404	*	47	8182	2773	2614
Ahiferom	619	106	70	23377	7675	8217
Werie Lehe	506	64	49	12396	5396	3059
Adwa	568	55	*	19726	6760	8235
Laelay Maychew	986	145	96	11424	7319	9720
Tahtay Maychew	308	54	51	14644	5798	5803
Naeder Adet	835	73	48	13044	4815	5240
Kola Temben	507	212	109	10779	5829	4047
Degua Temben	151	*	*	11194	3979	3611
Tanqu Abergele	367	241	81	1905	1523	746
East Tigray Zone	5286	899	706	49754	12432	11651
Gulumahada	488	82	48	8829	2257	2273
Erob	*	*	*	-	-	-
Saesi Tsaedamba	543	91	84	6928	1330	1379
Ganta Afeshum	640	87	68	13088	2351	3273
Hawzen	2246	419	347	10855	3316	1963
Wukro	744	146	84	5169	1926	1415
Atsbi Wenberta	614	72	75	4885	1253	1348
South Tigray Zone	4333	1760	1359	49228	20979	20537
Seharte Samre	1833	852	367	8112	6561	3706
Enderta	*	634	*	5958	3759	3439
Hintalo Wajirat	*	*	*	9763	4626	5285
Ambalage	254	31	39	6674	1535	1911
Endamehoni	*	*	*	1925	411	691
Rayazebo	*	*	*	758	478	374
Alamata	147	47	19	2148	632	652
Wofla	525	71	128	13891	2977	4479

TABEL 6.18.3 : RURAL BELG

Geographic Area	Grain Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
Tigray Region	24074	3077	11521	1181	332	37	35
West Tigray Zone	218	12	138	*	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Lalay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	113	*	*	*	-	-	-
Medebay Zana	*	*	*	*	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	5858	541	2524	103	*	*	*
Mereb Lehe	296	37	*	*	*	*	*
Ahiferom	1350	128	*	*	-	-	-
Werie Lehe	1073	81	*	*	-	-	-
Adwa	571	*	440	6	-	-	-
Lalay Maychew	795	126	132	*	-	-	-
Tahtay Maychew	154	*	107	*	-	-	-
Naeder Adet	*	*	*	*	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	*	*	*	*	-	-	-
Tanqu Abergele	*	*	*	*	-	-	-
East Tigray Zone	5272	484	2309	237	*	*	*
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	1401	99	962	77	*	*	*
Ganta Afeshum	*	*	280	*	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	916	*	90	*	-	-	-
Atsbi Wenberta	2163	231	977	137	*	*	*
South Tigray Zone	12725	2041	6550	837	187	23	22
Scharte Samre	*	*	*	*	-	-	-
Enderta	665	74	*	*	-	-	-
Hintalo Wajirat	5518	953	3024	317	*	*	*
Ambalage	885	*	407	43	*	*	*
Endamehoni	2143	230	1096	128	*	*	*
Rayaazebo	561	170	561	170	-	-	-
Alamata	229	*	*	*	-	-	-
Wofla	1410	149	948	94	-	-	-

TABEL 6.18.3: CONTD.

Geographic Area	Grain Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	1153	99	78	11929	1761	2403
West Tigray Zone	-	-	-	80	*	*
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	-	-	-	*	*	*
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	192	*	*	3315	413	574
Mereb Lehe	*	*	-	143	26	18
Ahiferom	*	*	*	1072	109	*
Werie Lehe	*	*	*	*	*	*
Adwa	*	*	*	*	*	*
Laelay Maychew	-	-	-	777	125	249
Tahtay Maychew	-	-	-	*	*	*
Naeder Adet	-	-	-	*	*	*
Kola Temben	*	*	*	*	*	*
Degua Temben	-	-	-	*	*	*
Tanqu Abergele	-	-	-	*	*	*
East Tigray Zone	*	*	*	2665	203	301
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	*	*
Ganta Afeshum	*	*	*	*	*	*
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	849	*	*
Atsbi Wenberta	*	*	*	1132	*	*
South Tigray Zone	476	43	47	5869	1138	1508
Seharte Samre	*	*	*	*	*	*
Enderta	*	*	*	371	42	*
Hintalo Wajirat	*	*	*	2462	*	*
Ambalage	*	*	*	*	*	*
Endamehoni	*	*	*	918	77	140
Rayaaazebo	-	-	-	-	-	-
Alamata	*	*	*	*	*	*
Wofla	*	*	*	461	*	*

TABLE 6.27: NUMBER OF HOLDER APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL ASREAS, FOR MEHER SEASON

Other Permanent Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	2132	30	1836	19	*	*	
West Tigray Zone	*	*	*	*	-	-	
Kafta	-	-	-	-	-	-	
Tahtay Adiyabo	*	*	*	*	-	-	
Laelay Adiyabo	-	-	-	-	-	-	
Tahtay Koraro	-	-	-	-	-	-	
Medebay Zana	-	-	-	-	-	-	
Asegede Tsimbela	*	*	*	*	-	-	
Tselemti	*	*	*	*	-	-	
Welkait	-	-	-	-	-	-	
Tsegede	-	-	-	-	-	-	
Central Tigray Zone	502	*	331	*	*	*	
Mereb Lehe	-	-	-	-	-	-	
Ahiferom	*	*	*	*	-	-	
Werie Lehe	-	-	-	-	-	-	
Adwa	*	*	*	*	-	-	
Laelay Maychew	173	*	123	*	*	*	
Tahtay Maychew	-	-	-	-	-	-	
Naeder Adet	-	-	-	-	-	-	
Kola Temben	*	*	*	*	*	*	
Degua Temben	*	*	*	*	-	-	
Tanqu Abergele	-	-	-	-	-	-	
East Tigray Zone	141	5	*	*	-	-	
Gulumahada	*	*	-	-	-	-	
Erob	-	-	-	-	-	-	
Saesi Tsaedamba	*	*	-	-	-	-	
Ganta Afeshum	-	-	-	-	-	-	
Hawzen	-	-	-	-	-	-	
Wukro	*	*	*	*	-	-	
Atsbi Wenberta	-	-	-	-	-	-	
South Tigray Zone	1366	7	1332	7	-	-	
Seharte Samre	*	*	*	*	-	-	
Enderta	*	*	*	*	-	-	
Hintalo Wajirat	491	*	491	*	-	-	
Ambalage	324	*	324	*	-	-	
Endamehoni	*	*	*	*	-	-	
Rayaaazebo	*	*	*	*	-	-	
Alamata	-	-	-	-	-	-	
Wofla	*	*	*	*	-	-	

TABLE 6.27 CONTD

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	-	-	-	228	*	*
West Tigray Zone	-	-	-	-	-	-
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	-	-	-	*	*	*
Mereb Lehe	-	-	-	-	-	-
Ahiferom	-	-	-	*	*	*
Werie Lehe	-	-	-	-	-	-
Adwa	-	-	-	*	*	*
Laelay Maychew	-	-	-	*	*	*
Tahtay Maychew	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	-	-	-	*	*	*
Gulumahada	-	-	-	*	*	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	*	*	*
Ganta Afeshum	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	*	*	*
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	-	-	-	*	*	*
Seharte Samre	-	-	-	-	-	-
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	*	*	*

TABLE 6.27a: Other of Other Permanent Crops

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	2035	29	1772	18	*	*	-
West Tigray Zone	*	*	*	*	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	*	*	*	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
CentralTigray Zone	439	*	268	*	*	*	-
Mereb Lehe	-	-	-	-	-	-	-
Ahiferom	*	*	*	*	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	*	*	*	*	-	-	-
Laelay Maychew	154	*	104	*	*	*	-
Tahtay Maychew	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	*	*	*	*	*	*	-
Degua Temben	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	141	5	*	*	-	-	-
Gulumahada	*	*	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	*	*	*	*	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	1332	7	1332	7	-	-	-
Seharte Samre	*	*	*	*	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	491	*	491	*	-	-	-
Ambalage	324	*	324	*	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayaaazebo	*	*	*	*	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	*	*	*	*	-	-	-

TABLE 6.27a: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	-	-	-	194	*	*
West Tigray Zone	-	-	-	-	-	-
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	-	-	-	*	*	*
Mereb Lehe	-	-	-	-	-	-
Ahiferom	-	-	-	*	*	*
Werie Lehe	-	-	-	-	-	-
Adwa	-	-	-	*	*	*
Laelay Maychew	-	-	-	*	*	*
Tahtay Maychew	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	-	-	-	*	*	-
Gulumahada	-	-	-	*	*	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	*	*	-
Ganta Afeshum	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	*	*	-
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	-	-	-	-	-	-
Seharte Samre	-	-	-	-	-	-
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	-	-	-

TABLE 6.28: HOLDERS APPLYING IMPROVED SEEDS AND QUANTITY BY TYPE OF CROP FOR RURAL AREAS IN MEHER SEASON, FOR PRIVATE HOLDINGS

Geographic Area	All crop		Grain		Cereals		Teff	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
Tigray Region	35659	6329	30156	6329	28783	6233	3966	430
West Tigray Zone	4188	382	3246	382	3088	374	965	150
Kafta	81	*	*	*	*	*	-	-
Tahtay Adiyabo	*	*	*	*	*	*	-	-
Laelay Adiyabo	1061	93	880	93	880	93	113	*
Tahtay Koraro	525	53	275	53	256	51	149	34
Medebay Zana	638	*	463	*	407	*	*	*
Asegede Tsimbela	529	78	438	78	438	78	273	45
Tselemti	451	*	392	*	359	*	*	*
Welkait	298	*	212	*	186	*	-	-
Tsegede	*	*	*	*	*	*	-	-
Central Tigray Zone	10485	1366	9208	1366	8739	1327	1775	150
Mereb Lehe	571	12	488	12	488	12	*	*
Ahiferom	2452	*	2216	*	2034	*	437	35
Werie Lehe	1313	*	997	*	930	*	276	*
Adwa	1291	62	1215	62	1215	62	254	19
Laelay Maychew	383	30	329	30	311	30	143	*
Tahtay Maychew	560	33	386	33	356	32	125	*
Naeder Adet	437	*	267	*	241	*	105	*
Kola Temben	1087	52	978	52	899	52	211	*
Degua Temben	2172	453	2114	453	2046	442	*	*
Tanqu Abergele	219	*	219	*	219	*	*	*
East Tigray Zone	11588	2520	10887	2520	10621	2494	352	44
Gulumahada	3517	939	3478	939	3457	938	-	-
Erob	38	*	38	*	38	*	-	-
Saesi Tsaedamba	1431	247	1274	247	1226	246	-	-
Ganta Afeshum	1776	275	1684	275	1610	257	*	*
Hawzen	1373	103	1352	103	1326	101	*	*
Wukro	1899	594	1755	594	1701	594	*	*
Atsbi Wenberta	1553	362	1308	362	1263	359	*	*
South Tigray Zone	9398	2061	6815	2061	6335	2037	874	86
Seharte Samre	876	*	720	*	695	*	*	*
Enderta	2933	708	1388	708	1337	708	*	*
Hintalo Wajirat	2487	*	2214	*	2214	*	*	*
Ambalage	540	*	*	*	*	*	*	*
Endamehoni	411	*	341	*	284	*	*	-
Rayaazebo	701	*	359	*	333	*	*	*
Alamata	423	33	344	33	267	33	194	*
Wofla	1027	249	976	249	780	238	*	*

TABLE 6.28: CONTD

Geographic Area	Barley		Wheat		Maize		Sorghum	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
Tigray Region	6031	485	18829	4981	4033	179	2860	64
West Tigray Zone	*	*	*	*	1274	90	953	*
Kafta	-	-	-	-	*	-	*	*
Tahtay Adiyabo	-	-	-	-	*	*	*	*
Laelay Adiyabo	*	*	-	-	589	53	210	*
Tahtay Koraro	-	-	-	-	105	13	-	-
Medebay Zana	-	-	-	-	116	*	*	-
Asegede Tsimbela	-	-	-	-	*	-	*	*
Tselemti	-	-	-	-	*	-	*	-
Welkait	-	-	-	-	*	*	*	*
Tsegede	*	*	*	*	*	-	-	-
Central Tigray Zone	2431	158	4663	915	1750	58	1174	16
Mereb Lehe	*	*	-	-	*	*	314	*
Ahiferom	300	*	1545	*	*	*	*	-
Werie Lehe	637	*	594	55	*	*	-	-
Adwa	373	*	512	*	523	10	*	*
Laelay Maychew	*	-	73	*	*	*	*	-
Tahtay Maychew	-	-	91	*	109	*	115	-
Naeder Adet	*	*	-	-	*	-	*	-
Kola Temben	*	*	*	*	*	*	172	*
Degua Temben	965	62	1824	374	*	*	*	-
Tanqu Abergele	-	-	-	-	108	*	167	*
East Tigray Zone	2209	188	9271	2231	606	27	244	*
Gulumahada	316	28	3359	908	*	*	*	*
Erob	32	-	*	-	11	*	-	-
Saesi Tsaedamba	213	*	1042	204	118	*	-	-
Ganta Afeshum	256	*	1471	226	*	*	*	-
Hawzen	813	*	881	65	*	*	*	*
Wukro	312	30	1500	527	182	*	*	*
Atsbi Wenberta	267	*	1012	301	116	*	-	-
South Tigray Zone	1296	113	4855	1823	402	*	489	*
Seharte Samre	467	*	515	*	*	-	*	*
Enderta	223	*	1144	651	*	*	-	-
Hintalo Wajirat	326	*	1894	*	*	-	*	*
Ambalage	*	*	*	*	*	*	-	-
Endamehoni	173	*	229	*	-	-	*	*
Rayaaazebo	-	-	*	-	*	*	*	-
Alamata	-	-	*	*	*	-	*	*
Wofla	*	-	631	234	*	*	*	*

TABLE 6.28: CONTD.

Geographic Area	Millet		Rice		Pulse		Horse bean	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quin
Tigray Region	1448	93	-	-	1907	92	1065	66
West Tigray Zone	645	63	-	-	252	*	*	*
Kafta	*	*	-	-	-	-	-	-
Tahtay Adiyabo	*	*	-	-	*	*	-	-
Laelay Adiyabo	272	16	-	-	-	-	-	-
Tahtay Koraro	*	*	-	-	*	*	*	*
Medebay Zana	-	-	-	-	*	*	*	-
Asegede Tsimbela	*	*	-	-	-	-	-	-
Tselemti	*	*	-	-	-	-	-	-
Welkait	*	*	-	-	*	-	*	-
Tsegede	-	-	-	-	-	-	-	-
Central Tigray Zone	578	*	-	-	893	39	478	*
Mereb Lehe	176	*	-	-	*	-	-	-
Ahiferom	*	*	-	-	229	*	*	*
Werie Lehe	*	*	-	-	*	*	*	*
Adwa	*	-	-	-	-	-	-	-
Laelay Maychew	*	-	-	-	*	*	*	-
Tahtay Maychew	*	-	-	-	116	*	116	*
Naeder Adet	*	-	-	-	*	*	*	*
Kola Temben	*	-	-	-	*	-	-	-
Degua Temben	*	-	-	-	164	*	*	*
Tanqu Abergele	-	-	-	-	*	*	-	-
East Tigray Zone	*	*	-	-	287	*	139	*
Gulumahada	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	*	*	*	*
Ganta Afeshum	*	-	-	-	119	*	*	*
Hawzen	*	*	-	-	*	*	-	-
Wukro	-	-	-	-	*	-	*	-
Atsbi Wenberta	-	-	-	-	*	*	*	*
South Tigray Zone	*	-	-	-	476	*	351	*
Seharte Samre	-	-	-	-	-	-	-	-
Enderta	*	-	-	-	-	-	-	-
Hintalo Wajirat	*	-	-	-	-	-	-	-
Ambalage	-	-	-	-	*	*	*	*
Endamehoni	-	-	-	-	*	*	*	*
Rayaazebo	-	-	-	-	*	*	-	-
Alamata	-	-	-	-	*	-	*	-
Wofla	-	-	-	-	*	*	*	*

TABLE 6.28: CONTD

Geographic Area	Field peas		Haricot Beans		Chick peas		Lentils	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
Tigray Region	202	*	298	*	172	*	166	*
West Tigray Zone	-	-	*	-	*	*	-	-
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	*	*	-	-
Lalay Adiyabo	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	*	-	-	-
Medebay Zana	-	-	-	-	*	*	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	*	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-
Central Tigray Zone	125	*	*	*	*	*	*	*
Mereb Lehe	-	-	-	-	-	-	-	-
Ahiferom	*	-	-	-	*	*	-	-
Werie Lehe	-	-	-	-	-	-	-	-
Adwa	-	-	-	-	-	-	-	-
Lalay Maychew	*	*	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-	-
Naeder Adet	-	-	*	-	-	-	-	-
Kola Temben	-	-	*	-	-	-	-	-
Degua Temben	*	-	-	-	-	-	*	*
Tanqu Abergele	*	*	*	*	-	-	*	*
East Tigray Zone	*	-	-	-	*	*	*	*
Gulumahada	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	*	*
Hawzen	-	-	-	-	*	*	-	-
Wukro	-	-	-	-	-	-	*	-
Atsbi Wenberta	-	-	-	-	-	-	-	-
South Tigray Zone	*	-	*	*	-	-	*	-
Seharte Samre	-	-	-	-	-	-	-	-
Enderta	-	-	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	*	-
Endamehoni	*	-	-	-	-	-	-	-
Rayaazebo	-	-	*	*	-	-	-	-
Alamata	*	-	*	-	-	-	-	-
Wofla	-	-	-	-	-	-	-	-

TABLE 6.28: CONTD

Geographic Area	Vetch		Soya beans		Fenugreek		Oil seeds	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
Tigray Region	*	-	*	-	*	-	714	*
West Tigray Zone	-	-	-	-	*	-	107	*
Kafta	-	-	-	-	-	-	*	*
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	*	-
Medebay Zana	-	-	-	-	*	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	*	-
Welkait	-	-	-	-	-	-	*	-
Tsegede	-	-	-	-	-	-	-	-
Central Tigray Zone	*	-	*	-	*	-	209	*
Mereb Lehe	*	-	-	-	-	-	*	-
Ahiferom	-	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	*	-
Adwa	-	-	-	-	-	-	*	-
Laelay Maychew	-	-	-	-	-	-	*	*
Tahtay Maychew	-	-	-	-	-	-	*	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	*	*
Degua Temben	-	-	*	-	*	-	-	-
Tanqu Abergele	-	-	-	-	-	-	*	-
East Tigray Zone	*	-	-	-	-	-	136	*
Gulumahada	-	-	-	-	-	-	*	*
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	*	*
Hawzen	*	-	-	-	-	-	*	-
Wukro	-	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	*	*
South Tigray Zone	-	-	-	-	-	-	262	-
Seharte Samre	-	-	-	-	-	-	*	-
Enderta	-	-	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	*	-
Wofla	-	-	-	-	-	-	*	-

TABLE 6.28: CONTD

Geographic Area	Neug		Linseed		Groundnuts		Sufflower	
	Holder	Quintal	Holder	Quintal	Holder	Quintal	Holder	Quintal
Tigray Region	217	*	205	*	-	-	*	-
West Tigray Zone	*	-	*	-	-	-	*	-
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-
Tahtay Koraro	*	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	*	-	-	-	-	-
Welkait	*	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-
Central Tigray Zone	75	*	*	-	-	-	*	-
Mereb Lehe	-	-	*	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	*	-
Adwa	-	-	-	-	-	-	-	-
Laelay Maychew	*	*	-	-	-	-	-	-
Tahtay Maychew	*	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	*	-
East Tigray Zone	*	-	*	*	-	-	*	-
Gulumahada	-	-	*	*	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-
Hawzen	*	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	*	*	-	-	-	-
South Tigray Zone	*	-	*	-	-	-	*	-
Seharte Samre	-	-	*	-	-	-	-	-
Enderta	-	-	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-	-	-
Alamata	*	-	-	-	-	-	*	-
Wofla	*	-	*	-	-	-	*	-

TABLE 6.28: CONTD

Geographic Area	Sesame		Rapeseed		Other Grains	
	Holder	Quintal	Holder	Quintal	Holder	Quintal
Tigray Region	*	*	*	*	252	-
West Tigray Zone	*	*	-	-	-	-
Kafta	*	*	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	*	*	-	-	*	-
Mereb Lehe	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-
Adwa	-	-	*	-	-	-
Laelay Maychew	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	*	-
Naeder Adet	-	-	-	-	-	-
Kola Temben	*	*	-	-	*	-
Degua Temben	-	-	-	-	-	-
Tanqu Abergele	*	-	-	-	-	-
East Tigray Zone	-	-	*	*	*	-
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	*	*	-	-
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	*	-
South Tigray Zone	-	-	-	-	*	-
Seharte Samre	-	-	-	-	-	-
Enderta	-	-	-	-	*	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	*	-
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	-	*	-

TABLE 6.28.1: HOLDERS APPLYING IMPROVED SEEDS BY TYPE OF CROP FOR RURAL AREAS IN MEHER SEASON, FOR PRIVATE HOLDINGS

Geographic	Number of Holders who used Improved Seeds						
	Vegetables	Lettuce	Head Cabbage	Kale	Tomatoes	Green peppers	Red peppers
Tigray Region	2145	*	*	*	515	*	155
West Tigray Zone	*	*	-	-	*	*	130
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	130	-	-	-	*	-	130
Tahtay Koraro	*	*	-	-	*	*	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	353	*	-	-	*	*	*
Mereb Lehe	*	-	-	-	-	-	-
Ahiferom	*	*	-	-	*	-	-
Werie Lehe	*	-	-	-	-	-	-
Adwa	*	*	-	-	-	*	-
Laelay Maychew	*	-	-	-	-	-	-
Tahtay Maychew	*	-	-	-	*	*	*
Naeder Adet	*	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	*	*	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	283	*	*	*	*	-	-
Gulumahada	*	*	*	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-
Ganta Afeshum	*	-	-	-	-	-	-
Hawzen	*	-	-	-	*	-	-
Wukro	-	-	-	-	-	-	-
Atsbi Wenberta	*	*	*	-	-	-	-
South Tigray Zone	*	*	*	*	*	-	-
Seharte Samre	*	-	*	*	-	-	-
Enderta	*	*	*	*	*	-	-
Hintalo Wajirat	142	-	*	-	*	-	-
Ambalage	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-

TABLE 6.28.1: CONTD

Geographic Area	Number of Holders who used Improved Seeds						
	Swiss chard	Other Vegetables	Root Crops	Beet root	Carrot	Onions	Potatoes
Tigray Region	*	*	1941	*	*	370	598
West Tigray Zone	-	-	*	-	-	*	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	*	-	-	*	-
Tahtay Koraro	-	-	*	-	-	*	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	252	-	392	*	*	*	*
Mereb Lehe	*	-	*	-	-	-	-
Ahiferom	*	-	*	-	-	-	*
Werie Lehe	*	-	-	-	-	-	-
Adwa	*	-	*	-	-	-	*
Laelay Maychew	*	-	-	-	-	-	-
Tahtay Maychew	*	-	*	*	*	*	-
Naeder Adet	*	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	-	-	*	*	*	-	*
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	*	*	299	-	*	*	*
Gulumahada	-	-	*	-	-	*	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	*	-	-	*	*
Ganta Afeshum	-	*	*	-	-	-	*
Hawzen	-	-	-	-	-	-	-
Wukro	-	-	*	-	*	-	-
Atsbi Wenberta	*	-	*	-	*	*	-
South Tigray Zone	*	-	*	*	*	*	*
Seharte Samre	-	-	*	-	-	-	*
Enderta	*	-	*	*	*	*	*
Hintalo Wajirat	-	-	-	-	-	-	-
Ambalage	-	-	*	-	*	-	-
Endamehoni	-	-	*	-	*	-	*
Rayaazebo	-	-	-	-	-	-	-
Alamata	-	-	*	-	-	*	-
Wofla	-	-	-	-	-	-	-

TABLE 6.28.1: CONTD

Geographic Area	Number of Holders who used Improved Seeds						
	Garlic	Sweet Potatoes	Other root crops	Permanent crops	Fruit crops	Avocado	Bananas
Tigray Region	165	*		3626	3303	209	145
West Tigray Zone	-	-	-	785	785	*	-
Kafta	-	-	-	*	*	-	-
Tahtay Adiyabo	-	-	-	*	*	-	-
Laelay Adiyabo	-	-	-	*	*	-	-
Tahtay Koraro	-	-	-	*	*	-	-
Medebay Zana	-	-	-	*	*	*	-
Asegede Tsimbela	-	-	-	117	117	-	-
Tselemti	-	-	-	*	*	-	-
Welkait	-	-	-	*	*	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	141	-	-	1139	973	*	*
Mereb Lehe	*	-	-	*	*	-	-
Ahiferom	-	-	-	233	194	-	-
Werie Lehe	-	-	-	389	389	-	-
Adwa	*	*	-	*	*	-	*
Laelay Maychew	-	-	-	*	-	-	-
Tahtay Maychew	*	*	-	*	*	-	*
Naeder Adet	-	-	-	128	128	-	-
Kola Temben	-	-	-	*	*	*	-
Degua Temben	*	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	*	-	-	419	377	*	*
Gulumahada	-	-	-	*	*	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsadamba	-	-	-	*	*	-	-
Ganta Afeshum	-	-	-	*	*	-	-
Hawzen	-	-	-	*	*	-	-
Wukro	-	-	-	109	91	*	*
Atsbi Wenberta	*	-	-	*	*	*	-
South Tigray Zone	-	-	-	1284	1169	*	*
Seharte Samre	-	-	-	*	*	-	-
Enderta	-	-	-	*	*	-	*
Hintalo Wajirat	-	-	-	*	*	*	*
Ambalage	-	-	-	*	*	-	*
Endamehoni	-	-	-	*	*	-	-
Rayazebo	-	-	-	*	*	-	-
Alamata	-	-	-	*	*	-	-
Wofla	-	-	-	*	*	*	-

TABLE 6.28.1: CONTD.

Geographic Area	Number of Holders who used Improved Seeds						
	Guavas (Zeytuna)	Lemons	Mangos	Oranges	Papayas	Pineapples	Other Fruits
Tigray Region	1289	358	*	390	1214	-	595
West Tigray Zone	331	*	*	123	556	-	*
Kafta	*	*	-	-	*	-	-
Tahtay Adiyabo	*	-	-	-	*	-	-
Laelay Adiyabo	*	-	-	-	*	-	-
Tahtay Koraro	*	-	-	*	*	-	-
Medebay Zana	*	-	*	*	*	-	-
Asegede Tsimbela	*	*	-	*	*	-	*
Tselemti	-	-	-	-	*	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	*	279	*	*	367	-	*
Mereb Lehe	-	-	-	*	-	-	-
Ahiferom	*	*	*	-	-	-	*
Werie Lehe	-	136	-	*	*	-	*
Adwa	*	-	-	-	*	-	-
Laelay Maychew	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	*	-	-
Naeder Adet	-	*	-	-	*	-	-
Kola Temben	-	-	-	-	*	-	*
Degua Temben	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	158	*	-	*	*	-	136
Gulumahada	*	-	-	-	-	-	*
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	-	-	-	-	*
Ganta Afeshum	*	-	-	*	*	-	*
Hawzen	*	-	-	-	-	-	-
Wukro	*	*	-	*	-	-	*
Atsbi Wenberta	*	-	-	-	-	-	-
South Tigray Zone	622	*	*	*	*	-	247
Seharte Samre	*	-	-	-	-	-	*
Enderta	*	-	*	-	-	-	*
Hintalo Wajirat	*	-	-	-	*	-	*
Ambalage	-	-	-	-	-	-	*
Endamehoni	*	*	*	-	-	-	-
Rayaazebo	*	-	-	*	*	-	*
Alamata	*	-	-	*	*	-	-
Wofla	-	-	-	-	-	-	-

TABLE 6.28.1: CONTD

Geographic Area	Number of Holders who used Improved Seeds		
	Stimulant crops	Coffee	Other Permanent Crops
Tigray Region	319	319	179
West Tigray Zone	*	*	-
Kafta	-	-	-
Tahtay Adiyabo	-	-	-
Laelay Adiyabo	-	-	-
Tahtay Koraro	*	*	-
Medebay Zana	-	-	-
Asegede Tsimbela	*	*	-
Tselemti	-	-	-
Welkait	-	-	-
Tsegede	-	-	-
Central Tigray Zone	130	130	*
Mereb Lehe	-	-	-
Ahiferom	*	*	-
Werie Lehe	-	-	-
Adwa	-	-	*
Laelay Maychew	-	-	*
Tahtay Maychew	*	*	-
Naeder Adet	*	*	-
Kola Temben	-	-	-
Degua Temben	-	-	-
Tanqu Abergele	-	-	-
East Tigray Zone	-	-	*
Gulumahada	-	-	-
Erob	-	-	-
Saesi Tsaedamba	-	-	-
Ganta Afeshum	-	-	-
Hawzen	-	-	-
Wukro	-	-	*
Atsbi Wenberta	-	-	*
South Tigray Zone	146	146	*
Seharte Samre	-	-	-
Enderta	*	*	-
Hintalo Wajirat	*	*	-
Ambalage	-	-	*
Endamehoni	-	-	-
Rayaaazebo	*	*	-
Alamata	-	-	*
Wofla	-	-	-

TABLE 6.29: Holders Applying Agricultural Inputs and Participating in Extension Programs by Level of Education in Rural and Urban Areas, for Private Holdings

EDUCATIONAL ATTAINMENT	Holders Applying Agricultural Inputs										Number and Percentage of Holders Participating in Agriculture Extension Programs	
	All Crop Holders		Improved Seed		Irrigation		Fertilizer		Pesticide			
	Holdes	%	Holdes	%	Holdes	%	Holdes	%	Holdes	%	Holder	%
ALL .....	685551	100.00	41595	6.07	106602	15.55	517709	75.52	37313	5.44	91288	13.32
Illiterate .....	484810	70.72	26466	5.46	71623	14.77	357699	73.78	22751	4.69	60014	12.38
Literate, but no formal Education .....	114539	16.71	8103	7.07	20936	18.28	91194	79.62	7572	6.61	17590	15.36
Completed Grade 1..	11188	1.63	570	5.09	1372	12.26	9144	81.73	662	5.92	1875	16.76
Completed Grade 2..	20705	3.02	1270	6.13	3188	15.4	16755	80.92	1488	7.19	3249	15.69
Completed Grade 3..	19888	2.90	1927	9.69	3219	16.19	16511	83.02	1872	9.41	3840	19.31
Completed Grade 4..	13246	1.93	1025	7.74	2225	16.8	10350	78.14	1359	10.26	1966	14.84
Completed Grade 5..	7786	1.14	872	11.2	1555	19.97	6031	77.46	500	6.42	982	12.61
Completed Grade 6..	6295	0.92	678	10.77	1237	19.65	4652	73.9	624	9.91	972	15.44
Completed Grade 7..	3070	0.45	312	10.16	614	20	2395	78.01	306	9.97	372	12.12
Completed Grade 8..	1759	0.26	179	10.18	298	16.94	1249	71.01	88	5	198	11.26
Completed Grade 9..	869	0.13	*	*	112	12.89	639	73.53	15	1.73	118	13.58
Completed Grade 10	532	0.08	15	2.82	119	22.37	444	83.46	*	*	*	*
Completed Grade 11	263	0.04	*	*	*	*	184	69.96	-	-	*	*
Completed Grade 12	396	0.06	55	13.89	38	9.6	312	78.79	*	*	*	*
Above Grade 12.....	204	0.03	20	9.8	34	16.67	150	73.53	*	*	-	-
Not Reported .....	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.29.1: RURAL HOLDINGS

EDUCATIONAL ATTAINMENT	All Crop Holders		Number of Holders Applying Agricultural Inputs								Number and Percentage of Holders Participating in Agriculture Extension Programs	
			Improved Seed		Irrigation		Fertilizer		Pesticide			
			Holdes	%	Holdes	%	Holdes	%	Holdes	%		
ALL.....	672096	100.00	40206	5.98	105055	15.63	511758	76.14	36156	5.38	91288	13.58
Illiterate.....	477445	71.04	25872	5.42	70917	14.85	354892	74.33	22276	4.67	60014	12.57
Literate, but no formal Education.....	112579	16.75	7884	7	20686	18.37	90261	80.18	7344	6.52	17590	15.62
Completed Grade 1..	10989	1.64	552	5.02	1358	12.36	9055	82.4	656	5.97	1875	17.06
Completed Grade 2..	20169	3.00	1215	6.02	3107	15.4	16485	81.73	1434	7.11	3249	16.11
Completed Grade 3..	19090	2.84	1834	9.61	3152	16.51	16056	84.11	1777	9.31	3840	20.12
Completed Grade 4..	12511	1.86	963	7.7	2119	16.94	9990	79.85	1268	10.14	1966	15.71
Completed Grade 5..	7256	1.08	765	10.54	1464	20.18	5727	78.93	433	5.97	982	13.53
Completed Grade 6..	5883	0.88	599	10.18	1171	19.9	4426	75.23	581	9.88	972	16.52
Completed Grade 7..	2779	0.41	272	9.79	573	20.62	2243	80.71	272	9.79	372	13.39
Completed Grade 8..	1506	0.22	*	*	261	17.33	1132	75.17	*	*	198	13.15
Completed Grade 9..	753	0.11	*	*	*	*	565	75.03	-	-	118	15.67
Completed Grade 10	461	0.07	-	-	*	*	403	87.42	-	-	*	*
Completed Grade 11	226	0.03	*	*	*	*	157	69.47	-	-	*	*
Completed Grade 12	292	0.04	*	*	-	-	247	84.59	*	*	*	*
Above Grade 12.....	155	0.02	-	-	*	*	*	*	-	-	-	-
Not Reported.....	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.29.2: RURAL MEHER

EDUCATIONAL ATTAINMENT	Number of Holders Applying Agricultural Inputs										Number and Percentage of Holders Participating in Agriculture Extension Programs	
	All Crop Holders		Improved Seed		Irrigation		Fertilizer		Pesticide			
	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%	Holders	%
ALL.....	671585	100	35659	5.31	63431	9.44	506110	75.36	33515	4.99	80935	12.05
Illiterate.....	477067	71.04	23208	4.86	42474	8.9	350887	73.55	20395	4.28	53248	11.16
Literate, but no formal Education .....	112522	16.75	6989	6.21	12689	11.28	89377	79.43	6996	6.22	15705	13.96
Completed Grade 1 ..	10959	1.63	506	4.62	761	6.94	9028	82.38	656	5.99	1735	15.83
Completed Grade 2 ..	20151	3.00	1075	5.33	2050	10.17	16273	80.76	1365	6.77	2832	14.05
Completed Grade 3 ..	19090	2.84	1625	8.51	2056	10.77	15900	83.29	1720	9.01	3422	17.93
Completed Grade 4 ..	12511	1.86	676	5.4	1454	11.62	9922	79.31	1029	8.22	1704	13.62
Completed Grade 5 ..	7256	1.08	644	8.88	730	10.06	5639	77.71	433	5.97	854	11.77
Completed Grade 6 ..	5883	0.88	432	7.34	618	10.5	4351	73.96	560	9.52	748	12.71
Completed Grade 7 ..	2751	0.41	254	9.23	311	11.3	2152	78.23	272	9.89	341	12.4
Completed Grade 8 ..	1506	0.22	*	*	144	9.56	1088	72.24	*	*	181	12.02
Completed Grade 9 ..	753	0.11	*	*	*	*	565	75.03	-	-	*	*
Completed Grade 10	461	0.07	-	-	*	*	403	87.42	-	-	*	*
Completed Grade 11	226	0.03	*	*	*	*	157	69.47	-	-	*	*
Completed Grade 12	292	0.04	*	*	-	-	247	84.59	*	*	*	*
Above Grade 12.....	155	0.02	-	-	*	*	*	*	-	-	-	-
Not Reported.....	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.29.3: RURAL BELG

EDUCATIONAL ATTAINMENT	All Crop Holders		Number of Holders Applying Agricultural Inputs								Number and Percentage of Holders Participating in Agriculture Extension Programs	
			Improved Seed		Irrigation		Fertilizer		Pesticide			
	Holdes	%	Holdes	%	Holdes	%	Holdes	%	Holdes	%	Holdes	%
ALL .....	82447	100.00	6318	7.66	64609	78.36	36530	44.31	2794	3.39	15579	18.9
Illiterate .....	56448	68.47	3823	6.77	43970	77.89	24290	43.03	1974	3.5	9969	17.66
Literate, but no formal Education .....	15493	18.79	1153	7.44	12371	79.85	6663	43.01	371	2.39	2888	18.64
Completed Grade 1..	1058	1.28	*	*	860	81.29	532	50.28	-	-	253	23.91
Completed Grade 2..	2112	2.56	158	7.48	1689	79.97	1231	58.29	*	*	496	23.48
Completed Grade 3..	2177	2.64	361	16.58	1693	77.77	1158	53.19	*	*	754	34.63
Completed Grade 4..	1775	2.15	356	20.06	1419	79.94	1074	60.51	239	13.46	486	27.38
Completed Grade 5..	1171	1.42	141	12.04	936	79.93	506	43.21	-	-	205	17.51
Completed Grade 6..	1063	1.29	196	18.44	816	76.76	487	45.81	*	*	314	29.54
Completed Grade 7..	495	0.60	*	*	462	93.33	301	60.81	*	*	*	*
Completed Grade 8..	305	0.37	-	-	188	61.64	114	37.38	*	*	*	*
Completed Grade 9..	123	0.15	-	-	*	*	*	*	-	-	*	*
Completed Grade 10	*	*	-	-	*	*	*	*	-	-	*	*
Completed Grade 11	*	*	-	-	-	-	-	-	-	-	-	-
Completed Grade 12	*	*	-	-	-	-	-	-	-	-	-	-
Above Grade 12.....	*	*	-	-	-	-	*	*	-	-	-	-
Not Reported .....	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.29.4: URBAN HOLDINGS

EDUCATIONAL ATTAINMENT	All Crop Holders		Number & Percentage of Holders in Education Category who Applied:							
			Improved Seed		Irrigation		Fertilizer		Pesticide	
	Holdes	%	Holdes	%	Holdes	%	Holdes	%	Holdes	%
ALL	13455	100.00	1388	10.32	1548	11.51	5951	44.23	1157	8.6
Illiterate	7365	54.74	595	8.08	706	9.59	2807	38.11	474	6.44
Literate, but no formal Education	1960	14.57	219	11.17	250	12.76	933	47.6	229	11.68
Completed Grade 1	200	1.49	18	9	14	7	89	44.5	7	3.5
Completed Grade 2	536	3.98	55	10.26	82	15.3	270	50.37	55	10.26
Completed Grade 3	798	5.93	92	11.53	68	8.52	456	57.14	96	12.03
Completed Grade 4	735	5.46	63	8.57	106	14.42	360	48.98	91	12.38
Completed Grade 5	530	3.94	107	20.19	92	17.36	305	57.55	67	12.64
Completed Grade 6	412	3.06	79	19.17	66	16.02	226	54.85	43	10.44
Completed Grade 7	291	2.16	39	13.4	41	14.09	151	51.89	34	11.68
Completed Grade 8	253	1.88	46	18.18	37	14.62	117	46.25	17	6.72
Completed Grade 9	116	0.86	22	18.97	18	15.52	73	62.93	15	12.93
Completed Grade 10	70	0.52	15	21.43	9	12.86	41	58.57	*	*
Completed Grade 11	37	0.27	4	10.81	3	8.11	27	72.97	-	-
Completed Grade 12	104	0.77	14	13.46	38	36.54	65	62.5	15	14.42
Above Grade 12	49	0.36	20	40.82	18	36.73	31	63.27	*	*
Not Reported	-	-	-	-	-	-	-	-	-	-

TABLE 6.30: TOTAL NUMBER OF HOLDERS BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	All Holding															
	Grades Completed by Holder															
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Tigray Region	685551	484810	114539	11188	20705	19888	13246	7786	6295	3070	1759	869	532	263	396	204
West Tigray Zone	170505	122827	28544	3715	5362	4117	3065	995	1051	251	255	101	18	*	*	*
Kafta	11232	6935	2387	187	343	558	394	111	129	54	*	*	6	*	7	4
Tahtay Adiyabo	17053	12179	2692	449	593	512	324	169	*	29	9	*	*	*	*	-
Laelay Adiyabo	20864	14477	3487	764	939	541	319	82	209	*	*	-	-	*	-	-
Tahtay Koraro	13617	9636	2253	386	317	427	319	80	110	*	19	*	-	*	*	*
Medebay Zana	22822	16041	3301	517	1081	753	398	270	298	*	*	*	*	*	*	*
Asegede Tsimbela	20776	15153	3150	423	864	640	392	*	*	*	1	-	-	-	-	-
Tselemti	27354	19786	5204	557	723	399	387	*	*	*	*	-	-	-	*	-
Welkait	22121	17303	3387	338	321	125	386	*	*	*	*	*	-	-	*	-
Tsegede	14666	11318	2682	*	180	161	146	*	-	*	5	-	-	-	-	-
Central Tigray Zone	221377	149994	34353	4671	9206	8260	5646	3556	2828	1432	610	391	162	*	169	28
Mereb Lehe	18433	13021	2251	606	919	749	344	226	101	125	*	*	*	*	*	-
Ahiferom	34455	21603	5205	977	1685	1557	1459	861	710	273	*	*	*	2	2	-
Werie Lehe	26805	16600	4094	950	1284	941	1198	648	615	273	*	*	*	-	-	-
Adwa	23622	15942	3914	351	882	1167	401	392	251	165	*	8	*	*	52	17
Laelay Maychew	14982	9884	2250	299	587	423	616	261	284	127	141	64	9	5	*	10
Tahtay Maychew	17645	12678	2074	313	658	628	550	275	147	162	*	*	*	-	*	-
Naeder Adet	21542	15155	2969	336	936	1029	332	277	358	*	*	-	-	*	*	-
Kola Temben	26840	18561	4855	373	1101	774	287	404	179	175	119	1	*	1	*	-

TABLE 6.30: CONTD

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
Degua Temben	22002	15999	4131	191	647	504	195	*	*	*	*	*	-	*	-	*
Tanqu Abergele	15051	10551	2610	275	507	488	263	131	131	65	*	*	-	-	-	-
East Tigray Zone	119294	82782	22511	1225	3151	3398	2068	1578	1044	695	326	125	173	*	102	*
Gulumahada	15571	10500	2712	123	522	581	401	253	263	95	55	*	10	-	*	*
Erob	3599	2846	457	33	81	48	47	22	16	*	16	*	*	-	1	*
Saesi Tsaedamba	23843	16560	4530	489	697	509	448	317	*	181	*	-	*	-	-	2
Ganta Afeshum	20213	13283	3914	188	544	578	394	377	384	158	*	*	101	*	*	*
Hawzen	20794	14989	4075	*	509	510	220	176	*	*	*	*	*	-	-	-
Wukro	14788	10115	2984	193	336	503	204	231	138	*	*	1	-	-	*	-
Atsbi Wenberta	20485	14489	3840	116	463	669	356	203	130	118	*	*	*	*	*	-
South Tigray Zone	174142	129076	29093	1577	2983	4108	2459	1651	1354	693	549	252	178	*	19	*
Seharte Samre	22648	16768	3475	364	602	746	317	114	145	*	*	-	-	-	*	-
Enderta	21981	16174	3775	147	327	440	313	253	223	*	*	*	*	*	-	*
Hintalo Wajirat	28357	20725	4803	248	493	912	303	403	*	189	*	*	*	-	-	*
Ambalage	20215	14246	3495	341	361	420	641	213	280	*	94	*	*	*	-	-
Endamehoni	17089	12833	2662	179	345	415	229	87	212	7	*	*	*	*	*	1
Rayaazebo	20100	16074	2800	101	218	315	199	*	160	*	*	5	-	*	*	1
Alamata	15691	11649	2710	82	255	174	228	213	143	115	102	*	-	-	*	*
Wofla	28060	20606	5373	*	382	686	228	277	*	*	*	1	-	1	1	*
Mekele Zone	233	132	38	-	*	*	9	*	*	-	*	-	-	-	*	-
Mekele	233	132	38	-	*	*	9	*	*	-	*	-	-	-	*	-

TABLE 6.30.1: RURAL HOLDINGS

Geographic Area	All Holding															
	Grades Completed by Holder															
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Tigray Region	672096	477445	112579	10989	20169	19090	12511	7256	5883	2779	1506	753	461	226	292	155
West Tigray Zone	166376	120322	28025	3651	5184	3902	2876	855	931	184	201	*	-	*	*	*
Kafta	10090	6292	2209	165	282	511	338	*	92	*	*	*	-	*	-	-
Tahtay Adiyabo	15793	11321	2570	425	550	450	263	146	*	-	-	-	-	*	-	-
Laelay Adiyabo	20652	14339	3453	764	930	533	311	*	205	*	-	-	-	*	-	-
Tahtay Koraro	13388	9531	2234	385	303	410	307	73	93	*	-	*	-	-	-	*
Medebay Zana	22315	15750	3246	511	1079	714	379	242	263	*	*	*	-	-	*	-
Asegede Tsimbela	20574	15046	3115	422	852	632	378	*	*	*	-	-	-	-	-	-
Tselemti	27124	19625	5174	555	716	388	383	*	*	-	*	-	-	-	*	-
Welkait	21820	17127	3346	331	295	109	373	*	*	*	*	-	-	-	-	-
Tsegede	14619	11292	2678	*	177	157	143	*	-	*	-	-	-	-	-	-
Central Tigray Zone	216603	147648	33748	4574	8974	7878	5330	3340	2681	1286	516	332	*	*	122	-
Mereb Lehe	18035	12829	2210	586	900	712	309	214	87	112	-	*	-	*	*	-
Ahiferom	33451	21116	5061	954	1623	1487	1385	827	693	238	*	-	*	-	-	-
Werie Lehe	26409	16380	4073	950	1260	906	1162	636	593	256	-	*	*	-	-	-
Adwa	23238	15785	3867	350	875	1140	381	373	241	150	*	-	*	-	*	-
Laelay Maychew	14202	9519	2067	286	561	395	584	228	258	109	125	*	-	-	*	-
Tahtay Maychew	17456	12601	2049	308	641	604	541	268	136	157	*	*	*	-	*	-
Naeder Adet	21109	14944	2954	315	905	987	295	231	342	*	*	-	-	*	*	-
Kola Temben	26437	18358	4804	373	1093	726	271	372	170	167	*	-	-	-	-	-

TABLE 6.30.1 CONTD.

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
Degua Temben	21737	15849	4091	185	637	492	176	*	*	*	*	*	-	-	-	-
Tanqu Abergele	14528	10268	2571	266	480	430	225	*	118	*	*	-	-	-	-	-
East Tigray Zone	118293	82215	22339	1214	3125	3344	2021	1546	1030	677	300	118	162	*	91	*
Gulumahada	15470	10437	2707	116	517	577	392	253	263	95	55	*	-	-	*	*
Erob	3594	2843	457	33	81	47	47	22	16	*	16	*	*	-	-	*
Saesi Tsaedamba	23723	16487	4506	487	695	503	445	314	*	181	*	-	*	-	-	-
Ganta Afeshum	20125	13243	3893	188	544	573	388	374	380	156	*	*	101	*	*	*
Hawzen	20568	14883	4014	*	503	497	206	168	*	*	*	*	-	-	-	-
Wukro	14576	9970	2961	193	330	491	203	226	136	*	-	-	-	-	*	-
Atsbi Wenberta	20237	14351	3801	114	455	657	340	189	127	109	*	*	*	-	-	-
South Tigray Zone	170824	127261	28467	1550	2886	3966	2284	1517	1242	632	490	222	176	*	-	*
Seharte Samre	22420	16661	3424	364	586	732	295	109	139	*	*	-	-	-	-	-
Enderta	21644	16050	3712	141	317	427	303	206	191	*	*	*	*	-	-	-
Hintalo Wajirat	27935	20488	4714	241	485	895	283	393	*	184	*	*	*	-	-	*
Ambalage	19940	14145	3428	339	353	397	609	201	263	*	*	*	*	*	-	-
Endamehoni	16850	12690	2620	178	339	406	221	76	208	-	*	*	*	-	-	-
Rayaazebo	19833	15921	2765	101	211	300	185	*	154	*	*	-	-	*	-	-
Alamata	14505	10899	2504	78	222	148	179	179	117	*	*	-	-	-	-	-
Wofla	27695	20407	5300	*	372	661	208	269	*	*	*	-	-	-	-	*

TABLE 6.30.2: RURAL MEHER

Geographic Area	All Holding															
	Grades Completed by Holder															
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Tigray Region	671585	477067	112522	10959	20151	19090	12511	7256	5883	2751	1506	753	461	226	292	155
West Tigray Zone	166363	120310	28025	3651	5184	3902	2876	855	931	184	201	*	-	*	*	*
Kafta	10090	6292	2209	165	282	511	338	*	92	*	*	*	-	*	-	-
Tahtay Adiyabo	15793	11321	2570	425	550	450	263	146	*	-	-	-	-	*	-	-
Laelay Adiyabo	20652	14339	3453	764	930	533	311	*	205	*	-	-	-	*	-	-
Tahtay Koraro	13388	9531	2234	385	303	410	307	73	93	*	-	*	-	-	-	*
Medebay Zana	22315	15750	3246	511	1079	714	379	242	263	*	*	*	-	-	*	-
Asegede Tsimbela	20574	15046	3115	422	852	632	378	*	*	*	-	-	-	-	*	-
Tselemti	27124	19625	5174	555	716	388	383	*	*	-	*	-	-	-	*	-
Welkait	21820	17127	3346	331	295	109	373	*	*	*	*	-	-	-	-	-
Tsegede	14606	11279	2678	*	177	157	143	*	-	*	-	-	-	-	-	-
Central Tigray Zone	216402	147504	33748	4544	8974	7878	5330	3340	2681	1258	516	332	*	*	122	-
Mereb Lehe	18035	12829	2210	586	900	712	309	214	87	112	-	*	-	*	*	-
Ahiferom	33451	21116	5061	954	1623	1487	1385	827	693	238	*	-	*	-	-	-
Werie Lehe	26381	16380	4073	950	1260	906	1162	636	593	228	-	*	*	-	-	-
Adwa	23102	15679	3867	320	875	1140	381	373	241	150	*	-	*	-	*	-
Laelay Maychew	14202	9519	2067	286	561	395	584	228	258	109	125	*	-	-	*	-
Tahtay Maychew	17456	12601	2049	308	641	604	541	268	136	157	*	*	*	-	*	-
Naeder Adet	21072	14906	2954	315	905	987	295	231	342	*	*	-	-	*	*	-
Kola Temben	26437	18358	4804	373	1093	726	271	372	170	167	*	-	-	-	-	-

TABLE 6.30.2 CONTD.

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
Degua Temben	21737	15849	4091	185	637	492	176	*	*	*	*	*	-	-	-	-
Tanqu Abergele	14528	10268	2571	266	480	430	225	*	118	*	*	-	-	-	-	-
East Tigray Zone	118150	82129	22282	1214	3125	3344	2021	1546	1030	677	300	118	162	*	91	*
Gulumahada	15470	10437	2707	116	517	577	392	253	263	95	55	*	-	-	*	*
Erob	3594	2843	457	33	81	47	47	22	16	*	16	*	*	-	-	*
Saesi Tsaedamba	23660	16455	4475	487	695	503	445	314	*	181	*	-	*	-	-	-
Ganta Afeshum	20125	13243	3893	188	544	573	388	374	380	156	*	*	101	*	*	*
Hawzen	20568	14883	4014	*	503	497	206	168	*	*	*	*	-	-	-	-
Wukro	14554	9948	2961	193	330	491	203	226	136	*	-	-	-	-	*	-
Atsbi Wenberta	20179	14320	3774	114	455	657	340	189	127	109	*	*	*	-	-	-
South Tigray Zone	170669	127124	28467	1550	2868	3966	2284	1517	1242	632	490	222	176	*	-	*
Seharte Samre	22357	16598	3424	364	586	732	295	109	139	*	*	-	-	-	-	-
Enderta	21644	16050	3712	141	317	427	303	206	191	*	*	*	*	-	-	-
Hintalo Wajirat	27935	20488	4714	241	485	895	283	393	*	184	*	*	*	-	-	*
Ambalage	19940	14145	3428	339	353	397	609	201	263	*	*	*	*	*	-	-
Endamehoni	16801	12659	2620	178	321	406	221	76	208	-	*	*	*	-	-	-
Rayaazebo	19791	15879	2765	101	211	300	185	*	154	*	*	-	-	*	-	-
Alamata	14505	10899	2504	78	222	148	179	179	117	*	*	-	-	-	-	-
Wofla	27695	20407	5300	*	372	661	208	269	*	*	*	-	-	-	-	*

TABLE 6.30.3: RURAL BELG

Geographic Area	All Holding															
	All Holders	Illiterate	Literate but not Formal Education	Grades Completed by Holder												
				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
Tigray Region	82447	56448	15493	1058	2112	2177	1775	1171	1063	495	305	123	*	*	*	*
West Tigray Zone	4269	2709	862	*	149	157	207	-	*	-	-	-	-	-	-	*
Kafta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	708	428	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Tahtay Koraro	673	460	103	-	*	*	*	-	-	-	-	-	-	-	-	*
Medebay Zana	1849	1016	456	*	*	*	110	-	*	-	-	-	-	-	-	-
Asegede Tsimbela	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tsegede	966	732	187	*	*	-	*	-	-	-	-	-	-	-	-	-
Central Tigray Zone	16968	11139	2654	254	773	646	673	246	271	223	*	*	-	-	-	-
Mereb Lehe	995	721	188	*	*	*	*	-	-	-	-	-	-	-	-	-
Ahiferom	3979	2749	602	*	*	*	*	*	*	*	-	-	-	-	-	-
Werie Lehe	2289	1499	292	*	*	-	*	*	*	*	-	*	-	-	-	-
Adwa	4384	2909	703	*	242	*	*	*	-	*	-	-	-	-	-	-
Laelay Maychew	1284	692	213	*	*	*	*	*	80	*	*	-	-	-	-	-
Tahtay Maychew	1370	904	230	*	*	*	*	*	*	*	-	-	-	-	-	-
Naeder Adet	597	442	*	-	*	-	-	-	*	-	*	-	-	-	-	-
Kola Temben	*	*	*	-	*	*	*	-	*	*	-	-	-	-	-	-

TABLE 6.30.3 CONTD

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
Degua Temben	*	*	*	-	*	*	-	-	-	-	-	-	-	-	-	-
Tanqu Abergele	*	*	-	*	-	-	*	-	-	-	-	-	-	-	-	-
East Tigray Zone	12600	8304	2646	110	352	398	281	209	96	*	*	-	*	-	*	-
Gulumahada	*	*	*	-	-	-	-	*	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	5370	3710	980	*	*	122	*	143	*	*	-	-	*	-	-	-
Ganta Afeshum	926	577	*	-	*	*	-	-	*	*	*	-	-	-	-	-
Hawzen	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Wukro	1939	1174	489	*	90	*	*	*	*	-	-	-	-	-	*	-
Atsbi Wenberta	4203	2812	833	*	155	207	112	-	-	*	*	-	-	-	-	-
South Tigray Zone	48610	34296	9330	627	837	975	613	716	597	165	196	*	*	*	-	*
Seharte Samre	*	*	411	*	*	*	*	*	*	-	-	-	-	-	-	-
Enderta	2776	2058	465	*	-	123	*	-	*	-	*	*	-	-	-	-
Hintalo Wajirat	11771	8307	2125	175	222	428	*	188	*	*	-	*	*	-	-	-
Ambalage	7904	5006	1794	*	170	*	271	147	205	-	*	*	*	-	-	-
Endamehoni	7441	5437	1252	109	199	115	*	*	151	-	*	-	*	-	-	-
Rayazebo	5040	4017	728	*	*	*	*	*	*	-	-	-	-	*	-	-
Alamata	1483	813	403	*	*	*	*	*	-	-	-	-	-	-	-	-
Wofla	10448	7560	2153	*	*	*	*	*	*	*	*	-	-	-	-	*

TABLE 6.30.4: URBAN HOLDINGS

Geographic Area	All Holding															
	Grades Completed by Holder															
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Tigray Region	13455	7365	1960	200	536	798	735	530	412	291	253	116	70	37	104	49
West Tigray Zone	4129	2504	519	65	178	215	189	140	120	67	54	19	18	*	26	8
Kafta	1141	643	178	21	61	47	57	39	37	23	11	8	6	-	7	4
Tahtay Adiyabo	1259	858	122	23	43	62	60	22	17	29	9	*	*	-	*	-
Laelay Adiyabo	212	138	34	-	10	9	7	8	*	-	*	-	-	-	-	-
Tahtay Koraro	229	105	19	1	14	18	*	*	17	3	19	1	-	*	*	-
Medebay Zana	507	291	56	7	2	39	20	28	35	1	*	*	*	*	*	*
Asegede Tsimbela	202	107	35	1	12	8	13	13	6	6	1	-	-	-	-	-
Tselemti	230	161	31	*	7	*	5	3	4	*	*	-	-	-	-	-
Welkait	301	176	40	7	26	16	*	18	*	-	-	*	-	-	*	-
Tsegede	47	26	5	2	2	5	2	-	-	-	5	-	-	-	-	-
Central Tigray Zone	4774	2346	605	97	232	381	315	217	147	146	94	60	38	20	47	28
Mereb Lehe	398	193	41	20	19	37	35	12	14	13	*	*	*	-	3	-
Ahiferom	1004	487	144	*	62	70	75	34	17	35	19	*	*	2	2	-
Werie Lehe	396	220	21	-	24	35	37	12	22	17	*	-	-	-	-	-
Adwa	383	157	47	1	8	28	20	18	11	15	14	8	6	*	29	17
Laelay Maychew	781	365	182	13	26	28	31	33	27	18	16	12	9	5	5	10
Tahtay Maychew	188	77	25	4	17	24	*	7	*	5	-	7	-	-	*	-
Naeder Adet	433	211	*	21	31	42	36	46	*	*	-	-	-	-	*	-
Kola Temben	403	203	51	-	*	49	15	32	9	*	15	1	*	1	*	-

TABLE 6.30.4 CONTD.

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
Degua Temben	265	150	40	6	11	12	19	4	9	-	*	4	-	*	-	*
Tanqu Abergele	523	283	39	*	*	58	39	*	*	25	*	*	-	-	-	-
East Tigray Zone	1001	567	172	12	26	54	47	33	14	17	26	*	11	*	11	2
Gulumahada	101	63	*	*	*	*	9	-	-	-	-	-	10	-	-	-
Erob	6	3	-	-	-	1	-	-	-	-	-	-	-	-	1	-
Saesi Tsaedamba	121	73	24	2	2	7	3	3	*	-	1	-	-	-	-	2
Ganta Afeshum	88	40	21	-	-	5	5	3	4	*	6	-	-	-	1	-
Hawzen	226	105	61	-	*	*	*	*	2	1	*	*	*	-	-	-
Wukro	212	145	22	-	*	12	1	*	2	5	*	1	-	-	4	-
Atsbi Wenberta	248	137	39	*	8	12	16	13	3	9	*	-	-	*	*	-
South Tigray Zone	3318	1815	626	26	97	142	175	135	112	61	58	30	2	8	19	11
Seharte Samre	228	107	51	-	16	13	22	*	*	*	*	-	-	-	*	-
Enderta	337	123	64	*	*	*	*	47	33	*	*	*	-	*	-	*
Hintalo Wajirat	421	238	89	*	8	17	20	10	12	6	8	*	1	-	-	-
Ambalage	275	102	67	*	8	23	32	12	16	4	6	2	1	-	-	-
Endamehoni	239	144	41	1	6	9	8	11	4	7	*	1	-	*	*	1
Rayaazebo	267	153	35	-	7	15	14	8	6	10	8	5	-	1	*	1
Alamata	1186	750	207	*	33	26	49	34	26	20	18	*	-	-	*	*
Wofla	365	199	73	*	10	25	20	8	9	6	2	1	-	1	1	1
Mekele Zone	233	132	38	-	*	*	9	*	*	-	*	-	-	-	*	-
Mekele	233	132	38	-	*	*	9	*	*	-	*	-	-	-	*	-

TABLE 6.31: APPLICATION OF IMPROVED SEEDS BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders Applying Improved Seeds															
	All Holders	Illiterate	Literate but not Formal Education	Grades Completed by Holder												
				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
Tigray Region	41595	26466	8103	570	1270	1927	1025	872	678	312	179	*	15	*	55	20
West Tigray Zone	5127	3215	1010	144	211	241	99	*	*	*	*	*	-	*	-	-
Kafta	90	*	*	-	*	*	-	-	1	-	-	-	-	-	-	-
Tahtay Adiyabo	492	*	221	-	*	*	*	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	1423	854	279	*	126	*	*	*	-	-	-	-	-	-	-	-
Tahtay Koraro	748	487	123	*	2	*	*	*	*	-	1	-	-	-	-	-
Medebay Zana	893	566	*	-	-	*	*	*	*	-	*	-	-	*	-	-
Asegede Tsimbela	548	343	*	*	*	*	-	*	-	-	-	-	-	-	-	-
Tselemti	464	277	164	-	-	-	*	-	-	-	-	-	-	-	-	-
Welkait	317	287	-	-	-	-	-	-	-	*	-	*	-	-	-	-
Tsegede	*	*	*	-	*	2	-	-	-	-	-	-	-	-	-	-
Central Tigray Zone	12864	8061	2039	258	466	719	506	265	237	126	*	*	*	*	*	13
Mereb Lehe	753	497	117	*	-	*	*	-	1	*	-	-	-	-	-	-
Ahiferom	3087	1781	498	*	*	187	266	*	*	18	*	-	-	-	-	-
Werie Lehe	1521	828	145	*	*	*	*	*	*	*	*	*	-	-	-	-
Adwa	1745	1139	393	-	*	*	*	10	*	-	*	2	3	*	3	13
Laelay Maychew	911	501	167	*	*	*	*	*	42	*	*	1	-	-	-	-
Tahtay Maychew	698	444	*	*	*	7	*	*	*	-	-	7	-	-	*	-
Naeder Adet	492	314	*	-	*	*	*	-	-	-	-	-	-	-	-	-
Kola Temben	1111	665	212*	*	*	*	*	*	*	-	-	1*	-	-	-	-

TABLE 6.31 CONTD.

Geographic Area	Holders Applying Improved Seeds															
	All Holders	Illiterate	Literate but not Formal Education	Grades Completed by Holder												
				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
Degua Temben	2235	1656	363	-	*	*	2	1	*	-	*	2	-	-	-	-
Tanqu Abergele	311	234	*	-	-	*	*	-	-	*	*	-	-	-	-	-
East Tigray Zone	12162	8107	2230	115	339	556	267	246	170	*	*	1	*	-	*	1
Gulumahada	3585	2349	525	*	136	239	111	*	120	-	*	-	*	-	*	-
Erob	38	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	1621	1085	281	*	-	*	*	*	-	*	-	-	-	-	-	1
Ganta Afeshum	1842	1030	416	*	*	*	*	*	*	*	*	-	-	-	1	-
Hawzen	1399	936	339	-	*	*	*	*	-	-	-	-	-	-	-	-
Wukro	1940	1355	405	*	*	*	*	1	*	-	1	1	-	-	1	-
Atsbi Wenberta	1737	1314	264	-	*	*	*	*	*	*	-	-	-	-	-	-
South Tigray Zone	11409	7072	2821	*	254	411	153	317	169	*	18	*	1	*	*	*
Seharte Samre	1248	863	*	*	*	*	*	*	*	-	-	-	-	-	-	-
Enderta	3370	1941	826	*	*	135	*	*	112	-	*	*	-	-	-	*
Hintalo Wajirat	3192	1897	765	-	*	*	*	*	9	*	8	-	1	-	-	-
Ambalage	562	*	130	-	3	*	*	*	*	2	1	-	-	*	-	-
Endamehoni	675	456	172	1	*	*	2	-	1	2	-	-	-	-	*	1
Rayazebo	781	610	*	-	*	*	-	*	1	*	1	-	-	-	*	-
Alamata	485	290	131	-	5	*	1	*	-	-	2	-	-	-	-	-
Wofla	1094	674	412	-	3	*	-	1	1	-	-	-	-	-	-	-
Mekele Zone	33	12	*	-	-	-	*	*	*	-	-	-	-	-	*	-
Mekele	33	12	*	-	-	-	*	*	*	-	-	-	-	-	*	-

TABLE 6.31.1: RURAL HOLDINGS

Geographic Area	Holders Applying Improved Seeds															
	All Holders	Illiterate	Literate but not Formal Education	Grades Completed by Holder												
				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
Tigray Region	40206	25872	7884	552	1215	1834	963	765	599	272	*	*		*	*	
West Tigray Zone	4911	3099	987	143	204	214	91	*	*	*	*					
Kafta	81	*	*	-	*	*	-	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	1396	843	269	*	*	*	*	-	-	-	-	-	-	-	-	-
Tahtay Koraro	697	473	116	*	-	*	*	-	*	-	-	-	-	-	-	-
Medebay Zana	837	541	*	-	-	*	*	-	*	-	*	-	-	-	-	-
Asegede Tsimbela	529	326	*	*	*	*	-	*	-	-	-	-	-	-	-	-
Tselemti	451	264	164	-	-	-	*	-	-	-	-	-	-	-	-	-
Welkait	298	269	-	-	-	-	-	-	-	*	-	-	-	-	-	-
Tsegede	*	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-
Central Tigray Zone	12421	7895	1987	255	446	691	475	230	215	*	*	*			*	
Mereb Lehe	738	491	114	*	-	*	*	-	-	*	-	-	-	-	-	-
Ahiferom	3011	1753	494	*	*	183	266	*	*	-	-	-	-	-	-	-
Werie Lehe	1426	778	145	*	*	*	*	*	-	*	-	*	-	-	-	-
Adwa	1668	1118	384	-	*	*	-	-	-	-	-	-	-	-	-	-
Laelay Maychew	872	492	152	*	*	*	*	*	*	*	*	-	-	-	-	-
Tahtay Maychew	635	413	*	*	*	-	-	*	*	-	-	-	-	-	*	-
Naeder Adet	487	314	*	-	*	*	*	-	-	-	-	-	-	-	-	-
Kola Temben	1087	658	211	*	*	*	*	-	*	-	-	-	-	-	-	-

TABLE 6.31.1 CONTD.

Geographic Area	Holders Applying Improved Seeds															
	All Holders	Illiterate	Literate but not Formal Education	Grades Completed by Holder												
				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
Degua Temben	2216	1651	359	-	*	*	-	-	-	-	*	-	-	-	-	-
Tanqu Abergele	281	226	-	-	-	*	*	-	-	*	-	-	-	-	-	-
East Tigray Zone	11967	8011	2194	109	334	548	250	239	167	*	*	-	-	-	*	-
Gulumahada	3517	2313	521	*	132	236	102	*	120	-	*	-	-	-	*	-
Erob	38	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	1608	1079	278	*	-	*	*	*	-	*	-	-	-	-	-	-
Ganta Afeshum	1820	1021	411	*	*	*	*	*	*	*	*	-	-	-	-	-
Hawzen	1373	925	325	-	*	*	*	*	-	-	-	-	-	-	-	-
Wukro	1899	1332	397	*	*	*	*	-	*	-	-	-	-	-	-	-
Atsbi Wenberta	1712	1303	261	-	*	*	-	*	-	-	-	-	-	-	-	-
South Tigray Zone	10906	6868	2717	*	231	381	*	266	139	*	-	*	-	*	-	-
Seharte Samre	1230	857	*	*	-	-	*	-	*	-	-	-	-	-	-	-
Enderta	3248	1906	819	*	*	129	*	*	*	-	-	*	-	-	-	-
Hintalo Wajirat	3008	1798	726	-	*	*	-	*	-	*	-	-	-	-	-	-
Ambalage	540	*	124	-	-	-	*	*	*	-	-	-	-	-	*	-
Endamehoni	642	446	158	-	*	*	-	-	-	-	-	-	-	-	-	-
Rayaazebo	755	606	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Alamata	423	266	109	-	-	*	-	*	-	-	-	-	-	-	-	-
Wofla	1061	656	405	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.31.2: RURAL MEHER

Geographic Area	Holders Applying Improved Seeds																
	All Holders	Illiterate	Literate but not Formal Education	Grades Completed by Holder													
				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	
Tigray Region	35659	23208	6989	506	1075	1625	676	644	432	254	*	*	-	-	*	*	-
West Tigray Zone	4188	2674	822	123	163	169	91	*	*	*	*	-	-	-	-	-	-
Kafta	81	*	*	-	*	*	-	-	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	1061	663	174	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Tahtay Koraro	525	371	*	*	-	*	*	-	*	-	*	-	-	-	-	-	-
Medebay Zana	638	399	*	-	-	*	*	-	*	-	*	-	-	-	-	-	-
Asegede Tsimbela	529	326	*	*	*	*	-	*	-	-	-	-	-	-	-	-	-
Tselemti	451	264	164	-	-	-	*	-	-	-	-	-	-	-	-	-	-
Welkait	298	269	-	-	-	-	-	-	-	*	-	-	-	-	-	-	-
Tsegede	*	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-
Central Tigray Zone	10485	6765	1683	255	346	627	281	182	*	*	*	*	-	-	-	*	-
Mereb Lehe	571	366	92	*	-	*	*	-	-	*	-	-	-	-	-	-	-
Ahiferom	2452	1395	455	*	*	183	*	*	*	-	-	-	-	-	-	-	-
Werie Lehe	1313	742	145	*	*	*	*	*	-	*	-	*	-	-	-	-	-
Adwa	1291	916	237	-	*	*	-	-	-	-	-	-	-	-	-	-	-
Laelay Maychew	383	271	*	*	-	*	-	*	-	-	-	-	-	-	-	-	-
Tahtay Maychew	560	367	*	*	*	-	-	*	*	-	-	-	-	-	-	*	-
Naeder Adet	437	264	*	-	*	*	-	-	-	-	-	-	-	-	-	-	-
Kola Temben	1087	658	211	*	*	*	*	-	*	-	-	-	-	-	-	-	-

TABLE 6.31.2 CONTD.

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
Degua Temben	2172	1607	359	-	*	*	-	-	-	-	*	-	-	-	-	-
Tanqu Abergele	219	179	-	-	-	*	-	-	-	*	-	-	-	-	-	-
East Tigray Zone	11588	7716	2167	109	334	548	221	210	167	*	*	-	-	-	*	-
Gulumahada	3517	2313	521	*	132	236	102	*	120	-	*	-	-	-	*	-
Erob	38	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	1431	960	278	*	-	*	-	*	-	*	-	-	-	-	-	-
Ganta Afeshum	1776	977	411	*	*	*	*	*	*	*	-	-	-	-	-	-
Hawzen	1373	925	325	-	*	*	*	*	-	-	-	-	-	-	-	-
Wukro	1899	1332	397	*	*	*	*	-	*	-	-	-	-	-	-	-
Atsbi Wenberta	1553	1171	235	-	*	*	-	*	-	-	-	-	-	-	-	-
South Tigray Zone	9398	6053	2317	*	231	281	*	222	*	*	-	*	-	*	-	-
Seharte Samre	876	646	200	-	-	-	*	-	-	-	-	-	-	-	-	-
Enderta	2933	1758	719	*	*	*	*	*	*	-	-	*	-	-	-	-
Hintalo Wajirat	2487	1547	*	-	*	*	-	*	-	*	-	-	-	-	-	-
Ambalage	540	*	124	-	-	-	*	*	*	-	-	-	-	-	*	-
Endamehoni	411	297	*	-	*	-	-	-	-	-	-	-	-	-	-	-
Rayaazebo	701	552	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Alamata	423	266	109	-	-	*	-	*	-	-	-	-	-	-	-	-
Wofla	1027	656	371	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.31.3: RURAL BELG

Geographic Area	Holders Applying Improved Seeds															
	All Holders	Illiterate	Literate but not Formal Education	Grades Completed by Holder												
				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
Tigray Region	6318	3823	1153	*	158	361	356	141	196	*	-	-	-	-	-	-
West Tigray Zone	1129	766	165	*	*	*	*	-	*	-	-	-	-	-	-	-
Kafta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	423	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-
Tahtay Koraro	*	*	*	-	-	*	*	-	-	-	-	-	-	-	-	-
Medebay Zana	*	*	-	-	-	*	-	-	*	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tsegede	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Central Tigray Zone	2206	1230	398	-	*	*	233	*	*	*	-	-	-	-	-	-
Mereb Lehe	167	125	*	-	-	-	*	-	-	-	-	-	-	-	-	-
Ahiferom	*	*	*	-	*	-	*	-	*	-	-	-	-	-	-	-
Werie Lehe	*	*	-	-	*	-	*	-	-	*	-	-	-	-	-	-
Adwa	*	*	*	-	-	*	-	-	-	-	-	-	-	-	-	-
Laelay Maychew	525	257	96	-	*	*	*	*	*	*	-	-	-	-	-	-
Tahtay Maychew	*	*	-	-	-	-	-	*	-	-	-	-	-	-	-	-
Naeder Adet	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.31.3 CONTD

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
Degua Temben	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Tanqu Abergele	*	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-
East Tigray Zone	514	351	*	-	-	*	*	*	-	*	-	-	-	-	-	-
Gulumahada	*	-	-	-	-	-	-	*	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	-	-	-	*	*	*	-	*	-	-	-	-	-	-
Ganta Afeshum	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atsbi Wenberta	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
South Tigray Zone	2469	1476	565	*	*	206	*	*	*	-	-	-	-	-	-	-
Seharte Samre	*	*	*	*	-	-	*	-	*	-	-	-	-	-	-	-
Enderta	844	564	162	-	-	*	*	-	*	-	-	-	-	-	-	-
Hintalo Wajirat	741	427	178	-	-	*	-	*	-	-	-	-	-	-	-	-
Ambalage	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Endamehoni	248	149	*	-	*	*	-	-	-	-	-	-	-	-	-	-
Rayazebo	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alamata	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-	-
Wofla	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.31.4: URBAN HOLDINGS

Geographic Area	Holders Applying Improved Seeds															
	All Holders	Illiterate	Literate but not Formal Education	Grades Completed by Holder												
				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
Tigray Region	1388	595	219	18	55	92	63	107	79	39	46	22	15	4	14	20
West Tigray Zone	216	116	23	1	7	27	*	*	*	-	*	*	-	*	-	-
Kafta	9	8	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Tahtay Adiyabo	19	11	*	-	*	*	*	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	27	12	10	-	3	-	-	*	-	-	-	-	-	-	-	-
Tahtay Koraro	51	13	*	1	2	*	*	*	*	-	1	-	-	-	-	-
Medebay Zana	56	24	*	-	-	*	-	*	*	-	*	-	-	*	-	-
Asegede Tsimbela	20	18	1	-	-	1	-	-	-	-	-	-	-	-	-	-
Tselemti	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Welkait	19	*	-	-	-	-	-	-	-	-	-	*	-	-	-	-
Tsegede	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
Central Tigray Zone	442	166	53	*	20	29	30	35	22	26	18	14	*	*	5	13
Mereb Lehe	15	*	*	-	-	*	-	-	1	-	-	-	-	-	-	-
Ahiferom	76	28	4	-	*	*	-	*	*	18	*	-	-	-	-	-
Werie Lehe	95	50	-	-	*	*	*	8	*	*	*	-	-	-	-	-
Adwa	78	21	9	-	1	4	*	10	*	-	*	2	3	*	3	13
Laelay Maychew	39	9	15	-	3	-	2	-	3	2	*	1	-	-	-	-
Tahtay Maychew	63	31	*	*	-	7	*	6	*	-	-	7	-	-	*	-
Naeder Adet	*	-	-	-	-	-	*	-	-	-	-	-	-	-	-	-
Kola Temben	24	7	1	-	1	*	1	*	-	-	-	1	*	-	-	-

TABLE 6.31.4 CONTD.

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
Degua Temben	19	5	5	-	-	1	2	1	*	-	-	2	-	-	-	-
Tanqu Abergele	29	*	*	-	-	-	-	-	-	-	*	-	-	-	-	-
East Tigray Zone	195	96	36	*	*	8	18	7	3	*	3	1	*	-	2	1
Gulumahada	67	36	*	*	*	*	9	-	-	-	-	-	*	-	-	-
Erob	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	13	5	3	-	-	-	*	2	-	-	-	-	-	-	-	1
Ganta Afeshum	22	9	5	-	-	-	4	1	-	-	*	-	-	-	1	-
Hawzen	26	*	*	-	-	-	-	1	-	-	-	-	-	-	-	-
Wukro	41	24	8	-	*	*	1	1	1	-	1	1	-	-	1	-
Atsbi Wenberta	25	11	3	-	-	3	*	*	*	*	-	-	-	-	-	-
South Tigray Zone	502	204	104	*	23	29	6	51	30	11	18	*	1	-	*	*
Seharte Samre	18	*	*	-	*	*	-	*	-	-	-	-	-	-	-	-
Enderta	123	35	*	*	*	*	-	28	*	-	*	*	-	-	-	*
Hintalo Wajirat	184	99	39	-	1	14	*	*	9	*	8	-	1	-	-	-
Ambalage	22	*	*	-	3	*	-	-	-	2	1	-	-	-	-	-
Endamehoni	33	10	14	1	-	-	2	-	1	2	-	-	-	-	*	1
Rayaazebo	26	5	5	-	*	*	-	*	1	*	1	-	-	-	-	*
Alamata	63	24	22	-	5	-	1	*	-	-	2	-	-	-	-	-
Wofla	33	18	7	-	3	*	-	1	1	-	-	-	-	-	-	-
Mekele Zone	33	12	*	-	-	-	*	*	*	-	-	-	-	-	-	*
Mekele	33	12	*	-	-	-	*	*	*	-	-	-	-	-	-	*

TABLE 6.32: USES OF IRRIGATION BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE 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
Tigray Region	106602	71623	20936	1372	3188	3219	2225	1555	1237	614	298	112	119	*	38	34
West Tigray Zone	7842	4885	1607	144	357	371	308	*	140	-	-	-	-	*	*	*
Kafta	185	124	*	-	*	1	-	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	*	-	-	-	*	*	-	-	-	-	-	-	-	-	-
Lalay Adiyabo	1126	692	206	*	*	*	*	-	-	-	-	-	-	-	-	-
Tahtay Koraro	1486	1043	273	-	*	*	*	*	*	-	-	-	-	-	*	*
Medebay Zana	2824	1507	599	*	165	175	163	-	*	-	-	-	-	*	-	-
Asegede Tsimbela	292	*	1	-	*	*	-	-	-	-	-	-	-	-	-	-
Tselemti	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Welkait	*	*	*	-	-	-	*	-	-	-	-	-	-	-	-	-
Tsegede	1265	860	313	*	*	-	*	-	-	-	-	-	-	-	-	-
Central Tigray Zone	30004	19181	5416	414	1326	1207	1006	474	458	319	99	*	9	*	19	13
Mereb Lehe	1328	912	209	*	*	*	*	*	*	-	-	-	-	-	-	-
Ahiferom	6630	4342	897	*	274	386	*	*	*	*	*	-	*	1	-	-
Werie Lehe	3960	2216	895	*	183	*	*	*	*	*	-	*	-	-	-	-
Adwa	5214	3559	868	*	244	*	*	*	*	*	6	-	4	-	16	11
Lalay Maychew	1654	883	274	*	*	75	93	*	105	*	38	-	4	-	-	*
Tahtay Maychew	2258	1422	369	*	*	*	95	*	*	*	*	-	-	-	*	-
Naeder Adet	2031	1499	245	-	*	117	-	*	*	-	*	-	-	*	-	-
Kola Temben	3706	2363	861	-	*	*	*	3	*	*	-	1	-	-	*	-

TABLE 6.32 CONTD.

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
Degua Temben	*	*	508	-	*	*	-	-	-	-	-	-	-	-	-	-
Tanqu Abergele	1363	856	290	*	*	*	*	*	*	*	-	*	-	-	-	-
East Tigray Zone	12879	8366	2802	135	343	471	235	266	*	*	*	1	*	-	2	-
Gulumahada	675	429	144	-	*	*	-	*	-	-	-	-	-	-	-	-
Erob	54	38	11	-	-	-	*	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	5050	3406	832	114	*	175	148	172	*	*	-	-	*	-	-	-
Ganta Afeshum	1859	1007	640	*	*	*	1	*	-	*	*	-	-	-	1	-
Hawzen	508	266	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Wukro	2601	1669	619	-	109	*	*	*	*	-	-	1	-	-	1	-
Atsbi Wenberta	2132	1552	315	-	*	*	*	-	-	*	*	-	-	-	-	-
South Tigray Zone	55814	39155	11096	678	1160	1171	672	809	563	187	151	*	*	-	11	5
Seharte Samre	4948	3230	1247	*	*	*	*	*	*	-	-	-	-	-	-	-
Enderta	4897	3359	1043	*	*	129	*	*	*	*	*	-	-	-	-	*
Hintalo Wajirat	11775	8304	2316	*	220	392	*	*	*	*	*	*	*	-	-	-
Ambalage	9836	6217	2186	*	228	*	340	179	243	1	*	*	*	-	-	-
Endamehoni	6189	4613	1008	109	147	*	*	*	*	1	-	-	*	-	-	-
Rayaazebo	4107	3348	469	*	*	*	*	*	*	1	-	1	-	-	1	1
Alamata	3323	2100	750	*	*	88	19	*	*	12	*	*	-	-	*	*
Wofla	10738	7984	2076	*	*	254	8	*	*	*	-	-	-	-	1	-
Mekele Zone	63	35	*	-	*	-	*	*	*	-	-	-	-	-	-	-
Mekele	63	35	*	-	*	-	*	*	*	-	-	-	-	-	-	-

TABLE 6.32.1: RURAL HOLDINGS

Geographic Area	Holders Practicing Irrigation															
	Grades Completed by Holder															
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Tigray Region	105055	70917	20686	1358	3107	3152	2119	1464	1171	573	261	*	*	*	-	*
West Tigray Zone	7733	4847	1599	144	345	357	298	-	*	-	-	-	-	-	-	*
Kafta	175	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	1120	689	204	*	*	*	*	-	-	-	-	-	-	-	-	-
Tahtay Koraro	1430	1033	271	-	*	*	*	-	-	-	-	-	-	-	-	*
Medebay Zana	2802	1496	598	*	165	168	163	-	*	-	-	-	-	-	-	-
Asegede Tsimbela	288	*	-	-	*	*	-	-	-	-	-	-	-	-	-	-
Tselemti	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Welkait	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Tsegede	1265	860	313	*	*	-	*	-	-	-	-	-	-	-	-	-
Central Tigray Zone	29462	18954	5350	412	1288	1189	957	442	434	296	83	*	-	*	-	-
Mereb Lehe	1302	895	209	*	*	*	*	*	-	-	-	-	-	-	-	-
Ahiferom	6462	4282	884	*	*	386	*	*	*	*	-	-	-	-	-	-
Werie Lehe	3925	2185	895	*	183	*	*	*	*	*	-	*	-	-	-	-
Adwa	5086	3513	849	*	242	*	*	*	-	*	-	-	-	-	-	-
Laelay Maychew	1613	876	263	*	*	75	93	*	99	*	*	-	-	-	-	-
Tahtay Maychew	2251	1422	367	*	*	*	95	*	*	*	*	-	-	-	-	-
Naeder Adet	2026	1499	245	-	*	117	-	*	*	-	*	-	-	*	-	-
Kola Temben	3673	2352	854	-	*	*	*	-	*	*	-	-	-	-	-	-

TABLE 6.32.1 CONTD.

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
Degua Temben	*	*	508	-	*	*	-	-	-	-	-	-	-	-	-	-
Tanqu Abergele	1265	800	277	*	*	*	*	*	-	-	-	-	-	-	-	-
East Tigray Zone	12828	8337	2791	133	341	469	234	265	*	*	*	-	*	-	-	-
Gulumahada	674	428	144	-	*	*	-	*	-	-	-	-	-	-	-	-
Erob	54	38	11	-	-	-	*	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	5045	3404	830	111	*	175	148	172	*	*	-	-	*	-	-	-
Ganta Afeshum	1850	1003	639	*	*	*	-	*	-	*	*	-	-	-	-	-
Hawzen	495	255	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Wukro	2594	1664	618	-	109	*	*	*	*	-	-	-	-	-	-	-
Atsbi Wenberta	2116	1543	309	-	*	*	*	-	-	*	*	-	-	-	-	-
South Tigray Zone	55032	38780	10946	669	1133	1137	631	756	537	*	130	*	*	-	-	-
Seharte Samre	4933	3230	1238	*	*	*	*	*	*	-	-	-	-	-	-	-
Enderta	4799	3326	1035	*	*	123	*	*	*	*	*	-	-	-	-	-
Hintalo Wajirat	11728	8288	2294	*	220	386	*	*	-	*	*	*	*	-	-	-
Ambalage	9788	6198	2182	*	228	*	333	172	237	-	*	*	*	-	-	-
Endamehoni	6167	4605	999	109	146	*	*	*	*	-	-	-	*	-	-	-
Rayazebo	4088	3342	467	*	*	*	-	*	*	-	-	-	-	-	-	-
Alamata	2836	1834	663	*	*	*	-	*	*	-	*	-	-	-	-	-
Wofla	10692	7956	2068	*	*	254	-	*	*	*	*	-	-	-	-	-

TABLE 6.32.2: 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
Tigray Region	63431	42474	12689	761	2050	2056	1454	730	618	311	144	*	*	*	-	*
West Tigray Zone	4766	2917	949	96	256	281	174	-	*	-	-	-	-	-	-	*
Kafta	175	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	491	301	107	*	*	*	-	-	-	-	-	-	-	-	-	-
Tahtay Koraro	1097	795	201	-	*	*	*	-	-	-	-	-	-	-	-	*
Medebay Zana	1472	757	225	*	136	113	106	-	*	-	-	-	-	-	-	-
Asegede Tsimbela	*	*	-	-	*	*	-	-	-	-	-	-	-	-	-	-
Tselemti	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Welkait	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Tsegede	662	368	203	*	*	-	*	-	-	-	-	-	-	-	-	-
Central Tigray Zone	18033	11363	3464	292	848	667	716	196	234	188	*	-	-	*	-	-
Mereb Lehe	368	197	*	*	*	-	*	*	-	-	-	-	-	-	-	-
Ahiferom	3894	2480	466	*	*	*	*	*	*	-	-	-	-	-	-	-
Werie Lehe	2672	1339	712	*	183	*	*	*	*	*	-	-	-	-	-	-
Adwa	1649	1270	228	-	*	-	*	-	-	*	-	-	-	-	-	-
Laelay Maychew	422	242	*	*	-	*	*	-	*	*	*	-	-	-	-	-
Tahtay Maychew	1061	698	137	*	*	-	*	*	-	-	*	-	-	-	-	-
Naeder Adet	1531	1135	193	-	*	117	-	*	-	-	-	-	-	*	-	-
Kola Temben	3476	2193	854	-	*	*	*	-	*	*	-	-	-	-	-	-

TABLE 6.32.2 CONTD.

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
Degua Temben	*	*	508	-	*	*	-	-	-	-	-	-	-	-	-	-
Tanqu Abergele	1234	769	277	*	*	*	*	*	-	-	-	-	-	-	-	-
East Tigray Zone	6213	3677	1729	*	*	213	175	*	*	*	*	-	-	-	-	-
Gulumahada	627	413	*	-	*	*	-	*	-	-	-	-	-	-	-	-
Erob	54	38	11	-	-	-	*	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	1565	847	358	*	-	*	*	*	-	*	-	-	-	-	-	-
Ganta Afeshum	1574	794	595	*	*	*	-	*	-	*	*	-	-	-	-	-
Hawzen	455	255	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Wukro	1678	1145	378	-	*	*	*	-	*	-	-	-	-	-	-	-
Atsbi Wenberta	259	185	*	-	-	-	-	-	-	-	-	-	-	-	-	-
South Tigray Zone	34418	24517	6547	301	844	896	389	405	265	*	*	*	*	-	-	-
Seharte Samre	3639	2340	1040	*	*	*	*	-	-	-	-	-	-	-	-	-
Enderta	3134	2092	693	-	*	123	*	*	*	*	-	-	-	-	-	-
Hintalo Wajirat	6461	4814	842	*	157	270	*	*	-	*	*	*	*	-	-	-
Ambalage	5614	3568	1234	*	184	*	194	*	132	-	*	-	-	-	-	-
Endamehoni	1620	1186	302	*	*	*	*	-	-	-	-	-	*	-	-	-
Rayaazebo	4003	3257	467	*	*	*	-	*	*	-	-	-	-	-	-	-
Alamata	2439	1633	492	*	*	*	-	*	*	-	*	-	-	-	-	-
Wofla	7508	5627	1477	*	*	190	-	*	*	-	-	-	-	-	-	-

TABLE 6.32.3: RURAL BELG

Geographic Area	Holders Practicing Irrigation															
	Grades Completed by Holder															
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Tigray Region	64609	43970	12371	860	1689	1693	1419	936	816	462	188	*	*	-	-	-
West Tigray Zone	4100	2606	829	*	133	157	207	-	*	-	-	-	-	-	-	-
Kafta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	708	428	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Tahtay Koraro	559	411	*	-	-	*	*	-	-	-	-	-	-	-	-	-
Medebay Zana	1795	962	456	*	*	*	110	-	*	-	-	-	-	-	-	-
Asegede	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tsimbela	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tsegede	966	732	187	*	*	-	*	-	-	-	-	-	-	-	-	-
Central Tigray Zone	16664	10946	2591	254	773	598	673	246	271	223	*	*	-	-	-	-
Mereb Lehe	972	698	188	*	*	*	*	-	-	-	-	-	-	-	-	-
Ahiferom	3879	2674	576	*	*	*	*	*	*	*	-	-	-	-	-	-
Werie Lehe	2289	1499	292	*	*	-	*	*	*	*	-	*	-	-	-	-
Adwa	4287	2860	703	*	242	*	*	*	-	*	-	-	-	-	-	-
Laelay Maychew	1284	692	213	*	*	*	*	*	80	*	*	-	-	-	-	-
Tahtay Maychew	1370	904	230	*	*	*	*	*	*	*	-	-	-	-	-	-
Naeder Adet	597	442	*	-	*	-	-	-	*	-	*	-	-	-	-	-
Kola Temben	*	*	*	-	*	*	*	-	*	*	-	-	-	-	-	-

TABLE 6.32.3 CONTD

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
Degua Temben	*	*	*	-	*	*	-	-	-	-	-	-	-	-	-	-
Tanqu Abergele	*	*	-	*	-	-	*	-	-	-	-	-	-	-	-	-
East Tigray Zone	9048	6015	1801	*	261	312	132	209	*	*	*	-	*	-	-	-
Gulumahada	*	*	*	-	-	-	-	*	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	4341	2987	737	*	*	122	*	143	*	*	-	-	*	-	-	-
Ganta Afeshum	*	*	*	-	*	*	-	-	-	*	*	-	-	-	-	-
Hawzen	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Wukro	1772	1099	434	-	90	*	*	*	*	-	-	-	-	-	-	-
Atsbi Wenberta	1959	1411	285	-	*	*	*	-	-	*	*	-	-	-	-	-
South Tigray Zone	34796	24403	7150	479	523	626	407	480	372	*	*	*	*	-	-	-
Seharte Samre	*	*	411	*	*	*	*	*	*	-	-	-	-	-	-	-
Enderta	2719	2030	465	*	-	123	*	-	*	-	*	-	-	-	-	-
Hintalo Wajirat	9583	6877	1921	*	*	290	-	*	-	*	-	*	*	-	-	-
Ambalage	7828	4983	1769	*	170	-	271	147	205	-	*	*	*	-	-	-
Endamehoni	5532	4150	856	109	146	*	*	*	*	-	-	-	*	-	-	-
Rayaazebo	201	201	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alamata	704	359	*	-	-	*	-	*	-	-	-	-	-	-	-	-
Wofla	6513	4737	1478	*	*	*	-	*	*	*	-	-	-	-	-	-

TABLE 6.32.4: 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
Tigray Region	1548	706	250	14	82	68	106	92	66	41	37	18	9	3	38	18
West Tigray Zone	109	38	9	-	*	*	*	*	*	-	-	-	-	*	*	-
Kafta	10	9	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	-	-	-	-	*	*	-	-	-	-	-	-	-	-	-
Lalay Adiyabo	6	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Tahtay Koraro	56	*	2	-	*	*	*	*	*	-	-	-	-	-	*	-
Medebay Zana	23	*	1	-	-	*	-	-	*	-	-	-	-	*	-	-
Asegede Tsimbela	4	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Tselemti	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Welkait	*	-	*	-	-	-	*	-	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Central Tigray Zone	542	227	65	*	38	18	49	32	24	22	16	*	9	1	19	13
Mereb Lehe	26	17	-	-	-	*	-	-	*	-	-	-	-	-	-	-
Ahiferom	167	60	13	-	34	-	32	*	-	*	*	-	*	1	-	-
Werie Lehe	34	31	-	-	-	*	-	-	-	-	-	-	-	-	-	-
Adwa	129	46	18	-	*	6	*	*	*	3	6	-	4	-	16	11
Lalay Maychew	41	7	12	-	-	-	-	8	6	-	3	-	4	-	-	*
Tahtay Maychew	7	-	*	*	-	-	-	-	-	-	-	-	-	-	*	-
Naeder Adet	*	-	-	-	-	-	-	-	*	-	-	-	-	-	-	-
Kola Temben	33	11	*	-	1	*	-	3	*	3	-	1	-	-	*	-

TABLE 6.32.4 CONTD.

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
Degua Temben	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tanqu Abergele	99	56	13	-	-	-	*	*	*	*	-	*	-	-	-	-
East Tigray Zone	52	30	11	2	*	*	1	1	-	-	-	1	-	-	2	-
Gulumahada	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	5	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-
Ganta Afeshum	9	3	1	-	-	*	1	1	-	-	-	-	-	-	1	-
Hawzen	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Wukro	8	4	1	-	-	-	-	-	-	-	-	1	-	-	1	-
Atsbi Wenberta	16	8	6	-	*	-	-	-	-	-	-	-	-	-	-	-
South Tigray Zone	782	376	150	*	27	34	41	52	27	19	22	*	-	-	11	5
Seharte Samre	15	-	9	-	-	-	*	-	-	-	-	-	-	-	-	-
Enderta	98	33	8	*	*	*	-	*	*	*	*	-	-	-	-	*
Hintalo Wajirat	47	16	23	-	-	*	-	1	*	-	-	-	-	-	-	-
Ambalage	48	19	4	-	-	1	*	*	*	1	3	-	-	-	-	-
Endamehoni	22	7	10	-	1	-	-	1	2	1	-	-	-	-	-	-
Rayaazebo	19	6	2	-	-	3	*	*	1	1	-	1	-	-	1	1
Alamata	486	266	87	*	20	18	19	22	6	12	12	*	-	-	*	*
Wofla	46	28	7	-	-	-	8	1	-	-	-	-	-	-	1	-
Mekele Zone	63	35	*	-	*	-	*	*	*	-	-	-	-	-	-	-
Mekele	63	35	*	-	*	-	*	*	*	-	-	-	-	-	-	-

TABLE 6.33: 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
Tigray Region	517709	357699	91194	9144	16755	16511	10350	6031	4652	2395	1249	639	444	184	312	150
West Tigray Zone	125595	88865	21962	2871	4439	3210	2133	845	678	184	175	*	*	*	*	*
Kafta	2708	1810	549	-	82	153	*	*	*	*	-	-	-	-	-	-
Tahtay Adiyabo	13111	9260	2219	374	522	332	201	149	*	4	-	*	-	*	-	-
Laelay Adiyabo	16183	10837	2875	670	815	430	268	*	164	*	*	-	-	*	-	-
Tahtay Koraro	12506	8712	2105	367	317	426	303	80	109	*	19	*	-	*	*	*
Medebay Zana	21086	14650	3124	489	997	742	372	266	292	*	*	*	*	*	*	*
Asegede Tsimbela	18834	13560	2949	423	855	587	315	*	*	*	-	-	-	-	-	-
Tselemti	20437	14449	4269	360	551	365	*	*	*	-	*	-	-	-	*	-
Welkait	11073	8229	2079	156	176	*	282	*	*	*	*	-	-	-	*	-
Tsegede	9656	7359	1793	*	124	*	*	*	-	*	2	-	-	-	-	-
Central Tigray Zone	188871	126556	30054	4200	7834	7322	4983	3033	2436	1207	515	345	153	*	149	17
Mereb Lehe	15202	10468	1835	575	855	723	264	221	*	116	*	*	*	*	*	-
Ahiferom	30758	19348	4734	931	1391	1398	1296	743	637	177	*	*	*	1	-	-
Werie Lehe	22420	13877	3534	847	1004	735	1066	513	475	204	*	*	*	-	-	-
Adwa	22329	15013	3745	321	849	1121	389	360	247	157	*	5	*	*	*	13
Laelay Maychew	14043	9126	2179	272	582	399	595	252	279	124	137	62	6	5	*	*
Tahtay Maychew	16498	11626	2017	312	634	622	550	274	141	162	*	*	*	-	*	-
Naeder Adet	19113	13470	2608	211	896	947	291	237	335	*	*	-	-	*	*	-
Kola Temben	19690	13386	3710	339	765	600	211	278	144	*	*	1	*	1	-	-

TABLE 6.33 CONTD.

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
Degua Temben	15949	11232	3363	153	405	379	*	*	*	*	*	*	-	-	-	*
Tanqu Abergele	12868	9010	2328	238	454	399	202	*	*	65	*	*	-	-	-	-
East Tigray Zone	101251	68840	20383	1009	2657	3027	1841	1360	916	531	287	111	156	*	*	*
Gulumahada	13717	9171	2480	117	518	519	376	158	244	*	*	*	*	-	-	*
Erob	2296	1745	372	28	58	16	42	17	-	*	*	-	-	-	-	*
Saesi Tsaedamba	20600	14131	4091	417	585	509	386	253	*	118	*	-	*	-	-	2
Ganta Afeshum	18038	11593	3660	188	493	578	336	377	353	128	*	*	101	*	*	-
Hawzen	18250	12867	3916	*	419	416	214	176	*	*	*	*	*	-	-	-
Wukro	11229	7444	2465	115	245	399	185	184	109	*	*	-	-	-	*	-
Atsbi Wenberta	17121	11890	3398	*	338	590	302	196	130	*	*	*	*	*	*	-
South Tigray Zone	101922	73410	18789	1063	1821	2948	1387	791	606	472	268	129	128	*	16	*
Seharte Samre	18050	13155	2940	311	464	681	230	*	115	*	*	-	-	-	*	-
Enderta	12343	8723	2315	*	243	361	211	159	*	*	*	*	*	*	-	*
Hintalo Wajirat	18321	13018	3310	206	390	672	*	208	6	*	*	*	*	-	-	*
Ambalage	10640	7001	2140	290	241	280	391	110	129	*	3	-	-	-	-	-
Endamehoni	8888	6504	1526	92	214	242	122	*	*	5	*	-	*	-	*	1
Rayazebo	9579	7764	1287	-	*	209	*	3	*	*	*	1	-	-	*	1
Alamata	4698	3217	1104	*	*	82	1	*	*	*	*	*	-	-	*	-
Wofla	19403	14030	4168	*	*	422	*	168	*	*	*	-	-	-	-	*
Mekele Zone	70	28	*	-	*	*	*	*	*	-	*	-	-	-	*	-
Mekele	70	28	*	-	*	*	*	*	*	-	*	-	-	-	*	-

TABLE 6.33.1: 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
Tigray Region	511758	354892	90261	9055	16485	16056	9990	5727	4426	2243	1132	565	403	157	247	*
West Tigray Zone	124491	88276	21822	2861	4397	3121	2074	792	629	171	*	*	-	*	*	*
Kafta	2691	1800	546	-	82	153	*	*	*	*	-	-	-	-	-	-
Tahtay Adiyabo	13013	9210	2212	371	513	315	198	146	*	-	-	-	-	*	-	-
Lalay Adiyabo	16057	10765	2849	670	807	424	261	*	162	*	-	-	-	*	-	-
Tahtay Koraro	12305	8623	2093	367	303	410	291	73	93	*	-	*	-	-	-	*
Medebay Zana	20703	14443	3078	484	995	714	352	242	263	*	*	*	-	-	*	-
Asegede Tsimbela	18701	13491	2923	422	852	579	306	*	*	*	-	-	-	-	-	-
Tselemti	20378	14403	4266	360	551	359	*	*	*	-	*	-	-	-	*	-
Welkait	10999	8181	2065	156	172	*	279	*	*	*	*	-	-	-	-	-
Tsegede	9644	7359	1791	*	121	*	*	*	-	*	-	-	-	-	-	-
Central Tigray Zone	185726	125115	29643	4130	7662	7049	4778	2868	2327	1097	465	295	*	*	122	-
Mereb Lehe	14933	10347	1805	564	842	691	240	214	*	112	-	*	-	*	*	-
Ahiferom	29997	18957	4634	911	1334	1352	1250	709	627	155	*	-	*	-	-	-
Werie Lehe	22075	13688	3517	847	987	700	1030	503	458	187	-	*	*	-	-	-
Adwa	22130	14942	3718	320	844	1107	381	350	241	150	*	-	*	-	*	-
Lalay Maychew	13520	8911	2052	267	561	375	566	228	258	109	125	*	-	-	*	-
Tahtay Maychew	16363	11573	2005	308	620	604	541	268	136	157	*	*	*	-	*	-
Naeder Adet	18836	13362	2593	195	870	921	271	196	320	*	*	-	-	*	*	-
Kola Temben	19450	13279	3680	339	761	563	200	257	138	*	*	-	-	-	-	-

TABLE 6.33.1 CONTD

Geographic Area	Holders Applying Fertilizers															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Degua Temben	15839	11176	3345	149	399	375	*	*	*	*	*	*	-	-	-	-
Tanqu Abergele	12584	8879	2294	229	445	362	189	*	*	*	*	-	-	-	-	-
East Tigray Zone	100750	68603	20261	1006	2646	2997	1820	1335	906	522	270	111	151	*	*	*
Gulumahada	13708	9170	2479	116	517	519	374	158	244	*	*	*	-	-	-	*
Erob	2295	1744	372	28	58	16	42	17	-	*	*	-	-	-	-	*
Saesi Tsaedamba	20524	14091	4073	415	584	503	384	251	*	118	*	-	*	-	-	-
Ganta Afeshum	17963	11562	3642	188	493	573	331	374	350	*	*	*	101	*	*	-
Hawzen	18080	12786	3863	*	413	409	206	168	*	*	*	*	-	-	-	-
Wukro	11135	7398	2447	115	245	391	184	178	108	*	-	-	-	-	*	-
Atsbi Wenberta	17046	11852	3386	*	334	587	299	189	127	*	*	*	*	-	-	-
South Tigray Zone	100790	72897	18536	1057	1780	2889	1317	732	564	453	245	*	128	-	-	*
Seharte Samre	17858	13074	2889	311	455	667	208	*	113	*	*	-	-	-	-	-
Enderta	12128	8637	2279	*	233	355	202	138	*	*	*	*	*	-	-	-
Hintalo Wajirat	18151	12936	3260	205	386	660	*	206	-	*	*	*	*	-	-	*
Ambalage	10463	6931	2102	290	236	266	367	98	121	*	-	-	-	-	-	-
Endamehoni	8836	6476	1515	91	213	242	121	*	*	-	*	-	*	-	-	-
Rayaazebo	9530	7743	1276	-	*	204	*	-	*	*	-	-	-	-	-	-
Alamata	4544	3138	1073	*	*	82	-	*	*	*	*	-	-	-	-	-
Wofla	19281	13962	4143	*	*	412	*	167	*	*	*	-	-	-	-	*

TABLE 6.33.2: RURAL MEHER

Geographic Area	Holders Applying Fertilizer															
	All Holders	Grades Completed by Holder														
		Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Tigray Region	506110	350887	89377	9028	16273	15900	9922	5639	4351	2152	1088	565	403	157	247	*
West Tigray Zone	124367	88181	21822	2861	4368	3121	2074	792	629	171	*	*	-	*	*	*
Kafta	2691	1800	546	-	82	153	*	*	*	*	-	-	-	-	-	-
Tahtay Adiyabo	13013	9210	2212	371	513	315	198	146	*	-	-	-	-	*	-	-
Laelay Adiyabo	16057	10765	2849	670	807	424	261	*	162	*	-	-	-	*	-	-
Tahtay Koraro	12305	8623	2093	367	303	410	291	73	93	*	-	*	-	-	-	*
Medebay Zana	20674	14443	3078	484	967	714	352	242	263	*	*	*	-	-	*	-
Asegede Tsimbela	18701	13491	2923	422	852	579	306	*	*	*	-	-	-	-	-	-
Tselemti	20378	14403	4266	360	551	359	*	*	*	-	*	-	-	-	*	-
Welkait	10999	8181	2065	156	172	*	279	*	*	*	*	-	-	-	-	-
Tsegede	9549	7264	1791	*	121	*	*	*	-	*	-	-	-	-	-	-
Central Tigray Zone	185132	124713	29562	4130	7618	7049	4740	2868	2327	1069	465	295	*	*	122	-
Mereb Lehe	14782	10241	1761	564	842	691	240	214	*	112	-	*	-	*	*	-
Ahiferom	29972	18931	4634	911	1334	1352	1250	709	627	155	*	-	*	-	-	-
Werie Lehe	21898	13577	3517	847	987	700	991	503	458	159	-	*	*	-	-	-
Adwa	22071	14884	3718	320	844	1107	381	350	241	150	*	-	*	-	*	-
Laelay Maychew	13503	8894	2052	267	561	375	566	228	258	109	125	*	-	-	*	-
Tahtay Maychew	16363	11573	2005	308	620	604	541	268	136	157	*	*	*	-	*	-
Naeder Adet	18798	13325	2593	195	870	921	271	196	320	*	*	-	-	*	*	-
Kola Temben	19382	13248	3643	339	761	563	200	257	138	*	*	-	-	-	-	-

TABLE 6.33.2 CONTD

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
Degua Temben	15794	11176	3345	149	354	375	*	*	*	*	*	*	-	-	-	-
Tanqu Abergele	12568	8864	2294	229	445	362	189	*	*	*	*	-	-	-	-	-
East Tigray Zone	99727	67903	20126	1006	2646	2915	1791	1312	906	491	248	111	151	*	*	*
Gulumahada	13708	9170	2479	116	517	519	374	158	244	*	*	*	-	-	-	*
Erob	2295	1744	372	28	58	16	42	17	-	*	*	-	-	-	-	*
Saesi Tsaedamba	19893	13615	4011	415	584	469	355	251	*	*	*	-	*	-	-	-
Ganta Afeshum	17919	11540	3642	188	493	573	331	374	350	*	*	*	101	*	*	-
Hawzen	18080	12786	3863	*	413	409	206	168	*	*	*	*	-	-	-	-
Wukro	10961	7318	2401	115	245	367	184	155	108	*	-	-	-	-	*	-
Atsbi Wenberta	16871	11730	3359	*	334	562	299	189	127	*	*	*	*	-	-	-
South Tigray Zone	96884	70090	17868	1031	1641	2816	1317	668	489	420	222	*	128	-	-	*
Seharte Samre	17794	13011	2889	311	455	667	208	*	113	*	*	-	-	-	-	-
Enderta	11667	8294	2216	*	233	355	202	138	*	*	-	*	*	-	-	-
Hintalo Wajirat	16655	11746	3070	205	347	627	*	162	-	*	*	*	*	-	-	*
Ambalage	10262	6780	2102	264	236	266	367	98	*	*	-	-	-	-	-	-
Endamehoni	7967	5987	1268	91	157	203	121	-	*	-	*	-	*	-	-	-
Rayaaazebo	9291	7504	1276	-	*	204	*	-	*	*	-	-	-	-	-	-
Alamata	4348	3001	1056	*	-	82	-	*	*	*	*	-	-	-	-	-
Wofla	18901	13768	3991	*	*	412	*	167	*	*	*	-	-	-	-	*

TABLE 6.33.3: RURAL BELG

Geographic Area	Holders Applying Fertilizers															
	Grades Completed by Holder															
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Tigray Region	36530	24290	6663	532	1231	1158	1074	506	487	301	114	*	*	-	-	*
West Tigray Zone	2273	1439	515	*	109	*	*	-	*	-	-	-	-	-	-	*
Kafta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lalay Adiyabo	304	222	*	-	*	*	-	-	-	-	-	-	-	-	-	-
Tahtay Koraro	521	334	103	-	*	*	*	-	-	-	-	-	-	-	-	*
Medebay Zana	708	315	234	*	*	-	*	-	*	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tsegede	740	568	*	*	*	-	-	-	-	-	-	-	-	-	-	-
Central Tigray Zone	10789	6779	1627	192	576	325	625	180	250	160	*	*	-	-	-	-
Mereb Lehe	621	454	127	*	-	-	*	-	-	-	-	-	-	-	-	-
Ahiferom	2800	1853	447	*	*	*	*	*	*	-	-	-	-	-	-	-
Werie Lehe	1268	742	*	*	*	-	*	*	*	*	-	*	-	-	-	-
Adwa	2391	1677	302	-	*	*	*	-	-	*	-	-	-	-	-	-
Lalay Maychew	963	502	175	*	*	*	*	*	*	*	*	-	-	-	-	-
Tahtay Maychew	615	356	115	*	-	*	*	*	*	-	-	-	-	-	-	-
Naeder Adet	321	190	*	-	*	-	-	-	*	-	*	-	-	-	-	-
Kola Temben	*	*	*	-	*	*	*	-	*	*	-	-	-	-	-	-

TABLE 6.33.3 CONTD.

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
Degua Temben	*	*	*	-	*	*	-	-	-	-	-	-	-	-	-	-
Tanqu Abergele	*	*	-	*	-	-	*	-	-	-	-	-	-	-	-	-
East Tigray Zone	9094	5913	1838	*	236	367	223	178	96	*	*	-	*	-	-	-
Gulumahada	*	*	*	-	-	-	-	*	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	4518	3073	828	*	*	122	119	111	*	*	-	-	*	-	-	-
Ganta Afeshum	*	510	*	-	*	*	-	-	*	*	*	-	-	-	-	-
Hawzen	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Wukro	1281	799	262	-	*	*	*	*	*	-	-	-	-	-	-	-
Atsbi Wenberta	2294	1499	423	-	*	176	*	-	-	*	*	-	-	-	-	-
South Tigray Zone	14374	10159	2683	232	310	411	*	148	120	*	*	*	*	-	-	-
Seharte Samre	*	*	307	*	*	*	*	*	*	-	-	-	-	-	-	-
Enderta	1501	1115	*	-	-	110	-	-	*	-	*	-	-	-	-	-
Hintalo Wajirat	5764	4323	895	*	*	*	-	*	-	-	-	*	*	-	-	-
Ambalage	979	565	237	*	-	-	*	*	*	-	-	-	-	-	-	-
Endamehoni	2376	1436	616	*	110	*	*	*	*	-	-	-	*	-	-	-
Rayaazebo	561	525	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Alamata	229	170	*	-	*	-	-	-	-	-	-	-	-	-	-	-
Wofla	1511	1090	*	-	-	*	-	-	-	*	-	-	-	-	-	-

TABLE 6.33.4: URBAN HOLDINGS

Geographic Area	Holders Applying Fertilizers															
	Grades Completed by Holder															
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Tigray Region	5951	2807	933	89	270	456	360	305	226	151	117	73	41	27	65	31
West Tigray Zone	1104	588	140	10	42	89	59	53	49	13	23	6	*	*	14	*
Kafta	17	10	*	-	-	-	*	-	1	-	-	-	-	-	-	-
Tahtay Adiyabo	98	49	7	3	*	18	3	*	-	4	-	*	-	-	-	-
Laelay Adiyabo	126	72	26	-	7	6	7	4	*	-	*	-	-	-	-	-
Tahtay Koraro	201	89	12	-	14	17	*	*	*	2	19	1	-	*	*	-
Medebay Zana	383	207	46	5	2	28	20	25	30	1	-	*	*	*	*	*
Asegede Tsimbela	133	69	26	1	*	8	9	10	*	6	-	-	-	-	-	-
Tselemti	59	45	4	-	-	*	3	*	-	-	-	-	-	-	-	-
Welkait	75	48	14	-	*	*	*	*	-	-	-	-	-	-	*	-
Tsegede	12	-	2	-	2	5	-	-	-	-	2	-	-	-	-	-
Central Tigray Zone	3144	1441	411	70	171	274	205	165	109	110	50	50	29	14	28	17
Mereb Lehe	269	121	30	12	13	33	24	*	10	*	*	*	*	-	3	-
Ahiferom	761	391	100	*	56	46	46	33	*	22	*	*	*	1	-	-
Werie Lehe	345	189	17	-	17	35	37	9	16	17	*	-	-	-	-	-
Adwa	199	71	27	1	5	14	8	10	7	7	7	5	5	*	14	13
Laelay Maychew	522	214	127	*	21	24	29	24	21	16	12	10	6	5	4	*
Tahtay Maychew	135	53	12	*	14	18	*	6	5	5	-	7	-	-	*	-
Naeder Adet	278	108	*	*	26	26	21	41	*	*	-	-	-	-	*	-
Kola Temben	240	107	30	-	4	37	*	22	*	*	*	1	*	1	-	-

TABLE 6.33.4 CONTD.

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
Degua Temben	110	56	18	3	6	3	*	4	6	-	1	4	-	-	-	*
Tanqu Abergele	284	131	34	*	*	37	13	*	*	25	-	*	-	-	-	-
East Tigray Zone	501	237	122	3	12	29	21	25	10	9	17	-	*	*	7	2
Gulumahada	9	1	1	1	1	-	2	-	-	-	-	-	*	-	-	-
Erob	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	76	40	19	2	1	7	*	2	*	-	-	-	-	-	-	2
Ganta Afeshum	75	31	18	-	-	5	5	3	3	*	6	-	-	-	1	-
Hawzen	170	80	53	-	*	*	*	*	2	1	3	-	*	-	-	-
Wukro	94	45	18	-	-	8	1	*	1	4	*	-	-	-	4	-
Atsbi Wenberta	76	38	13	-	4	3	*	7	3	*	-	-	-	*	*	-
South Tigray Zone	1131	513	254	6	42	60	70	59	42	20	23	17	-	*	16	8
Seharte Samre	192	80	51	-	9	13	22	*	*	*	*	-	-	-	*	-
Enderta	216	86	37	-	*	*	*	22	20	*	*	*	-	*	-	*
Hintalo Wajirat	170	81	50	1	*	13	*	2	6	1	*	-	-	-	-	-
Ambalage	177	70	38	-	5	14	24	12	*	3	3	-	-	-	-	-
Endamehoni	52	28	11	1	1	-	1	1	1	5	-	-	-	-	*	1
Rayaazebo	50	21	10	-	-	4	*	3	1	*	*	1	-	-	*	1
Alamata	153	79	31	-	7	-	1	13	-	-	4	*	-	-	*	-
Wofla	122	68	25	*	6	10	*	1	3	1	-	-	-	-	-	-
Metekele Zone	70	28	*	-	*	*	*	*	*	-	*	-	-	-	*	-
Mekele	70	28	*	-	*	*	*	*	*	-	*	-	-	-	*	-

TABLE 6.34: APPLICATION OF PESTICIDES BY EDUCATIONAL ATTAINMENT IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders With Application of Pesticides															
	Grades Completed by Holder															
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Tigray Region	37313	22751	7572	662	1488	1872	1359	500	624	306	88	15	*	-	*	*
West Tigray Zone	3593	2462	621	123	*	*	130	*	*	1	*	*	-	-	-	-
Kafta	34	19	6	-	1	*	*	3	-	1	-	-	-	-	-	-
Tahtay Adiyabo	455	343	*	3	-	-	*	-	-	-	-	*	-	-	-	-
Laelay Adiyabo	664	360	226	*	*	-	*	3	-	-	-	-	-	-	-	-
Tahtay Koraro	856	600	105	*	-	*	*	*	*	-	*	-	-	-	-	-
Medebay Zana	1296	*	163	*	*	*	*	3	*	-	-	-	-	-	-	-
Asegede Tsimbela	*	*	1	-	-	1	-	-	-	-	-	-	-	-	-	-
Tselemti	144	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-
Welkait	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tsegede	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Central Tigray Zone	20481	12113	3671	426	972	1140	954	288	519	266	*	13	*	-	*	*
Mereb Lehe	640	523	*	*	-	*	*	*	-	*	-	-	-	-	-	-
Ahiferom	5492	3032	948	*	310	313	332	*	211	*	1	*	*	-	-	-
Werie Lehe	2889	1679	604	-	*	212	*	*	*	*	-	-	-	-	-	-
Adwa	5021	3086	808	*	316	278	*	*	149	*	*	*	1	-	*	*
Laelay Maychew	2767	1630	515	*	100	81	229	*	92	*	*	-	-	-	2	*
Tahtay Maychew	1119	653	117	*	5	*	*	*	*	1	-	7	-	-	*	-
Naeder Adet	761	330	202	-	*	*	-	21	*	-	-	-	-	-	-	-
Kola Temben	849	581	*	-	-	*	*	-	-	1	-	-	-	-	-	-

TABLE 6.34 CONTD.

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
Degua Temben	706	402	214	*	*	-	*	-	-	-	*	-	-	-	-	-
Tanqu Abergele	*	*	*	-	-	-	*	-	*	-	-	-	-	-	-	-
East Tigray Zone	6555	3615	1830	87	270	306	151	169	*	*	*	-	-	-	1	-
Gulumahada	2265	1317	636	-	59	124	*	*	*	*	-	-	-	-	-	-
Erob	37	22	15	-	-	-	-	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	724	245	267	-	*	*	*	*	-	-	-	-	-	-	-	-
Ganta Afeshum	1223	563	*	*	*	*	*	*	*	*	-	-	-	-	-	-
Hawzen	1056	748	245	-	-	*	*	-	-	-	-	-	-	-	-	-
Wukro	876	567	202	*	*	*	1	*	-	-	-	-	-	-	1	-
Atsbi Wenberta	374	152	*	-	*	*	-	-	-	-	*	-	-	-	-	-
South Tigray Zone	6678	4558	1449	*	214	281	124	*	4	-	4	-	-	-	7	-
Seharte Samre	821	508	207	-	*	*	12	-	-	-	-	-	-	-	*	-
Enderta	734	495	130	-	*	*	*	-	-	-	-	-	-	-	-	-
Hintalo Wajirat	2547	1972	419	-	*	*	-	-	*	-	-	-	-	-	-	-
Ambalage	732	438	170	-	-	*	*	-	-	-	-	-	-	-	-	-
Endamehoni	435	315	*	1	*	*	1	-	1	-	-	-	-	-	*	-
Rayaazebo	308	*	*	*	-	*	1	*	-	-	-	-	-	-	*	-
Alamata	428	255	*	-	-	*	*	*	1	-	4	-	-	-	-	-
Wofla	673	364	260	-	-	*	-	-	-	-	-	-	-	-	-	-
Mekele Zone	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Mekele	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.34.1: RURAL HOLDINGS

Geographic Area	Holders With Application of Pesticides															
	Grades Completed by Holder															
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Tigray Region	36156	22276	7344	656	1434	1777	1268	433	581	272	*	-	-	-	*	-
West Tigray Zone	3492	2420	605	120	*	*	120	*	*	-	-	-	-	-	-	-
Kafta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	445	341	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Lalay Adiyabo	647	353	221	*	-	-	*	-	-	-	-	-	-	-	-	-
Tahtay Koraro	838	599	104	*	-	*	*	*	*	-	-	-	-	-	-	-
Medebay Zana	1277	*	160	*	*	*	*	-	*	-	-	-	-	-	-	-
Asegede Tsimbela	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tselemti	144	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-
Welkait	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tsegede	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Central Tigray Zone	19824	11866	3572	423	931	1073	908	246	481	233	*	-	-	-	*	-
Mereb Lehe	609	516	*	*	-	*	-	-	-	-	-	-	-	-	-	-
Ahiferom	5401	3011	923	*	291	306	331	-	211	*	-	-	-	-	-	-
Werie Lehe	2787	1635	601	-	*	204	*	*	-	*	-	-	-	-	-	-
Adwa	4967	3070	799	*	316	278	*	*	*	*	*	-	-	-	*	-
Lalay Maychew	2603	1554	468	*	92	*	225	*	85	*	*	-	-	-	-	-
Tahtay Maychew	1038	625	113	*	-	*	*	*	*	-	-	-	-	-	*	-
Naeder Adet	688	314	197	-	*	*	-	-	-	-	-	-	-	-	-	-
Kola Temben	838	576	*	-	-	*	*	-	-	-	-	-	-	-	-	-

TABLE 6.34.1 CONTD.

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
Degua Temben	681	391	214	*	*	-	-	-	-	-	-	-	-	-	-	-
Tanqu Abergele	*	*	*	-	-	-	*	-	-	-	-	-	-	-	-	-
East Tigray Zone	6443	3556	1794	87	270	302	138	169	*	*	*	-	-	-	-	-
Gulumahada	2265	1317	636	-	59	124	*	*	*	*	-	-	-	-	-	-
Erob	36	21	15	-	-	-	-	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	719	241	266	-	*	*	*	*	-	-	-	-	-	-	-	-
Ganta Afeshum	1217	559	*	*	*	*	*	*	*	*	-	-	-	-	-	-
Hawzen	1001	734	*	-	-	*	*	-	-	-	-	-	-	-	-	-
Wukro	836	534	199	*	*	-	-	*	-	-	-	-	-	-	-	-
Atsbi Wenberta	369	150	*	-	*	*	-	-	-	-	*	-	-	-	-	-
South Tigray Zone	6397	4435	1372	*	204	260	*	-	-	-	-	-	-	-	-	-
Seharte Samre	774	493	195	-	*	*	-	-	-	-	-	-	-	-	-	-
Enderta	721	483	130	-	*	*	*	-	-	-	-	-	-	-	-	-
Hintalo Wajirat	2508	1958	399	-	*	*	-	-	-	-	-	-	-	-	-	-
Ambalage	707	432	165	-	-	*	*	-	-	-	-	-	-	-	-	-
Endamehoni	402	308	*	-	*	*	-	-	-	-	-	-	-	-	-	-
Rayaazebo	292	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Alamata	*	192	*	-	-	*	-	-	-	-	-	-	-	-	-	-
Wofla	672	364	260	-	-	*	-	-	-	-	-	-	-	-	-	-

TABLE 6.34.2: RURAL MEHER

Geographic Area	Holders With Application of Pesticides															
	Grades Completed by Holder															
	All Holders	Illiterate	Literate But not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Tigray Region	33515	20395	6996	656	1365	1720	1029	433	560	272	*	-	-	-	*	-
West Tigray Zone	3086	2196	502	120	*	*	*	*	*	-	-	-	-	-	-	-
Kafta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	445	341	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	647	353	221	*	-	-	*	-	-	-	-	-	-	-	-	-
Tahtay Koraro	752	512	104	*	-	*	*	*	*	-	-	-	-	-	-	-
Medebay Zana	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-	-
Asegede Tsimbela	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tselemti	144	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-
Welkait	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tsegede	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Central Tigray Zone	18587	10911	3487	423	890	1055	770	246	481	233	*	-	-	-	*	-
Mereb Lehe	355	263	*	*	-	*	-	-	-	-	-	-	-	-	-	-
Ahiferom	5019	2791	883	*	251	306	250	-	211	*	-	-	-	-	-	-
Werie Lehe	2756	1604	601	-	*	204	*	*	-	*	-	-	-	-	-	-
Adwa	4680	2835	773	*	316	278	*	*	*	*	*	-	-	-	*	-
Laelay Maychew	2492	1479	450	*	92	*	225	*	85	*	*	-	-	-	-	-
Tahtay Maychew	1019	607	113	*	-	*	*	*	*	-	-	-	-	-	*	-
Naeder Adet	688	314	197	-	*	*	-	-	-	-	-	-	-	-	-	-
Kola Temben	*	*	*	-	-	*	-	-	-	-	-	-	-	-	-	-

TABLE 6.34.2 CONTD.

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
Degua Temben	681	391	214	*	*	-	-	-	-	-	-	-	-	-	-	-
Tanqu Abergele	*	*	*	-	-	-	*	-	-	-	-	-	-	-	-	-
East Tigray Zone	6176	3410	1758	87	243	302	107	169	*	*	-	-	-	-	-	-
Gulumahada	2265	1317	636	-	59	124	*	*	*	*	-	-	-	-	-	-
Erob	36	21	15	-	-	-	-	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	594	*	266	-	*	*	-	*	-	-	-	-	-	-	-	-
Ganta Afeshum	1191	532	*	*	*	*	*	*	*	*	-	-	-	-	-	-
Hawzen	1001	734	*	-	-	*	*	-	-	-	-	-	-	-	-	-
Wukro	747	481	*	*	*	-	-	*	-	-	-	-	-	-	-	-
Atsbi Wenberta	343	150	*	-	*	*	-	-	-	-	-	-	-	-	-	-
South Tigray Zone	5666	3879	1249	*	204	221	*	-	-	-	-	-	-	-	-	-
Seharte Samre	774	493	195	-	*	*	-	-	-	-	-	-	-	-	-	-
Enderta	412	264	*	-	*	*	-	-	-	-	-	-	-	-	-	-
Hintalo Wajirat	2249	1766	332	-	*	*	-	-	-	-	-	-	-	-	-	-
Ambalage	679	404	165	-	-	*	*	-	-	-	-	-	-	-	-	-
Endamehoni	354	259	*	-	*	*	-	-	-	-	-	-	-	-	-	-
Rayazebo	255	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Alamata	*	192	*	-	-	*	-	-	-	-	-	-	-	-	-	-
Wofla	640	332	260	-	-	*	-	-	-	-	-	-	-	-	-	-

TABLE 6.34.3: 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
Tigray Region	2794	1974	371	-	*	*	239	-	*	*	*	-	-	-	-	-
West Tigray Zone	440	259	*	-	-	-	*	-	*	-	-	-	-	-	-	-
Kafta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tahtay Koraro	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medebay Zana	319	138	*	-	-	-	*	-	*	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Central Tigray Zone	1273	955	*	-	*	*	*	-	-	*	-	-	-	-	-	-
Mereb Lehe	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ahiferom	*	*	*	-	*	-	*	-	-	-	-	-	-	-	-	-
Werie Lehe	*	*	-	-	-	-	-	-	-	*	-	-	-	-	-	-
Adwa	287	235	*	-	-	-	*	-	-	-	-	-	-	-	-	-
Laelay Maychew	*	*	*	-	-	*	-	-	-	-	-	-	-	-	-	-
Tahtay Maychew	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kola Temben	*	*	-	-	-	-	*	-	-	-	-	-	-	-	-	-

TABLE 6.34.3 CONTD.

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
Degua Temben	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
East Tigray Zone	307	*	*	-	*	-	*	-	-	-	*	-	-	-	-	-
Gulumahada	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	-	*	-	-	*	-	-	-	-	-	-	-	-	-
Ganta Afeshum	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wukro	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Atsbi Wenberta	*	-	*	-	-	-	-	-	-	-	*	-	-	-	-	-
South Tigray Zone	774	598	123	-	-	*	*	-	-	-	-	-	-	-	-	-
Seharte Samre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enderta	*	*	*	-	-	*	*	-	-	-	-	-	-	-	-	-
Hintalo Wajirat	302	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Ambalage	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endamehoni	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rayaazebo	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alamata	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Wofla	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.34.4: URBAN HOLDINGS

Geographic Area	Holders With Application of Pesticides															
	Grades Completed by Holder															
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Tigray Region	1157	474	229	7	55	96	91	67	43	34	17	15	*	-	15	*
West Tigray Zone	101	42	15	3	*	3	*	14	*	1	*	*	-	-	-	-
Kafta	34	19	6	-	1	*	*	3	-	1	-	-	-	-	-	-
Tahtay Adiyabo	9	*	-	3	-	-	*	-	-	-	-	*	-	-	-	-
Laelay Adiyabo	17	8	4	-	*	-	-	3	-	-	-	-	-	-	-	-
Tahtay Koraro	18	1	1	-	-	-	*	*	-	-	*	-	-	-	-	-
Medebay Zana	19	10	3	-	-	-	-	3	*	-	-	-	-	-	-	-
Asegede Tsimbela	4	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Central Tigray Zone	658	247	99	*	41	67	46	42	37	33	*	13	*	-	7	*
Mereb Lehe	31	*	*	-	-	*	*	*	-	*	-	-	-	-	-	-
Ahiferom	91	22	25	-	18	*	1	*	-	*	1	*	*	-	-	-
Werie Lehe	102	44	*	-	-	*	20	*	*	*	-	-	-	-	-	-
Adwa	54	16	8	-	-	-	7	*	6	*	-	*	1	-	*	*
Laelay Maychew	164	76	47	-	*	6	3	8	7	*	*	-	-	-	2	*
Tahtay Maychew	81	28	*	*	5	20	*	*	5	1	-	7	-	-	*	-
Naeder Adet	74	*	*	-	*	*	-	21	*	-	-	-	-	-	-	-
Kola Temben	*	*	-	-	-	*	-	-	-	1	-	-	-	-	-	-

TABLE 6.34.4 CONTD

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
Degua Temben	25	12	-	-	-	-	*	-	-	-	-	*	-	-	-	-
Tanqu Abergele	26	*	-	-	-	-	-	-	*	-	-	-	-	-	-	-
East Tigray Zone	112	58	36	-	-	3	*	-	-	-	-	-	-	-	1	-
Gulumahada	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Erob	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saesi Tsaedamba	5	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ganta Afeshum	6	4	-	-	-	*	-	-	-	-	-	-	-	-	-	-
Hawzen	55	*	29	-	-	-	*	-	-	-	-	-	-	-	-	-
Wukro	40	33	3	-	-	*	1	-	-	-	-	-	-	-	1	-
Atsbi Wenberta	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
South Tigray Zone	281	123	77	1	10	22	23	*	4	-	4	-	-	-	7	-
Seharte Samre	48	15	11	-	*	*	12	-	-	-	-	-	-	-	*	-
Enderta	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hintalo Wajirat	40	14	20	-	-	*	-	-	*	-	-	-	-	-	-	-
Ambalage	25	*	*	-	-	*	*	-	-	-	-	-	-	-	-	-
Endamehoni	33	8	15	1	*	-	1	-	1	-	-	-	-	-	*	-
Rayaazebo	15	7	1	-	-	*	1	*	-	-	-	-	-	-	*	-
Alamata	108	62	24	-	-	4	*	*	1	-	4	-	-	-	-	-
Wofla	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Mekele Zone	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Mekele	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 6.35: HOLDERS PARTICIPATING IN AGRICULTURAL EXTENSION BY EDUCATIONAL ATTAINMENT IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders Participating in Agricultural Extension															
	Grades Completed by Holder															
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Tigray Region	91288	60014	17590	1875	3249	5840	1966	984	972	372	198	118	*	*	*	-
West Tigray Zone	22176	14863	4014	709	848	963	429	*	177	*	*	-	-	-	*	-
Kafta	449	312	63	-	*	*	*	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	5631	3365	1248	414	375	165	*	-	-	*	-	-	-	-	-	-
Tahtay Koraro	2566	1761	486	*	-	*	83	*	*	-	-	-	-	-	-	-
Medebay Zana	6259	4238	1033	*	226	341	111	*	*	-	*	-	-	-	*	-
Asegede Tsimbela	3078	2055	433	*	123	292	*	-	-	-	-	-	-	-	-	-
Tselemti	1922	1478	*	*	*	-	*	-	-	-	-	-	-	-	-	-
Welkait	687	525	140	-	-	-	-	-	*	-	-	-	-	-	-	-
Tsegede	902	687	150	-	*	*	-	-	-	-	-	-	-	-	-	-
Central Tigray Zone	26144	15885	5114	592	1542	1259	800	311	369	*	*	*	-	*	-	-
Mereb Lehe	4972	3210	672	216	346	241	171	*	*	*	-	*	-	-	-	-
Ahiferom	2744	1379	647	*	171	*	*	*	*	-	-	-	-	-	-	-
Werie Lehe	2273	1193	500	*	*	*	*	*	*	*	-	-	-	-	-	-
Adwa	4634	3088	911	*	266	176	*	*	-	-	-	-	-	-	-	-
Laelay Maychew	1259	652	263	*	91	*	143	*	*	-	*	-	-	-	-	-
Tahtay Maychew	827	443	*	*	-	*	-	*	-	-	-	-	-	-	-	-
Naeder Adet	2345	1427	355	-	227	216	-	-	*	-	-	-	-	*	-	-
Kola Temben	2706	1748	*	*	*	*	*	-	*	*	*	-	-	-	-	-

TABLE 6.35 CONTD.

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
Degua Temben	4222	2691	1127	*	*	179	-	-	*	-	*	-	-	-	-	-
Tanqu Abergele	160	*	*	-	*	-	*	-	-	-	-	-	-	-	-	-
East Tigray Zone	22614	14448	5187	265	548	890	430	387	203	155	*	*	*	-	-	-
Gulumahada	3951	2488	728	58	213	199	*	58	103	*	-	-	-	-	-	-
Erob	52	42	-	-	*	-	-	-	-	-	*	-	-	-	-	-
Saesi Tsaedamba	7399	4619	1787	169	*	262	178	*	*	*	*	-	*	-	-	-
Ganta Afeshum	3715	2422	902	-	*	131	*	-	*	*	*	*	-	-	-	-
Hawzen	2914	2042	626	-	*	*	*	*	-	*	-	-	-	-	-	-
Wukro	2063	1250	616	-	-	*	*	93	*	-	-	-	-	-	-	-
Atsbi Wenberta	2519	1585	528	*	*	186	*	101	-	-	-	-	-	-	-	-
South Tigray Zone	20355	14819	3274	309	312	728	306	208	223	*	*	*	*	-	-	-
Seharte Samre	2157	1684	231	*	*	*	*	*	*	-	-	-	-	-	-	-
Enderta	2476	2098	174	-	*	*	*	*	*	-	-	-	-	-	-	-
Hintalo Wajirat	6554	4691	1187	*	*	*	*	*	-	*	-	*	-	-	-	-
Ambalage	2837	1651	524	*	*	*	167	*	*	-	*	-	-	-	-	-
Endamehoni	2020	1364	407	*	*	117	-	-	*	-	-	-	*	-	-	-
Rayazebo	1009	890	*	-	-	*	-	-	*	-	-	-	-	-	-	-
Alamata	806	606	*	-	-	*	-	-	-	-	-	-	-	-	-	-
Wofla	2496	1835	568	*	*	*	-	-	-	-	-	-	-	-	-	-

TABLE 6.35.1: RURAL MEHER

Geographic Area	Holders Participating in Agricultural Extension															
	Grades Completed by Holder															
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Tigray Region	80935	53248	15705	1735	2832	3422	1704	854	748	341	181	*	*	*	*	-
West Tigray Zone	21466	14307	3945	709	848	935	429	*	120	*	*	-	-	-	*	-
Kafta	449	312	63	-	*	*	*	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	5485	3239	1228	414	375	165	*	-	-	*	-	-	-	-	-	-
Tahtay Koraro	2549	1744	486	*	-	*	83	*	*	-	-	-	-	-	-	-
Medebay Zana	5733	3847	984	*	226	313	111	*	*	-	*	-	-	-	*	-
Asegede Tsimbela	3078	2055	433	*	123	292	*	-	-	-	-	-	-	-	-	-
Tselemti	1922	1478	*	*	*	-	*	-	-	-	-	-	-	-	-	-
Welkait	687	525	140	-	-	-	-	-	*	-	-	-	-	-	-	-
Tsegede	880	666	150	-	*	*	-	-	-	-	-	-	-	-	-	-
Central Tigray Zone	23500	14362	4731	519	1252	1154	599	311	318	*	*	*	-	*	-	-
Mereb Lehe	4925	3163	672	216	346	241	171	*	*	*	*	*	-	-	-	-
Ahiferom	2313	1066	530	*	171	*	*	*	*	*	*	-	-	-	-	-
Werie Lehe	1843	990	462	*	*	*	*	*	*	*	*	-	-	-	-	-
Adwa	3673	2515	788	*	188	*	*	*	-	-	-	-	-	-	-	-
Laelay Maychew	1014	582	203	*	*	*	87	*	-	-	-	-	-	-	-	-
Tahtay Maychew	827	443	*	*	-	*	-	*	-	-	-	-	-	-	-	-
Naeder Adet	2319	1427	355	-	200	216	-	-	*	-	-	-	-	*	-	-
Kola Temben	2516	1595	*	*	*	*	*	-	*	*	*	-	-	-	-	-

TABLE 6.35.1 CONTD.

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
Degua Temben	3925	2528	1082	*	*	179	-	-	*	-	*	-	-	-	-	-
Tanqu Abergele	144	*	*	-	*	-	-	-	-	-	-	-	-	-	-	-
East Tigray Zone	19512	12421	4566	232	498	724	370	335	171	124	*	*	-	-	-	-
Gulumahada	3951	2488	728	58	213	199	*	58	103	*	-	-	-	-	-	-
Erob	52	42	-	-	*	-	-	-	-	-	*	-	-	-	-	-
Saesi Tsaedamba	5318	3107	1492	135	*	201	117	*	-	*	*	-	-	-	-	-
Ganta Afeshum	3374	2262	769	-	*	*	*	-	*	*	*	*	-	-	-	-
Hawzen	2854	2042	566	-	*	*	*	*	-	*	-	-	-	-	-	-
Wukro	1934	1193	592	-	-	*	*	*	*	-	-	-	-	-	-	-
Atsbi Wenberta	2029	1287	418	*	-	131	*	101	-	-	-	-	-	-	-	-
South Tigray Zone	16458	12157	2464	275	235	609	306	132	139	*	*	*	*	-	-	-
Seharte Samre	1616	1313	*	*	-	*	*	-	-	-	-	-	-	-	-	-
Enderta	1918	1657	124	-	*	*	*	*	-	-	-	-	-	-	-	-
Hintalo Wajirat	4853	3578	715	-	*	*	*	*	-	*	-	*	-	-	-	-
Ambalage	2518	1495	439	*	-	*	167	*	*	-	*	-	-	-	-	-
Endamehoni	1365	907	286	*	*	*	-	-	*	-	-	-	*	-	-	-
Rayaazebo	1009	890	*	-	-	*	-	-	*	-	-	-	-	-	-	-
Alamata	*	*	*	-	-	*	-	-	-	-	-	-	-	-	-	-
Wofla	2433	1772	568	*	*	*	-	-	-	-	-	-	-	-	-	-

TABLE 6.35.2: RURAL BELG

Geographic Area	Holders Participating in Agricultural Extension															
	Grades Completed by Holder															
	All Holders	Illiterate	Literate but not Formal Education	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Above Grade 12
Tigray Region	15579	9969	2888	253	496	754	486	205	314	*	*	*	*	-	-	-
West Tigray Zone	1294	910	*	-	-	*	*	-	*	-	-	-	-	-	-	-
Kafta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
Tahtay Koraro	*	*	*	-	-	*	*	-	-	-	-	-	-	-	-	-
Medebay Zana	*	*	*	-	-	*	*	-	*	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tsegede	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Central Tigray Zone	3687	2165	459	*	352	179	262	*	*	*	*	-	-	-	-	-
Mereb Lehe	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ahiferom	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
Werie Lehe	*	*	*	*	*	-	*	-	*	-	-	-	-	-	-	-
Adwa	*	*	*	*	*	*	*	-	-	-	-	-	-	-	-	-
Laelay Maychew	*	*	*	-	*	-	*	-	*	-	*	-	-	-	-	-
Tahtay Maychew	*	-	-	-	-	-	-	*	-	-	-	-	-	-	-	-
Naeder Adet	*	-	-	-	*	-	-	-	-	-	-	-	-	-	-	-
Kola Temben	*	*	*	-	*	*	*	-	*	*	-	-	-	-	-	-

TABLE 6.35.2 CONTD

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
Degua Temben	*	*	*	-	*	*	-	-	-	-	-	-	-	-	-	-
Tanqu Abergele	*	-	-	-	-	-	*	-	-	-	-	-	-	-	-	-
East Tigray Zone	4412	2902	846	*	*	255	*	100	*	*	-	-	*	-	-	
Gulumahada	*	-	-	-	-	-	-	*	-	-	-	-	-	-	-	
Erob	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Saesi Tsaedamba	3178	2311	476	*	-	122	*	*	*	*	-	-	*	-	-	
Ganta Afeshum	*	*	*	-	*	*	-	-	-	*	-	-	-	-	-	
Hawzen	*	-	*	-	-	-	-	-	-	-	-	-	-	-	-	
Wukro	*	*	*	-	-	*	-	*	*	-	-	-	-	-	-	
Atsbi Wenberta	*	*	*	-	*	*	-	-	-	-	-	-	-	-	-	
South Tigray Zone	6187	3992	1365	*	*	257	*	*	120	-	-	*	*	-	-	
Seharte Samre	*	*	*	-	*	*	*	*	*	-	-	-	-	-	-	
Enderta	684	567	*	-	-	*	-	-	*	-	-	-	-	-	-	
Hintalo Wajirat	2404	*	*	*	-	*	-	*	-	-	-	*	-	-	-	
Ambalage	*	*	*	*	*	*	*	-	*	-	-	-	-	-	-	
Endamehoni	1160	674	294	*	*	*	-	-	*	-	-	-	*	-	-	
Rayazebo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Alamata	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	
Wofla	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 6.36: 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
Tigray Region	14617	52	1716	3836	5095	3098	676	*
West Tigray Zone	4754	8	464	1117	1771	1002	*	*
Kafta	*	*	*	*	*	*	-	*
Tahtay Adiyabo	306	-	*	80	169	48	-	-
Laelay Adiyabo	859	*	38	139	489	178	*	-
Tahtay Koraro	515	*	66	143	204	87	*	*
Medebay Zana	353	2	56	163	71	*	-	-
Asegede Tsimbela	576	*	15	106	292	151	*	-
Tselemti	734	*	198	305	141	*	*	*
Welkait	1125	*	75	159	354	*	*	-
Tsegede	116	*	*	14	32	44	*	-
Central Tigray Zone	5979	22	781	1890	2100	1139	*	*
Mereb Lehe	595	4	82	229	230	50	-	-
Ahiferom	658	*	176	231	190	*	*	*
Werie Lehe	927	-	56	147	328	395	-	-
Adwa	730	5	144	364	190	28	-	-
Laelay Maychew	403	*	30	82	163	127	-	-
Tahtay Maychew	387	*	43	156	144	*	-	-
Naeder Adet	777	*	124	330	305	*	-	-
Kola Temben	738	-	95	263	328	52	-	-
Degua Temben	98	*	21	36	*	25	-	-
Tanqu Abergele	667	-	12	53	207	374	*	-
East Tigray Zone	546	8	129	209	169	31	-	-
Gulumahada	70	2	27	35	*	-	-	-
Erob	5	*	4	1	-	-	-	-
Saesi Tsaedamba	44	*	11	21	11	-	-	-
Ganta Afeshum	42	*	20	*	*	-	-	-
Hawzen	273	*	41	98	111	*	-	-
Wukro	45	*	8	11	23	*	-	-
Atsbi Wenberta	67	*	17	23	*	*	-	-
South Tigray Zone	3338	15	343	620	1054	926	*	-
Seharte Samre	1530	*	20	102	442	585	*	-
Enderta	*	*	*	*	*	*	-	-
Hintalo Wajirat	427	*	41	85	208	*	-	-
Ambalage	200	*	73	100	*	-	-	-
Endamehoni	181	*	70	76	*	-	-	-
Rayaazebo	320	*	20	38	118	144	-	-
Alamata	295	-	15	66	135	*	*	-
Wofla	300	*	98	145	57	-	-	-

TABLE 6.36.1: 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
Tigray Region	14533	37	1668	3833	5076	3098	676	*
West Tigray Zone	4751	6	464	1117	1771	1002	*	*
Kafta	*	*	*	*	*	*	-	*
Tahtay Adiyabo	306	-	*	80	169	48	-	-
Laelay Adiyabo	858	*	38	139	489	178	*	-
Tahtay Koraro	515	*	66	143	204	87	*	*
Medebay Zana	351	*	56	163	71	*	-	-
Asegede Tsimbela	576	*	15	106	292	151	*	-
Tselemti	734	*	198	305	141	*	*	*
Welkait	1125	*	75	159	354	*	*	-
Tsegede	116	-	*	14	32	44	*	-
Central Tigray Zone	5957	17	764	1890	2100	1139	*	*
Mereb Lehe	593	4	79	229	230	50	-	-
Ahiferom	656	*	174	231	190	*	*	*
Werie Lehe	927	-	56	147	328	395	-	-
Adwa	718	*	134	364	190	28	-	-
Laelay Maychew	403	*	30	82	163	127	-	-
Tahtay Maychew	384	*	41	156	144	*	-	-
Naeder Adet	777	*	124	330	305	*	-	-
Kola Temben	738	-	95	263	328	52	-	-
Degua Temben	95	*	19	36	*	25	-	-
Tanqu Abergele	667	-	12	53	207	374	*	-
East Tigray Zone	537	5	123	209	169	31	-	-
Gulumahada	69	2	27	35	*	-	-	-
Erob	5	*	4	1	-	-	-	-
Saesi Tsaedamba	41	-	9	21	11	-	-	-
Ganta Afeshum	42	*	20	*	*	-	-	-
Hawzen	273	*	41	98	111	*	-	-
Wukro	45	*	8	11	23	*	-	-
Atsbi Wenberta	62	*	14	23	*	*	-	-
South Tigray Zone	3288	10	317	617	1035	926	*	-
Seharte Samre	1529	*	20	102	442	585	*	-
Enderta	*	*	*	*	*	*	-	-
Hintalo Wajirat	420	*	33	85	208	*	-	-
Ambalage	200	*	73	100	*	-	-	-
Endamehoni	171	*	64	74	*	-	-	-
Rayaazebo	297	*	16	38	99	144	-	-
Alamata	293	-	13	66	135	*	*	-
Wofla	299	*	96	145	57	-	-	-

TABLE 6.36.2: 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
Tigray Region	84	15	48	*	*	-	-	-
West Tigray Zone	3	3	*	*	-	-	-	-
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	-	*	-	-	-	-
Tahtay Koraro	*	*	-	-	-	-	-	-
Medebay Zana	2	2	*	-	-	-	-	-
Asegede, Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	*	*	-	-	-	-	-	-
Central Tigray Zone	22	5	*	*	-	-	-	-
Mereb Lehe	*	*	*	-	-	-	-	-
Ahiferom	*	*	*	*	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-	-
Adwa	*	*	*	-	-	-	-	-
Laelay Maychew	*	*	-	-	-	-	-	-
Tahtay Maychew	*	*	*	-	-	-	-	-
Naeder Adet	*	*	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-
Degua Temben	*	*	*	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-
East Tigray Zone	*	3	*	-	-	-	-	-
Gulumahada	*	*	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-
Wukro.	-	-	-	-	-	-	-	-
Atsbi Wenberta	*	*	*	-	-	-	-	-
South Tigray Zone	51	4	25	*	*	-	-	-
Seharte Samre	*	-	*	-	-	-	-	-
Enderta	*	*	*	-	-	-	-	-
Hintalo Wajirat	*	*	*	-	-	-	-	-
Ambalage	*	*	-	-	-	-	-	-
Endamehoni	84	15	48	*	*	-	-	-
Rayaazebo	3	3	*	*	-	-	-	-
Alamata	-	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-	-

TABLE 6.37: 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
Tigray Region	2581	33	670	750	712	366	*	-
West Tigray Zone	353	*	22	51	163	111	*	-
Kafta	18	-	*	5	*	*	-	-
Tahtay Adiyabo	*	-	*	*	*	*	-	-
Laelay Adiyabo	38	*	*	*	28	*	-	-
Tahtay Koraro	43	-	*	*	21	*	-	-
Medebay Zana	*	-	-	*	*	*	-	-
Asegede Tsimbela	57	-	*	*	*	*	*	-
Tselemti	*	*	-	-	*	*	-	-
Welkait	87	-	*	*	*	*	-	-
Tsegede	72	*	*	3	42	15	*	-
Central Tigray Zone	716	6	227	222	150	106	*	-
Mereb Lehe	27	*	*	*	*	*	-	-
Ahiferom	248	*	130	*	*	*	-	-
Werie Lehe	128	*	*	*	*	*	-	-
Adwa	42	*	*	19	*	-	-	-
Laelay Maychew	20	*	*	5	*	*	-	-
Tahtay Maychew	6	*	*	4	-	-	-	-
Naeder Adet	*	*	*	*	*	*	-	-
Kola Temben	*	*	*	*	*	*	-	-
Degua Temben	130	*	49	46	34	*	-	-
Tanqu Abergele	54	-	-	*	*	*	*	-
East Tigray Zone	401	3	140	175	61	*	-	-
Gulumahada	47	*	28	17	*	*	-	-
Erob	1	*	1	*	-	-	-	-
Saesi Tsaedamba	*	*	18	*	*	-	-	-
Ganta Afeshum	128	*	69	39	*	-	-	-
Hawzen	*	*	*	21	*	*	-	-
Wukro	34	*	*	13	12	*	-	-
Atsbi Wenberta	82	*	21	50	10	*	-	-
South Tigray Zone	1110	23	282	301	337	127	*	-
Seharte Samre	144	-	*	*	29	*	*	-
Enderta	73	-	*	*	*	*	-	-
Hintalo Wajirat	317	*	56	75	154	*	-	-
Ambalage	185	*	70	65	39	*	-	-
Endamehoni	81	5	36	26	*	-	-	-
Rayaazebo	109	*	*	*	*	*	-	-
Alamata	25	-	*	*	*	*	*	-
Wofla	176	*	109	49	16	-	-	-

TABLE 6.37.1: 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
Tigray Region	2511	17	623	745	711	366	*	-
West Tigray Zone	353	*	22	51	163	111	*	-
Kafta	18	-	*	5	*	*	-	-
Tahtay Adiyabo	*	-	*	*	*	*	-	-
Laelay Adiyabo	38	-	*	*	28	*	-	-
Tahtay Koraro	43	-	*	*	21	*	-	-
Medebáy Zana	*	-	-	*	*	*	-	-
Asegede Tsimbela	57	-	*	*	*	*	*	-
Tselemti	*	*	-	-	*	*	-	-
Welkait	87	-	*	*	*	*	-	-
Tsegede	72	*	*	3	42	15	*	-
Central Tigray Zone	708	3	225	219	150	106	*	-
Mereb Lehe	27	*	*	*	*	*	-	-
Ahiferom	244	*	130	*	*	*	-	-
Werie Lehe	127	*	*	*	*	*	-	-
Adwa	42	-	*	19	*	-	-	-
Laelay Maychew	20	*	*	5	*	*	-	-
Tahtay Maychew	5	-	*	4	-	-	-	-
Naeder Adet	*	*	*	*	*	*	-	-
Kola Temben	*	*	*	*	*	*	-	-
Degua Temben	128	-	48	46	34	*	-	-
Tanqu Abergele	54	-	-	*	*	*	*	-
East Tigray Zone	400	2	140	175	61	*	-	-
Gulumahada	47	-	28	17	*	*	-	-
Erob	1	*	1	*	-	-	-	-
Saesi Tsaedamba	*	*	17	*	*	-	-	-
Ganta Afeshum	128	*	69	39	*	-	-	-
Hawzen	*	-	*	21	*	*	-	-
Wukro	33	*	*	13	12	*	-	-
Atsbi Wenberta	82	*	21	50	10	*	-	-
South Tigray Zone	1050	10	237	299	336	127	*	-
Seharte Samre	143	-	*	*	29	*	*	-
Enderta	73	-	*	*	*	*	-	-
Hintalo Wajirat	314	*	54	73	154	*	-	-
Ambalage	163	*	55	65	39	*	-	-
Endamehoni	65	*	24	26	*	-	-	-
Rayaazebo	103	-	*	*	*	*	-	-
Alamata	25	-	*	*	*	*	*	-
Wofla	163	*	97	49	16	-	-	-

TABLE 6.37.2: 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
Tigray Region	70	16	47	*	*	-	-	-
West Tigray Zone	*	*	-	-	-	-	-	-
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-
Central Tigray Zone	*	3	*	*	-	-	-	-
Mereb Lehe	*	*	*	-	-	-	-	-
Ahiferom	*	*	*	*	-	-	-	-
Werie Lehe	*	*	-	-	-	-	-	-
Adwa	*	*	*	-	-	-	-	-
Laelay Maychew	-	-	-	-	-	-	-	-
Tahtay Maychew	*	*	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-
Degua Temben	*	*	*	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	-	-	-	-	-
Gulumahada	*	*	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	*	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-
Hawzen	*	*	-	-	-	-	-	-
Wukro	*	*	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-
South Tigray Zone	60	12	45	*	*	-	-	-
Seharte Samre	*	-	*	-	-	-	-	-
Enderta	*	-	*	-	-	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-	-
Ambalage	*	*	*	-	-	-	-	-
Endamehoni	17	*	12	*	-	-	-	-
Rayaaazebo	*	*	*	-	*	-	-	-
Alamata	-	-	-	-	-	-	-	-
Wofla	*	*	*	-	-	-	-	-

TABLE 6.38: 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
Tigray Region	20575	93	2223	4625	6868	5896	713	*
West Tigray Zone	7585	14	506	1633	2730	2179	*	*
Kafta	499	*	17	17	134	282	*	*
Tahtay Adiyabo	868	-	32	149	391	297	-	-
Laelay Adiyabo	1133	*	80	322	521	208	-	-
Tahtay Koraro	211	-	17	52	86	47	*	-
Medebay Zana	420	*	53	129	191	46	-	-
Asegede Tsimbela	1154	*	48	196	525	378	*	-
Tselemti	1433	*	186	284	217	*	*	*
Welkait	827	*	54	249	268	*	*	-
Tsegede	1040	*	*	235	398	374	*	-
Central Tigray Zone	7092	22	722	1530	2403	2329	*	*
Mereb Lehe	339	*	27	66	151	*	-	-
Ahiferom	290	3	46	111	86	*	-	*
Werie Lehe	1525	*	72	146	498	807	-	-
Adwa	299	*	65	115	110	*	-	-
Laelay Maychew	103	*	17	24	38	24	-	-
Tahtay Maychew	339	*	44	128	*	*	-	-
Naeder Adet	593	*	83	246	214	*	-	-
Kola Temben	1229	*	224	467	438	98	-	-
Degua Temben	397	*	71	85	129	*	-	-
Tanqu Abergele	1977	*	74	144	586	1087	*	-
East Tigray Zone	1223	17	376	448	290	91	*	-
Gulumahada	210	*	105	83	13	*	-	-
Erob	13	*	10	3	-	-	-	-
Saesi Tsaedamba	191	*	50	92	*	*	-	-
Ganta Afeshum	136	*	67	56	*	-	-	-
Hawzen	178	-	35	74	68	*	-	-
Wukro	384	7	37	118	145	76	*	-
Atsbi Wenberta	112	*	73	22	*	-	-	-
South Tigray Zone	4676	40	618	1015	1444	1297	*	-
Seharte Samre	1633	*	109	188	446	635	*	-
Enderta	682	6	25	91	261	291	*	-
Hintalo Wajirat	483	5	53	*	200	*	-	-
Ambalage	160	4	71	53	*	*	-	-
Endamehoni	100	12	52	31	*	*	-	-
Rayaazebo	772	*	*	*	280	224	-	-
Alamata	296	-	41	57	121	77	-	-
Wofla	549	11	189	247	102	-	-	-

TABLE 6.38.1: 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
Tigray Region	19821	45	1937	4440	6682	5848	713	*
West Tigray Zone	7583	12	506	1633	2730	2179	*	*
Kafta	499	*	17	17	134	282	*	*
Tahtay Adiyabo	868	-	32	149	391	297	-	-
Laelay Adiyabo	1131	*	80	322	521	208	-	-
Tahtay Koraro	211	-	17	52	86	47	*	-
Medebay Zana	420	*	53	129	191	46	-	-
Asegede Tsimbela	1154	*	48	196	525	378	*	-
Tselemti	1433	*	186	284	217	*	*	*
Welkait	827	*	54	249	268	*	*	-
Tsegede	1039	*	*	235	398	374	*	-
Central Tigray Zone	7042	10	693	1522	2403	2329	*	*
Mereb Lehe	334	*	22	66	151	*	-	-
Ahiferom	287	*	43	111	86	*	-	*
Werie Lehe	1514	*	63	146	498	807	-	-
Adwa	279	-	60	107	110	*	-	-
Laelay Maychew	95	-	9	24	38	24	-	-
Tahtay Maychew	338	*	44	128	*	*	-	-
Naeder Adet	593	*	83	246	214	*	-	-
Kola Temben	1229	*	224	467	438	98	-	-
Degua Temben	397	*	71	85	129	*	-	-
Tanqu Abergele	1977	*	74	144	586	1087	*	-
East Tigray Zone	1189	6	357	445	290	91	*	-
Gulumahada	210	*	105	83	13	*	-	-
Erob	13	*	10	3	-	-	-	-
Saesi Tsaedamba	176	*	40	92	*	*	-	-
Ganta Afeshum	134	*	65	56	*	-	-	-
Hawzen	178	-	35	74	68	*	-	-
Wukro	371	*	33	115	145	76	*	-
Atsbi Wenberta	108	*	71	22	*	-	-	-
South Tigray Zone	4007	17	381	841	1258	1248	*	-
Seharte Samre	1609	*	86	188	446	635	*	-
Enderta	675	*	20	91	261	291	*	-
Hintalo Wajirat	470	5	45	*	200	*	-	-
Ambalage	123	*	37	53	*	*	-	-
Endamehoni	56	*	25	22	*	*	-	-
Rayaazebo	331	-	*	51	94	176	-	-
Alamata	277	-	22	57	121	77	-	-
Wofla	467	5	135	225	102	-	-	-

TABLE 6.38.2: BELG

Geographic Area	Area Damaged by Locust							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Tigray Region	754	48	286	*	*	*	-	-
West Tigray Zone	*	*	-	-	-	-	-	-
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-
Medebay Zana	*	*	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	*	*	-	-	-	-	-	-
Central Tigray Zone	50	*	29	*	-	-	-	-
Mereb Lehe	*	*	*	-	-	-	-	-
Ahiferom	*	*	*	-	-	-	-	-
Werie Lehe	11	*	9	-	-	-	-	-
Adwa	*	*	*	*	-	-	-	-
Laelay Maychew	*	*	*	-	-	-	-	-
Tahtay Maychew	1	*	*	-	-	-	-	-
Naeder Adet	*	*	-	-	-	-	-	-
Kola Temben	*	*	-	-	-	-	-	-
Degua Temben	*	*	*	-	-	-	-	-
Tanqu Abergele	*	*	-	-	-	-	-	-
East Tigray Zone	33	11	19	*	-	-	-	-
Gulumahada	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	-	-	-	-	-
Ganta Afeshum	*	-	*	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-
Wukro	13	*	4	*	-	-	-	-
Atsbi Wenberta	*	*	*	-	-	-	-	-
South Tigray Zone	669	23	238	*	*	*	-	-
Seharte Samre	*	*	*	-	-	-	-	-
Enderta	*	*	*	*	-	-	-	-
Hintalo Wajirat	*	-	*	*	-	-	-	-
Ambalage	*	4	*	-	-	-	-	-
Endamehoni	44	*	27	*	-	-	-	-
Rayaazebo	*	*	*	*	*	*	-	-
Alamata	*	-	*	-	-	-	-	-
Wofla	82	7	54	*	-	-	-	-

TABLE 6.39: 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
Tigray Region	5203	28	749	1640	1778	971	*	*
West Tigray Zone	901	*	67	465	286	83	-	-
Kafta	*	-	-	-	-	*	-	-
Tahtay Adiyabo	*	-	-	*	*	*	-	-
Lalay Adiyabo	50	-	*	*	*	*	-	-
Tahtay Koraro	87	*	4	19	38	*	-	-
Medebay Zana	226	*	23	122	76	*	-	-
Asegede Tsimbela	17	-	-	*	*	*	-	-
Tselemti	131	*	20	42	*	*	-	-
Welkait	52	-	*	*	*	-	-	-
Tsegede	*	-	*	*	70	*	-	-
Central Tigray Zone	1744	6	258	525	604	351	-	-
Mereb Lehe	*	-	*	*	*	*	-	-
Ahiferom	178	*	71	75	*	*	-	-
Werie Lehe	330	*	*	47	123	*	-	-
Adwa	158	*	43	77	30	*	-	-
Lalay Maychew	137	*	16	30	62	28	-	-
Tahtay Maychew	179	-	17	86	72	*	-	-
Naeder Adet	155	-	*	62	62	*	-	-
Kola Temben	339	-	38	107	165	*	-	-
Degua Temben	70	*	*	*	*	-	-	-
Tanqu Abergele	189	-	*	17	36	124	-	-
East Tigray Zone	508	8	171	160	124	44	-	-
Gulumahada	44	*	24	11	*	-	-	-
Erob	17	3	11	2	*	-	-	-
Saesi Tsaedamba	76	*	40	25	*	-	-	-
Ganta Afeshum	49	*	26	*	-	-	-	-
Hawzen	110	-	*	49	24	*	-	-
Wukro	134	-	9	35	65	24	-	-
Atsbi Wenberta	78	*	37	*	*	*	-	-
South Tigray Zone	2050	13	253	491	765	493	*	*
Seharte Samre	174	-	*	41	35	*	*	-
Enderta	137	-	11	52	32	30	*	*
Hintalo Wajirat	228	*	34	42	99	47	-	-
Ambalage	46	*	12	15	*	-	-	-
Endamehoni	108	1	42	51	*	*	-	-
Rayaazebo	172	-	*	*	101	*	-	-
Alamata	1031	*	77	235	428	289	-	-
Wofla	154	*	65	46	*	-	-	-

TABLE 6.39.1: 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
Tigray Region	5184	22	738	1639	1778	970	*	*
West Tigray Zone	901	*	66	465	286	83	-	-
Kafta	*	-	-	-	-	*	-	-
Tahtay Adiyabo	*	-	-	*	*	*	-	-
Laelay Adiyabo	50	-	*	*	*	*	-	-
Tahtay Koraro	87	*	4	19	38	*	-	-
Medebay Zana	225	-	22	122	76	*	-	-
Asegede Tsimbela	17	-	-	*	*	*	-	-
Tselemti	131	*	20	42	*	*	-	-
Welkait	52	-	*	*	*	-	-	-
Tsegede	*	-	*	*	70	*	-	-
Central Tigray Zone	1741	4	258	525	604	351	-	-
Mereb Lehe	*	-	*	*	*	*	-	-
Ahiferom	178	*	71	75	*	*	-	-
Werie Lehe	330	*	*	47	123	*	-	-
Adwa	156	*	43	77	30	*	-	-
Laelay Maychew	137	-	16	30	62	28	-	-
Tahtay Maychew	179	-	17	86	72	*	-	-
Naeder Adet	155	-	*	62	62	*	-	-
Kola Temben	339	-	38	107	165	*	-	-
Degua Temben	70	*	*	*	*	-	-	-
Tanqu Abergele	189	-	*	17	36	124	-	-
East Tigray Zone	504	7	170	158	124	44	-	-
Gulumahada	44	*	24	11	*	-	-	-
Erob	17	3	11	2	*	-	-	-
Saesi Tsaedamba	75	*	40	25	*	-	-	-
Ganta Afeshum	49	*	26	*	-	-	-	-
Hawzen	110	-	*	49	24	*	-	-
Wukro	132	-	*	34	65	24	-	-
Atsbi Wenberta	78	*	37	*	*	*	-	-
South Tigray Zone	2038	10	243	491	765	492	*	*
Seharte Samre	174	-	*	41	35	*	*	-
Enderta	135	-	*	52	32	29	*	*
Hintalo Wajirat	225	*	33	42	99	47	-	-
Ambalage	46	*	12	15	*	-	-	-
Endamehoni	104	*	38	51	*	*	-	-
Rayaaazebo	172	-	*	*	101	*	-	-
Alamata	1031	*	77	235	428	289	-	-
Wofla	150	*	62	46	*	-	-	-

TABLE 6.39.2: 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
Tigray Region	19	6	11	*	-	*	-	-
West Tigray Zone	*	*	*	-	-	-	-	-
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-
Medebay Zana	*	*	*	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-
Central Tigray Zone	*	*	*	-	-	-	-	-
Mereb Lehe	-	-	-	-	-	-	-	-
Ahiferom	*	*	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-	-
Adwa	*	*	-	-	-	-	-	-
Laelay Maychew	*	*	*	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	-	-	-	-
Gulumahada	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-
Wukro	*	-	*	*	-	-	-	-
Atsbi Wenberta	*	-	*	-	-	-	-	-
South Tigray Zone	12	*	9	-	-	*	-	-
Seharte Samre	-	-	-	-	-	-	-	-
Enderta	*	-	*	-	-	*	-	-
Hintalo Wajirat	*	*	*	-	-	-	-	-
Ambalage	*	*	-	-	-	-	-	-
Endamehoni	4	*	*	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-
Wofla	*	-	*	-	-	-	-	-

TABLE 6.40: 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
Tigray Region	12579	64	1797	3623	4715	2128	188	*
West Tigray Zone	1805	9	179	445	754	403	*	*
Kafta	52	-	*	*	*	*	-	-
Tahtay Adiyabo	128	-	*	23	43	61	-	-
Lalay Adiyabo	195	*	*	15	107	*	-	-
Tahtay Koraro	250	*	29	64	92	*	*	*
Medebay Zana	576	4	76	208	217	*	-	-
Asegede	86	*	*	*	*	*	-	-
Tselemti	326	*	42	86	*	*	-	*
Welkait	99	*	*	23	52	*	-	-
Tsegede	*	1	*	13	*	*	-	-
Central Tigray Zone	6452	36	999	1973	2315	978	*	*
Mereb Lehe	279	*	36	63	146	*	-	-
Ahiferom	835	*	248	302	165	*	*	*
Werie Lehe	428	*	56	92	146	132	-	-
Adwa	507	*	92	212	169	*	-	-
Lalay Maychew	310	*	26	85	125	73	-	-
Tahtay Maychew	710	7	142	299	256	*	-	-
Naeder Adet	1242	*	256	502	432	*	-	-
Kola Temben	503	*	42	128	246	*	-	-
Degua Temben	529	*	79	183	175	*	-	-
Tanqu Abergele	1108	-	*	108	456	485	*	-
East Tigray Zone	1787	5	348	601	636	198	-	-
Gulumahada	32	*	17	11	*	-	-	-
Erob	1	*	*	*	-	-	-	-
Saesi Tsaedamba	*	*	*	*	*	-	-	-
Ganta Afeshum	95	-	46	36	*	-	-	-
Hawzen	642	*	97	241	197	107	-	-
Wukro	652	*	80	185	295	91	-	-
Atsbi Wenberta	106	*	45	48	*	-	-	-
South Tigray Zone	2534	15	271	604	1010	549	*	-
Seharte Samre	824	*	*	72	367	292	*	-
Enderta	257	*	15	37	61	129	*	-
Hintalo Wajirat	386	*	36	122	202	*	-	-
Ambalage	211	*	49	64	93	*	-	-
Endamehoni	179	*	48	67	*	-	-	-
Rayaazebo	*	-	*	*	*	*	-	-
Alamata	328	-	14	*	137	*	-	-
Wofla	272	*	86	134	50	-	-	-

TABLE 6.40.1: MEHER

Geographic Area	Area Damaged by Too Much Rain							Over 10
	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	
Tigray Region	12473	32	1734	3614	4715	2126	188	*
West Tigray Zone	1800	4	179	445	754	403	*	*
Kafta	52	-	*	*	*	*	-	-
Tahtay Adiyabo	128	-	*	23	43	61	-	-
Laelay Adiyabo	194	*	*	15	107	*	*	*
Tahtay Koraro	249	*	29	64	92	*	*	*
Medebay Zana	573	*	76	208	217	*	-	-
Asegede Tsimbela	86	*	*	*	*	*	-	-
Tselemti	326	*	42	86	*	*	-	*
Welkait	99	*	*	23	52	*	-	-
Tsegede	*	*	*	13	*	*	-	-
Central Tigray Zone	6406	15	982	1964	2315	978	*	*
Mereb Lehe	279	*	36	63	146	*	-	-
Ahiferom	835	*	248	302	165	*	*	*
Werie Lehe	427	*	56	92	146	132	-	-
Adwa	489	*	88	212	169	*	-	-
Laelay Maychew	291	*	16	77	125	73	-	-
Tahtay Maychew	703	*	139	299	256	*	-	-
Naeder Adet	1242	*	256	502	432	*	-	-
Kola Temben	503	*	42	128	246	*	-	-
Degua Temben	529	*	79	183	175	*	-	-
Tanqu Abergele	1108	-	*	108	456	485	*	-
East Tigray Zone	1785	4	346	601	636	198	-	-
Gulumahada	32	*	17	11	*	-	-	-
Erob	1	*	*	*	-	-	-	-
Saesi Tsaedamba	*	*	*	*	*	-	-	-
Ganta Afeshum	95	-	46	36	*	-	-	-
Hawzen	642	*	97	241	197	107	-	-
Wukro	649	*	78	185	295	91	-	-
Atsbi Wenberta	106	-	45	48	*	-	-	-
South Tigray Zone	2483	9	228	604	1010	548	*	-
Seharte Samre	823	*	*	72	367	292	*	-
Enderta	252	*	11	37	61	127	*	-
Hintalo Wajirat	385	*	35	122	202	*	-	-
Ambalage	196	*	34	64	93	*	-	-
Endamehoni	161	-	35	67	*	-	-	-
Rayaazebo	*	-	*	*	*	*	-	-
Alamata	328	-	14	*	137	*	-	-
Wofla	262	*	76	134	50	-	-	-

TABLE 6.40.2: 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
Tigray Region	105	32	63	*	-	*	-	-
West Tigray Zone	5	5	-	-	-	-	-	-
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	-	-	-	-	-	-
Tahtay Koraro	*	*	-	-	-	-	-	-
Medebay Zana	*	*	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	*	*	-	-	-	-	-	-
Central Tigray Zone	46	*	*	*	-	-	-	-
Mereb Lehe	-	-	-	-	-	-	-	-
Ahiferom	*	*	-	-	-	-	-	-
Werie Lehe	*	*	*	-	-	-	-	-
Adwa	*	*	*	-	-	-	-	-
Laelay Maychew	*	*	*	*	-	-	-	-
Tahtay Maychew	*	3	*	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	*	-	*	-	-	-	-	-
Degua Temben	*	*	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	-	-	-	-	-
Gulumahada	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-
Ganta Afeshum	*	-	*	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-
Wukro	*	*	*	-	-	-	-	-
Atsbi Wenberta	*	*	-	-	-	-	-	-
South Tigray Zone	51	*	43	*	-	*	-	-
Seharte Samre	*	*	*	-	-	-	-	-
Enderta	*	*	*	-	-	*	-	-
Hintalo Wajirat	*	-	*	-	-	-	-	-
Ambalage	*	-	*	-	-	-	-	-
Endamehoni	*	*	*	*	-	-	-	-
Rayazebo	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-
Wofla	*	*	*	-	-	-	-	-

TABLE 6.41: 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
Tigray Region	9880	50	1464	2643	3832	1272	*	*
West Tigray Zone	3887	6	282	876	1644	724	*	*
Kafta	*	-	*	*	*	*	-	-
Tahtay Adiyabo	354	*	*	*	197	95	-	-
Laelay Adiyabo	1407	*	*	229	707	392	-	-
Tahtay Koraro	550	*	72	194	218	65	-	-
Medebay Zana	340	*	39	146	*	*	-	-
Asegede Tsimbela	383	*	39	127	154	*	*	-
Tselemti	*	*	36	55	*	*	*	*
Welkait	*	-	*	*	*	*	-	-
Tsegede	63	*	*	*	*	*	-	-
Central Tigray Zone	2264	4	332	605	873	231	*	-
Mereb Lehe	76	*	29	30	*	*	-	-
Ahiferom	73	*	26	*	*	*	*	-
Werie Lehe	674	*	*	97	209	*	*	-
Adwa	78	*	20	45	*	-	-	-
Laelay Maychew	82	*	8	*	35	17	-	-
Tahtay Maychew	292	-	67	154	71	-	-	-
Naeder Adet	*	*	*	86	*	*	-	-
Kola Temben	*	-	*	*	*	*	-	-
Degua Temben	177	-	*	68	69	*	-	-
Tanqu Abergele	*	*	*	*	*	*	-	-
East Tigray Zone	1413	7	418	503	407	78	-	-
Gulumahada	80	-	49	23	*	-	-	-
Erob	41	*	31	10	-	-	-	-
Saesi Tsaedamba	*	*	*	*	*	*	-	-
Ganta Afeshum	337	*	130	128	*	-	-	-
Hawzen	234	-	60	112	54	*	-	-
Wukro	376	*	33	84	205	*	-	-
Atsbi Wenberta	179	-	54	91	*	-	-	-
South Tigray Zone	2317	33	433	659	909	240	*	*
Seharte Samre	445	-	*	48	287	85	*	-
Enderta	592	*	*	*	278	*	-	*
Hintalo Wajirat	450	7	74	177	176	*	-	-
Ambalage	224	*	73	72	*	-	-	-
Endamehoni	195	8	92	*	*	-	-	-
Rayaazebo	*	-	*	*	*	-	-	-
Alamata	250	*	*	110	*	-	-	-
Wofla	125	*	54	58	*	-	-	-

TABLE 6.41.1: 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
Tigray Region	9776	26	1391	2641	3828	1272	*	*
West Tigray Zone	3887	6	282	876	1644	724	*	*
Kafta	*	-	*	*	*	*	-	-
Tahtay Adiyabo	354	*	*	*	197	95	-	-
Laelay Adiyabo	1407	*	*	229	707	392	-	-
Tahtay Koraro	550	*	72	194	218	65	-	-
Medebay Zana	340	*	39	146	*	*	-	-
Asegede Tsimbela	383	*	39	127	154	*	*	-
Tselemti	*	*	36	55	*	*	*	*
Welkait	*	-	*	*	*	*	-	-
Tsegede	63	*	*	*	*	*	-	-
Central Tigray Zone	2263	4	332	605	873	231	*	-
Mereb Lehe	76	*	29	30	*	*	-	-
Ahiferom	73	*	26	*	*	*	*	-
Werie Lehe	674	*	*	97	209	*	*	-
Adwa	78	*	20	45	*	-	-	-
Laelay Maychew	81	*	8	*	35	17	-	-
Tahtay Maychew	292	-	67	154	71	-	-	-
Naeder Adet	*	*	*	86	*	*	-	-
Kola Temben	*	-	*	*	*	*	-	-
Degua Temben	177	-	*	68	69	*	-	-
Tanqu Abergele	*	*	*	*	*	*	-	-
East Tigray Zone	1395	3	407	501	407	78	-	-
Gulumahada	80	-	49	23	*	-	-	-
Erob	41	*	31	10	-	-	-	-
Saesi Tsaedamba	*	*	*	*	*	*	-	-
Ganta Afeshum	*	1	119	128	*	-	-	-
Hawzen	234	-	60	112	54	*	-	-
Wukro	375	*	33	82	205	*	-	-
Atsbi Wenberta	179	-	54	91	*	-	-	-
South Tigray Zone	2231	14	370	659	905	240	*	*
Seharte Samre	445	-	*	48	287	85	*	-
Enderta	592	*	*	*	278	*	-	*
Hintalo Wajirat	440	*	67	177	176	*	-	-
Ambalage	188	*	48	72	*	-	-	-
Endamehoni	177	*	78	*	*	-	-	-
Rayaazebo	*	-	*	*	*	-	-	-
Alamata	250	*	*	110	*	-	-	-
Wofla	109	*	40	58	*	-	-	-

TABLE 6.41.2: BELG

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
Tigray Region	104	24	73	*	*	-	-	-
West Tigray Zone	-	-	-	-	-	-	-	-
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-
Central Tigray Zone	*	*	-	-	-	-	-	-
Mereb Lehe	-	-	-	-	-	-	-	-
Ahiferom	*	*	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-	-
Adwa	-	-	-	-	-	-	-	-
Laelay Maychew	*	*	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	-	-	-	-
Gulumahada	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	-	-	-	-	-
Ganta Afeshum	*	*	*	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-
Wukro	*	-	-	*	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-
South Tigray Zone	86	19	62	*	*	-	-	-
Seharte Samre	*	-	*	-	-	-	-	-
Enderta	-	-	-	-	-	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-	-
Ambalage	*	*	*	-	-	-	-	-
Endamehoni	18	*	*	-	*	-	-	-
Rayazebo	*	-	*	-	*	-	-	-
Alamata	-	-	-	-	-	-	-	-
Wofla	*	*	*	-	-	-	-	-

TABLE 6.42: CROP AREA (HECTARES) DAMAGED BY HAIL STONE AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Hail Stone							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Tigray Region	26245	59	3961	7738	8391	5643	317	*
West Tigray Zone	3947	4	295	929	1491	1073	*	*
Kafta	*	-	*	-	*	*	-	-
Tahtay Adiyabo	*	-	*	*	*	*	-	-
Laelay Adiyabo	193	*	*	16	75	*	-	-
Tahtay Koraro	816	3	110	220	322	129	-	*
Medebay Zana	578	-	99	243	*	*	-	-
Asegede Tsimbela	220	-	*	69	132	*	-	-
Tselemti	*	-	*	27	*	*	*	*
Welkait	*	-	*	*	*	310	*	-
Tsegede	822	*	16	97	402	300	*	-
Central Tigray Zone	9865	18	1273	3367	3384	1764	*	*
Mereb Lehe	*	*	*	*	20	*	-	-
Ahiferom	866	*	192	443	210	*	-	*
Werie Lehe	1267	-	100	280	474	410	*	-
Adwa	764	*	197	426	121	*	-	-
Laelay Maychew	2951	3	167	694	1280	779	*	-
Tahtay Maychew	2157	7	379	1001	747	*	-	-
Naeder Adet	345	-	44	151	149	*	-	-
Kola Temben	362	-	43	86	116	*	-	-
Degua Temben	659	*	118	238	179	*	*	-
Tanqu Abergele	402	-	*	*	88	274	*	-
East Tigray Zone	4477	17	1238	1472	1020	673	*	-
Gulumahada	491	*	258	209	12	*	-	-
Erob	3	1	2	*	-	-	-	-
Saesi Tsaedamba	1185	5	383	458	303	*	-	-
Ganta Afeshum	335	*	173	122	37	-	-	-
Hawzen	573	*	68	196	172	137	-	-
Wukro	1225	*	57	183	440	484	*	-
Atsbi Wenberta	665	3	297	304	55	*	-	-
South Tigray Zone	7956	20	1156	1971	2497	2133	*	*
Seharte Samre	683	*	20	166	386	92	*	-
Enderta	3345	*	98	350	1191	1542	*	*
Hintalo Wajirat	1364	3	93	400	484	*	-	-
Ambalage	965	5	458	364	134	*	-	-
Endamehoni	464	5	195	210	*	-	-	-
Rayaaazebo	*	-	*	*	*	*	-	-
Alamata	*	*	*	*	*	*	*	-
Wofla	773	*	266	416	89	-	-	-

TABLE 6.42.1: MEHER

Geographic Area	Area Damaged by Hail Stone							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Tigray Region	26188	53	3932	7716	8391	5643	317	*
West Tigray Zone	3947	4	295	929	1491	1073	*	*
Kafta	*	-	*	-	*	*	-	-
Tahtay Adiyabo	*	-	*	*	*	*	-	-
Laelay Adiyabo	193	*	*	16	75	*	-	-
Tahtay Koraro	816	3	110	220	322	129	-	*
Medebay Zana	578	-	99	243	*	*	-	-
Asegede Tsimbela	220	-	*	69	132	*	-	-
Tselemti	*	-	*	27	*	*	*	*
Welkait	*	-	*	*	*	310	*	-
Tsegede	822	*	16	97	402	300	*	-
Central Tigray Zone	9857	15	1268	3367	3384	1764	*	*
Mereb Lehe	*	*	*	*	20	*	-	-
Ahiferom	866	*	192	443	210	*	-	*
Werie Lehe	1267	-	100	280	474	410	*	-
Adwa	761	*	197	426	121	*	-	-
Laelay Maychew	2946	3	162	694	1280	779	*	-
Tahtay Maychew	2157	7	378	1001	747	*	-	-
Naeder Adet	345	-	44	151	149	*	-	-
Kola Temben	362	-	43	86	116	*	-	-
Degua Temben	659	*	118	238	179	*	*	-
Tanqu Abergele	402	-	*	*	88	274	*	-
East Tigray Zone	4476	16	1238	1472	1020	673	*	-
Gulumahada	491	*	258	209	12	*	-	-
Erob	3	1	2	*	-	-	-	-
Saesi Tsaedamba	1185	4	383	458	303	*	-	-
Ganta Afeshum	335	*	173	122	37	-	-	-
Hawzen	573	*	68	196	172	137	-	-
Wukro	1224	*	57	183	440	484	*	-
Atsbi Wenberta	665	*	297	304	55	*	-	-
South Tigray Zone	7908	19	1131	1949	2497	2133	*	*
Seharte Samre	683	*	20	166	386	92	*	-
Enderta	3343	*	96	350	1191	1542	*	*
Hintalo Wajirat	1331	*	82	379	484	*	-	-
Ambalage	959	5	453	364	134	*	-	-
Endamehoni	462	5	193	210	*	-	-	-
Rayaaazebo	*	-	-	*	*	*	-	-
Alamata	*	*	*	*	*	*	*	-
Wofla	773	*	266	416	89	-	-	-

TABLE 6.42.2: BELG

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
Tigray Region	57	*	30	*	-	-	-	-
West Tigray Zone	-	-	-	-	-	-	-	-
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-
Asegedé Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-
Central Tigray Zone	*	*	*	-	-	-	-	-
Mereb Lehe	-	-	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-	-
Adwa	*	*	-	-	-	-	-	-
Laelay Maychew	*	-	*	-	-	-	-	-
Tahtay Maychew	*	-	*	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-
East Tigray Zone	*	*	-	-	-	-	-	-
Gulumahada	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-
Wukro	*	*	-	-	-	-	-	-
Atsbi Wenberta	*	*	-	-	-	-	-	-
South Tigray Zone	48	*	25	*	-	-	-	-
Seharte Samre	-	-	-	-	-	-	-	-
Enderta	*	*	*	-	-	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-	-
Ambalage	*	*	*	-	-	-	-	-
Endamehoni	57	*	30	*	-	-	-	-
Rayaazebo	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-	-

TABLE 6.43: CROP AREA (HECTARES) DAMAGED BY INSECT AND PESTS AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Insect and Pests							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Tigray Region	128	*	10	31	*	*	-	-
West Tigray Zone	*	-	*	*	*	*	-	-
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	-	-	*	*	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-
Medebay Zana	*	-	-	*	-	*	-	-
Asegede Tsimbela	*	-	*	*	*	-	-	-
Tselemti	*	-	*	-	*	-	-	-
Welkait	*	-	-	*	*	*	-	-
Tsegede	*	-	-	*	-	-	-	-
Central Tigray Zone	16	-	*	*	*	*	-	-
Mereb Lehe	*	-	-	*	*	-	-	-
Ahiferom	-	-	-	-	-	-	-	-
Werie Lehe	*	-	-	-	-	*	-	-
Adwa	*	-	*	*	-	-	-	-
Laelay Maychew	*	-	-	-	*	-	-	-
Tahtay Maychew	*	-	*	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	*	-	*	*	-	-	-	-
Degua Temben	*	-	-	-	-	*	-	-
Tanqu Abergele	*	-	*	-	-	-	-	-
East Tigray Zone	9	*	4	*	*	*	-	-
Gulumahada	*	*	*	*	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	*	*	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-
Hawzen	*	-	*	*	*	-	-	-
Wukro	*	-	-	-	-	*	-	-
Atsbi Wenberta	*	-	*	-	-	-	-	-
South Tigray Zone	32	-	*	*	*	-	-	-
Seharte Samre	*	-	-	*	-	-	-	-
Enderta	-	-	-	-	-	-	-	-
Hintalo Wajirat	*	-	-	*	*	-	-	-
Ambalage	-	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-	-
Rayaaazebo	*	-	-	*	-	-	-	-
Alamata	*	-	-	*	*	-	-	-
Wofla	*	-	*	-	-	-	-	-

TABLE 6.43.1: MEHER

Geographic Area	Area Damaged by Insect and Pests							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Tigray Region	128	*	10	31	*	*	-	-
West Tigray Zone	*	-	*	*	*	*	-	-
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	-	-	*	*	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-
Medebay Zana	*	-	-	*	-	*	-	-
Asegede Tsimbela	*	-	*	*	*	-	-	-
Tselemti	*	-	*	-	*	-	-	-
Welkait	*	-	-	*	*	*	-	-
Tsegede	*	-	-	*	-	-	-	-
Central Tigray Zone	16	-	*	*	*	*	-	-
Mereb Lehe	*	-	-	*	*	-	-	-
Ahiferom	-	-	-	-	-	-	-	-
Werie Lehe	*	-	-	-	-	*	-	-
Adwa	*	-	*	*	-	-	-	-
Laelay Maychew	*	-	-	-	*	-	-	-
Tahtay Maychew	*	-	*	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	*	-	*	*	-	-	-	-
Degua Temben	*	-	-	-	-	*	-	-
Tanqu Abergele	*	-	*	-	-	-	-	-
East Tigray Zone	9	*	4	*	*	*	-	-
Gulumahada	*	*	*	*	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	-	*	*	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-
Hawzen	*	-	*	*	*	-	-	-
Wukro	*	-	-	-	-	*	-	-
Atsbi Wenberta	*	-	*	-	-	-	-	-
South Tigray Zone	32	-	*	*	*	-	-	-
Seharte Samre	*	-	-	*	-	-	-	-
Enderta	-	-	-	-	-	-	-	-
Hintalo Wajirat	*	-	-	*	*	-	-	-
Ambalage	-	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-	-
Rayaaazebo	*	-	-	*	-	-	-	-
Alamata	*	-	-	*	*	-	-	-
Wofla	*	-	*	-	-	-	-	-

TABLE 6.44: CROP AREA (HECTARES) DAMAGED BY WEEDS AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Weeds							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Tigray Region	35824	119	4532	8142	11550	8626	1558	*
West Tigray Zone	13155	12	848	2330	4180	3923	1295	*
Kafta	6083	*	66	360	1062	2842	1186	*
Tahtay Adiyabo	966	*	*	243	446	257	-	-
Laelay Adiyabo	720	-	30	120	367	160	*	-
Tahtay Koraro	32	-	*	*	8	*	-	-
Medebay Zana	861	-	46	289	*	79	-	-
Asegede Tsimbela	137	-	-	15	66	*	*	-
Tselemti	2966	*	613	1106	*	*	*	-
Welkait	1317	*	68	186	510	506	*	-
Tsegede	74	*	*	6	51	*	-	-
Central Tigray Zone	11318	25	1267	3002	3909	2337	*	*
Mereb Lehe	490	*	49	123	237	80	-	-
Ahiferom	1860	*	325	547	215	*	*	*
Werie Lehe	2357	*	269	431	848	*	-	-
Adwa	*	*	93	259	*	*	-	-
Laelay Maychew	501	-	28	112	221	140	-	-
Tahtay Maychew	416	*	41	235	134	*	-	-
Naeder Adet	773	*	149	313	265	*	-	-
Kola Temben	2629	-	198	634	1244	553	-	-
Degua Temben	856	-	102	272	313	170	-	-
Tanqu Abergele	804	-	13	77	201	500	*	-
East Tigray Zone	2451	22	718	832	572	307	-	-
Gulumahada	228	5	116	90	17	-	-	-
Erob	25	1	19	5	*	-	-	-
Saesi Tsaedamba	78	*	14	*	*	-	-	-
Ganta Afeshum	305	7	140	129	*	-	-	-
Hawzen	882	*	136	350	298	96	-	-
Wukro	545	*	*	130	162	185	-	-
Atsbi Wenberta	389	*	229	98	*	*	-	-
South Tigray Zone	8900	60	1699	1977	2889	2060	*	-
Seharte Samre	1634	*	62	194	382	780	*	-
Enderta	*	*	8	24	*	*	-	-
Hintalo Wajirat	1848	31	446	496	747	128	-	-
Ambalage	128	*	34	45	26	*	-	-
Endamehoni	37	*	17	16	*	-	-	-
Rayazebo	3291	14	619	716	1078	863	-	-
Alamata	1336	-	369	391	437	139	-	-
Wofla	270	*	*	95	*	-	-	-

TABLE 6.44.1: MEHER

Geographic Area	Area Damaged by Weeds							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Tigray Region	33436	49	3213	7484	11233	8603	1558	*
West Tigray Zone	13152	11	846	2330	4180	3923	1295	*
Kafta	6083	*	66	360	1062	2842	1186	*
Tahtay Adiyabo	966	*	*	243	446	257	-	-
Laelay Adiyabo	718	-	28	120	367	160	*	-
Tahtay Koraro	32	-	*	*	8	*	-	-
Medebay Zana	861	-	46	289	*	79	-	-
Asegede Tsimbela	137	-	-	15	66	*	*	-
Tselemti	2966	*	613	1106	*	*	*	-
Welkait	1317	*	68	186	510	506	*	-
Tsegede	73	-	*	6	51	*	-	-
Central Tigray Zone	11257	15	1227	2991	3909	2337	*	*
Mereb Lehe	490	*	49	123	237	80	-	-
Ahiferom	1860	*	325	547	215	*	*	*
Werie Lehe	2312	*	231	431	848	*	-	-
Adwa	*	*	91	*	*	*	-	-
Laelay Maychew	501	-	28	112	221	140	-	-
Tahtay Maychew	412	-	41	231	134	*	-	-
Naeder Adet	773	*	149	313	265	*	-	-
Kola Temben	2629	-	198	634	1244	553	-	-
Degua Temben	856	-	102	272	313	170	-	-
Tanqu Abergele	804	-	13	77	201	500	*	-
East Tigray Zone	2196	14	519	785	572	307	-	-
Gulumahada	228	5	116	90	17	-	-	-
Erob	25	1	19	5	*	-	-	-
Saesi Tsaedamba	74	-	*	*	*	-	-	-
Ganta Afeshum	303	6	139	129	*	-	-	-
Hawzen	880	*	136	350	298	96	-	-
Wukro	545	*	*	130	162	185	-	-
Atsbi Wenberta	*	-	33	51	*	*	-	-
South Tigray Zone	6831	9	621	1377	2572	2036	*	-
Seharte Samre	1634	*	62	194	382	780	*	-
Enderta	*	*	7	24	*	*	-	-
Hintalo Wajirat	1409	*	91	442	747	128	-	-
Ambalage	108	*	18	45	26	*	-	-
Endamehoni	20	*	*	*	*	-	-	-
Rayazebo	1948	*	69	236	802	840	-	-
Alamata	1089	-	*	328	396	139	-	-
Wofla	267	*	*	95	*	-	-	-

TABLE 6.44.2: BELG

Geographic Area	Area Damaged by Weeds							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Tigray Region	2388	70	1319	658	317	*	-	-
West Tigray Zone	*	*	*	-	-	-	-	-
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	-	*	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	*	*	-	-	-	-	-	-
Central Tigray Zone	*	*	*	*	-	-	-	-
Mereb Lehe	-	-	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-	-
Werie Lehe	*	*	*	-	-	-	-	-
Adwa	*	*	*	*	-	-	-	-
Laelay Maychew	-	-	-	-	-	-	-	-
Tahtay Maychew	*	*	-	*	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-
East Tigray Zone	*	8	*	*	-	-	-	-
Gulumahada	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	-	-	-	-	-
Ganta Afeshum	*	*	*	-	-	-	-	-
Hawzen	*	*	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-	-
Atsbi Wenberta	*	*	*	*	-	-	-	-
South Tigray Zone	2069	51	1078	600	317	*	-	-
Seharte Samre	-	-	-	-	-	-	-	-
Enderta	*	*	*	-	-	-	-	-
Hintalo Wajirat	439	30	355	*	-	-	-	-
Ambalage	20	*	16	*	-	-	-	-
Endamehoni	*	*	*	*	-	-	-	-
Rayazebo	1343	*	550	480	*	*	-	-
Alamata	247	-	143	63	*	-	-	-
Wofla	*	*	-	-	-	-	-	-

TABLE 6.45: CROP AREA (HECTARES) DAMAGED BY OTHER CAUSE AND TOTAL SIZE OF HOLDING IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Area Damaged by Other Causes							
	Size of Holding (Hectares)							
	All	Under 0.1	0.1-0.5	0.51-1.00	1.01-2.00	2.01-5.00	5.01-10.00	Over 10
Tigray Region	19	2	2	8	3	*	*	-
West Tigray Zone	1	*	*	-	*	-	-	-
Kafta	*	-	-	-	*	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	-	-	-	-	-	-
Tahtay Koraro	*	*	*	-	-	-	-	-
Medebay Zana	*	*	*	-	-	-	-	-
Asegede Tsimbela	*	-	-	-	*	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	*	*	-	-	-	-	-	-
Central Tigray Zone	10	*	*	*	*	*	*	-
Mereb Lehe	*	*	*	*	*	*	-	-
Ahiferom	*	*	-	-	-	-	-	-
Werie Lehe	*	-	-	-	-	-	*	-
Adwa	*	*	*	*	-	-	-	-
Laelay Maychew	*	-	*	-	-	-	-	-
Tahtay Maychew	*	*	*	-	-	-	-	-
Naeder Adet	*	-	-	*	-	-	-	-
Kola Temben	*	*	*	*	-	-	-	-
Degua Temben	*	-	-	*	*	-	-	-
Tanqu Abergele	*	*	-	-	-	-	-	-
East Tigray Zone	*	*	*	-	*	-	-	-
Gulumahada	*	*	*	-	-	-	-	-
Erob	*	-	*	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-
Hawzen	*	-	-	-	*	-	-	-
Wukro	-	-	-	-	-	-	-	-
Atsbi Wenberta	*	*	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	-	*	-	-
Seharte Samre	*	-	-	-	-	*	-	-
Enderta	-	-	-	-	-	-	-	-
Hintalo Wajirat	*	*	-	*	-	-	-	-
Ambalage	*	*	-	*	-	-	-	-
Endamehoni	*	-	*	*	-	-	-	-
Rayaaazebo	*	*	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-
Wofla	*	*	*	*	-	-	-	-

TABLE 6.45.1: 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
Tigray Region	13	*	*	5	3	*	*	-
West Tigray Zone	*	-	*	-	*	-	-	-
Kafta	*	-	-	-	*	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-
Medebay Zana	*	-	*	-	-	-	-	-
Asegede Tsimbela	*	-	-	-	*	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-
Central Tigray Zone	9	-	-	*	*	*	*	-
Mereb Lehe	*	-	-	*	*	*	-	-
Ahiferom	-	-	-	-	-	-	-	-
Werie Lehe	*	-	-	-	-	-	*	-
Adwa	*	-	-	*	-	-	-	-
Laelay Maychew	-	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-	-
Naeder Adet	*	-	-	*	-	-	-	-
Kola Temben	*	-	-	*	-	-	-	-
Degua Temben	*	-	-	*	*	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	-	*	-	-	-
Gulumahada	*	*	*	-	-	-	-	-
Erob	*	-	*	-	-	-	-	-
Saësi Tsaedamba	-	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-
Hawzen	*	-	-	-	*	-	-	-
Wukro	-	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-
South Tigray Zone	*	-	*	*	-	*	-	-
Seharte Samre	*	-	-	-	-	*	-	-
Enderta	-	-	-	-	-	-	-	-
Hintalo Wajirat	*	-	-	*	-	-	-	-
Ambalage	*	-	-	*	-	-	-	-
Endamehoni	*	-	-	*	-	-	-	-
Rayaaazebo	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-
Wofla	*	-	*	*	-	-	-	-

TABLE 6.45.2: 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
Tigray Region	*	1	1	*	-	-	-	-
West Tigray Zone	*	*	*	-	-	-	-	-
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	-	-	-	-	-	-
Tahtay Koraro	*	*	*	-	-	-	-	-
Medebay Zana	*	*	*	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	*	*	-	-	-	-	-	-
Central Tigray Zone	1	*	*	*	-	-	-	-
Mereb Lehe	*	*	*	-	-	-	-	-
Ahiferom	*	*	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-	-
Adwa	*	*	*	-	-	-	-	-
Laelay Maychew	*	-	*	-	-	-	-	-
Tahtay Maychew	*	*	*	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	*	*	*	*	-	-	-	-
Degua Temben	-	-	-	-	-	-	-	-
Tanqu Abergele	*	*	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	-	-	-	-
Gulumahada	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-
Ganta Afeshum	*	-	*	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-
Wukro	*	-	-	*	-	-	-	-
Atsbi Wenberta	*	*	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	-	-	-	-
Seharte Samre	-	-	-	-	-	-	-	-
Enderta	-	-	-	-	-	-	-	-
Hintalo Wajirat	*	*	-	*	-	-	-	-
Ambalage	*	*	-	-	-	-	-	-
Endamehoni	*	-	*	-	-	-	-	-
Rayaazebo	*	*	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-
Wofla	*	*	*	-	-	-	-	-

TABLE 6.46: NUMBER OF AGRICULTURAL HOLDERS APPLYING IRRIGATION BY SOURCE OF WATER IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Source of Water			
	River	Lake	Pond	Others
Tigray Region	58021	6905	4907	7698
West Tigray Zone	2631	2244	342	822
Kafta	-	*	-	*
Tahtay Adiyabo	*	*	-	-
Laelay Adiyabo	538	263	-	-
Tahtay Koraro	*	*	*	*
Medebay Zana	1115	*	*	*
Asegede Tsimbela	*	*	*	*
Tselemti	*	221	-	*
Welkait	-	*	*	-
Tsegede	*	*	*	*
Central Tigray Zone	14397	1325	660	2323
Mereb Lehe	*	*	*	-
Ahiferom	3927	*	197	-
Werie Lehe	2534	213	*	*
Adwa	1663	407	*	-
Laelay Maychew	134	116	*	777
Tahtay Maychew	1027	164	-	-
Naeder Adet	1050	*	*	*
Kola Temben	3277	160	*	*
Degua Temben	*	*	-	*
Tanqu Abergele	*	*	-	-
East Tigray Zone	5786	2371	1757	519
Gulumahada	96	98	*	*
Erob	*	32	-	*
Saesi Tsaedamba	2326	303	*	*
Ganta Afeshum	*	169	*	*
Hawzen	*	165	*	-
Wukro	*	401	*	*
Atsbi Wenberta	*	*	*	*
South Tigray Zone	35206	965	2148	4033
Seharte Samre	1591	*	*	*
Enderta	3626	*	*	*
Hintalo Wajirat	5742	-	*	*
Ambalage	6436	293	*	*
Endamehoni	3842	*	*	*
Rayaazebo	2186	*	-	*
Alamata	3227	*	*	-
Wofla	8557	*	*	*

TABLE 6.47: NUMBER OF AGRICULTURAL HOLDERS IMPROVING SOIL FERTILITY BY METHOD OF APPLICATION IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Method to Improve Soil Fertility	
	Crop Rotation	Burning of Soil
Tigray Region	622573	42267
West Tigray Zone	153496	11948
Kafta	9191	382
Tahtay Adiyabo	13958	570
Lalay Adiyabo	19339	919
Tahtay Koraro	12343	*
Medebay Zana	20443	548
Asegede Tsimbela	18842	5039
Tselemti	25328	2373
Welkait	21389	1166
Tsegede	12663	160
Central Tigray Zone	202171	14033
Mereb Lehe	17208	2515
Ahiferom	32532	*
Werie Lehe	25866	*
Adwa	22005	2987
Lalay Maychew	14019	274
Tahtay Maychew	16756	*
Naeder Adet	18973	2454
Kola Temben	20539	*
Degua Temben	21185	*
Tanqu Abergele	13088	*
East Tigray Zone	110126	9001
Gulumahada	14324	1309
Erob	2715	52
Saesi Tsaedamba	22846	3446
Ganta Afeshum	18722	2392
Hawzen	19084	293
Wukro	13090	1236
Atsbi Wenberta	19345	273
South Tigray Zone	156780	7285
Seharte Samre	22222	2219
Enderta	20951	286
Hintalo Wajirat	26172	2126
Ambalage	19498	187
Endamehoni	15982	1354
Rayaazebo	14883	*
Alamata	9589	*
Wofla	27484	475

TABLE 6.52: NUMBER OF HOLDERS BY REASON FOR NOT BEING COVERED BY EXTENSION PROGRAM IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Reason for not Being Covered by Extension Program					
	Do not Know the Advantage	Shortage of Money	Suspicious of its Efficiency	Program not Available	Insufficient Arable Land	Others
Tigray Region	78865	209925	36952	176096	45703	55187
West Tigray Zone	16335	54325	21131	37723	7797	12765
Kafta	474	1581	880	2546	623	4221
Tahtay Adiyabo	*	6169	4714	2963	445	318
Laelay Adiyabo	1606	8526	400	*	487	743
Tahtay Koraro	1372	6570	540	1214	218	*
Medebay Zana	1237	5537	685	12726	*	1745
Asegede Tsimbela	4056	7763	1144	*	1305	2875
Tselemti	3518	6105	8047	*	2766	*
Welkait	1175	7818	577	12582	1053	1256
Tsegede	2673	4257	4144	2448	729	342
Central Tigray Zone	17089	62658	2806	82830	11849	16678
Mereb Lehe	211	4304	*	11485	443	365
Ahiferom	2055	7384	488	12528	2005	6076
Werie Lehe	2923	8348	754	8514	2910	*
Adwa	*	9418	*	7118	-	*
Laelay Maychew	1203	5422	*	4766	268	478
Tahtay Maychew	1865	4712	*	6142	823	3083
Naeder Adet	2966	4248	294	6297	1490	1020
Kola Temben	2843	10100	*	7605	3134	583
Degua Temben	*	4240	*	15106	487	264
Tanqu Abergele	1084	4482	784	3269	*	3896
East Tigray Zone	27751	33447	3479	29749	11204	5491
Gulumahada	2277	3818	*	4780	1362	1070
Erob	495	790	90	1393	1164	249
Saesi Tsaedamba	5038	9398	113	2661	2446	*
Ganta Afeshum	2944	1314	*	6991	3578	*
Hawzen	9580	6925	*	3210	632	216
Wukro	2976	5318	968	3094	1277	*
Atsbi Wenberta	4441	5884	965	7620	744	526
South Tigray Zone	17690	59494	9535	25794	14853	20253
Seharte Samre	4712	7890	*	4897	461	2425
Enderta	1653	7797	*	5559	1994	882
Hintalo Wajirat	1804	10828	781	2865	1210	3966
Ambalage	351	5928	699	5906	2222	*
Endamehoni	1385	5982	2424	*	1187	1190
Rayaazebo	1909	3645	1655	2574	1218	7081
Alamata	3924	4211	1798	3537	381	*
Wofla	1952	13212	1160	*	6180	3328

TABLE 6.49: NUMBER OF AGRICULTURAL HOLDERS BY PLOWING METHOD  
IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Method of Plowing				
	Hand Dung	Ox/Horse Driven	Tractor	Hand Dung and Ox/Horse Driven	Tractor and Ox/horse Driven
Tigray Region	10011	499706	3378	155237	696
West Tigray Zone	2734	105965	3337	53368	655
Kafta	*	4153	3294	1845	541
Tahtay Adiyabo	143	15307	-	*	-
Laelay Adiyabo	*	18349	*	1781	-
Tahtay Koraro	250	11673	-	1529	-
Medebay Zana	*	15267	-	6970	-
Asegede Tsimbela	477	14381	-	5554	*
Tselemti	*	7234	-	19451	*
Welkait	298	11429	-	10125	-
Tsegede	426	8174	-	5846	-
Central Tigray Zone	1658	171219	*	42134	-
Mereb Lehe	*	16853	-	955	-
Ahiferom	273	28635	-	4128	-
Werie Lehe	273	23944	-	2063	-
Adwa	*	16827	-	5990	-
Laelay Maychew	*	13724	-	192	-
Tahtay Maychew	*	13662	-	3682	-
Naeder Adet	*	13200	-	7670	-
Kola Temben	*	13503	-	12426	-
Degua Temben	*	17820	-	3778	-
Tanqu Abergele	159	13051	*	1250	-
East Tigray Zone	1208	107074	-	9372	*
Gulumahada	75	14143	-	1233	-
Erob	18	2835	-	719	-
Saesi Tsaedamba	*	22342	-	*	-
Ganta Afeshum	570	14670	-	4915	-
Hawzen	*	19663	-	243	-
Wukro	352	13442	-	*	-
Atsbi Wenberta	*	19979	-	*	*
South Tigray Zone	4411	115448	*	50363	-
Seharte Samre	294	18977	-	3151	-
Enderta	487	19836	*	*	-
Hintalo Wajirat	351	25129	-	2115	-
Ambalage	658	8788	-	10472	-
Endamehoni	624	5795	-	10364	-
Rayaazebo	513	17652	-	1659	-
Alamata	*	11270	-	3114	-
Wofla	1378	8003	-	18483	-

TABLE 6.50: NUMBER OF AGRICULTURAL HOLDERS BY METHOD OF SOIL CONSERVATION IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Method of Soil Conservation				
	Terracing	Water Catchment	Afforestation	Plowing along The Counter	Others
Tigray Region	305328	143318	1068	198155	2694
West Tigray Zone	70410	36674	*	51326	336
Kafta	362	853	*	4607	*
Tahtay Adiyabo	6471	3573	-	5382	-
Laelay Adiyabo	10082	8148	-	2060	-
Tahtay Koraro	5752	3483	-	4181	-
Medebay Zana	14263	6664	-	1086	*
Asegede Tsimbela	10649	2228	-	7548	-
Tselemti	15387	9207	-	2321	*
Welkait	4427	1359	-	15050	-
Tsegede	3017	1159	-	9090	*
Central Tigray Zone	121003	36143	*	54725	*
Mereb Lehe	9785	3925	-	4082	-
Ahiferom	21307	3776	*	6939	*
Werie Lehe	16489	1992	-	7376	*
Adwa	13595	2549	-	6576	-
Laelay Maychew	9168	1977	-	2823	*
Tahtay Maychew	5174	7427	*	4648	*
Naeder Adet	13637	4914	-	2337	-
Kola Temben	14912	4419	*	6283	-
Degua Temben	8736	3290	*	9541	-
Tanqu Abergele	8201	1873	-	4120	-
East Tigray Zone	30839	35079	608	47540	*
Gulumahada	5215	6287	*	3702	-
Erob	939	961	-	1618	*
Saesi Tsaedamba	7997	7963	*	7448	*
Ganta Afeshum	8461	6044	*	4735	*
Hawzen	3307	6795	*	7921	*
Wukro	3401	5567	-	5134	-
Atsbi Wenberta	1519	*	-	16980	-
South Tigray Zone	83077	35421	275	44565	*
Seharte Samre	10242	2146	-	9806	-
Enderta	12989	2862	*	4346	-
Hintalo Wajirat	18434	6050	*	1914	-
Ambalage	11979	2964	-	4356	*
Endamehoni	7182	4512	-	4523	-
Rayaazebo	4018	8250	-	6446	*
Alamata	3646	5346	*	4226	*
Wofla	14587	3292	*	8947	*

TABLE 6.5f: NUMBER OF AGRICULTURAL HOLDERS PRACTICING EXTENSION PACKAGES BY TYPE IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Rain Shortage Areas	Rain Abundant Areas	Post Harvest Technology	Livestock Development	Economical y Important Crops	Any two or more packages
Tigray Region	41577	30404	2065	703	14007	6479
West Tigray Zone	10030	12617	*	-	530	897
Kafta	*	-	-	-	*	-
Tahtay Adiyabo	1465	*	-	-	-	-
Laelay Adiyabo	4519	3233	-	-	485	166
Tahtay Koraro	-	3263	-	-	-	*
Medebay Zana	-	1231	-	-	-	*
Asegede Tsimbela	2090	1615	*	-	-	*
Tselemti	*	2092	*	-	-	*
Welkait	-	-	-	-	-	*
Tsegede	-	1089	-	-	*	*
Central Tigray Zone	16737	7780	*	155	*	1792
Mereb Lehe	1980	-	-	*	*	*
Ahiferom	1964	*	*	-	*	*
Werie Lehe	3616	*	-	-	*	*
Adwa	2131	2004	-	*	*	293
Laelay Maychew	725	1318	*	-	*	*
Tahtay Maychew	*	*	*	-	-	-
Naeder Adet	2215	2277	-	*	-	1208
Kola Temben	*	842	*	*	-	*
Degua Temben	*	*	-	-	-	-
Tanqu Abergele	825	-	-	-	-	-
East Tigray Zone	7093	1697	*	*	2922	1075
Gulumahada	1836	*	-	*	*	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	911	*	*	*	*	*
Ganta Afeshum	3080	*	*	*	*	*
Hawzen	*	-	-	-	-	-
Wukro	257	*	*	-	*	-
Atsbi Wenberta	570	*	-	*	701	*
South Tigray Zone	7717	8310	297	196	10097	2716
Seharte Samre	999	*	*	*	*	*
Enderta	*	*	-	-	3171	*
Hintalo Wajirat	851	2073	*	*	*	*
Ambalage	341	*	*	-	2440	*
Endamehoni	1219	1358	-	*	1961	-
Rayaazebo	2885	*	-	-	*	264
Alamata	1001	*	-	*	-	*
Wofla	*	2608	-	-	*	-

TABLE 6.52: NUMBER OF HOLDERS BY REASON FOR NOT BEING COVERED BY EXTENSION PROGRAM IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Reason for not Being Covered by Extension Program					
	Do not Know the Advantage	Shortage of Money	Suspicious of its Efficiency	Program not Available	Insufficient Arable Land	Others
Tigray Region	78865	209925	36952	176096	45703	55187
West Tigray Zone	16335	54325	21131	37723	7797	12765
Kafta	474	1581	880	2546	623	4221
Tahtay Adiyabo	*	6169	4714	2963	445	318
Laelay Adiyabo	1606	8526	400	*	487	743
Tahtay Koraro	1372	6570	540	1214	218	*
Medebay Zana	1237	5537	685	12726	*	1745
Asegede Tsimbela	4056	7763	1144	*	1305	2875
Tselemti	3518	6105	8047	*	2766	*
Welkait	1175	7818	577	12582	1053	1256
Tsegede	2673	4257	4144	2448	729	342
Central Tigray Zone	17089	62658	2806	82830	11849	16678
Mereb Lehe	211	4304	*	11485	443	365
Ahiferom	2055	7384	488	12528	2005	6076
Werie Lehe	2923	8348	754	8514	2910	*
Adwa	*	9418	*	7118	-	*
Laelay Maychew	1203	5422	*	4766	268	478
Tahtay Maychew	1865	4712	*	6142	823	3083
Naeder Adet	2966	4248	294	6297	1490	1020
Kola Temben	2843	10100	*	7605	3134	583
Degua Temben	*	4240	*	15106	487	264
Tanqu Abergele	1084	4482	784	3269	*	3896
East Tigray Zone	27751	33447	3479	29749	11204	5491
Gulumahada	2277	3818	*	4780	1362	1070
Erob	495	790	90	1393	1164	249
Saesi Tsaedamba	5038	9398	113	2661	2446	*
Ganta Afeshum	2944	1314	*	6991	3578	*
Hawzen	9580	6925	*	3210	632	216
Wukro	2976	5318	968	3094	1277	*
Atsbi Wenberta	4441	5884	965	7620	744	526
South Tigray Zone	17690	59494	9535	25794	14853	20253
Seharte Samre	4712	7890	*	4897	461	2425
Enderata	1653	7797	*	5559	1994	882
Hintalo Wajirat	1804	10828	781	2865	1210	3966
Ambalage	351	5928	699	5906	2222	*
Endamehoni	1385	5982	2424	*	1187	1190
Rayaazebo	1909	3645	1655	2574	1218	7081
Alamata	3924	4211	1798	3537	381	*
Wofla	1952	13212	1160	*	6180	3328

TABLE 6.53: NUMBER OF AGRICULTURAL HOLDERS WHO USE SERVICES  
IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Service Type			
	Credit Service	%	Advisory Service	%
Tigray Region	241758	100.00	323267	100.00
West Tigray Zone	47185	19.52	70838	21.91
Kafta	5019	2.08	3611	1.12
Tahtay Adiyabo	5481	2.27	7522	2.33
Laelay Adiyabo	7884	3.26	10714	3.31
Tahtay Koraro	6673	2.76	7685	2.38
Medebay Zana	8815	3.65	10626	3.29
Asegede Tsimbela	5878	2.43	8225	2.54
Tselemti	5927	2.45	15882	4.91
Welkait	1286	0.53	5235	1.62
Tsegede	222	0.09	1338	0.41
Central Tigray Zone	95984	39.70	102432	31.69
Mereb Lehe	6591	2.73	7345	2.27
Ahiferom	14069	5.82	12217	3.78
Werie Lehe	10417	4.31	12393	3.83
Adwa	6288	2.60	9984	3.09
Laelay Maychew	9592	3.97	6683	2.07
Tahtay Maychew	11309	4.68	11397	3.53
Naeder Adet	11086	4.59	11038	3.41
Kola Temben	10976	4.54	11631	3.60
Degua Temben	11929	4.93	14496	4.48
Tanqu Abergele	3728	1.54	5248	1.62
East Tigray Zone	48171	19.93	67772	20.96
Gulumahada	8336	3.45	10470	3.24
Erob	449	0.19	1399	0.43
Saesi Tsaedamba	9161	3.79	14733	4.56
Ganta Afeshum	9257	3.83	12129	3.75
Hawzen	7533	3.12	12128	3.75
Wukro	7560	3.13	8952	2.77
Atsbi Wenberta	5875	2.43	7962	2.46
South Tigray Zone	50418	20.85	82224	25.44
Seharte Samre	8501	3.52	10634	3.29
Enderta	9715	4.02	10820	3.35
Hintalo Wajirat	10161	4.20	10875	3.36
Ambalage	4950	2.05	9063	2.80
Endamehoni	3689	1.53	8441	2.61
Rayaazebo	2833	1.17	9645	2.98
Alamata	3361	1.39	9651	2.99

TABLE 6.54: NUMBER OF HOLDERS BY SOURCE OF CHEMICAL FERTILIZERS AND COST OF CHEMICAL FERTILIZERS IN RURAL AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Number of Holders by Source of Chemical Fertilizer						Cost of Chemical Fertilizer (Birr/Quintal)	
	Government	Private Organization	Traders	Others	Do not buy	Not Reporting	DAP	UREA
Tigray Region	316920	33385	2671	9160	303406	6278	281.58	217.36
West Tigray Zone	73452	3247	180	*	88153	1171	292.11	224.65
Kafta	1583	*	*	-	8124	*	297.97	248.63
Tahtay Adiyabo	6931	182	*	-	8481	144	297.66	249.55
Laelay Adiyabo	11855	1717	-	*	6810	267	294.61	214.45
Tahtay Koraro	10550	*	*	*	1891	*	290.13	221.69
Medebay Zana	17961	*	*	-	4241	*	294.40	214.86
Asegede Tsimbela	13015	*	*	-	6978	246	288.83	217.89
Tselemti	6141	*	-	-	20963	*	290.56	246.71
Welkait	3786	*	-	-	17906	*	278.10	245.17
Tsegede	1629	*	-	-	12760	*	296.72	231.81
Central Tigray Zone	123532	21038	494	5077	63465	2385	288.49	219.38
Mereb Lehe	9349	523	145	-	7945	105	301.52	246.37
Ahiferom	27218	*	-	-	5426	*	280.19	211.82
Werie Lehe	10339	3654	-	2704	9516	288	297.24	221.46
Adwa	17625	*	134	*	2349	543	282.43	218.43
Laelay Maychew	10664	*	72	*	2478	91	299.21	224.40
Tahtay Maychew	6396	9229	-	-	1674	164	279.85	222.15
Naeder Adet	15544	*	*	*	4765	307	297.79	221.33
Kola Temben	9564	3961	*	-	12318	462	278.71	215.48
Degua Temben	15253	*	*	*	5826	*	293.91	211.06
Tanqu Abergele	1579	1672	*	*	11168	*	284.07	211.55
East Tigray Zone	56932	8205	1044	297	50538	949	271.48	223.79
Gulumahada	8496	1637	82	*	5015	112	279.59	216.30
Erob	*	*	14	-	3515	38	171.19	132.38
Saesi Tsaedamba	11072	*	*	-	11217	*	280.93	229.93
Ganta Afeshum	13832	*	*	-	4866	270	272.53	213.43
Hawzen	11328	2229	629	*	5565	*	255.28	234.03
Wukro	5738	1488	*	-	7130	173	270.18	226.79
Atsbi Wenberta	6457	590	-	-	13231	*	274.94	225.85
South Tigray Zone	63005	895	953	3263	101251	1773	263.36	198.05
Seharte Samre	7187	565	*	2389	12052	*	279.80	210.26
Enderta	8196	*	677	-	12425	-	267.92	210.11
Hintalo Wajirat	10277	*	*	*	16982	538	253.72	199.59
Ambalage	9742	*	-	453	9530	200	280.78	199.73
Endamehoni	4755	*	*	-	11870	*	250.10	198.41
Rayaaazebo	1104	-	-	*	18369	220	236.20	185.58
Alamata	3349	-	*	-	10683	562	233.03	174.77
Wofla	18395	*	-	-	9339	*	259.36	189.30

TABLE 6.55: 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	%
Tigray Region	1187	932	78.52	255	21.48
West Tigray Zone	168	109	64.88	58	34.52
Kafta	88	70	79.55	18	20.45
Tahtay Adiyabo	29	17	58.62	13	44.83
Laelay Adiyabo	3	*	*	*	*
Tahtay Koraro	1	1	100	-	-
Medebay Zana	39	15	38.46	24	61.54
Asegede Tsimbela	-	-	-	-	-
Tselemti	-	-	-	-	-
Welkait	7	*	*	*	*
Tsegede	-	-	-	-	-
Central Tigray Zone	121	75	61.98	47	38.84
Mereb Lehe	-	-	-	-	-
Ahiferom	24	17	70.83	*	*
Werie Lehe	*	*	*	*	*
Adwa	25	10	40	15	60
Laelay Maychew	38	33	86.84	*	*
Tahtay Maychew	2	-	-	2	100
Naeder Adet	-	-	-	-	-
Kola Temben	14	*	*	*	*
Degua Temben	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-
East Tigray Zone	45	26	57.78	19	42.22
Gulumahada	-	-	-	-	-
Erob	-	-	-	-	-
Saesi Tsaedamba	4	4	100	-	-
Ganta Afeshum	2	1	50	1	50
Hawzen	*	-	-	*	*
Wukro	20	13	65	6	30
Atsbi Wenberta	14	7	50	6	42.86
South Tigray Zone	805	683	84.84	122	15.16
Seharte Samre	-	-	-	-	-
Enderta	15	*	*	*	*
Hintalo Wajirat	82	74	90.24	8	9.76
Ambalage	25	21	84	3	12
Endamehoni	49	35	71.43	14	28.57
Rayazebo	77	74	96.1	*	*
Alamata	430	363	84.42	68	15.81
Wofla	127	106	83.46	21	16.54
Mekele Zone	48	40	83.33	*	*
Mekele	48	40	83.33	*	*

TABLE 6.56: NUMBER OF HOLDERS WHO PRACTICE IRRIGATION BY SOURCE OF WATER IN URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Holders who Practice Irrigation in Meher Season					
	River	Lake	Well	Tap Water	Others	Not Stated
Tigray Region	1119	52	56	241	45	69
West Tigray Zone	67	4	14	6	*	*
Kafta	-	-	*	2	-	*
Tahtay Adiyabo	-	-	*	*	-	-
Laelay Adiyabo	3	-	3	-	-	-
Tahtay Koraro	47	-	-	2	*	1
Medebay Zana	*	-	*	-	-	*
Asegede Tsimbela	2	2	-	-	-	-
Tselemti	-	*	-	-	-	-
Welkait	*	-	*	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	328	27	8	145	17	32
Mereb Lehe	10	-	-	17	-	-
Ahiferom	153	-	1	*	1	-
Werie Lehe	32	*	-	-	-	*
Adwa	32	8	-	90	-	*
Laelay Maychew	-	*	5	13	16	6
Tahtay Maychew	7	-	-	-	-	-
Naeder Adet	*	-	-	-	-	-
Kola Temben	15	*	*	6	-	*
Degua Temben	-	-	-	-	-	-
Tanqu Abergele	74	-	-	*	-	*
East Tigray Zone	15	-	13	3	7	*
Gulumahada	-	-	-	-	1	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	2	-	3	-	-	-
Ganta Afeshum	3	-	3	1	1	1
Hawzen	*	-	-	-	-	*
Wukro	4	-	*	-	-	*
Atsbi Wenberta	4	-	6	*	5	-
South Tigray Zone	673	20	12	73	12	11
Seharte Samre	9	-	*	-	*	-
Enderta	40	*	-	62	-	-
Hintalo Wajirat	40	*	4	1	-	-
Ambalage	42	2	-	-	*	-
Endamehoni	11	-	-	6	*	*
Rayaazebo	18	-	-	1	-	-
Alamata	471	10	3	-	-	10
Wofla	41	-	2	3	-	-
Mekele Zone	37	*	*	14	*	-
Mekele	37	*	*	14	*	-

TABLE 6.57: NUMBER OF HOLDERS PARTICIPATING IN CROP SPECIFIC EXTENSION PACKAGE AND AREA UNDER CROP SPECIFIC EXTENSION PACKAGE FOR RURAL AREAS IN MEHER SEASON

Geographic Area	All crops		Teff		Barley		Wheat	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Tigray Region	80935	26527	36881	9877	27996	3936	33860	5604
West Tigray Zone	21466	8509	11014	3957	359	119	576	162
Kafta	449	179	250	54	-	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-	-
Laelay Adiyabo	5485	2270	2208	1045	-	-	*	*
Tahtay Koraro	2549	941	1580	579	*	*	-	-
Medebay Zana	5733	2113	3988	1243	-	-	-	-
Asegede Tsembela	3078	1109	1701	610	-	-	-	-
Tselemti	1922	1154	*	*	-	-	-	-
Welkait	687	214	284	101	*	*	*	*
Tsegede	880	356	185	*	316	105	526	153
Central Tigray Zone	23500	6887	15448	3676	6801	622	7939	1199
Mereb Lehe	4925	1118	3267	563	793	35	*	*
Ahiferom	2313	604	1410	*	589	*	1368	199
Werie Lehe	1843	613	1091	*	1126	*	969	*
Adwa	3673	639	2765	332	1796	86	1913	103
Laelay Maychew	1014	240	623	166	143	*	292	41
Tahtay Maychew	827	118	404	54	*	*	92	*
Naeder Adet	2319	503	1749	336	313	*	-	-
Kola Temben	2516	*	2046	*	*	*	*	*
Degua Temben	3925	1283	2003	379	1575	189	2850	628
Tanqu Abergele	144	*	91	*	-	-	-	-
East Tigray Zone	19512	4554	4481	587	14223	1594	15227	1813
Gulumahada	3951	763	*	*	2467	236	3811	501
Erob	52	6	-	-	47	5	21	*
Saesi Tsaedamba	5318	1283	1681	212	4366	465	3499	341
Ganta Afeshum	3374	504	487	33	2552	220	2834	193
Hawzen	2854	715	966	119	2237	243	2188	204
Wukro	1934	729	712	140	1199	200	1450	332
Atsbi Wenberta	2029	554	*	*	1355	227	1424	241
South Tigray Zone	16458	6578	5937	1657	6613	1600	10118	2430
Seharte Samre	1616	687	*	*	*	*	*	291
Enderta	1918	*	*	193	*	*	1153	*
Hintalo Wajirat	4853	2189	2868	824	1747	416	3545	897
Ambalage	2518	642	777	110	836	136	1334	308
Endamehoni	1365	317	*	*	635	84	972	184
Rayaazebo	1009	646	297	132	-	-	*	*
Alamata	*	250	346	101	*	*	*	*
Wofla	2433	523	*	*	874	126	1566	272

TABLE 6.57 CONTD.

Geographic Area	Maize		Sorghum		Rice		Field peas	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Tigray Region	20524	3864	8579	2460	-	-	2094	160
West Tigray Zone	10642	2783	3868	1274	-	-	-	-
Kafta	*	*	117	29	-	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-	-
Lalay Adiyabo	3988	1078	501	*	-	-	-	-
Tahtay Koraro	1456	346	*	*	-	-	-	-
Medebay Zana	3501	825	208	30	-	-	-	-
Asegede Tsimbela	305	*	1204	424	-	-	-	-
Tselemti	*	*	952	*	-	-	-	-
Welkait	*	*	274	90	-	-	-	-
Tsegede	*	*	*	*	-	-	-	-
Central Tigray Zone	5973	810	3009	482	-	-	199	11
Mereb Lehe	1526	127	2027	360	-	-	-	-
Ahiferom	267	*	*	*	-	-	*	*
Werie Lehe	*	*	-	-	-	-	-	-
Adwa	943	*	*	*	-	-	-	-
Lalay Maychew	256	8	70	*	-	-	*	*
Tahtay Maychew	*	*	*	*	-	-	-	-
Naeder Adet	906	130	237	*	-	-	-	-
Kola Temben	*	*	247	35	-	-	-	-
Degua Temben	280	33	*	*	-	-	*	*
Tanqu Abergele	*	*	*	*	-	-	-	-
East Tigray Zone	3051	204	558	94	-	-	1366	94
Gulumahada	129	*	*	*	-	-	*	*
Erob	*	*	-	-	-	-	*	*
Saesi Tsaedamba	1837	130	*	*	-	-	706	56
Ganta Afeshum	*	*	*	*	-	-	415	*
Hawzen	429	32	429	73	-	-	*	*
Wukro	120	10	*	*	-	-	-	-
Atsbi Wenberta	*	*	-	-	-	-	149	7
South Tigray Zone	858	67	1145	610	-	-	529	55
Seharte Samre	151	*	*	*	-	-	-	-
Enderta	*	*	-	-	-	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	*	*
Ambalage	*	*	-	-	-	-	179	*
Endamehoni	*	*	-	-	-	-	*	*
Rayaaazebo	*	*	781	496	-	-	-	-
Alamata	-	-	*	*	-	-	*	*
Wofla	*	*	*	*	-	-	*	*

TABLE 6.57: CONTD.

Geographic Area	Haricot beans		Chick peas		Lentils		Neug	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Tigray Region	206	*	1054	142	905	99	651	37
West Tigray Zone	-	-	*	*	-	-	180	*
Kafta	-	-	-	-	-	-	*	*
Tahtay Adiyabo	-	-	*	*	-	-	-	-
Laelay Adiyabo	-	-	*	*	-	-	-	-
Tahtay Koraro	-	-	*	*	-	-	-	-
Medebay Zana	-	-	-	-	-	-	*	*
Asegede	-	-	-	-	-	-	*	*
Tselemti	-	-	-	-	-	-	*	*
Welkait	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-
Central Tigray Zone	160	*	219	33	174	*	375	11
Mereb Lehe	*	*	*	*	-	-	*	*
Ahiferom	-	-	-	-	*	*	-	-
Werie Lehe	-	-	-	-	-	-	-	-
Adwa	-	-	*	*	*	*	*	*
Laelay Maychew	*	*	*	*	-	-	119	*
Tahtay Maychew	-	-	*	*	-	-	-	-
Naeder Adet	*	*	*	*	-	-	*	*
Kola Temben	-	-	-	-	-	-	-	-
Degua Temben	-	-	*	*	*	*	-	-
Tanqu Abergele	*	*	-	-	-	-	-	-
East Tigray Zone	*	*	527	65	330	24	*	*
Gulumahada	-	-	*	*	*	*	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	*	*	*	*	-	-
Ganta Afeshum	*	*	-	-	*	*	-	-
Hawzen	-	-	264	35	-	-	*	*
Wukro	-	-	*	*	*	*	-	-
Atsbi Wenberta	-	-	-	-	*	*	-	-
South Tigray Zone	*	*	246	29	401	68	*	*
Seharte Samre	-	-	*	*	-	-	-	-
Enderta	-	-	*	*	-	-	-	-
Hintalo Wajirat	-	-	*	*	*	*	-	-
Ambalage	-	-	*	*	*	*	-	-
Endamehoni	-	-	*	*	-	-	-	-
Rayaazebo	*	*	-	-	-	-	-	-
Alamata	-	-	-	-	*	*	*	*
Wofla	-	-	*	*	-	-	-	-

TABLE 6.57: CONTD

Geographic Area	Linseed		Ground nuts		Sesame		Rapeseed	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Tigray Region	818	64	-	-	102	*	*	*
West Tigray Zone	*	*	-	-	*	*	-	-
Kafta	-	-	-	-	*	*	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	*	*	-	-	-	-	-	-
Central Tigray Zone	189	10	-	-	*	*	-	-
Mereb Lehe	*	*	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-	-
Adwa	*	*	-	-	-	-	-	-
Laelay Maychew	-	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-
Degua Temben	*	*	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	*	*	-	-
East Tigray Zone	530	44	-	-	-	-	*	*
Gulumahada	*	*	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	-	-	-	-	-	-
Ganta Afeshum	*	*	-	-	-	-	*	*
Hawzen	*	*	-	-	-	-	-	-
Wukro	*	*	-	-	-	-	-	-
Atsbi Wenberta	*	*	-	-	-	-	-	-
South Tigray Zone	*	*	-	-	-	-	-	-
Seharte Samre	-	-	-	-	-	-	-	-
Enderta	-	-	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-
Ambalage	*	*	-	-	-	-	-	-
Endamehoni	*	*	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-
Wofla	*	*	-	-	-	-	-	-

TABLE 6.57: CONTD

Geographic Area	Other Grains		Tomatoes		Red Pepper		Onions	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Tigray Region	*	*	671	15	949	*	911	*
West Tigray Zone	-	-	*	*	515	*	*	*
Kafta	-	-	-	-	*	*	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	*	*	192	2	*	*
Tahtay Koraro	-	-	*	*	*	*	*	*
Medebay Zana	-	-	-	-	*	*	*	*
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	*	*	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-
Central Tigray Zone	-	-	*	*	357	*	181	*
Mereb Lehe	-	-	*	*	*	-	-	-
Ahiferom	-	-	-	-	-	-	*	*
Werie Lehe	-	-	-	-	-	-	*	*
Adwa	-	-	-	-	*	*	*	*
Laelay Maychew	-	-	-	-	-	-	-	-
Tahtay Maychew	-	-	*	*	*	*	*	*
Naeder Adet	-	-	-	-	*	*	-	-
Kola Temben	-	-	*	*	*	*	-	-
Degua Temben	-	-	-	-	-	-	*	*
Tanqu Abergele	-	-	-	-	-	-	-	-
East Tigray Zone	-	-	*	*	*	*	380	5
Gulumahada	-	-	-	-	*	*	*	*
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	*	*	-	-	*	*
Ganta Afeshum	-	-	*	*	-	-	*	*
Hawzen	-	-	*	*	-	-	-	-
Wukro	-	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	*	*	-	-	*	*
South Tigray Zone	*	*	*	*	*	*	251	*
Seharte Samre	-	-	-	-	-	-	-	-
Enderta	-	-	*	*	*	*	*	*
Hintalo Wajirat	-	-	*	*	*	*	-	-
Ambalage	-	-	-	-	-	-	*	*
Endamehoni	-	-	-	-	*	*	*	*
Rayaazebo	-	-	-	-	-	-	-	-
Alamata	*	*	-	-	-	-	*	*
Wofla	-	-	-	-	-	-	-	-

TABLE 6.57: CONTD

Geographic Area	Potatoes		Sweet potatoes		Enset		Other Permanent	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Tigray Region	1381	41	*	*	-	-	-	-
West Tigray Zone	-	-	-	-	-	-	-	-
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-
Central Tigray Zone	*	*	*	*	-	-	-	-
Mereb Lehe	-	-	-	-	-	-	-	-
Ahiferom	*	*	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-	-
Adwa	-	-	-	-	-	-	-	-
Laelay Maychew	-	-	-	-	-	-	-	-
Tahtay Maychew	-	-	*	*	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-
Degua Temben	*	*	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-
East Tigray Zone	984	24	-	-	-	-	-	-
Gulumahada	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	676	*	-	-	-	-	-	-
Ganta Afeshum	*	*	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-
Wukro	*	*	-	-	-	-	-	-
Atsbi Wenberta	121	*	-	-	-	-	-	-
South Tigray Zone	*	16	-	-	-	-	-	-
Seharte Samre	*	*	-	-	-	-	-	-
Enderta	*	*	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-	-
Endamehoni	*	*	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-	-



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			Fertilizer Applied			Pesticide Applied		
	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V
TOTAL	6295	444	7	10633	1566	15	241649	7931	3	8224	740	9
Grains Crops	6111	442	7	9318	1532	16	238752	7828	3	8175	739	9
Cereals	5895	439	7	8449	1490	18	228134	7733	3	7580	707	9
Teff	1000	140	14	2410	471	20	64494	2566	4	3013	425	14
Barley	698	94	13	683	131	19	27128	931	3	1523	163	11
Wheat	3019	337	11	1224	179	15	31041	1250	4	1874	213	11
Maize	456	71	16	1072	179	17	39750	2994	8	534	93	17
Sorghum	482	96	20	2940	872	30	37102	1952	5	227	52	23
Millet	240	47	20	118	34	29	28567	2569	9	392	94	24
Oats	-	-	-	3	3	95	52	19	37	18	15	82
Rice	-	-	-	-	-	-	-	-	-	-	-	-
Pulse	162	29	18	860	139	16	8333	367	4	576	138	24
Horse beans	89	24	27	223	44	20	4599	257	6	168	35	21
Field peas	7	3	48	80	31	39	736	81	11	31	14	43
Haricot beans	23	11	46	1	1	80	268	65	24	292	130	45
Chick peas	20	9	43	387	85	22	1578	164	10	51	20	39
Lentiles	12	5	40	125	51	41	419	52	12	7	4	58
Vetch	4	4	90	35	18	52	632	88	14	26	11	43
Soya	3	3	105	-	-	-	17	9	54	-	-	-
Fenugreek	4	3	75	9	4	49	86	18	21	-	-	99
Gibto	-	-	-	-	-	-	-	-	-	-	-	-
Oil seed	52	20	38	6	3	48	2240	396	18	19	9	45
Nueg	10	5	48	1	1	103	567	220	39	6	4	68
Linseed	8	4	44	6	3	53	376	56	15	5	3	49
Ground nuts	-	-	-	-	-	-	3	3	90	-	-	-
Sunflower	7	4	64	-	-	-	19	7	37	-	-	-
Sesame	25	18	74	-	-	-	1260	324	26	7	7	98
Rapeseed	2	2	95	-	-	-	15	5	34	-	-	-
Other Grain	2	2	78	3	1	39	45	13	29	-	-	-
Vegetables	34	11	33	156	21	13	1041	394	38	7	4	55
Lettuce	5	3	59	7	3	46	5	2	44	-	-	-
Cabbage	4	2	50	13	6	41	7	2	33	-	-	-
Kale	1	-	87	2	1	50	9	5	62	-	-	-
Tomatoes	10	4	41	34	7	19	49	9	19	2	2	93
Green pepper	9	6	65	33	8	25	118	14	12	1	-	54
Red paper	1	1	48	60	13	22	437	86	20	5	4	81
Swiss chard	4	2	53	6	2	40	5	2	31	-	-	66
Others	-	-	98	-	-	55	411	384	93	-	-	97
Root Crops	53	24	46	298	43	15	409	48	12	7	3	43
Beet root	1	1	86	5	3	63	1	1	89	-	-	-
Carrot	15	9	63	34	13	39	19	7	36	-	-	94
Onion	23	18	80	151	29	19	124	25	20	1	1	81
Potatoes	12	5	40	51	16	31	164	30	18	2	2	81
Garlic	1	1	58	47	10	22	70	10	14	-	-	68
Godere	-	-	-	-	-	-	-	-	-	-	-	-
Sweet potatoes	1	-	63	1	1	97	1	1	54	-	-	-
Others	-	-	-	9	6	62	30	11	36	3	2	68
Permanet crops	97	41	43	861	157	18	1448	197	14	34	16	46
Fruit Crops	87	40	46	261	63	24	834	95	11	22	15	68
Avocado	1	1	58	1	1	60	2	1	58	-	-	-
Bannas	1	1	60	76	38	50	43	25	58	-	-	94
Guava(Zeytuna)	56	38	68	79	39	50	15	5	36	2	2	81
Lemons	2	1	54	18	5	27	23	7	30	-	-	92
Mangos	2	1	66	2	1	59	1	-	49	-	-	-
Oranges	6	3	42	25	8	33	10	3	35	-	-	58
Papayas	8	3	42	19	5	25	22	15	66	15	15	96
Pineapples	-	-	-	-	-	-	-	-	-	-	-	-
Others	11	5	43	39	8	21	719	88	12	4	3	62
Stimulant Crop	9	4	50	596	124	21	584	162	28	12	4	39
Chat	-	-	-	107	81	75	38	21	56	6	4	67
Coffee	9	4	50	113	49	43	23	8	36	1	1	64
Gesho.	-	-	-	376	66	18	523	160	31	4	2	47
Others	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	2	1	65	4	2	51	30	10	34	1	-	86
Enset	-	-	-	-	-	98	-	-	98	-	-	-
Sugar Cane	-	-	-	3	2	61	1	1	87	-	-	-
Others	2	1	65	1	-	54	29	10	34	1	-	86

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			Fertilizer Applied			Pesticide Applied		
	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V	Hectare	S.E	C.V
TOTAL	470	29	6	627	43	7	3692	132	4	682	48	7
Grains Crops	428	28	6	387	30	8	3583	129	4	648	46	7
Cereals	399	21	5	375	30	8	3429	123	4	617	45	7
Teff	127	11	8	81	7	9	1365	49	4	331	28	8
Barley	25	4	14	10	3	27	366	22	6	59	10	18
Wheat	159	12	7	19	3	14	423	21	5	83	9	10
Maize	34	7	20	97	16	16	369	50	13	13	2	15
Sorghum	35	7	20	166	14	9	566	64	11	87	24	28
Millet	19	6	29	2	1	48	340	28	8	44	17	40
Oats	-	-	-	-	-	-	-	-	-	-	1	42
Rice	-	-	-	-	-	-	-	-	-	-	-	-
Pulse	7	1	8	11	2	18	133	18	14	16	2	13
Horse beans	1	-	13	2	1	34	83	17	20	9	1	13
Field peas	4	-	-	1	1	54	10	1	14	1	-	36
Haricot beans	-	-	-	-	-	-	1	1	81	1	1	81
Chick peas	-	-	61	8	2	23	18	4	25	2	1	45
Lentiles	-	-	43	-	-	83	6	2	36	-	-	88
Vetch	2	1	34	-	-	-	9	1	14	2	1	31
Soya	-	-	-	-	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	6	2	31	1	1	89
Gibto	-	-	-	-	-	-	-	-	-	-	-	-
Oile seed	22	18	81	-	-	82	14	4	28	14	3	25
Nueg	-	-	-	-	-	-	-	-	48	-	-	-
Linseed	-	-	-	-	-	89	6	3	42	-	1	116
Ground nuts	-	-	-	-	-	-	2	2	85	-	-	-
Sunflower	-	-	-	-	-	-	-	-	-	-	-	-
Sesame	22	18	83	-	-	82	5	2	40	13	3	25
Rapeseed.	-	-	-	-	-	-	-	-	-	-	-	-
Other Grain	-	-	-	1	-	-	7	4	52	1	1	88
Vegetables.	8	5	64	25	7	30	30	13	42	2	-	19
Lettuce	3	1	51	3	1	47	3	1	53	1	-	29
Cabbage	-	-	-	3	1	51	-	-	46	-	-	-
Kale	-	-	-	-	-	-	-	-	-	-	-	-
Tomatoes	1	1	88	7	5	74	7	5	77	-	-	-
Green pepper	-	-	53	1	-	10	-	-	2	-	-	-
Red paper	-	-	-	3	2	46	17	11	65	-	-	-
Swiss chard	4	3	69	7	3	39	4	3	67	1	-	-
Others	-	-	80	-	-	-	-	-	-	-	-	-
Root Crops	4	1	40	22	11	49	22	11	50	3	1	42
Beet root	-	-	91	1	-	2	-	-	62	-	-	-
Carrot	-	-	-	4	4	88	4	4	88	-	-	-
Onion	4	1	40	12	3	28	11	3	31	3	1	42
Potatoes	-	-	-	2	2	77	3	2	64	-	-	-
Garlic	-	-	-	3	3	85	3	3	84	-	-	-
Godere	-	-	-	-	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	82	-	-	-
Permanet crops	31	7	24	194	27	14	57	13	23	29	14	49
Fruit Crops	17	5	29	96	13	14	27	8	29	10	6	65
Avocado	-	-	59	-	-	34	-	-	45	-	-	-
Bannas	1	-	10	11	4	41	-	-	41	-	-	-
Guava(Zeytuna)	6	4	62	45	9	21	3	2	71	-	-	58
Lemons	2	-	13	7	2	32	1	-	38	-	-	76
Mangos	1	1	64	2	1	31	2	1	44	-	-	-
Oranges	4	2	50	15	3	23	9	3	31	1	1	89
Papayas	3	1	41	10	3	33	9	3	35	6	3	50
Pineapples	-	-	87	-	-	87	-	-	90	-	-	-
Others	-	-	48	5	2	46	3	2	70	3	2	89
Stimulant Crop	13	4	29	98	19	20	30	9	30	19	13	67
Chat	-	-	-	21	13	64	5	4	82	16	13	78
Coffee	6	-	5	39	8	21	12	3	27	3	-	-
Gesho.	8	4	49	38	10	27	13	6	48	-	-	60
Others	-	-	-	-	-	-	-	-	-	-	-	-
Other Permanent	-	-	-	-	-	63	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-	-	-	-	-
Sugar Cane	-	-	-	-	-	64	-	-	-	-	-	-
Others	-	-	-	-	-	48	-	-	-	-	-	-

## **APPENDIXES**

**APPENDIX I** - Estimation Procedures of Totals , Ratios and  
Sampling Errors

**APPENDIX II** - Number of EAs and Agricultural Households  
Sampled and Covered by Wereda

**APPENDIX III** - Census Questionnaires



## APPENDIX I:

### Estimation Procedures of Totals, Ratios and Sampling Errors

The following formulas were used to estimate total land under specific crop, production and yield of specific crop, and totals (for other variables) in a stratum (Wereda).

#### 1. Estimation of Total Area of Land under Specific Crop:

$$\hat{A}_h = \sum_{i=1}^{n_h} W_{hi} a_{hi}$$

in which,  $W_{hi} = \frac{M_h H_{hi}}{n_h m_{hi} h_{hi}}$  is the basic weight

Where:

$h$  represents the stratum

$n_h$  is the total number of sample EAs successfully covered in the  $h^{\text{th}}$  stratum.

$M_h$  is the measure of size of the  $h^{\text{th}}$  stratum as obtained from the sampling frame.

$m_{hi}$  is the measure of size of the  $i^{\text{th}}$  sample EA in the  $h^{\text{th}}$  stratum obtained from the sampling frame.

$H_{hi}$  is the total number of agricultural households of the  $i^{\text{th}}$  sample EA in the  $h^{\text{th}}$  stratum.

$h_{hi}$  is number of sample agricultural households successfully covered in the  $i^{\text{th}}$  sample EA in the  $h^{\text{th}}$  stratum.

$a_{hi}$  is the sample total of values of area in the  $i^{\text{th}}$  EA in the  $h^{\text{th}}$  stratum under a specific crop.

$\hat{A}_h$  is estimate of total area under specific crop in the  $h^{\text{th}}$  stratum.

#### 2. Estimation of Total Production:

$$\hat{P}_h = \sum_{i=1}^{n_h} W_{hi} P_{hi}$$

in which,  $P_{hi} = a_{hi} * \bar{Y}_{hi}$

Where,  $\bar{Y}_{hi}$  is average yield per square meter of a specific crop in the  $i^{\text{th}}$  EA in the  $h^{\text{th}}$  stratum as defined in the table below for different crops.

Crop	Formula for $\bar{Y}_{hi}$
Cereals, pulses, oilseeds, chat and coffee	$\bar{Y}_{hi} = \frac{Y_{hi}}{16C_{hi}}$
Pineapple	$\bar{Y}_{hi} = \frac{Y_{hi}}{4C_{hi}}$
Root-crops and vegetables (broadcast type), and sugar cane	$\bar{Y}_{hi} = \frac{Y_{hi}}{C_{hi}}$
Root-crops and vegetables (row type)	$\bar{Y}_{hi} = \frac{Y_{hi}}{d_{hi} * C_{hi}}$
Other permanent crops	$\bar{Y}_{hi} = \frac{Y_{hi}}{b_{hi} * C_{hi}}$

Where,  $d_{hi}$  is average sample area of root crop or vegetable (row type) used for crop-cutting in the

$$i^{\text{th}} \text{ EA in the } h^{\text{th}} \text{ stratum, or } d_{hi} = \frac{r}{n-1}$$

$r$  is distance measured from Row 1 to Row  $n$  in meter.

$n$  is number of rows ( $2 \leq n \leq 5$ ).

$b_{hi}$  is average area of a fruit bearing tree in the  $i^{\text{th}}$  EA in the  $h^{\text{th}}$  stratum.

$Y_{hi}$  is sampled total of production of a specific crop from defined area of land for crop cutting of crop in the  $i^{\text{th}}$  EA in the  $h^{\text{th}}$  stratum.

$C_{hi}$  is number of crop cutting of a specific crop in the  $i^{\text{th}}$  EA in the  $h^{\text{th}}$  stratum.

$\bar{Y}_{hi}$  is average yield per square meter of a specific crop in the  $i^{\text{th}}$  EA in the  $h^{\text{th}}$  stratum.

$P_{hi}$  is estimate of total production of a specific crop in the  $i^{\text{th}}$  EA in the  $h^{\text{th}}$  stratum.

$\hat{P}_h$  is estimate of total production quantity of a specific crop in the  $h^{\text{th}}$  stratum.

### 3. Estimate of Yield of a Specific Crop in Stratum $h$ is given by:

$$\hat{Y}_h = \frac{\hat{P}_h}{\hat{A}_h}$$

### 4. Estimation of Totals (Livestock, Agricultural practices, etc.)

$$\hat{y}_h = \sum_{i=1}^{n_h} \frac{M_h H_{hi}}{n_h h_{hi}} \hat{y}_{hi}$$

### 5. Sampling Variance of Estimates:

Sampling variance of estimate of stratum total of area, production and yield for a specific crop, and totals for other variables are estimated by the following formulas, respectively.

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

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

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

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

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

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

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

$f_{hi} = \frac{h_{hi}}{H_{hi}}$  = average second stage probability of selection within the  $i^{\text{th}}$  sample EA in

Wereda  $h$ .

Since all strata are independent, the total variance at zonal and regional is computed by aggregating the result obtained at wereda level, i.e.

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

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

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

## 6. Coefficient of Variation (CV) of Estimates:

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

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

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

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

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

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

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

**APPENDIX II**

**Number of EAs and Agricultural Households Sampled and Covered by Wereda (Rural)**

ZONE	WEREDA	EAs		HOUSEHOLDS	
		SAMPLED	COVERED	SAMPLED	COVERED
WESTERN TIGRAY	KAFTA	25	25	750	750
	TAHTAY ADIYABO	25	25	750	749
	LAELAY ADIYABO	25	24	750	720
	TAHTAY KORARO	25	25	750	750
	MEDEBAY ZANA	25	25	750	750
	ASEGEDE TSIMBILA	25	25	750	749
	TSELEMTI	25	25	750	750
	WELKAYIT	25	25	750	749
	TSEGEDE	25	25	750	750
	<b>ZONE TOTAL</b>		<b>225</b>	<b>224</b>	<b>6750</b>
CENTRAL TIGRAY	MEREB LEHE	25	25	750	750
	AHIFEROM	25	25	750	750
	WERE LEHE	25	25	750	750
	ADWA	25	25	750	750
	LAELAY MAYCHEW	25	25	750	750
	TAHTAY MAYCHEW	25	25	750	750
	NAEDER ADET	25	25	750	750
	KOLA TEMBEN	25	25	750	748
	DEGUA TEMBEN	25	25	750	750
	TANQUA ABERGELE	25	25	750	750
<b>ZONE TOTAL</b>		<b>250</b>	<b>250</b>	<b>7500</b>	<b>7498</b>
EASTERN TIGRAY	GULO MEHADA	25	25	750	750
	EROB	25	25	750	749
	SAWSI TSADA AMBA	25	25	750	750
	GANTA AFESHUM	25	25	750	750
	HAWZEN	25	25	750	750

ZONE	WEREDA	EAs		HOUSEHOLDS	
		SAMPLED	COVERED	SAMPLED	COVERED
	WUKRO	25	25	750	750
	ATSBI WENBERTA	25	25	750	748
	<b>ZONE TOTAL</b>	<b>175</b>	<b>175</b>	<b>5250</b>	<b>5247</b>
<b>SOUTHERN TIGRAY</b>	SEHARTI SAMIRE	25	25	750	750
	ENDERTA	25	25	750	750
	HINTALO WAJIRAT	25	25	750	750
	AMBALAGHE	25	25	750	750
	ENDAMEHONI	25	25	750	750
	RAYA AZEBO	25	25	750	750
	ALAMATA	25	25	750	749
	WOFLA	25	25	750	749
	<b>ZONE TOTAL</b>	<b>200</b>	<b>200</b>	<b>6000</b>	<b>5998</b>
	<b>REGION TOTAL</b>	<b>850</b>	<b>849</b>	<b>25500</b>	<b>25460</b>

**Number of EAs and Agricultural Households Sampled and Covered by  
Wereda (Urban)**

ZONE	WEREDA	EAs		HOUSEHOLDS	
		SAMPLED	COVERED	SAMPLED	COVERED
WESTERN TIGRAY	KAFTA	22	22	623	623
	TAHTAY ADIYABO	20	20	598	598
	LAELAY ADIYABO	9	9	255	255
	TAHTAY KORARO	20	20	380	380
	MEDEBAY ZANA	11	11	298	298
	ASEGEDE TSIMBILA	12	12	317	317
	TSELEMTI	9	9	257	257
	WELKAYIT	8	8	240	240
	TSEGEDE	1	1	30	30
	<b>ZONE TOTAL</b>		<b>112</b>	<b>112</b>	<b>2998</b>
CENTRAL TIGRAY	MEREB LEHE	9	9	270	270
	AHIFEROM	10	10	257	257
	WERE LEHE	5	5	150	150
	ADWA	15	15	400	400
	LAELAY MAYCHEW	25	25	680	680
	TAHTAY MAYCHEW	6	6	179	179
	NAEDER ADET	3	3	90	90
	KOLA TEMBEN	13	13	351	351
	DEGUA TEMBEN	6	6	180	180
	TANQUA ABERGELE	3	3	90	90
<b>ZONE TOTAL</b>		<b>95</b>	<b>95</b>	<b>2647</b>	<b>2647</b>
EASTERN TIGRAY	GULO MEHADA	5	5	61	61
	EROB	1	1	30	30
	SAWSI TSADA AMBA	13	13	283	282
	GANTA AFESHUM	21	21	380	380
	HAWZEN	6	6	162	161

ZONE	WEREDA	EAs		HOUSEHOLDS	
		SAMPLED	COVERED	SAMPLED	COVERED
	WUKRO	17	17	373	373
	ATSBI WENBERTA	8	8	206	205
	<b>ZONE TOTAL</b>	<b>71</b>	<b>71</b>	<b>1495</b>	<b>1492</b>
<b>SOUTHERN TIGRAY</b>	SEHARTI SAMIRE	5	5	150	150
	ENDERTA	12	12	272	272
	HINTALO WAJIRAT	9	9	245	245
	AMBALAGHE	10	10	239	238
	ENDAMEHONI	21	21	448	442
	RAYA AZEBO	13	13	337	337
	ALAMATA	25	25	674	664
	WOFLA	20	20	471	471
	<b>ZONE TOTAL</b>	<b>115</b>	<b>115</b>	<b>2836</b>	<b>2819</b>
	<b>MEKELE ZONE</b>	<b>25</b>	<b>25</b>	<b>446</b>	<b>431</b>
	<b>REGION TOTAL</b>	<b>418</b>	<b>418</b>	<b>10422</b>	<b>10387</b>

## **APPENDIX III**

TABLE 6.26.2: URBAN HOLDINGS

Geographic Area	Stimulant Crops							
	Application of Total Fertilizers		Type of Fertilizer Applied					
			Natural		Chemical		Natural and Chemical	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Tigray Region	159	30	102	20	46	1	10	*
West Tigray Zone	3	1	1	1	*	*	-	-
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Lalay Adiyabo	*	*	-	-	*	*	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-
Asegede Tsimbela	1	1	1	1	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-
CentralTigray Zone	92	23	49	14	*	*	10	*
Mereb Lehe	*	*	-	-	*	*	*	*
Ahiferom	*	*	*	*	*	*	-	-
Werie Lehe	*	*	*	*	-	-	*	*
Adwa	28	1	26	1	-	-	*	*
Lalay Maychew	2	1	-	-	-	-	2	1
Tahtay Maychew	-	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	*	6	2	6	*	*	-	-
Degua Temben	-	-	-	-	-	-	-	-
Tanqu Abergele	*	*	*	*	-	-	-	-
East Tigray Zone	3	*	3	*	-	-	-	-
Gulumahada	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsadamba	-	-	-	-	-	-	-	-
Ganta Afeshum	3	*	3	*	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-
South Tigray Zone	61	6	49	6	*	-	-	-
Seharte Samre	-	-	-	-	-	-	-	-
Enderta	44	*	44	*	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-
Ambalage	*	*	-	-	*	*	-	-
Endamehoni	1	3	1	3	-	-	-	-
Rayaazebo	1	3	1	3	-	-	-	-
Alamata	*	*	*	*	-	-	-	-
Wofla	1	-	-	-	1	-	-	-
Mekele Zone	-	-	-	-	-	-	-	-
Mekele	-	-	-	-	-	-	-	-

TABLE 6.26.1c:CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	333	2	*	4002	117	103
West Tigray Zone	*	*	-	370	*	*
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	*	*	*
Tahtay Koraro	-	-	-	*	*	-
Medebay Zana	*	*	-	*	*	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	*	*	-	-	-	-
CentralTigray Zone	155	*	*	2595	95	67
Mereb Lehe	-	-	-	-	-	-
Ahiferom	*	*	*	1350	*	44
Werie Lehe	-	-	-	*	*	*
Adwa	*	*	-	*	*	*
Laelay Maychew	-	-	-	*	*	*
Tahtay Maychew	-	-	-	250	*	*
Naeder Adet	-	-	-	583	*	*
Kola Temben	-	-	-	*	*	-
Degua Temben	-	-	-	*	*	-
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	*	*	*	618	7	*
Gulumahada	-	-	-	*	*	*
Erob	-	-	-	-	-	-
Sacsi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	543	7	*
Hawzen	*	*	-	-	-	-
Wukro	*	*	*	*	*	*
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	*	*
Seharte Samre	*	*	*	-	-	-
Enderta	-	-	-	-	-	-
Hintalo Wajirat	*	*	*	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	*	*	*

TABLE 6.26.1c: Hops

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	31929	523	27838	402	*	*	*
West Tigray Zone	5422	51	4955	42	*	*	*
Kafta	623	3	623	3	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	660	*	528	*	*	*	*
Tahtay Koraro	996	7	839	6	-	-	-
Medebay Zana	1048	9	888	8	-	-	-
Asegede Tsimbela	283	*	283	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	1183	11	1166	11	-	-	-
Central Tigray Zone	12406	360	9865	263	*	*	*
Mereb Lehe	*	*	*	*	-	-	-
Ahiferom	5017	*	3667	*	*	*	*
Werie Lehe	1136	7	1020	6	-	-	-
Adwa	1617	11	1366	10	*	*	*
Laelay Maychew	377	1	326	1	-	-	-
Tahtay Maychew	533	5	284	*	-	-	-
Naeder Adet	1491	19	1034	*	-	-	-
Kola Temben	541	*	474	*	-	-	-
Degua Temben	1411	*	1411	*	-	-	-
Tanqu Abergele	154	*	154	*	-	-	-
East Tigray Zone	7369	57	6731	49	-	-	-
Gulumahada	361	1	341	1	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	1121	*	1121	*	-	-	-
Ganta Afeshum	3428	36	2932	29	-	-	-
Hawzen	1078	5	1047	5	-	-	-
Wukro	1247	2	1156	2	-	-	-
Atsbi Wenberta	134	*	134	*	-	-	-
South Tigray Zone	6733	55	6287	47	*	*	*
Seharte Samre	1646	*	1615	*	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	2194	11	2158	11	-	-	-
Ambalage	603	9	577	8	*	*	*
Endamehoni	652	6	652	6	-	-	-
Rayaaazebo	*	*	*	*	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	1456	15	1103	9	-	-	-

TABLE 6.26.1b:CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	*	*	-	162	*	*
West Tigray Zone	-	-	-	*	*	*
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
CentralTigray Zone	*	*	-	*	*	*
Mereb Lehe	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-
Adwa	*	*	-	*	*	*
Laelay Maychew	-	-	-	*	*	-
Tahtay Maychew	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	-	-	-	-	-	-
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	-	-	-	*	*	*
Seharte Samre	-	-	-	-	-	-
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	*	*	*

TABLE 6.26.1b: Coffee

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	1439	23	1251	21	-	-	-
West Tigray Zone	188	*	171	*	-	-	-
Kafta	*	*	*	*	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	*	*	-	-	-
Tahtay Koraro	*	*	*	*	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	*	*	*	*	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	397	*	328	*	-	-	-
Mereb Lehe	-	-	-	-	-	-	-
Ahiferom	*	*	*	*	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	*	*	*	*	-	-	-
Laelay Maychew	*	*	*	*	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-
Naeder Adet	*	*	*	*	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	*	*	*	*	-	-	-
Tanqu Abergele	*	*	*	*	-	-	-
East Tigray Zone	*	*	*	*	-	-	-
Gulumahada	*	*	*	*	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	*	*	*	*	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	769	*	668	*	-	-	-
Seharte Samre	*	*	*	*	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	209	*	209	*	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayaazebo	*	*	*	*	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	*	*	*	*	-	-	-

TABLE 6.26.1a: Chat

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	1181	*	1089	*	-	-	-
West Tigray Zone	*	*	*	*	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	*	*	*	*	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	*	*	*	*	-	-	-
Central Tigray Zone	*	*	*	*	-	-	-
Mereb Lehe	-	-	-	-	-	-	-
Ahiferom	*	*	*	*	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	*	*	*	*	-	-	-
Laelay Maychew	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	-	-	-	-	-	-	-
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	1074	*	999	*	-	-	-
Seharte Samre	-	-	-	-	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-
Ambalage	*	*	*	*	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayaaazebo	*	*	*	*	-	-	-
Alamata	*	*	*	*	-	-	-
Wofla	196	*	*	*	-	-	-

TABLE 6.26.1: CONTD.

Geographic Area	Stimulant Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
Holder	Hectare	Quintal	Holder	Hectare	Quintal	
Tigray Region	382	*	*	4064	120	108
West Tigray Zone	*	*	-	387	*	*
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	*	*	*
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	*	*	-	*	*	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	*	*	-	-	-	-
Central Tigray Zone	180	*	*	2640	95	67
Mereb Lehe	-	-	-	-	-	-
Ahiferom	*	*	*	1350	*	44
Werie Lehe	-	-	-	*	*	*
Adwa	*	*	-	*	*	*
Laelay Maychew	-	-	-	69	*	*
Tahtay Maychew	-	-	-	250	*	*
Naeder Adet	-	-	-	583	*	*
Kola Temben	-	-	-	*	*	-
Degua Temben	-	-	-	*	*	-
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	*	*	*	618	7	*
Gulumahada	-	-	-	*	*	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	543	7	*
Hawzen	*	*	-	-	-	-
Wukro	*	*	*	*	*	*
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	*	*
Seharte Samre	*	*	*	-	-	-
Enderta	-	-	-	-	-	-
Hintalo Wajirat	*	*	*	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaazebo	*	*	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	*	*	*

TABLE 6.26.1: RURAL MEHER

Geographic Area	Stimulant Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
Tigray Region	33229	584	29077	454	*	*	*
West Tigray Zone	5510	54	5026	43	*	*	*
Kafta	634	4	634	4	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	660	*	528	*	*	*	*
Tahtay Koraro	1031	8	856	6	-	-	-
Medebay Zana	1048	9	888	8	-	-	-
Asegede Tsimbela	312	*	312	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	1196	11	1179	11	-	-	-
Central Tigray Zone	12644	368	10059	270	*	*	*
Mereb Lehe	*	*	*	*	-	-	-
Ahiferom	5056	*	3706	*	*	*	*
Werie Lehe	1136	7	1020	6	-	-	-
Adwa	1643	12	1366	11	*	*	*
Laelay Maychew	413	1	344	1	-	-	-
Tahtay Maychew	533	5	284	*	-	-	-
Naeder Adet	1491	19	1034	*	-	-	-
Kola Temben	604	*	537	*	-	-	-
Degua Temben	1485	*	1485	*	-	-	-
Tanqu Abergele	154	*	154	*	-	-	-
East Tigray Zone	7369	57	6731	50	-	-	-
Gulumahada	361	1	341	1	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	1121	*	1121	*	-	-	-
Ganta Afeshum	3428	36	2932	29	-	-	-
Hawzen	1078	5	1047	5	-	-	-
Wukro	1247	2	1156	2	-	-	-
Atsbi Wenberta	134	*	134	*	-	-	-
South Tigray Zone	7706	105	7262	90	*	*	*
Seharte Samre	1646	*	1615	*	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	2311	13	2275	13	-	-	-
Ambalage	603	12	603	11	*	*	*
Endamehoni	1195	*	1195	*	-	-	-
Rayaaazebo	266	*	241	*	-	-	-
Alamata	*	*	*	*	-	-	-
Wofla	1490	19	1137	11	-	-	-

TABEL 6.26: CONTD.

Geographic Area	Stimulant Crops							
	Type of Fertilizer Applied							
	UREA			DAP & UREA			Chemical (Urban)	
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare
Tigray Region	382	*	*	4064	120	108	57	*
West Tigray Zone	*	*	-	387	*	*	*	*
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	*	*	*	*	*
Tahtay Koraro	-	-	-	*	*	*	-	-
Medebay Zana	*	*	-	*	*	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	*	*	-	-	-	-	-	-
Central Tigray Zone	180	*	*	2640	95	67	43	*
Mereb Lehe	-	-	-	-	-	-	*	*
Ahiferom	*	*	*	1350	*	44	*	*
Werie Lehe	-	-	-	*	*	*	*	*
Adwa	*	*	-	*	*	*	*	*
Laelay Maychew	-	-	-	69	*	*	2	1
Tahtay Maychew	-	-	-	250	*	*	-	-
Naeder Adet	-	-	-	583	*	*	-	-
Kola Temben	-	-	-	*	*	-	*	*
Degua Temben	-	-	-	*	*	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	618	7	*	-	-
Gulumahada	-	-	-	*	*	*	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	543	7	*	-	-
Hawzen	*	*	-	-	-	-	-	-
Wukro	*	*	*	*	*	*	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	*	*	*	*
Seharte Samre	*	*	*	-	-	-	-	-
Enderta	-	-	-	-	-	-	-	-
Hintalo Wajirat	*	*	*	-	-	-	-	-
Ambalage	-	-	-	-	-	-	*	*
Endamehoni	-	-	-	-	-	-	-	-
Rayaazebo	*	*	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-
Wofla	-	-	-	*	*	*	1	-
Mekele Zone	-	-	-	-	-	-	-	-
Mekele	-	-	-	-	-	-	-	-

TABLE 6.26: NUMBER OF HOLDER APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Stimulant Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
	Holder	Hectare	Natural		Dap		
			Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	33388	613	29180	474	*	*	*
West Tigray Zone	5512	54	5027	44	*	*	*
Kafta	634	4	634	4	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	662	*	528	*	*	*	*
Tahtay Koraro	1031	8	856	6	-	-	-
Medebay Zana	1048	9	888	8	-	-	-
Asegede Tsimbela	313	*	313	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	1196	11	1179	11	-	-	-
Central Tigray Zone	12736	391	10108	284	*	*	*
Mereb Lehe	*	1	*	*	-	-	-
Ahiferom	5088	*	3714	*	*	*	*
Werie Lehe	1144	21	1025	*	-	-	-
Adwa	1671	13	1392	12	*	*	*
Laelay Maychew	415	2	344	1	-	-	-
Tahtay Maychew	533	5	284	*	-	-	-
Naeder Adet	1491	19	1034	*	-	-	-
Kola Temben	611	14	539	13	-	-	-
Degua Temben	1485	*	1485	*	-	-	-
Tanqu Abergele	163	*	163	*	-	-	-
East Tigray Zone	7372	57	6734	50	-	-	-
Gulumahada	361	1	341	1	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	1121	*	1121	*	-	-	-
Ganta Afeshum	3431	36	2935	29	-	-	-
Hawzen	1078	5	1047	5	-	-	-
Wukro	1247	2	1156	2	-	-	-
Atsbi Wenberta	134	*	134	*	-	-	-
South Tigray Zone	7767	111	7311	96	*	*	-
Seharte Samre	1646	*	1615	*	-	-	-
Enderta	195	*	195	*	-	-	-
Hintalo Wajirat	2311	13	2275	13	-	-	-
Ambalage	613	12	603	11	*	*	-
Endamehoni	1196	*	1196	*	-	-	-
Rayaazebo	267	*	242	*	-	-	-
Alamata	*	*	*	*	-	-	-
Wofla	1491	19	1137	11	-	-	-
Mekele Zone	-	-	-	-	-	-	-
Mekele	-	-	-	-	-	-	-

TABLE 6.25.2: URBAN HOLDINGS

Geographic Area	Fruit Crops							
	Application of Total Fertilizers		Type of Fertilizer Applied					
			Natural		Chemical		Natural and Chemical	
Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare	
Tigray Region	200	27	149	14	43	*	19	*
West Tigray Zone	19	*	*	*	3	*	*	*
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	3	*	-	-	3	*	-	-
Tahtay Koraro	17	*	*	*	-	-	*	*
Medebay Zana	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-
Central Tigray Zone	147	15	108	11	36	*	14	*
Mereb Lehe	10	*	*	*	*	*	*	*
Ahiferom	*	*	*	*	*	*	-	-
Werie Lehe	*	*	*	*	-	-	*	*
Adwa	48	2	33	1	*	*	7	*
Laelay Maychew	10	4	10	4	-	-	-	-
Tahtay Maychew	1	*	1	*	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	18	*	13	*	*	*	-	-
Degua Temben	-	-	-	-	-	-	-	-
Tanqu Abergele	25	*	25	*	*	*	-	-
East Tigray Zone	7	*	5	*	*	*	-	-
Gulumahada	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-
Ganta Afeshum	5	*	3	*	*	*	-	-
Hawzen	-	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-	-
Atsbi Wenberta	*	*	*	*	-	-	-	-
South Tigray Zone	26	3	25	3	1	1	-	-
Seharte Samre	-	-	-	-	-	-	-	-
Enderta	22	*	22	*	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-	-
Rayaazebo	5	3	4	3	1	1	-	-
Alamata	-	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-	-
Mekele Zone	*	*	-	-	*	*	-	-
Mekele	*	*	-	-	*	*	-	-

TABLE 6.25.1f: Papayas

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	2022	*	1930	*	-	-	-
West Tigray Zone	972	*	937	*	-	-	-
Kafta	119	*	119	*	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	*	*	*	*	-	-	-
Tahtay Koraro	*	*	*	*	-	-	-
Medebay Zana	*	*	*	*	-	-	-
Asegede Tsimbela	*	*	*	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	*	*	*	*	-	-	-
Central Tigray Zone	730	3	692	3	-	-	-
Mereb Lehe	*	*	*	*	-	-	-
Ahiferom	-	-	-	-	-	-	-
Werie Lehe	*	*	*	*	-	-	-
Adwa	*	*	*	*	-	-	-
Laelay Maychew	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-
Naeder Adet	*	*	*	*	-	-	-
Kola Temben	267	*	267	*	-	-	-
Degua Temben	-	-	-	-	-	-	-
Tanqu Abergele	*	*	*	*	-	-	-
East Tigray Zone	*	*	*	*	-	-	-
Gulumahada	*	*	*	*	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-
Ganta Afeshum	*	*	*	*	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	-	-	-
Seharte Samre	*	*	*	*	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-
Rayaaazebo	-	-	-	-	-	-	-
Alamata	*	*	-	-	-	-	-
Wofla	-	-	-	-	-	-	-

TABLE 6.25.1e: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	*	*	-	122	*	*
West Tigray Zone	-	-	-	*	*	*
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	*	*	-	*	*	*
Mereb Lehe	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-
Adwa	*	*	-	*	*	*
Laelay Maychew	-	-	-	-	-	-
Tahtay Maychew	-	-	-	*	*	*
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	-	-	-	*	*	*
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	*	*	*
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	-	-	-	*	*	*
Seharte Samre	-	-	-	-	-	-
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	*	*	*

TABLE 6.25.1e : Oranges

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	1538	10	1391	9	-	-	-
West Tigray Zone	*	*	*	*	-	-	-
Kafta	*	*	*	*	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	*	*	-	-	-
Tahtay Koraro	*	*	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	*	*	*	*	-	-	-
Central Tigray Zone	515	*	437	*	-	-	-
Mereb Lehe	-	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	98	*	*	*	-	-	-
Laelay Maychew	*	*	*	*	-	-	-
Tahtay Maychew	*	*	*	*	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	*	*	*	*	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	579	*	561	*	-	-	-
Gulumahada	*	*	*	*	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	-	-	-
Ganta Afeshum	228	*	228	*	-	-	-
Hawzen	*	*	*	*	-	-	-
Wukro	*	*	*	*	-	-	-
Atsbi Wenberta	*	*	*	*	-	-	-
South Tigray Zone	211	*	177	*	-	-	-
Seharte Samre	*	*	*	*	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-
Ambalage	*	*	*	*	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayazebo	*	*	*	*	-	-	-
Alamata	*	*	*	*	-	-	-
Wofla	*	*	-	-	-	-	-

TABLE 6.25.1d: Mangoes

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
	Holder	Hectare	Natural		Dap		
			Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	201	1	167	*	-	-	-
West Tigray Zone	*	*	*	*	-	-	-
Kafta	*	*	*	*	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	*	*	*	*	-	-	-
Mereb Lehe	-	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	*	*	*	*	-	-	-
Laelay Maychew	*	*	*	*	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	-	-	-
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	*	*	*	*	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	-	-	-
Seharte Samre	-	-	-	-	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	*	*	-	-	-	-	-

TABLE 6.25.1c: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	*	*	*	245	*	*
West Tigray Zone	-	-	-	*	*	-
Kafta	-	-	-	*	*	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	*	*	*	238	*	*
Mereb Lehe	-	-	-	-	-	-
Ahiferom	*	*	*	*	*	*
Werie Lehe	-	-	-	-	-	-
Adwa	-	-	-	-	-	-
Laelay Maychew	-	-	-	-	-	-
Tahtay Maychew	-	-	-	*	*	-
Naeder Adet	-	-	-	*	*	*
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	-	-	-	-	-	-
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	-	-	-	-	-	-
Seharte Samre	-	-	-	-	-	-
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	-	-	-

TABLE 6.25.1c: Lemons

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	3040	23	2732	15	*	*	*
West Tigray Zone	1063	6	1030	6	*	*	*
Kafta	122	*	114	*	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	*	*	332	*	*	*	*
Tahtay Koraro	109	*	109	*	-	-	-
Medebay Zana	*	*	*	*	-	-	-
Asegede Tsimbela	*	*	*	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	*	*	*	*	-	-	-
Central Tigray Zone	1356	14	1081	6	-	-	-
Mereb Lehe	*	*	*	*	-	-	-
Ahiferom	220	*	*	*	-	-	-
Werie Lehe	*	*	*	*	-	-	-
Adwa	*	*	*	*	-	-	-
Laelay Maychew	*	*	*	*	-	-	-
Tahtay Maychew	*	*	-	-	-	-	-
Naeder Adet	398	*	231	*	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	*	*	*	*	-	-	-
Tanqu Abergele	*	*	*	*	-	-	-
East Tigray Zone	*	*	*	*	-	-	-
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	*	*	*	*	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	-	-	-
Seharte Samre	*	*	*	*	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	*	*	*	*	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayaazebo	*	*	*	*	-	-	-
Alamata	*	*	*	*	-	-	-
Wofla	-	-	-	-	-	-	-

TABLE 6.25.1b: Guava (Zeyetuna)

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	1463	15	1177	11	*	*	-
West Tigray Zone	270	*	270	*	-	-	-
Kafta	*	*	*	*	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	*	*	*	*	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-
Medebay Zana	*	*	*	*	-	-	-
Asegede Tsimbela	*	*	*	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	*	*	*	*	-	-	-
Mereb Lehe	-	-	-	-	-	-	-
Ahiferom	*	*	*	*	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	*	*	*	*	-	-	-
Laelay Maychew	-	-	-	-	-	-	-
Tahtay Maychew	*	*	-	-	-	-	-
Naeder Adet	*	*	*	*	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	188	*	161	*	-	-	-
Gulumahada	*	*	*	*	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	-	-	-
Ganta Afeshum	*	*	*	*	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	*	*	*	*	-	-	-
Atsbi Wenberta	*	*	-	-	-	-	-
South Tigray Zone	618	6	452	*	*	*	-
Seharte Samre	*	*	*	*	-	-	-
Enderta	*	*	*	*	*	*	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	*	*	*	*	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayaaazebo	*	*	*	*	-	-	-
Alamata	*	*	*	*	-	-	-
Wofla	*	*	*	*	-	-	-

TABLE 6.25.1a: Bananas

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	2086	*	1987	*	-	-	-
West Tigray Zone	*	*	*	*	-	-	-
Kafta	*	*	*	*	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	*	*	*	*	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	*	*	*	*	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	*	*	*	*	-	-	-
CentralTigray Zone	*	*	*	*	-	-	-
Mereb Lehe	-	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	*	*	-	-	-	-	-
Laelay Maychew	*	*	*	*	-	-	-
Tahtay Maychew	*	*	-	-	-	-	-
Naeder Adet	*	*	*	*	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	*	*	*	*	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	-	-	-
Gulumahada	*	*	*	*	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	*	*	*	*	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	838	*	838	*	-	-	-
Seharte Samre	*	*	*	*	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	*	*	*	*	-	-	-
Endamehoni	-	-	-	-	-	-	-
Rayaaazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-

TABLE 6.25.1: CONTD

Fruit Crops						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	172	*	*	845	15	19
West Tigray Zone	-	-	-	*	*	*
Kafta	-	-	-	*	*	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
CentralTigray Zone	*	*	*	462	*	9
Mereb Lehe	-	-	-	-	-	-
Ahiferom	*	*	*	*	*	*
Werie Lehe	-	-	-	*	*	*
Adwa	*	*	-	*	*	*
Laelay Maychew	-	-	-	-	-	-
Tahtay Maychew	*	*	*	*	*	*
Naeder Adet	-	-	-	201	*	*
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	*	*	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	*	*	-	*	*	*
Gulumahada	-	-	-	-	-	-
Erob	*	*	-	-	-	-
Saesi Tsaedamba	*	*	-	-	-	-
Ganta Afeshum	-	-	-	*	*	-
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	*	*	*
Atsbi Wenberta	*	*	-	*	*	*
South Tigray Zone	*	*	*	*	3	*
Seharte Samre	-	-	-	-	-	-
Enderta	*	*	*	-	-	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	*	*	-
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	*	*	-
Wofla	-	-	-	*	*	*

TABLE 6.25.1: RURAL MEHER

Geographic Area	Fruit Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
Tigray Region	22421	834	21431	814	*	*	*
West Tigray Zone	2292	*	2225	*	*	*	*
Kafta	204	*	196	*	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	409	*	384	*	*	*	*
Tahtay Koraro	*	*	*	*	-	-	-
Medebay Zana	*	*	*	*	-	-	-
Asegede Tsimbela	*	*	*	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	*	*	*	*	-	-	-
CentralTigray Zone	3308	62	2812	*	-	-	-
Mereb Lehe	*	*	*	*	-	-	-
Ahiferom	468	11	*	*	-	-	-
Werie Lehe	*	*	*	*	-	-	-
Adwa	361	*	334	*	-	-	-
Laelay Maychew	93	*	93	*	-	-	-
Tahtay Maychew	124	*	*	*	-	-	-
Naeder Adet	544	3	376	*	-	-	-
Kola Temben	651	*	651	*	-	-	-
Degua Temben	*	*	*	*	-	-	-
Tanqu Abergele	*	*	*	*	-	-	-
East Tigray Zone	12822	646	12752	643	-	-	-
Gulumahada	3057	155	3057	155	-	-	-
Erob	596	27	591	27	-	-	-
Saesi Tsaedamba	1729	113	1729	112	-	-	-
Ganta Afeshum	3236	180	3236	180	-	-	-
Hawzen	1375	52	1375	52	-	-	-
Wukro	1578	64	1560	63	-	-	-
Atsbi Wenberta	1251	55	1204	55	-	-	-
South Tigray Zone	3999	98	3641	92	*	*	-
Seharte Samre	1118	14	1118	14	-	-	-
Enderta	627	*	592	*	*	*	-
Hintalo Wajirat	1174	*	1141	*	*	*	-
Ambalage	359	5	359	5	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayaazebo	*	*	*	*	-	-	-
Alamata	*	*	*	*	*	*	-
Wofla	414	*	195	*	-	-	-

TABEL 6.25: CONTD.

Geographic Area	Fruit Crops							
	Type of Fertilizer Applied							
	UREA			DAP & UREA			Chemical (Urban)	
Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	
Tigray Region	172	*	*	845	15	19	62	*
West Tigray Zone	-	-	-	*	*	*	*	*
Kafta	-	-	-	*	*	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	3	*
Tahtay Koraro	-	-	-	*	*	*	*	*
Medebay Zana	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	*	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-
Central Tigray Zone	*	*	*	462	*	9	50	4
Mereb Lehe	-	-	-	-	-	-	*	*
Ahiferom	*	*	*	*	*	*	*	*
Werie Lehe	-	-	-	*	-	*	*	*
Adwa	*	*	-	*	*	-	15	*
Laelay Maychew	-	-	-	-	-	-	-	-
Tahtay Maychew	*	*	*	*	*	*	-	-
Naeder Adet	-	-	-	201	*	*	-	-
Kola Temben	-	-	-	-	-	-	*	*
Degua Temben	-	-	-	*	*	*	-	-
Tanqu Abergele	-	-	-	-	-	-	*	*
East Tigray Zone	*	*	-	*	*	*	*	*
Gulumahada	-	-	-	-	-	-	-	-
Erob	*	*	-	-	-	-	-	-
Saesi Tsaedamba	*	*	-	-	-	-	-	-
Ganta Afeshum	-	-	-	*	*	-	*	*
Hawzen	-	-	-	-	-	-	-	-
Wukro	-	-	-	*	*	*	-	-
Atsbi Wenberta	*	*	-	*	*	*	-	-
South Tigray Zone	*	*	*	*	3	*	1	1
Seharte Samre	-	-	-	-	-	-	-	-
Enderta	*	*	*	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-	-
Endamehoni	-	-	-	*	*	-	-	-
Rayaaazebo	-	-	-	-	-	-	1	1
Alamata	-	-	-	*	*	-	-	-
Wofla	-	-	-	*	*	*	-	-
Mekele Zone	-	-	-	-	-	-	*	*
Mekele	-	-	-	-	-	-	*	*

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

Geographic Area	Fruit Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
	Holder	Hectare	Natural		Dap		
Holder			Hectare	Holder	Hectare	Quintal	
Tigray Region	22621	861	21580	829	*	*	*
West Tigray Zone	2312	*	2236	*	*	*	*
Kafta	204	*	196	*	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	412	2	384	*	*	*	*
Tahtay Koraro	*	*	*	*	-	-	-
Medebay Zana	*	*	*	*	-	-	-
Asegede Tsimbela	*	*	*	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	*	*	*	*	-	-	-
Central Tigray Zone	3455	77	2920	61	-	-	-
Mereb Lehe	*	*	*	*	-	-	-
Ahiferom	486	11	*	*	-	-	-
Werie Lehe	*	9	*	*	-	-	-
Adwa	409	5	368	4	-	-	-
Laelay Maychew	103	5	103	5	-	-	-
Tahtay Maychew	125	*	*	*	-	-	-
Naeder Adet	544	3	376	*	-	-	-
Kola Temben	669	*	664	*	-	-	-
Degua Temben	*	*	*	*	-	-	-
Tanqu Abergele	145	*	145	*	-	-	-
East Tigray Zone	12828	647	12757	645	-	-	-
Gulumahada	3057	155	3057	155	-	-	-
Erob	596	27	591	27	-	-	-
Saesi Tsaedamba	1729	113	1729	112	-	-	-
Ganta Afeshum	3241	181	3239	181	-	-	-
Hawzen	1375	52	1375	52	-	-	-
Wukro	1578	64	1560	63	-	-	-
Atsbi Wenberta	1253	55	1206	55	-	-	-
South Tigray Zone	4025	101	3666	95	*	*	-
Seharte Samre	1118	14	1118	14	-	-	-
Enderta	649	*	613	*	*	*	-
Hintalo Wajirat	1174	*	1141	*	*	*	-
Ambalage	359	5	359	5	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayazebo	*	4	*	3	-	-	-
Alamata	*	*	*	*	*	*	-
Wofla	414	*	195	*	-	-	-
Mekele Zone	*	*	-	-	-	-	-
Mekele	*	*	-	-	-	-	-

TABLE 6.24.2: URBAN HOLDINGS

Geographic Area	Permanenet Crops							
	Application of Total Fertilizers		Type of Fertilizer Applied					
			Natural		Chemical		Natural and Chemical	
Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare	
Tigray Region	270	57	193	34	68	*	21	*
West Tigray Zone	20	1	*	1	3	*	*	*
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	3	*	-	-	3	*	-	-
Tahtay Koraro	17	*	*	*	-	-	*	*
Medebay Zana	-	-	-	-	-	-	-	-
Asegede Tsimbela	1	1	1	1	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-
Central Tigray Zone	174	38	121	24	49	*	16	*
Mereb Lehe	10	*	*	*	*	*	*	*
Ahiferom	*	*	*	*	*	*	-	-
Werie Lehe	19	*	19	*	-	-	*	*
Adwa	50	3	35	1	*	*	7	*
Laelay Maychew	13	5	10	4	-	-	2	1
Tahtay Maychew	1	*	1	*	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	19	7	14	6	*	*	-	-
Degua Temben	-	-	-	-	-	-	-	-
Tanqu Abergele	30	*	30	*	*	*	-	-
East Tigray Zone	7	*	5	*	*	*	-	-
Gulumahada	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-
Ganta Afeshum	5	*	3	*	*	*	-	-
Hawzen	-	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-	-
Atsbi Wenberta	*	*	*	*	-	-	-	-
South Tigray Zone	68	9	55	8	*	1	-	-
Seharte Samre	-	-	-	-	-	-	-	-
Enderta	47	*	47	*	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-
Ambalage	*	*	-	-	*	*	-	-
Endamehoni	1	3	1	3	-	-	-	-
Rayaazebo	5	6	4	5	1	1	-	-
Alamata	*	*	*	*	-	-	-	-
Wofla	1	-	-	-	1	-	-	-
Mekele Zone	*	*	-	-	*	*	-	-
Mekele	*	*	-	-	*	*	-	-

TABLE 6.24.1 CONTD

Geographic Area	Permanent Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
Holder	Hectare	Quintal	Holder	Hectare	Quintal	
Tigray Region	491	*	*	4597	145	131
West Tigray Zone	*	*	-	395	*	*
Kafta	-	-	-	*	*	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	*	*	*
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	*	*	-	*	*	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	*	*	-	-	-	-
Central Tigray Zone	210	*	*	2886	113	78
Mereb Lehe	-	-	-	-	-	-
Ahiferom	*	*	*	1388	*	47
Werie Lehe	-	-	-	*	*	*
Adwa	*	*	-	228	*	*
Laelay Maychew	-	-	-	85	*	*
Tahtay Maychew	*	*	*	299	*	*
Naeder Adet	-	-	-	583	*	*
Kola Temben	-	-	-	*	*	-
Degua Temben	-	-	-	*	*	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	124	*	*	759	11	*
Gulumahada	-	-	-	*	*	*
Erob	*	*	-	-	-	-
Saesi Tsaedamba	*	*	-	*	*	-
Ganta Afeshum	-	-	-	567	7	*
Hawzen	*	*	-	-	-	-
Wukro	*	*	*	75	*	*
Atsbi Wenberta	*	*	-	*	*	*
South Tigray Zone	*	*	*	*	*	*
Seharte Samre	*	*	*	-	-	-
Enderta	*	*	*	-	-	-
Hintalo Wajirat	*	*	*	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	*	*	-
Rayaazebo	*	*	-	-	-	-
Alamata	-	-	-	*	*	-
Wofla	-	-	-	*	*	*

TABLE 6.24.1:RURAL MEHER

Geographic Area	Permanent Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
Tigray Region	50395	1448	45652	1287	307	4	*
West Tigray Zone	6802	84	6292	74	*	*	*
Kafta	687	*	687	*	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	905	*	747	*	*	*	*
Tahtay Koraro	1152	10	977	8	-	-	-
Medebay Zana	1110	13	949	*	-	-	-
Asegede Tsimbela	401	*	401	*	-	-	-
Tselemti	326	*	326	*	-	-	-
Welkait	748	*	748	*	-	-	-
Tsegede	1311	11	1295	11	-	-	-
Central Tigray Zone	14471	447	11571	330	140	*	*
Mereb Lehe	*	*	*	*	-	-	-
Ahiferom	5227	*	3839	*	*	*	*
Werie Lehe	1343	9	1189	8	-	-	-
Adwa	1999	17	1673	15	*	*	*
Laelay Maychew	608	2	490	1	*	*	-
Tahtay Maychew	635	*	307	*	-	-	-
Naeder Adet	1668	22	1211	*	-	-	-
Kola Temben	1056	*	954	*	*	*	-
Degua Temben	1581	*	1554	*	-	-	-
Tanqu Abergele	226	*	226	*	-	-	-
East Tigray Zone	17980	707	17245	694	-	-	-
Gulumahada	3309	157	3269	156	-	-	-
Erob	596	27	591	27	-	-	-
Saesi Tsaedamba	2583	127	2531	124	-	-	-
Ganta Afeshum	5495	216	5045	209	-	-	-
Hawzen	2134	56	2103	56	-	-	-
Wukro	2531	69	2420	66	-	-	-
Atsbi Wenberta	1332	56	1284	55	-	-	-
South Tigray Zone	11143	210	10543	189	*	*	-
Seharte Samre	2178	26	2148	26	-	-	-
Enderta	799	*	764	*	*	*	-
Hintalo Wajirat	3479	53	3444	52	*	*	-
Ambalage	1010	21	1010	21	*	*	-
Endamehoni	1317	*	1283	*	-	-	-
Rayaaazebo	404	*	380	*	-	-	-
Alamata	*	*	*	*	*	*	-
Wofla	1810	22	1406	13	-	-	-

TABEL 6.24: CONTD.

Geographic Area	Permanent Crops							
	Type of Fertilizer Applied							
	UREA			DAP & UREA			Chemical (Urban)	
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare
Tigray Region	491	*	*	4597	145	131	89	23
West Tigray Zone	*	*	-	395	*	*	*	*
Kafta	-	-	-	*	*	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	*	*	*	3	*
Tahtay Koraro	-	-	-	*	*	*	*	*
Medebay Zana	*	*	-	*	*	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	*	*	-	-	-	-	-	-
Central Tigray Zone	210	*	*	2886	113	78	64	*
Mereb Lehe	-	-	-	-	-	-	*	*
Ahiferom	*	*	*	1388	*	47	*	*
Werie Lehe	-	-	-	*	*	*	*	*
Adwa	*	*	-	228	*	*	15	*
Laelay Maychew	-	-	-	85	*	*	2	1
Tahtay Maychew	*	*	*	299	*	*	-	-
Naeder Adet	-	-	-	583	*	*	-	-
Kola Temben	-	-	-	*	*	-	*	*
Degua Temben	-	-	-	*	*	*	-	-
Tanqu Abergele	-	-	-	-	-	-	*	*
East Tigray Zone	124	*	*	759	11	*	*	*
Gulumahada	-	-	-	*	*	*	-	-
Erob	*	*	-	-	-	-	-	-
Saesi Tsaedamba	*	*	-	*	*	-	-	-
Ganta Afeshum	-	-	-	567	7	*	*	*
Hawzen	*	*	-	-	-	-	-	-
Wukro	*	*	*	75	*	*	-	-
Atsbi Wenberta	*	*	-	*	*	*	-	-
South Tigray Zone	*	*	*	*	*	*	*	1
Seharte Samre	*	*	*	-	-	-	-	-
Enderta	*	*	*	-	-	-	-	-
Hintalo Wajirat	*	*	*	-	-	-	-	-
Ambalage	-	-	-	-	-	-	*	*
Endamehoni	-	-	-	*	*	-	-	-
Rayaaazebo	*	*	-	-	-	-	1	1
Alamata	-	-	-	*	*	-	-	-
Wofla	-	-	-	*	*	*	1	-
Mekele Zone	-	-	-	-	-	-	*	*
Mekele	-	-	-	-	-	-	*	*

TABLE 6.24: NUMBER OF HOLDER APPLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Permanent Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
Tigray Region	50666	1505	45845	1321	307	4	*
West Tigray Zone	6822	85	6305	74	*	*	*
Kafta	687	*	687	*	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	908	*	747	*	*	*	*
Tahtay Koraro	1168	10	988	8	-	-	-
Medebay Zana	1110	13	949	*	-	-	-
Asegede Tsimbela	402	*	402	*	-	-	-
Tselemti	326	*	326	*	-	-	-
Welkait	748	*	748	*	-	-	-
Tsegede	1311	11	1295	11	-	-	-
Central Tigray Zone	14645	485	11692	354	140	*	*
Mereb Lehe	*	1	*	*	-	-	-
Ahiferom	5259	*	3847	*	*	*	*
Werie Lehe	1362	30	1208	20	-	-	-
Adwa	2048	19	1708	16	*	*	*
Laelay Maychew	621	7	500	5	*	*	-
Tahtay Maychew	636	*	308	*	-	-	-
Naeder Adet	1668	22	1211	*	-	-	-
Kola Temben	1075	*	968	*	*	*	-
Degua Temben	1581	*	1554	*	-	-	-
Tanqu Abergele	256	*	256	*	-	-	-
East Tigray Zone	17986	709	17250	695	-	-	-
Gulumahada	3309	157	3269	156	-	-	-
Erob	596	27	591	27	-	-	-
Saesi Tsaedamba	2583	127	2531	124	-	-	-
Ganta Afeshum	5499	217	5048	210	-	-	-
Hawzen	2134	56	2103	56	-	-	-
Wukro	2531	69	2420	66	-	-	-
Atsbi Wenberta	1333	56	1286	55	-	-	-
South Tigray Zone	11212	219	10598	197	*	*	-
Seharte Samre	2178	26	2148	26	-	-	-
Enderta	846	*	810	*	*	*	-
Hintalo Wajirat	3479	53	3444	52	*	*	-
Ambalage	1021	21	1010	21	*	*	-
Endamehoni	1318	*	1284	*	-	-	-
Rayaaazebo	409	*	383	15	-	-	-
Alamata	*	*	*	*	*	*	-
Wofla	1811	22	1406	13	-	-	-
Mekele Zone	*	*	-	-	-	-	-
Mekele	*	*	-	-	-	-	-

TABLE 6.23.4: URBAN HOLDINGS

Geographic Area	Root Crops							
	Application of Total Fertilizers		Type of Fertilizer Applied					
			Natural		Chemical		Natural and Chemical	
Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare	
Tigray Region	80	*	17	*	51	7	*	*
West Tigray Zone	*	*	-	-	*	*	*	*
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	-	-	*	*	-	-
Tahtay Koraro	*	*	-	-	-	-	*	*
Medebay Zana	*	*	-	-	*	*	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-
CentralTigray Zone	26	3	*	*	14	2	-	-
Mereb Lehe	*	*	-	-	*	*	-	-
Ahiferom	*	*	*	*	*	*	-	-
Werie Lehe	*	*	*	*	*	*	-	-
Adwa	*	*	*	*	-	-	-	-
Laelay Maychew	-	-	-	-	-	-	-	-
Tahtay Maychew	1	*	-	-	1	*	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-
East Tigray Zone	-	-	-	-	-	-	-	-
Gulumahada	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsadamba	-	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-
South Tigray Zone	36	5	1	-	29	5	*	*
Seharte Samre	*	*	-	-	*	*	-	-
Enderta	*	*	1	-	-	-	*	*
Hintalo Wajirat	22	5	-	-	22	5	-	-
Ambalage	4	*	-	-	4	*	-	-
Endamehoni	-	-	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-	-
Mekele Zone	*	*	*	*	-	-	-	-
Mekele	*	*	*	*	-	-	-	-

TABLE 6.23.3 CONTD.

Geographic Area	Root Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
Holder	Hectare	Quintal	Holder	Hectare	Quintal	
Tigray Region	867	33	62	8604	502	942
West Tigray Zone	*	*	*	723	*	33
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	*	*	*	*	*	*
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	-	-	-	341	*	*
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	104	1	2
Central Tigray Zone	269	*	*	2579	129	275
Mereb Lehe	*	*	*	-	-	-
Ahiferom	*	*	-	1221	50	83
Werie Lehe	*	*	*	*	*	*
Adwa	*	*	*	*	*	*
Laelay Maychew	*	*	*	370	*	*
Tahtay Maychew	*	*	*	226	*	*
Naeder Adet	-	-	-	*	*	*
Kola Temben	-	-	-	*	*	*
Degua Temben	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	*	*	*	2877	86	187
Gulumahada	-	-	-	*	*	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	2104	63	140
Ganta Afeshum	*	*	*	*	*	*
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	*	*	*
Atsbi Wenberta	-	-	-	*	*	*
South Tigray Zone	337	*	23	2425	258	447
Seharte Samre	*	*	*	*	*	*
Enderta	*	*	*	355	*	*
Hintalo Wajirat	-	-	-	1317	141	273
Ambalage	*	*	*	*	*	*
Endamehoni	*	*	*	170	*	*
Rayaaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	-	-	-

TABLE 6.23.3: RURAL BELG

Geographic Area	Root Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
Tigray Region	16367	773	7205	223	506	16	14
West Tigray Zone	1766	55	1090	25	*	*	*
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	*	*	*	*	*
Tahtay Koraro	*	*	*	*	-	-	-
Medebay Zana	556	37	287	13	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	740	11	637	*	*	*	-
Central Tigray Zone	5272	227	2772	84	-	-	-
Mereb Lehe	*	*	*	*	-	-	-
Ahiferom	1573	63	*	*	-	-	-
Werie Lehe	306	*	*	*	-	-	-
Adwa	1836	*	1512	*	-	-	-
Laelay Maychew	504	*	136	*	-	-	-
Tahtay Maychew	540	32	246	*	-	-	-
Naeder Adet	*	*	*	*	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	*	*	*	*	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	4637	161	1368	57	*	*	*
Gulumahada	*	*	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	3403	122	952	46	*	*	*
Ganta Afeshum	*	*	*	*	-	-	-
Hawzen	*	*	*	*	-	-	-
Wukro	*	10	*	*	*	*	*
Atsbi Wenberta	*	*	*	*	-	-	-
South Tigray Zone	4693	330	1974	56	*	*	*
Seharte Samre	*	*	*	*	*	*	*
Enderta	985	*	*	*	-	-	-
Hintalo Wajirat	2340	163	1104	21	*	*	*
Ambalage	*	*	*	*	-	-	-
Endamehoni	450	11	215	3	*	*	*
Rayaaazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-

TABLE 6.23.2g CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	*	*	*	149	18	*
West Tigray Zone	-	-	-	-	-	-
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	-	-	-	108	*	*
Mereb Lehe	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-
Werie Lehe	-	-	-	*	*	*
Adwa	-	-	-	*	*	*
Laelay Maychew	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	*	*
Gulumahada	*	*	*	*	*	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	-	-	-	-	-	-
Seharte Samre	-	-	-	-	-	-
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	-	-	-

TABLE 6.23.2g: Other Root Crops

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	411	30	244	*	-	-	-
West Tigray Zone	-	-	-	-	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	*	*	*	*	-	-	-
Mereb Lehe	-	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-
Werie Lehe	*	*	-	-	-	-	-
Adwa	*	*	*	*	-	-	-
Laelay Maychew	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	*	12	*	*	-	-	-
Gulumahada	60	*	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	-	-	-
Seharte Samre	-	-	-	-	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	-	-	-	-	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayazebo	*	*	*	*	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-

TABLE 6.23.2f: Sweet potatoes

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied					
			Natural		Dap			
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
Tigray Region	190	*	*	*	*	*	*	*
West Tigray Zone	*	*	*	*	-	-	-	-
Kafta	*	*	*	*	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-
CentralTigray Zone	*	*	*	*	-	-	-	-
Mereb Lehe	-	-	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-	-
Adwa	*	*	*	*	-	-	-	-
Laelay Maychew	-	-	-	-	-	-	-	-
Tahtay Maychew	*	*	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	*	*	*	*
Gulumahada	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-
Ganta Afeshum	*	*	*	*	*	*	*	*
Hawzen	-	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-
South Tigray Zone	-	-	-	-	-	-	-	-
Seharte Samre	-	-	-	-	-	-	-	-
Enderta	-	-	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-	-
Rayaaazebo	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-	-

TABLE 6.23.2e: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	204	*	*	2151	22	*
West Tigray Zone	-	-	-	-	-	-
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	157	*	1	1895	18	*
Mereb Lehe	*	*	*	*	*	*
Ahiferom	-	-	-	633	5	*
Werie Lehe	-	-	-	250	*	3
Adwa	*	*	*	154	*	*
Laelay Maychew	*	*	*	*	*	*
Tahtay Maychew	-	-	-	641	8	*
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-
Degua Temben	*	*	*	*	*	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	-	-	-	*	*	*
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	*	*	*
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	*	*
Seharte Samre	-	-	-	*	*	*
Enderta	*	*	*	-	-	-
Hintalo Wajirat	-	-	-	*	*	*
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	-	-	-

TABLE 6.23.2e: Garlic

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	8943	70	6561	46	*	*	*
West Tigray Zone	1566	13	1566	13	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	*	*	*	*	-	-	-
Medebay Zana	*	*	*	*	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	1492	13	1492	13	-	-	-
Central Tigray Zone	4557	31	2504	12	-	-	-
Mereb Lehe	*	*	-	-	-	-	-
Ahiferom	985	9	*	*	-	-	-
Werie Lehe	566	5	*	*	-	-	-
Adwa	736	4	555	3	-	-	-
Laelay Maychew	564	1	449	1	-	-	-
Tahtay Maychew	775	9	134	1	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	893	2	700	1	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	224	1	153	*	*	*	*
Gulumahada	*	*	*	*	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-
Ganta Afeshum	113	*	*	*	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-
Atsbi Wenberta	*	*	*	*	*	*	*
South Tigray Zone	2596	25	2337	20	-	-	-
Seharte Samre	*	*	*	*	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	*	*	*	*	-	-	-
Endamehoni	492	3	492	3	-	-	-
Rayazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	1548	14	1548	14	-	-	-

TABLE 6.23.2d : CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	244	*	*	1287	45	104
West Tigray Zone	-	-	-	*	*	*
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	*	*	*
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	-	-	-	445	2	9
Mereb Lehe	-	-	-	-	-	-
Ahiferom	-	-	-	338	1	*
Werie Lehe	-	-	-	-	-	-
Adwa	-	-	-	*	*	*
Laelay Maychew	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	*	*	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	*	*	*	548	*	*
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	*	*
Ganta Afeshum	*	*	*	152	*	*
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	*	*	*
Atsbi Wenberta	-	-	-	*	*	*
South Tigray Zone	*	*	*	264	*	25
Seharte Samre	*	*	*	-	-	-
Enderta	*	*	*	*	*	*
Hintalo Wajirat	-	-	-	*	*	*
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	*	*	*
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	-	-	-

TABLE 6.23.2d :Potatoes

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	7068	164	5479	102	*	*	*
West Tigray Zone	122	*	*	*	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	*	*	*	*	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	*	*	*	*	-	-	-
CentralTigray Zone	2144	30	1699	27	-	-	-
Mereb Lehe	*	*	*	*	-	-	-
Ahiferom	1183	8	846	7	-	-	-
Werie Lehe	*	*	*	*	-	-	-
Adwa	496	*	418	*	-	-	-
Laelay Maychew	*	*	*	*	-	-	-
Tahtay Maychew	*	*	*	*	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	*	*	*	*	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	2663	68	1944	36	*	*	*
Gulumahada	*	*	*	*	*	*	*
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	1349	43	902	*	*	*	*
Ganta Afeshum	739	17	564	10	-	-	-
Hawzen	*	*	*	*	-	-	-
Wukro	193	4	165	2	-	-	-
Atsbi Wenberta	289	*	243	*	-	-	-
South Tigray Zone	2139	56	1744	39	*	*	*
Seharte Samre	*	*	-	-	-	-	-
Enderta	293	*	*	*	-	-	-
Hintalo Wajirat	*	*	235	2	-	-	-
Ambalage	365	*	365	*	-	-	-
Endamehoni	400	*	345	*	*	*	*
Rayaazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	697	4	697	4	-	-	-

TABLE 6.23.2c: CONTD..

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	236	*	*	2861	78	249
West Tigray Zone	-	-	-	315	9	12
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	*	*	*
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	-	-	-	189	7	*
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	*	*	*	1762	37	126
Mereb Lehe	-	-	-	-	-	-
Ahiferom	-	-	-	846	22	86
Werie Lehe	-	-	-	*	*	*
Adwa	-	-	-	*	*	*
Laelay Maychew	*	*	*	*	*	*
Tahtay Maychew	*	*	*	465	11	21
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-
Degua Temben	*	*	*	*	*	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	*	*	*	321	7	*
Gulumahada	-	-	-	*	*	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	*	*
Ganta Afeshum	-	-	-	*	*	*
Hawzen	*	*	*	-	-	-
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	*	*	*
South Tigray Zone	*	*	*	463	*	*
Seharte Samre	-	-	-	*	*	*
Enderta	-	-	-	*	*	*
Hintalo Wajirat	-	-	-	*	*	*
Ambalage	-	-	-	*	*	*
Endamehoni	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	*	*	*
Wofla	*	*	*	*	*	-

TABLE 6.23.2c: Onions

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	6864	124	3783	42	*	*	*
West Tigray Zone	1329	22	1014	13	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	*	*	-	-	-
Tahtay Koraro	*	*	*	*	-	-	-
Medebay Zana	510	*	321	*	-	-	-
Asegede Tsimbela	*	*	*	*	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	480	6	480	6	-	-	-
CentralTigray Zone	3162	50	1209	12	*	*	*
Mereb Lehe	*	*	*	*	-	-	-
Ahiferom	1088	27	242	5	-	-	-
Werie Lehe	*	*	-	-	-	-	-
Adwa	*	*	*	*	-	-	-
Laelay Maychew	182	*	73	*	*	*	*
Tahtay Maychew	676	14	*	*	*	*	*
Naeder Adet	*	*	*	*	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	171	*	*	*	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	837	16	488	*	-	-	-
Gulumahada	*	*	*	*	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	-	-	-
Ganta Afeshum	360	4	243	*	-	-	-
Hawzen	*	*	*	*	-	-	-
Wukro	*	*	*	*	-	-	-
Atsbi Wenberta	*	*	*	*	-	-	-
South Tigray Zone	1536	*	1072	9	-	-	-
Seharte Samre	208	*	106	*	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	335	4	293	3	-	-	-
Endamehoni	472	4	472	4	-	-	-
Rayaaazebo	-	-	-	-	-	-	-
Alamata	*	*	*	*	-	-	-
Wofla	*	*	*	*	-	-	-

TABLE 6.23.2b: CONTD..

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	*	*	*	423	4	7
West Tigray Zone	-	-	-	-	-	-
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	-	-	-	207	*	2
Mereb Lehe	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-
Adwa	-	-	-	*	*	*
Laelay Maychew	-	-	-	*	*	*
Tahtay Maychew	-	-	-	*	*	*
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	*	*	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	-	-	-	*	*	*
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	*	*	*
Atsbi Wenberta	-	-	-	*	*	*
South Tigray Zone	*	*	*	127	*	*
Seharte Samre	-	-	-	*	*	*
Enderta	*	*	*	*	*	*
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	-	-	-

TABLE 6.23.2b: Carrot

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	1335	19	723	12	-	-	-
West Tigray Zone	*	*	*	*	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	*	*	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	416	4	210	*	-	-	-
Mereb Lehe	-	-	-	-	-	-	-
Ahiferom	*	*	*	*	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	154	*	129	*	-	-	-
Laelay Maychew	*	*	-	-	-	-	-
Tahtay Maychew	*	*	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	*	*	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	-	-	-
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	*	*	*	*	-	-	-
Atsbi Wenberta	*	*	*	*	-	-	-
South Tigray Zone	*	8	*	*	-	-	-
Seharte Samre	*	*	-	-	-	-	-
Enderta	*	8	*	*	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-
Ambalage	*	*	*	*	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-

TABLE 6.23.2a: Beet root

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	186	*	*	*	-	-	-
West Tigray Zone	-	-	-	-	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	*	*	-	-	-	-	-
Mereb Lehe	-	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	*	*	-	-	-	-	-
Laelay Maychew	*	*	-	-	-	-	-
Tahtay Maychew	*	*	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	*	*	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	-	-	-	-	-	-	-
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	-	-	-
Seharte Samre	-	-	-	-	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-

TABLE 6.23.2: CONTD.

Geographic Area	Root Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	814	17	32	6125	168	547
West Tigray Zone	-	-	-	344	*	20
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	*	*	*
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	-	-	-	189	7	*
Asegede Tsimbela	-	-	-	*	*	*
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	255	1	1	3960	71	307
Mereb Lehe	*	*	*	*	*	*
Ahiferom	-	-	-	1641	28	147
Werie Lehe	-	-	-	401	*	*
Adwa	*	*	*	515	*	15
Laelay Maychew	*	*	*	150	*	*
Tahtay Maychew	*	*	*	951	20	*
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-
Degua Temben	*	*	*	281	1	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	*	*	*	912	33	*
Gulumahada	*	*	*	*	*	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	*	*
Ganta Afeshum	*	*	*	288	6	14
Hawzen	*	*	*	-	-	-
Wukro	-	-	-	*	*	*
Atsbi Wenberta	-	-	-	*	*	*
South Tigray Zone	*	*	*	909	46	*
Seharte Samre	*	*	*	*	*	*
Enderta	*	*	*	278	*	*
Hintalo Wajirat	-	-	-	*	*	*
Ambalage	-	-	-	*	*	*
Endamehoni	-	-	-	*	*	*
Rayazebo	-	-	-	-	-	-
Alamata	-	-	-	*	*	*
Wofla	*	*	*	*	*	-

TABLE 6.23.2: RURAL MEHER

Geographic Area	Root Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
	Holder	Hectare	Natural		Dap		
Holder			Hectare	Holder	Hectare	Quintal	
Tigray Region	21927	409	15352	214	249	*	19
West Tigray Zone	2866	46	2521	27	-	-	-
Kafta	*	*	*	*	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	*	*	*	*	-	-	-
Tahtay Koraro	*	*	*	*	-	-	-
Medebay Zana	539	*	350	*	-	-	-
Asegede Tsimbela	*	*	142	*	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	1788	18	1788	18	-	-	-
Central Tigray Zone	9008	128	5114	56	*	*	*
Mereb Lehe	*	*	*	*	-	-	-
Ahiferom	2814	45	1432	16	-	-	-
Werie Lehe	773	7	372	*	-	-	-
Adwa	1936	33	1420	19	-	-	-
Laelay Maychew	746	*	521	1	*	*	*
Tahtay Maychew	1305	24	327	3	*	*	*
Naeder Adet	*	*	*	*	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	1219	4	865	2	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	3820	105	2759	56	164	*	*
Gulumahada	198	*	*	*	*	*	*
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	1505	55	1005	27	*	*	*
Ganta Afeshum	1066	22	802	13	*	*	*
Hawzen	140	*	*	*	-	-	-
Wukro	496	*	450	*	-	-	-
Atsbi Wenberta	415	*	298	*	*	*	*
South Tigray Zone	6234	129	4958	76	*	*	*
Seharte Samre	384	*	*	*	-	-	-
Enderta	799	48	239	*	-	-	-
Hintalo Wajirat	672	*	390	*	-	-	-
Ambalage	806	24	764	23	-	-	-
Endamehoni	1302	17	1247	14	*	*	*
Rayaazebo	*	*	*	*	-	-	-
Alamata	*	*	*	*	-	-	-
Wofla	2169	21	2105	19	-	-	-

TABLE 6.23.1: CONTD

Geographic Area	Root Crops					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	1681	50	95	13823	670	1489
West Tigray Zone	*	*	*	1032	48	53
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	*	*	*	*	*	*
Tahtay Koraro	-	-	-	241	5	15
Medebay Zana	-	-	-	530	*	24
Asegede Tsimbela	-	-	-	*	*	*
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	104	1	2
Central Tigray Zone	524	15	*	6138	199	582
Mereb Lehe	*	*	*	*	*	*
Ahiferom	*	*	-	2596	78	230
Werie Lehe	*	*	*	549	*	21
Adwa	*	*	*	839	27	*
Laelay Maychew	*	*	*	501	*	*
Tahtay Maychew	168	*	*	1152	41	*
Naeder Adet	-	-	-	*	*	*
Kola Temben	-	-	-	*	*	*
Degua Temben	*	*	*	281	1	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	422	15	*	3594	118	277
Gulumahada	*	*	*	*	*	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	2375	79	*
Ganta Afeshum	*	*	*	*	*	*
Hawzen	*	*	*	-	-	-
Wukro	-	-	-	*	*	*
Atsbi Wenberta	-	-	-	*	*	*
South Tigray Zone	715	20	37	3059	304	577
Seharte Samre	*	*	*	450	*	*
Enderta	*	*	*	564	*	*
Hintalo Wajirat	-	-	-	1466	145	299
Ambalage	*	*	*	*	*	*
Endamehoni	*	*	*	187	*	*
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	*	*	*
Wofla	*	*	*	*	*	-

TABLE 6.23.1 RURAL HOLDINGS.

Geographic Area	Root Crops						
	Total Fertilized Cropland		Type of Fertilizer Applied				
	Holder	Hectare	Natural		Dap		
Holder			Hectare	Holder	Hectare	Quintal	
Tigray Region	35439	1181	21487	437	756	25	34
West Tigray Zone	4189	101	3264	53	*	*	*
Kafta	*	*	*	*	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	245	*	*	*	*	*	*
Tahtay Koraro	462	7	238	*	-	-	-
Medebay Zana	1095	51	636	20	-	-	-
Asegede Tsimbela	*	*	142	*	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	2141	30	2077	29	*	*	-
Central Tigray Zone	13361	355	7652	140	*	*	*
Mereb Lehe	224	*	141	*	-	-	-
Ahiferom	3965	108	1941	29	-	-	-
Werie Lehe	1013	18	431	5	-	-	-
Adwa	3498	103	2786	71	-	-	-
Laelay Maychew	1175	18	639	*	*	*	*
Tahtay Maychew	1793	56	573	8	*	*	*
Naeder Adet	254	*	177	*	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	1279	*	925	*	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	7754	266	3927	113	463	*	19
Gulumahada	198	*	*	*	*	*	*
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	4487	178	1802	73	*	*	*
Ganta Afeshum	1503	35	1037	18	*	*	*
Hawzen	*	*	*	*	-	-	-
Wukro	611	20	477	*	*	*	*
Atsbi Wenberta	755	*	347	4	*	*	*
South Tigray Zone	10134	459	6645	132	*	*	*
Seharte Samre	857	25	*	*	*	*	*
Enderta	1714	*	763	41	-	-	-
Hintalo Wajirat	2558	171	1335	25	*	*	*
Ambalage	1118	38	811	24	-	-	-
Endamehoni	1617	28	1362	17	*	*	*
Rayaazebo	*	*	*	*	-	-	-
Alamata	*	*	*	*	-	-	-
Wofla	2169	21	2105	19	-	-	-

TABEL 6.23: CONTD.

Geographic Area	Root Crops							
	Type of Fertilizer Applied							
	UREA			DAP & UREA			Chemical (Urban)	
Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	
Tigray Region	1681	50	95	13823	670	1489	63	8
West Tigray Zone	*	*	*	1032	48	53	*	*
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	*	*	*	*	*	*
Tahtay Koraro	-	-	-	241	5	15	*	*
Medebay Zana	-	-	-	530	*	24	*	*
Asegede Tsimbela	-	-	-	*	*	*	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	-	-	-	104	1	2	-	-
Central Tigray Zone	524	15	*	6138	199	582	14	2
Mereb Lehe	*	*	*	*	*	*	*	*
Ahiferom	*	*	-	2596	78	230	*	*
Werie Lehe	*	*	*	549	*	21	*	*
Adwa	*	*	*	839	27	*	-	-
Laelay Maychew	*	*	*	501	*	*	-	-
Tahtay Maychew	168	*	*	1152	41	*	1	*
Naeder Adet	-	-	-	*	*	*	-	-
Kola Temben	-	-	-	*	*	*	-	-
Degua Temben	*	*	*	281	1	*	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-
East Tigray Zone	422	15	*	3594	118	277	-	-
Gulumahada	*	*	*	*	*	*	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	2375	79	*	-	-
Ganta Afeshum	*	*	*	*	*	*	-	-
Hawzen	*	*	*	-	-	-	-	-
Wukro	-	-	-	*	*	*	-	-
Atsbi Wenberta	-	-	-	*	*	*	-	-
South Tigray Zone	715	20	37	3059	304	577	35	5
Seharte Samre	*	*	*	450	*	*	*	*
Enderta	*	*	*	564	*	*	*	*
Hintalo Wajirat	-	-	-	1466	145	299	22	5
Ambalage	*	*	*	*	*	*	4	*
Endamehoni	*	*	*	187	*	*	-	-
Rayaazebo	-	-	-	-	-	-	-	-
Alamata	-	-	-	*	*	*	-	-
Wofla	*	*	*	*	*	-	-	-
Mekele Zone	-	-	-	-	-	-	-	-
Mekele	-	-	-	-	-	-	-	-

TABLE 6.23: NUMBER OF HOLDER APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Root Crops							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	35518	1203	21504	450	756	25	34
West Tigray Zone	4203	102	3264	53	*	*	*
Kafta	*	*	*	*	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	246	*	*	*	*	*	*
Tahtay Koraro	467	7	238	*	-	-	-
Medebay Zana	1101	51	636	20	-	-	-
Asegede Tsimbela	*	*	142	*	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	2141	30	2077	29	*	*	-
CentralTigray Zone	13387	359	7664	141	*	*	*
Mereb Lehe	227	*	141	*	-	-	-
Ahiferom	3977	108	1945	29	-	-	-
Werie Lehe	1022	20	437	6	-	-	-
Adwa	3500	103	2788	71	-	-	-
Laelay Maychew	1175	18	639	*	*	*	*
Tahtay Maychew	1794	56	573	8	*	*	*
Naeder Adet	254	*	177	*	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	1279	*	925	*	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	7754	266	3927	113	463	*	19
Gulumahada	198	*	*	*	*	*	*
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	4487	178	1802	73	*	*	*
Ganta Afeshum	1503	35	1037	18	*	*	*
Hawzen	*	*	*	*	-	-	-
Wukro	611	20	477	*	*	*	*
Atsbi Wenberta	755	*	347	4	*	*	*
South Tigray Zone	10170	465	6646	132	*	*	*
Seharte Samre	859	25	*	*	*	*	*
Enderta	1721	*	765	41	-	-	-
Hintalo Wajirat	2580	176	1335	25	*	*	*
Ambalage	1122	38	811	24	-	-	-
Endamehoni	1617	28	1362	17	*	*	*
Rayaazebo	*	*	*	*	-	-	-
Alamata	*	*	*	*	-	-	-
Wofla	2169	21	2105	19	-	-	-
Mekele Zone	*	*	*	*	-	-	-
Mekele	*	*	*	*	-	-	-

TABLE 6.22.4: URBAN HOLDINGS

Geographic Area	Vegetables							
	Application of Total Fertilizers		Type of Fertilizer Applied					
			Natural		Chemical		Natural and Chemical	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Tigray Region	133	30	61	*	55	5	17	*
West Tigray Zone	33	*	19	*	*	1	*	*
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-	-
Laelay Adiyabo	3	*	-	-	3	*	-	-
Tahtay Koraro	26	*	*	*	*	*	*	*
Medebay Zana	-	-	-	-	-	-	-	-
Asegede Tsimbela	*	*	*	*	1	1	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-	-
Central Tigray Zone	36	1	5	*	24	1	*	*
Mereb Lehe	-	-	-	-	-	-	-	-
Ahiferom	19	*	2	*	*	*	*	*
Werie Lehe	*	*	-	-	*	*	-	-
Adwa	9	*	3	*	5	*	-	-
Laelay Maychew	4	*	-	-	4	*	-	-
Tahtay Maychew	-	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	1	*	-	-	-	-	1	*
Degua Temben	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-
East Tigray Zone	5	*	4	*	*	*	-	-
Gulumahada	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	3	*	3	*	-	-	-	-
Ganta Afeshum	*	*	-	-	*	*	-	-
Hawzen	-	-	-	-	-	-	-	-
Wukro	1	*	1	*	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-	-
South Tigray Zone	44	*	19	*	20	*	*	*
Seharte Samre	-	-	-	-	-	-	-	-
Enderta	25	*	19	*	*	*	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-
Ambalage	*	*	-	-	3	*	*	*
Endamehoni	-	-	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-	-	-
Alamata	10	*	-	-	10	*	-	-
Wofla	-	-	-	-	-	-	-	-
Mekele Zone	14	*	14	*	-	-	-	-
Mekele	14	*	14	*	-	-	-	-

TABLE 6.22.3: CONTD.

Geographic Area	Vegetables					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
Holder	Hectare	Quintal	Holder	Hectare	Quintal	
Tigray Region	778	18	32	4312	196	420
West Tigray Zone	*	*	*	425	*	*
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	*	*	*	*	*	*
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	*	*	*	*	*	*
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	*	*	*
CentralTigray Zone	199	3	*	2069	78	209
Mereb Lehe	*	*	*	*	*	*
Ahiferom	*	*	*	752	25	*
Werie Lehe	-	-	-	*	*	*
Adwa	*	*	*	*	*	*
Laelay Maychew	*	*	*	515	*	*
Tahtay Maychew	*	*	*	123	*	*
Naeder Adet	*	*	*	*	*	*
Kola Temben	-	-	-	*	*	*
Degua Temben	-	-	-	*	*	*
Tanqu Abergele	-	-	-	*	*	*
East Tigray Zone	*	*	*	1208	42	81
Gulumahada	-	-	-	*	*	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	*	*
Ganta Afeshum	-	-	-	*	*	*
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	*	*	*
Atsbi Wenberta	*	*	*	*	*	*
South Tigray Zone	458	10	*	609	*	85
Seharte Samre	*	*	*	*	*	*
Enderta	170	*	*	*	*	*
Hintalo Wajirat	-	-	-	*	*	*
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	*	*	*
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	*	*	*	*	*	*

TABLE 6.22.3: RURAL BELG

Geographic Area	Vegetables						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
Tigray Region	11463	397	6985	181	*	*	*
West Tigray Zone	1162	42	921	21	*	*	*
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	238	4	218	*	*	*	*
Tahtay Koraro	*	*	*	*	-	-	-
Medebay Zana	396	15	326	10	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	*	*	*	*	-	-	-
Central Tigray Zone	5420	171	3371	90	-	-	-
Mereb Lehe	392	8	*	*	-	-	-
Ahiferom	1415	38	658	*	-	-	-
Werie Lehe	*	*	*	*	-	-	-
Adwa	1448	23	1216	20	-	-	-
Laelay Maychew	708	*	231	*	-	-	-
Tahtay Maychew	230	12	132	*	-	-	-
Naeder Adet	192	1	114	*	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	*	*	*	*	-	-	-
Tanqu Abergele	*	*	*	*	-	-	-
East Tigray Zone	2141	81	884	37	*	*	*
Gulumahada	*	*	*	*	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	1244	46	606	*	-	-	-
Ganta Afeshum	*	*	*	*	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	*	26	90	*	*	*	*
Atsbi Wenberta	*	*	*	*	-	-	-
South Tigray Zone	2740	103	1808	33	*	*	*
Seharte Samre	*	*	*	*	*	*	*
Enderta	781	*	506	*	-	-	-
Hintalo Wajirat	*	45	*	*	-	-	-
Ambalage	*	*	*	*	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	*	*	*	*	-	-	-

TABLE 6.22.2h: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	-	-	-	246	*	*
West Tigray Zone	-	-	-	-	-	-
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	-	-	-	213	*	*
Mereb Lehe	-	-	-	*	*	*
Ahiferom	-	-	-	*	*	*
Werie Lehe	-	-	-	-	-	-
Adwa	-	-	-	*	*	*
Laelay Maychew	-	-	-	-	-	-
Tahtay Maychew	-	-	-	*	*	*
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	-	-	-	-	-	-
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	-	-	-	*	*	*
Seharte Samre	-	-	-	-	-	-
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	*	*	*

TABLE 6.22.2h: Other Vegetables

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	1156	*	910	13	-	-	-
West Tigray Zone	*	*	*	*	-	-	-
Kafta	*	*	*	*	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-
Medebay Zana	*	*	*	*	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	*	*	*	*	-	-	-
Central Tigray Zone	359	*	146	*	-	-	-
Mereb Lehe	*	*	-	-	-	-	-
Ahiferom	*	*	*	*	-	-	-
Werie Lehe	*	*	*	*	-	-	-
Adwa	*	*	*	*	-	-	-
Laelay Maychew	*	*	*	*	-	-	-
Tahtay Maychew	*	*	*	*	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	-	-	-
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-
Ganta Afeshum	*	*	*	*	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	507	3	474	2	-	-	-
Seharte Samre	*	*	*	*	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-
Rayaazebo	*	*	*	*	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	*	*	*	*	-	-	-

TABLE 6.22.2g: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	*	*	*	518	2	8
West Tigray Zone	-	-	-	-	-	-
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	-	-	-	347	1	3
Mereb Lehe	-	-	-	*	*	*
Ahiferom	-	-	-	*	*	*
Werie Lehe	-	-	-	*	*	*
Adwa	-	-	-	*	*	*
Laelay Maychew	-	-	-	74	*	*
Tahtay-Maychew	-	-	-	*	*	*
Naeder Adet	-	-	-	*	*	*
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	*	*	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	-	-	-	*	*	*
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	*	*	*
South Tigray Zone	*	*	*	*	*	*
Seharte Samre	-	-	-	-	-	-
Enderta	*	*	*	*	*	*
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	-	-	-

TABLE 6.22.2f: Red peppers

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	34657	437	30918	312	461	3	5
West Tigray Zone	24144	344	22801	260	268	2	3
Kafta	*	*	*	*	-	-	-
Tahtay Adiyabo	2887	25	2831	25	*	*	*
Laelay Adiyabo	5219	62	4869	58	135	1	*
Tahtay Koraro	2626	20	2169	16	*	*	*
Medebay Zana	4237	41	3837	31	*	*	*
Asegede Tsimbela	5994	82	5956	82	-	-	-
Tselemti	1440	*	1407	*	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	609	8	609	8	-	-	-
CentralTigray Zone	9125	59	6940	38	192	1	2
Mereb Lehe	1291	6	971	5	*	*	*
Ahiferom	252	*	214	*	-	-	-
Werie Lehe	1280	5	1116	4	-	-	-
Adwa	*	*	*	*	*	*	*
Laelay Maychew	175	*	*	*	-	-	-
Tahtay Maychew	1076	5	197	*	-	-	-
Naeder Adet	3617	26	3177	18	*	*	*
Kola Temben	*	*	-	-	*	*	*
Degua Temben	-	-	-	-	-	-	-
Tanqu Abergele	552	*	552	*	-	-	-
East Tigray Zone	87	*	*	*	-	-	-
Gulumahada	58	*	*	*	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-
Hawzen	*	*	-	-	-	-	-
Wukro	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	1302	26	1138	13	-	-	-
Seharte Samre	*	*	*	*	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	432	*	351	4	-	-	-
Ambalage	*	*	*	*	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayaaazebo	*	*	*	*	-	-	-
Alamata	*	*	*	*	-	-	-
Wofla	*	*	*	*	-	-	-

TABLE 6.22.2e: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	207	1	*	3087	31	79
West Tigray Zone	*	*	*	693	15	29
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	*	*	*	*	*	*
Laelay Adiyabo	-	-	-	*	*	*
Tahtay Koraro	*	*	*	*	*	*
Medebay Zana	-	-	-	189	*	*
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	140	*	*	2199	13	39
Mereb Lehe	*	*	*	285	*	*
Ahiferom	-	-	-	763	4	9
Werie Lehe	-	-	-	*	*	*
Adwa	-	-	-	*	*	*
Laelay Maychew	*	*	*	339	*	*
Tahtay Maychew	*	*	*	*	*	*
Naeder Adet	-	-	-	*	*	*
Kola Temben	*	*	*	*	*	*
Degua Temben	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	*	*
Gulumahada	*	*	*	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	*	*	*
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	-	-	-	*	*	*
Seharte Samre	-	-	-	-	-	-
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	*	*	*
Wofla	-	-	-	-	-	-

TABLE 6.22.2e: Green Peppers

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	14177	118	10861	85	*	*	*
West Tigray Zone	5851	68	5092	51	*	*	*
Kafta	*	*	*	*	-	-	-
Tahtay Adiyabo	3873	43	3667	41	-	-	-
Laelay Adiyabo	*	*	*	*	-	-	-
Tahtay Koraro	1285	15	940	6	*	*	*
Medebay Zana	244	*	*	*	-	-	-
Asegede Tsimbela	208	*	208	*	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	6541	37	4197	23	*	*	*
Mereb Lehe	1346	8	1014	7	*	*	*
Ahiferom	1557	10	794	6	-	-	-
Werie Lehe	*	*	*	*	-	-	-
Adwa	*	*	*	*	-	-	-
Laelay Maychew	731	3	359	1	-	-	-
Tahtay Maychew	*	*	-	-	-	-	-
Naeder Adet	*	*	*	*	-	-	-
Kola Temben	1286	5	1148	4	-	-	-
Degua Temben	*	*	*	*	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	699	6	505	4	-	-	-
Gulumahada	*	*	*	*	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	-	-	-
Ganta Afeshum	399	*	223	1	-	-	-
Hawzen	*	*	*	*	-	-	-
Wukro	83	*	83	*	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	1086	8	1067	7	-	-	-
Seharte Samre	-	-	-	-	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	-	-	-	-	-	-	-
Endamehoni	112	*	112	*	-	-	-
Rayazebo	*	*	*	*	-	-	-
Alamata	*	*	*	*	-	-	-
Wofla	*	*	*	*	-	-	-

TABLE 6.22.2d CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	136	*	*	1090	22	57
West Tigray Zone	-	-	-	*	*	*
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	*	*	*
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	-	-	-	547	9	32
Mereb Lehe	-	-	-	*	*	*
Ahiferom	-	-	-	*	*	*
Werie Lehe	-	-	-	-	-	-
Adwa	-	-	-	*	*	*
Laelay Maychew	-	-	-	*	*	*
Tahtay Maychew	-	-	-	*	*	*
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	*	*	*
Degua Temben	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	*	*	*	206	4	*
Gulumahada	*	*	*	*	*	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	*	*	*
Ganta Afeshum	-	-	-	*	*	*
Hawzen	-	-	-	*	*	*
Wukro	*	*	*	*	*	*
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	*	*
Seharte Samre	-	-	-	-	-	-
Enderta	*	*	*	*	*	*
Hintalo Wajirat	-	-	-	*	*	*
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	*	*	*	-	-	-

TABLE 6.22.2d Tomatoes

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	2883	49	1674	24	*	*	*
West Tigray Zone	397	*	*	*	-	-	-
Kafta	*	*	*	*	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	*	*	*	*	-	-	-
Tahtay Koraro	*	*	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	*	*	*	*	-	-	-
Central Tigray Zone	863	15	333	*	*	*	*
Mereb Lehe	*	*	-	-	-	-	-
Ahiferom	*	*	*	*	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	*	*	*	*	-	-	-
Laelay Maychew	*	*	*	*	*	*	*
Tahtay Maychew	*	*	*	*	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	*	*	*	*	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	989	17	727	11	-	-	-
Gulumahada	*	3	*	*	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	-	-	-
Ganta Afeshum	427	6	312	5	-	-	-
Hawzen	*	*	*	*	-	-	-
Wukro	129	*	*	*	-	-	-
Atsbi Wenberta	*	*	*	*	-	-	-
South Tigray Zone	634	16	377	*	-	-	-
Seharte Samre	*	*	*	*	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	-	-	-	-	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayaaazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	*	*	-	-	-	-	-

TABLE 6.22.2c: Kale

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	381	*	301	2	-	-	-
West Tigray Zone	*	*	*	*	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	*	*	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	*	*	*	*	-	-	-
CentralTigray Zone	*	*	*	*	-	-	-
Mereb Lehe	-	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-
Werie Lehe	*	*	*	*	-	-	-
Adwa	*	*	*	*	-	-	-
Laelay Maychew	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	-	-	-
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-
Hawzen	*	*	-	-	-	-	-
Wukro	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	-	-	-
Scharte Samre	-	-	-	-	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	*	*	*	*	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayaaazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	*	*	*	*	-	-	-

TABLE 6.22.2b: Head Cabbage

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	819	7	526	4	-	-	-
West Tigray Zone	*	*	*	*	-	-	-
Kafta	*	*	*	*	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	*	*	*	*	-	-	-
Mereb Lehe	-	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	-	-	-	-	-	-	-
Laelay Maychew	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	305	2	*	*	-	-	-
Gulumahada	*	*	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	-	-	-
Ganta Afeshum	*	*	*	*	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	*	*	*	*	-	-	-
Atsbi Wenberta	*	*	*	*	-	-	-
South Tigray Zone	447	3	269	*	-	-	-
Seharte Samre	*	*	-	-	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	*	*	*	*	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayaaazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	*	*	*	*	-	-	-

TABLE 6.22.2a:CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	*	*	*	351	2	6
West Tigray Zone	-	-	-	*	*	*
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	-	-	-	212	*	4
Mereb Lehe	-	-	-	-	-	-
Ahiferom	-	-	-	*	*	*
Werie Lehe	-	-	-	*	*	*
Adwa	-	-	-	*	*	*
Laelay Maychew	-	-	-	*	*	*
Tahtay Maychew	-	-	-	-	-	-
Naeder Adet	-	-	-	*	*	*
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	*	*	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	-	-	-	*	*	*
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	*	*	*
South Tigray Zone	*	*	*	*	*	-
Seharte Samre	-	-	-	-	-	-
Enderta	*	*	*	*	*	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	-	-	-

TABLE 6.22.2a: Lettuce

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	982	5	547	1	-	-	-
West Tigray Zone	147	*	*	*	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	*	*	-	-	-
Tahtay Koraro	*	*	*	*	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	*	*	*	*	-	-	-
Central Tigray Zone	382	*	171	*	-	-	-
Mereb Lehe	*	*	*	*	-	-	-
Ahiferom	*	*	*	*	-	-	-
Werie Lehe	*	*	-	-	-	-	-
Adwa	*	*	-	-	-	-	-
Laelay Maychew	*	*	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-
Naeder Adet	*	*	-	-	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	115	*	*	*	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	163	*	*	*	-	-	-
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-
Ganta Afeshum	*	*	*	*	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	*	*	*	*	-	-	-
Atsbi Wenberta	*	*	-	-	-	-	-
South Tigray Zone	*	*	*	*	-	-	-
Seharte Samre	-	-	-	-	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-

TABLE 6.22.2: CONTD.

Vegetables						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	872	9	40	7486	*	307
West Tigray Zone	239	2	*	1636	*	98
Kafta	-	-	-	*	*	-
Tahtay Adiyabo	67	*	*	*	*	*
Lalay Adiyabo	*	1	*	129	*	2
Tahtay Koraro	*	*	*	749	*	31
Medebay Zana	*	*	-	467	*	*
Asegede Tsimbela	-	-	-	*	*	*
Tselemti	-	-	-	*	*	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	288	1	*	4753	*	133
Mereb Lehe	*	*	*	637	5	14
Ahiferom	-	-	-	967	*	21
Werie Lehe	-	-	-	409	3	6
Adwa	-	-	-	355	*	8
Lalay Maychew	67	*	*	524	*	*
Tahtay Maychew	*	*	*	1220	11	29
Naeder Adet	*	*	*	445	*	11
Kola Temben	*	*	*	*	*	*
Degua Temben	-	-	-	*	*	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	*	*	*	569	15	26
Gulumahada	*	*	*	*	*	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	*	*	*
Ganta Afeshum	-	-	-	*	*	*
Hawzen	-	-	-	*	*	*
Wukro	*	*	*	*	*	*
Atsbi Wenberta	-	-	-	*	*	*
South Tigray Zone	*	*	*	528	26	49
Seharte Samre	*	*	*	*	*	*
Enderta	*	*	*	133	*	*
Hintalo Wajirat	-	-	-	224	14	19
Ambalage	-	-	-	*	*	*
Endamehoni	-	-	-	*	*	*
Rayazebo	-	-	-	-	-	-
Alamata	-	-	-	*	*	*
Wofla	*	*	*	*	*	*

TABLE 6.22.2: RURAL MEHER

Geographic Area	Vegetables						
	Total Fertilized Cropland		Type of Fertilizer Applied				
	Holder	Hectare	Natural		Dap		
Holder			Hectare	Holder	Hectare	Quintal	
Tigray Region	53488	1041	44911	444	546	4	8
West Tigray Zone	30164	427	28062	320	285	2	3
Kafta	220	*	211	*	-	-	-
Tahtay Adiyabo	6740	69	6477	66	*	*	*
Laelay Adiyabo	5411	64	5041	60	135	1	*
Tahtay Koraro	3927	37	3126	22	*	*	*
Medebay Zana	4481	48	3892	33	*	*	*
Asegede Tsimbela	6202	90	6165	84	-	-	-
Tselemti	1473	*	1440	*	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	709	9	709	9	-	-	-
Central Tigray Zone	16810	*	11702	72	233	1	*
Mereb Lehe	2720	17	1984	12	*	*	*
Ahiferom	2013	*	1046	13	-	-	-
Werie Lehe	2136	12	1727	9	-	-	-
Adwa	1302	14	972	7	*	*	*
Laelay Maychew	1133	8	523	2	*	*	*
Tahtay Maychew	1570	12	272	*	-	-	-
Naeder Adet	3845	26	3287	19	*	*	*
Kola Temben	1354	*	1181	*	*	*	*
Degua Temben	186	*	158	*	-	-	-
Tanqu Abergele	552	*	552	*	-	-	-
East Tigray Zone	2179	35	1550	18	*	*	*
Gulumahada	249	*	171	2	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	251	*	223	*	-	-	-
Ganta Afeshum	903	9	613	6	-	-	-
Hawzen	261	*	190	*	-	-	-
Wukro	247	7	207	*	-	-	-
Atsbi Wenberta	*	*	*	*	*	*	*
South Tigray Zone	4335	64	3597	34	-	-	-
Seharte Samre	534	*	*	*	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	1139	25	915	11	-	-	-
Ambalage	129	*	*	*	-	-	-
Endamehoni	327	4	290	3	-	-	-
Rayaazebo	270	5	270	5	-	-	-
Alamata	*	*	*	*	-	-	-
Wofla	1176	9	1144	7	-	-	-

TABLE 6.22.1: CONTD.

Geographic Area	Vegetables					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
Holder	Hectare	Quintal	Holder	Hectare	Quintal	
Tigray Region	1613	27	72	11070	*	726
West Tigray Zone	307	6	10	1854	*	143
Kafta	-	-	-	*	*	-
Tahtay Adiyabo	67	*	*	*	*	*
Laelay Adiyabo	145	*	2	149	2	*
Tahtay Koraro	*	*	*	833	*	*
Medebay Zana	*	*	*	553	17	37
Asegede Tsimbela	-	-	-	*	*	*
Tselemti	-	-	-	*	*	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	*	*	*
Central Tigray Zone	487	4	*	6440	*	342
Mereb Lehe	123	*	*	696	8	19
Ahiferom	*	*	*	1573	*	79
Werie Lehe	-	-	-	442	3	6
Adwa	*	*	*	561	*	*
Laelay Maychew	85	*	*	931	*	*
Tahtay Maychew	98	*	*	1270	19	38
Naeder Adet	*	*	*	496	*	13
Kola Temben	*	*	*	*	*	*
Degua Temben	-	-	-	*	*	*
Tanqu Abergele	-	-	-	*	*	*
East Tigray Zone	110	*	*	1735	57	107
Gulumahada	*	*	*	69	*	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	666	*	*
Ganta Afeshum	-	-	-	*	*	*
Hawzen	-	-	-	*	*	*
Wukro	*	*	*	*	*	*
Atsbi Wenberta	*	*	*	*	*	*
South Tigray Zone	710	14	33	1041	85	134
Seharte Samre	*	*	*	*	*	*
Enderta	358	8	*	236	*	*
Hintalo Wajirat	-	-	-	420	*	*
Ambalage	-	-	-	*	*	*
Endamehoni	-	-	-	*	*	*
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	*	*	*
Wofla	*	*	*	*	*	*

TABLE 6.22.1: RURAL HOLDINGS

Geographic Area	Vegetables						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
Tigray Region	63048	1438	51087	625	620	5	10
West Tigray Zone	30889	469	28808	341	305	2	4
Kafta	220	*	211	*	-	-	-
Tahtay Adiyabo	6740	69	6477	66	*	*	*
Laelay Adiyabo	5548	68	5178	63	155	1	2
Tahtay Koraro	4078	60	3383	31	*	*	*
Medebay Zana	4849	63	4190	42	*	*	*
Asegede Tsimbela	6202	90	6165	84	-	-	-
Tselemti	1473	*	1440	*	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	778	10	763	9	-	-	-
Central Tigray Zone	21325	*	14678	162	233	1	*
Mereb Lehe	3092	25	2276	16	*	*	*
Ahiferom	3245	*	1666	25	-	-	-
Werie Lehe	2205	15	1764	11	-	-	-
Adwa	2463	37	1977	27	*	*	*
Laelay Maychew	1696	*	755	7	*	*	*
Tahtay Maychew	1706	25	404	*	-	-	-
Naeder Adet	3985	27	3348	19	*	*	*
Kola Temben	2073	*	1716	*	*	*	*
Degua Temben	231	*	158	*	-	-	-
Tanqu Abergele	630	*	614	3	-	-	-
East Tigray Zone	4052	116	2355	55	*	*	*
Gulumahada	310	13	202	2	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	1467	49	801	27	-	-	-
Ganta Afeshum	1010	12	720	8	-	-	-
Hawzen	261	*	190	*	-	-	-
Wukro	*	33	297	16	*	*	*
Atsbi Wenberta	373	*	*	*	*	*	*
South Tigray Zone	6782	166	5246	67	*	*	*
Seharte Samre	753	*	501	*	*	*	*
Enderta	1292	*	778	12	-	-	-
Hintalo Wajirat	2354	70	1978	33	-	-	-
Ambalage	151	*	129	*	-	-	-
Endamehoni	467	6	334	4	-	-	-
Rayazebo	270	5	270	5	-	-	-
Alamata	*	*	*	*	-	-	-
Wofla	1365	14	1144	8	-	-	-

TABEL 6.22: CONTD.

Geographic Area	Vegetables								
	Type of Fertilizer Applied								
	UREA			DAP & UREA			Chemical (Urban)		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	
Tigray Region	1613	27	72	11070	*	726	73	5	
West Tigray Zone	307	6	10	1854	*	143	15	1	
Kafta	-	-	-	*	*	-	-	-	
Tahtay Adiyabo	67	*	*	*	*	*	-	-	
Laelay Adiyabo	145	*	2	149	2	*	3	*	
Tahtay Koraro	*	*	*	833	*	*	*	*	
Medebay Zana	*	*	*	553	17	37	-	-	
Asegede Tsimbela	-	-	-	*	*	*	1	1	
Tselemti	-	-	-	*	*	-	-	-	
Welkait	-	-	-	-	-	-	-	-	
Tsegede	-	-	-	*	*	*	-	-	
Central Tigray Zone	487	4	*	6440	*	342	31	1	
Mereb Lehe	123	*	*	696	8	19	-	-	
Ahiferom	*	*	*	1573	*	79	17	*	
Werie Lehe	-	-	-	442	3	6	*	*	
Adwa	*	*	*	561	*	*	5	*	
Laelay Maychew	85	*	*	931	*	*	4	*	
Tahtay Maychew	98	*	*	1270	19	38	-	-	
Naeder Adet	*	*	*	496	*	13	-	-	
Kola Temben	*	*	*	*	*	*	1	*	
Degua Temben	-	-	-	*	*	*	-	-	
Tanqu Abergele	-	-	-	*	*	*	-	-	
East Tigray Zone	110	*	*	1735	57	107	*	*	
Gulumahada	*	*	*	69	*	*	-	-	
Erob	-	-	-	-	-	-	-	-	
Saesi Tsaedamba	*	*	*	666	*	*	-	-	
Ganta Afeshum	-	-	-	*	*	*	*	*	
Hawzen	-	-	-	*	*	*	-	-	
Wukro	*	*	*	*	*	*	-	-	
Atsbi Wenberta	*	*	*	*	*	*	-	-	
South Tigray Zone	710	14	33	1041	85	134	25	*	
Seharte Samre	*	*	*	*	*	*	-	-	
Enderta	358	8	*	236	*	*	*	*	
Hintalo Wajirat	-	-	-	420	*	*	-	-	
Ambalage	-	-	-	*	*	*	*	*	
Endamehoni	-	-	-	*	*	*	-	-	
Rayaazebo	-	-	-	-	-	-	-	-	
Alamata	-	-	-	*	*	*	10	*	
Wofla	*	*	*	*	*	*	-	-	
Mekele Zone	-	-	-	-	-	-	-	-	
Mekele	-	-	-	-	-	-	-	-	

TABLE 6.22: NUMBER OF HOLDER APPLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Vegetables							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	63181	1468	51148	650	620	5	10
West Tigray Zone	30922	484	28827	354	305	2	4
Kafta	220	*	211	*	-	-	-
Tahtay Adiyabo	6740	69	6477	66	*	*	*
Laelay Adiyabo	5551	69	5178	63	155	1	2
Tahtay Koraro	4104	60	3399	31	*	*	*
Medebay Zana	4849	63	4190	42	*	*	*
Asegede Tsimbela	6206	104	6168	97	-	-	-
Tselemti	1473	*	1440	*	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	778	10	763	9	-	-	-
Central Tigray Zone	21362	*	14683	162	233	1	*
Mereb Lehe	3092	25	2276	16	*	*	*
Ahiferom	3264	*	1668	25	-	-	-
Werie Lehe	2208	15	1764	11	-	-	-
Adwa	2472	37	1980	27	*	*	*
Laelay Maychew	1700	*	755	7	*	*	*
Tahtay Maychew	1706	25	404	*	-	-	-
Naeder Adet	3985	27	3348	19	*	*	*
Kola Temben	2074	*	1716	*	*	*	*
Degua Temben	231	*	158	*	-	-	-
Tanqu Abergele	630	*	614	3	-	-	-
East Tigray Zone	4058	116	2359	55	*	*	*
Gulumahada	310	13	202	2	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	1470	49	804	27	-	-	-
Ganta Afeshum	1011	12	720	8	-	-	-
Hawzen	261	*	190	*	-	-	-
Wukro	*	33	298	16	*	*	*
Atsbi Wenberta	373	*	*	*	*	*	*
South Tigray Zone	6826	169	5265	67	*	*	*
Seharte Samre	753	*	501	*	*	*	*
Enderta	1317	*	798	12	-	-	-
Hintalo Wajirat	2354	70	1978	33	-	-	-
Ambalage	160	*	129	*	-	-	-
Endamehoni	467	6	334	4	-	-	-
Rayaazebo	270	5	270	5	-	-	-
Alamata	*	6	*	*	-	-	-
Wofla	1365	14	1144	8	-	-	-
Mekele Zone	14	*	14	*	-	-	-
Mekele	14	*	14	*	-	-	-

TABLE 6.21.3: URBAN HOLDINGS

Geographic Area	Oil Seeds							
	Application of Total Fertilizers		Type of Fertilizer Applied					
			Natural		Chemical		Natural and Chemical	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Tigray Region	57	14	19	*	38	9	-	-
West Tigray Zone	16	5	3	*	*	4	-	-
Kafta	1	-	1	-	-	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-	-
Medebay Zana	1	*	-	-	1	*	-	-
Asegede Tsimbela	-	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	*	3	-	-	*	3	-	-
Tsegede	-	-	-	-	-	-	-	-
CentralTigray Zone	18	5	*	*	*	*	-	-
Mereb Lehe	*	*	-	-	*	*	-	-
Ahiferom	-	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-	-
Adwa	-	-	-	-	-	-	-	-
Laelay Maychew	*	*	*	*	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	*	*	-	-	*	*	-	-
Degua Temben	-	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	*	*	-	-
Gulumahada	-	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-	-
Hawzen	*	*	-	-	*	*	-	-
Wukro	1	*	-	-	1	*	-	-
Atsbi Wənberta	*	*	*	*	-	-	-	-
South Tigray Zone	*	*	*	*	*	*	-	-
Seharte Samre	*	*	-	-	*	*	-	-
Enderta	*	*	*	*	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-	-
Mekele Zone	*	*	*	*	*	*	-	-
Mekele	*	*	*	*	*	*	-	-

TABLE 6.21.2f:CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	-	-	-	376	20	29
West Tigray Zone	-	-	-	*	*	*
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	*	*	*
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	-	-	-	*	*	*
Mereb Lehe	-	-	-	*	*	*
Ahiferom	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-
Adwa	-	-	-	-	-	-
Laelay Maychew	-	-	-	*	*	*
Tahtay Maychew	-	-	-	*	*	*
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	-	-	-	*	*	*
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	*	*	*
Hawzen	-	-	-	*	*	*
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	*	*	*
South Tigray Zone	-	-	-	*	*	*
Seharte Samre	-	-	-	-	-	-
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	*	*	*
Wofla	-	-	-	-	-	-

TABLE 6.21.2f: Other Grains

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	1482	45	1130	25	-	-	-
West Tigray Zone	624	23	554	*	-	-	-
Kafta	*	*	*	*	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	*	*	-	-	-	-	-
Tahtay Koraro	*	*	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	*	*	*	*	-	-	-
Central Tigray Zone	527	11	362	*	-	-	-
Mereb Lehe	*	*	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	*	*	*	*	-	-	-
Laelay Maychew	*	*	*	*	-	-	-
Tahtay Maychew	*	*	*	*	-	-	-
Naeder Adet	*	*	*	*	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	-	-	-
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-
Ganta Afeshum	*	*	*	*	-	-	-
Hawzen	*	*	-	-	-	-	-
Wukro	-	-	-	-	-	-	-
Atsbi Wenberta	*	*	*	*	-	-	-
South Tigray Zone	108	*	*	*	-	-	-
Seharte Samre	*	*	*	*	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayaazebo	-	-	-	-	-	-	-
Alamata	*	*	-	-	-	-	-
Wofla	-	-	-	-	-	-	-

TABLE 6.21.2e: Rapeseed

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	527	15	407	11	-	-	-
West Tigray Zone	220	7	*	*	-	-	-
Kafta	*	*	*	*	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	*	*	*	*	-	-	-
Central Tigray Zone	*	*	*	*	-	-	-
Mereb Lehe	-	-	-	-	-	-	-
Ahiferom	*	*	*	*	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	-	-	-	-	-	-	-
Laelay Maychew	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	266	8	*	*	-	-	-
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	-	-	-
Ganta Afeshum	*	*	*	*	-	-	-
Hawzen	*	*	-	-	-	-	-
Wukro	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	-	-	-	-	-	-	-
Seharte Samre	-	-	-	-	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-

TABLE 6.21.2d:CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	*	*	*	292	108	81
West Tigray Zone	*	*	*	224	97	81
Kafta	*	*	*	*	*	*
Tahtay Adiyabo	-	-	-	*	*	*
Laelay Adiyabo	-	-	-	*	*	*
Tahtay Koraro	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	*	*	*
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	*	*	*
Tsegede	-	-	-	-	-	-
Central Tigray Zone	*	*	*	*	*	-
Mereb Lehe	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-
Adwa	-	-	-	-	-	-
Laelay Maychew	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-
Tanqu Abergele	*	*	*	*	*	-
East Tigray Zone	-	-	-	-	-	-
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	-	-	-	*	*	-
Seharte Samre	-	-	-	*	*	-
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	-	-	-

TABLE 6.21.2d: Sesame

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	3988	1260	3555	919	83	*	*
West Tigray Zone	3591	1214	3284	887	*	*	*
Kafta	210	370	97	83	*	*	*
Tahtay Adiyabo	764	129	694	119	-	-	-
Laelay Adiyabo	*	*	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	1501	*	1433	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	433	144	402	131	-	-	-
Tsegede	*	*	*	*	-	-	-
Central Tigray Zone	345	*	249	*	*	*	-
Mereb Lehe	*	*	*	*	-	-	-
Ahiferom	*	*	*	*	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	-	-	-	-	-	-	-
Laelay Maychew	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	-	-	-	-	-	-	-
Tanqu Abergele	248	*	*	*	*	*	-
East Tigray Zone	-	-	-	-	-	-	-
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	-	-	-
Seharte Samre	*	*	-	-	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-
Rayaazebo	*	*	*	*	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-

TABLE 6.21.2c:CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	*	*	*	232	7	*
West Tigray Zone	-	-	-	-	-	-
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	-	-	-	104	*	*
Mereb Lehe	-	-	-	*	*	*
Ahiferom	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-
Adwa	-	-	-	*	*	-
Laelay Maychew	-	-	-	-	-	-
Tahtay Maychew	-	-	-	*	*	-
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	*	-
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	*	*	*	-	-	-
Hawzen	-	-	-	*	*	-
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	-	-	-	*	*	-
Seharte Samre	-	-	-	*	*	-
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	*	*	-
Endamehoni	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	*	*	-
Wofla	-	-	-	-	-	-

TABLE 6.21.2c: Sunflower

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	627	19	376	11	*	*	-
West Tigray Zone	*	*	*	*	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	260	3	181	2	-	-	-
Mereb Lehe	*	*	*	*	-	-	-
Ahiferom	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	*	*	*	*	-	-	-
Laelay Maychew	*	*	*	*	-	-	-
Tahtay Maychew	*	*	*	*	-	-	-
Naeder Adet	*	*	*	*	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	-	-	-
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-
Ganta Afeshum	*	*	*	*	-	-	-
Hawzen	*	*	-	-	-	-	-
Wukro	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	219	14	94	*	*	*	-
Seharte Samre	*	*	-	-	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-
Ambalage	*	*	*	*	-	-	-
Endamehoni	-	-	-	-	-	-	-
Rayazebo	*	*	*	*	-	-	-
Alamata	*	*	*	*	*	*	-
Wofla	-	-	-	-	-	-	-

TABLE 6.21.2b:CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	*	*	*	1085	65	61
West Tigray Zone	-	-	-	*	*	*
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	*	*	-
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	*	*	*
CentralTigray Zone	*	*	*	550	22	30
Mereb Lehe	-	-	-	*	*	*
Ahiferom	-	-	-	*	*	*
Werie Lehe	-	-	-	*	*	*
Adwa	-	-	-	181	*	*
Laelay Maychew	-	-	-	*	*	*
Tahtay Maychew	-	-	-	*	*	*
Naeder Adet	-	-	-	*	*	*
Kola Temben	-	-	-	*	*	*
Degua Temben	*	*	*	*	*	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	*	*	*	397	25	24
Gulumahada	-	-	-	81	4	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	*	*	*	*	*	*
Hawzen	-	-	-	140	*	*
Wukro	-	-	-	*	*	*
Atsbi Wenberta	-	-	-	*	*	*
South Tigray Zone	*	*	*	*	*	*
Seharte Samre	*	*	*	*	*	*
Enderta	-	-	-	*	*	*
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	*	*	-

TABLE 6.21.2b: Linseed

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	6506	376	5239	304	91	*	*
West Tigray Zone	860	79	827	65	-	-	-
Kafta	*	*	*	*	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	*	13	*	13	-	-	-
Tahtay Koraro	*	*	-	-	-	-	-
Medebay Zana	*	*	*	*	-	-	-
Asegede Tsimbela	*	*	*	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	*	*	*	*	-	-	-
Central Tigray Zone	2573	158	1969	132	*	*	*
Mereb Lehe	294	10	274	10	-	-	-
Ahiferom	160	*	*	*	-	-	-
Werie Lehe	*	*	*	*	-	-	-
Adwa	399	10	218	*	-	-	-
Laelay Maychew	191	7	156	5	*	*	*
Tahtay Maychew	*	*	*	*	-	-	-
Naeder Adet	193	*	*	*	-	-	-
Kola Temben	229	*	*	*	-	-	-
Degua Temben	265	17	*	*	-	-	-
Tanqu Abergele	*	*	*	*	-	-	-
East Tigray Zone	2523	108	2026	80	*	*	*
Gulumahada	341	12	240	7	*	*	*
Erob	31	1	31	1	-	-	-
Saesi Tsaedamba	855	42	802	41	*	*	*
Ganta Afeshum	388	10	316	8	-	-	-
Hawzen	318	13	177	5	-	-	-
Wukro	248	10	227	9	-	-	-
Atsbi Wenberta	342	20	232	*	-	-	-
South Tigray Zone	551	33	418	27	-	-	-
Seharte Samre	266	*	208	*	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	-	-	-	-	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	*	*	*	*	-	-	-

TABLE 6.21.2a:CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	*	*	*	1310	53	60
West Tigray Zone	*	*	*	293	27	38
Kafta	-	-	-	*	*	*
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	*	*	*
Tahtay Koraro	*	*	*	*	*	*
Medebay Zana	-	-	-	*	*	*
Asegede Tsimbela	-	-	-	*	*	*
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	*	*	*
Tsegede	-	-	-	-	-	-
Central Tigray Zone	*	*	*	1017	26	21
Mereb Lehe	-	-	-	*	1	*
Ahiferom	-	-	-	*	*	-
Werie Lehe	-	-	-	*	*	*
Adwa	-	-	-	*	*	*
Laelay Maychew	*	*	*	447	9	5
Tahtay Maychew	-	-	-	165	7	*
Naeder Adet	-	-	-	*	*	*
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	-	-	-	-	-	-
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	-	-	-	-	-	-
Seharte Samre	-	-	-	-	-	-
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	-	-	-

TABLE 6.21.2a: Neug

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	4359	567	3101	513	*	*	*
West Tigray Zone	2405	505	2095	477	-	-	-
Kafta	218	23	162	16	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	*	*	*	*	-	-	-
Tahtay Koraro	94	4	*	*	-	-	-
Medebay Zana	202	*	*	*	-	-	-
Asegede Tsimbela	372	20	*	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	340	94	312	91	-	-	-
Tsegede	248	*	248	*	-	-	-
Central Tigray Zone	1877	60	930	34	*	*	*
Mereb Lehe	286	3	197	*	*	*	*
Ahiferom	*	*	*	*	-	-	-
Werie Lehe	*	*	*	*	-	-	-
Adwa	223	*	104	*	-	-	-
Laelay Maychew	597	14	152	5	-	-	-
Tahtay Maychew	233	11	*	*	-	-	-
Naeder Adet	163	*	*	*	-	-	-
Kola Temben	162	*	162	*	-	-	-
Degua Temben	-	-	-	-	-	-	-
Tanqu Abergele	*	*	*	*	-	-	-
East Tigray Zone	*	*	*	*	-	-	-
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-
Hawzen	*	*	*	*	-	-	-
Wukro	*	*	*	*	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	-	-	-	-	-	-	-
Seharte Samre	-	-	-	-	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-
Rayazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-

TABLE 6.21.2: CONTD.

Oil seeds						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	205	*	12	3033	239	206
West Tigray Zone	*	*	*	579	141	124
Kafta	*	*	*	95	*	21
Tahtay Adiyabo	-	-	-	*	*	*
Laelay Adiyabo	-	-	-	*	*	*
Tahtay Koraro	*	*	*	*	*	*
Medebay Zana	-	-	-	*	*	*
Asegede Tsimbela	-	-	-	116	*	*
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	*	*	*
Tsegede	-	-	-	*	*	*
Central Tigray Zone	*	*	*	1685	54	52
Mereb Lehe	-	-	-	*	2	*
Ahiferom	-	-	-	*	*	*
Werie Lehe	-	-	-	*	*	*
Adwa	-	-	-	318	*	*
Laelay Maychew	*	*	*	464	9	6
Tahtay Maychew	-	-	-	235	9	*
Naeder Adet	-	-	-	125	*	*
Kola Temben	-	-	-	*	*	*
Degua Temben	*	*	*	*	*	*
Tanqu Abergele	*	*	*	*	*	-
East Tigray Zone	*	*	*	530	28	26
Gulumahada	-	-	-	81	4	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	*	*	*	*	*	*
Hawzen	-	-	-	192	11	*
Wukro	-	-	-	*	*	*
Atsbi Wenberta	-	-	-	*	*	*
South Tigray Zone	*	*	*	239	*	*
Seharte Samre	*	*	*	*	*	*
Enderta	-	-	-	*	*	*
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	*	*	-
Endamehoni	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	*	*	-
Wofla	-	-	-	*	*	-

TABLE 6.21.2: RURAL MEHER

Oil Seeds							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	15464	2240	12288	1758	212	*	12
West Tigray Zone	6966	1807	6301	1436	*	*	*
Kafta	471	394	293	100	*	*	*
Tahtay Adiyabo	903	132	834	122	-	-	-
Laelay Adiyabo	290	32	*	19	-	-	-
Tahtay Koraro	133	*	*	*	-	-	-
Medebay Zana	230	20	112	*	-	-	-
Asegede Tsimbela	1827	*	1711	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	799	240	740	224	-	-	-
Tsegede	1193	*	1193	*	-	-	-
Central Tigray Zone	4787	261	3169	200	*	*	*
Mereb Lehe	510	14	402	12	*	*	*
Ahiferom	302	*	239	*	-	-	-
Werie Lehe	192	*	*	*	-	-	-
Adwa	668	13	350	*	-	-	-
Laelay Maychew	762	21	344	10	*	*	*
Tahtay Maychew	369	17	134	*	-	-	-
Naeder Adet	381	20	257	11	-	-	-
Kola Temben	429	22	402	22	-	-	-
Degua Temben	265	17	*	*	-	-	-
Tanqu Abergele	909	101	*	*	*	*	-
East Tigray Zone	2889	120	2284	89	*	*	*
Gulumahada	341	12	240	7	*	*	*
Erob	31	1	31	1	-	-	-
Saesi Tsaedamba	887	44	834	43	*	*	*
Ganta Afeshum	620	15	467	*	-	-	-
Hawzen	395	17	228	6	-	-	-
Wukro	273	11	252	10	-	-	-
Atsbi Wenberta	342	20	232	*	-	-	-
South Tigray Zone	822	52	534	34	*	*	-
Seharte Samre	333	24	208	*	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	*	*	*	*	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayazebo	*	*	*	*	-	-	-
Alamata	*	*	*	*	*	*	-
Wofla	*	*	*	*	-	-	-

TABLE 6.21.1: CONTD.

Geographic Area	Oil seeds					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	205	*	12	3033	239	206
West Tigray Zone	*	*	*	579	141	124
Kafta	*	*	*	95	*	21
Tahtay Adiyabo	-	-	-	*	*	*
Laelay Adiyabo	-	-	-	*	*	*
Tahtay Koraro	*	*	*	*	*	*
Medebay Zana	-	-	-	*	*	*
Asegede Tsimbela	-	-	-	116	*	*
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	*	*	*
Tsegede	-	-	-	*	*	*
Central Tigray Zone	*	*	*	1685	54	52
Mereb Lehe	-	-	-	*	2	*
Ahiferom	-	-	-	*	*	*
Werie Lehe	-	-	-	*	*	*
Adwa	-	-	-	318	*	*
Laelay Maychew	*	*	*	464	9	6
Tahtay Maychew	-	-	-	235	9	*
Naeder Adet	-	-	-	125	*	*
Kola Temben	-	-	-	*	*	*
Degua Temben	*	*	*	*	*	*
Tanqu Abergele	*	*	*	*	*	-
East Tigray Zone	*	*	*	530	28	26
Gulumahada	-	-	-	81	4	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	*	*	*	*	*	*
Hawzen	-	-	-	192	11	*
Wukro	-	-	-	*	*	*
Atsbi Wenberta	-	-	-	*	*	*
South Tigray Zone	*	*	*	239	*	*
Seharte Samre	*	*	*	*	*	*
Enderta	-	-	-	*	*	*
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	*	*	-
Endamehoni	-	-	-	-	-	-
Rayazebo	-	-	-	-	-	-
Alamata	-	-	-	*	*	-
Wofla	-	-	-	*	*	-

TABLE 6.21.1:RURAL HOLDINGS

Oil Seeds							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	15570	2242	12395	1760	212	*	12
West Tigray Zone	6966	1807	6301	1436	*	*	*
Kafta	471	394	293	100	*	*	*
Tahtay Adiyabo	903	132	834	122	-	-	-
Laelay Adiyabo	290	32	*	19	-	-	-
Tahtay Koraro	133	*	*	*	-	-	-
Medebay Zana	230	20	112	*	-	-	-
Asegede Tsimbela	1827	*	1711	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	799	240	740	224	-	-	-
Tsegede	1193	*	1193	*	-	-	-
CentralTigray Zone	4787	261	3169	200	*	*	*
Mereb Lehe	510	14	402	12	*	*	*
Ahiferom	302	*	239	*	-	-	-
Werie Lehe	192	*	*	*	-	-	-
Adwa	668	13	350	*	-	-	-
Laelay Maychew	762	21	344	10	*	*	*
Tahtay Maychew	369	17	134	*	-	-	-
Naeder Adet	381	20	257	11	-	-	-
Kola Temben	429	22	402	22	-	-	-
Degua Temben	265	17	*	*	-	-	-
Tanqu Abergele	909	101	*	*	*	*	*
East Tigray Zone	2976	121	2371	89	*	*	*
Gulumahada	341	12	240	7	*	*	*
Erob	31	1	31	1	-	-	-
Saesi Tsaedamba	943	44	890	43	*	*	*
Ganta Afeshum	620	15	467	*	-	-	-
Hawzen	395	17	228	6	-	-	-
Wukro	273	11	252	10	-	-	-
Atsbi Wenberta	372	20	262	*	-	-	-
South Tigray Zone	842	53	555	35	*	*	*
Seharte Samre	333	24	208	*	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	*	*	*	*	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayazebo	*	*	*	*	-	-	-
Alamata	*	*	*	*	*	*	*
Wofla	*	*	*	*	-	-	-

TABEL 6.21: CONTD.

Oil Seeds								
Geographic Area	Type of Fertilizer Applied							
	UREA			DAP & UREA			Chemical (Urban)	
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare
Tigray Region	205	*	12	3033	239	206	38	9
West Tigray Zone	*	*	*	579	141	124	*	4
Kafta	*	*	*	95	*	21	-	-
Tahtay Adiyabo	-	-	-	*	*	*	-	-
Laelay Adiyabo	-	-	-	*	*	*	-	-
Tahtay Koraro	*	*	*	*	*	*	-	-
Medebay Zana	-	-	-	*	*	*	1	*
Asegede Tsimbela	-	-	-	116	*	*	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	*	*	*	*	3
Tsegede	-	-	-	*	*	*	-	-
Central Tigray Zone	*	*	*	1685	54	52	*	*
Mereb Lehe	-	-	-	*	2	*	*	*
Ahiferom	-	-	-	*	*	*	-	-
Werie Lehe	-	-	-	*	*	*	-	-
Adwa	-	-	-	318	*	*	-	-
Laelay Maychew	*	*	*	464	9	6	-	-
Tahtay Maychew	-	-	-	235	9	*	-	-
Naeder Adet	-	-	-	125	*	*	-	-
Kola Temben	-	-	-	*	*	*	*	*
Degua Temben	*	*	*	*	*	*	-	-
Tanqu Abergele	*	*	*	*	*	-	-	-
East Tigray Zone	*	*	*	530	28	26	*	*
Gulumahada	-	-	-	81	4	*	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-	-
Ganta Afeshum	*	*	*	*	*	*	-	-
Hawzen	-	-	-	192	11	*	*	*
Wukro	-	-	-	*	*	*	1	*
Atsbi Wenberta	-	-	-	*	*	*	-	-
South Tigray Zone	*	*	*	239	*	*	*	*
Seharte Samre	*	*	*	*	*	*	*	*
Enderta	-	-	-	*	*	*	-	-
Hintalo Wajirat	-	-	-	-	-	-	-	-
Ambalage	-	-	-	*	*	-	-	-
Endamehoni	-	-	-	-	-	-	-	-
Rayaaazebo	-	-	-	-	-	-	-	-
Alamata	-	-	-	*	*	-	-	-
Wofla	-	-	-	*	*	-	-	-
Mekele Zone	-	-	-	-	-	-	*	*
Mekele	-	-	-	-	-	-	*	*

TABLE 6.21: NUMBER OF HOLDER APPLLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Oil Seeds						
	Total Fertilized Cropland		Type of Fertilizer Applied				
	Holder	Hectare	Natural		Dap		
Holder			Hectare	Holder	Hectare	Quintal	
Tigray Region	15627	2256	12413	1765	212	*	12
West Tigray Zone	6982	1812	6304	1437	*	*	*
Kafta	472	394	294	100	*	*	*
Tahtay Adiyabo	905	133	836	123	-	-	-
Laelay Adiyabo	290	32	*	19	-	-	-
Tahtay Koraro	133	*	*	*	-	-	-
Medebay Zana	232	20	112	*	-	-	-
Asegede Tsimbela	1827	*	1711	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	810	244	740	224	-	-	-
Tsegede	1193	*	1193	*	-	-	-
CentralTigray Zone	4805	266	3173	201	*	*	*
Mereb Lehe	513	16	402	12	*	*	*
Ahiferom	302	*	239	*	-	-	-
Werie Lehe	192	*	*	*	-	-	-
Adwa	668	13	350	*	-	-	-
Laelay Maychew	766	21	348	11	*	*	*
Tahtay Maychew	369	17	134	*	-	-	-
Naeder Adet	381	20	257	11	-	-	-
Kola Temben	438	24	402	22	-	-	-
Degua Temben	265	17	*	*	-	-	-
Tanqu Abergele	909	101	*	*	*	*	-
East Tigray Zone	2984	121	2373	90	*	*	*
Gulumahada	341	12	240	7	*	*	*
Erob	31	1	31	1	-	-	-
Saesi Tsaedamba	943	44	890	43	*	*	*
Ganta Afeshum	620	15	467	*	-	-	-
Hawzen	400	17	228	6	-	-	-
Wukro	274	11	252	10	-	-	-
Atsbi Wenberta	374	21	264	*	-	-	-
South Tigray Zone	851	57	561	38	*	*	-
Seharte Samre	336	25	208	*	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	*	*	*	*	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayaazebo	*	*	*	*	-	-	-
Alamata	*	*	*	*	*	*	-
Wofla	*	*	*	*	-	-	-
Mekele Zone	*	*	*	*	-	-	-
Mekele	*	*	*	*	-	-	-

TABEL 6.20.4: URBAN HOLDINGS

Geographic Area	Pulses							
	Application of Total Fertilizers		Type of Fertilizer Applied					
			Natural		Chemical		Natural and Chemical	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Tigray Region	433	133	65	*	320	96	48	11
West Tigray Zone	51	11	*	*	42	9	4	1
Kafta	-	-	-	-	-	-	-	-
Tahtay Adiyabo	*	*	-	-	*	*	-	-
Laelay Adiyabo	-	-	-	-	-	-	-	-
Tahtay Koraro	24	6	-	-	22	*	2	*
Medebay Zana	17	2	*	*	15	2	-	-
Asegede Tsimbela	*	*	*	*	-	-	-	-
Tselemti	-	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-	-
Tsegede	2	*	-	-	-	-	2	*
Central Tigray Zone	244	80	36	5	184	67	23	7
Mereb Lehe	13	*	-	-	10	*	*	*
Ahiferom	50	8	1	*	49	8	-	-
Werie Lehe	60	10	*	*	41	8	*	*
Adwa	4	9	-	-	2	8	*	*
Laelay Maychew	67	21	11	2	44	16	12	3
Tahtay Maychew	12	4	3	1	8	4	1	*
Naeder Adet	-	-	-	-	-	-	-	-
Kola Temben	18	2	*	*	*	1	-	-
Degua Temben	19	3	-	-	19	3	-	-
Tanqu Abergele	-	-	-	-	-	-	-	-
East Tigray Zone	69	27	20	*	30	4	19	3
Gulumahada	1	*	-	-	1	*	-	-
Erob	-	-	-	-	-	-	-	-
Saesi Tsaedamba	6	*	3	*	-	-	2	*
Ganta Afeshum	12	1	-	-	11	1	*	*
Hawzen	28	4	-	-	18	3	*	1
Wukro	3	1	-	-	1	*	*	*
Atsbi Wenberta	19	*	16	*	-	-	*	*
South Tigray Zone	62	16	4	1	56	15	2	*
Seharte Samre	*	*	-	-	*	*	-	-
Enderta	*	*	-	-	*	*	-	-
Hintalo Wajirat	5	2	2	*	2	1	1	*
Ambalage	*	*	-	-	*	*	-	-
Endamehoni	6	1	1	*	4	1	1	*
Rayaaazebo	-	-	-	-	-	-	-	-
Alamata	*	*	-	-	*	*	-	-
Wofla	23	7	1	*	22	7	-	-
Mekele Zone	*	*	-	-	*	*	-	-
Mekele	*	*	-	-	*	*	-	-

TABEL 6.20.3: CONTD.

Geographic Area	Pulses					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	*	*	*	623	85	100
West Tigray Zone	-	-	-	*	*	*
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
CentralTigray Zone	*	*	-	*	*	*
Mereb Lehe	*	*	-	*	*	*
Ahiferom	-	-	-	*	*	*
Werie Lehe	-	-	-	-	-	-
Adwa	-	-	-	-	-	-
Laelay Maychew	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	-	-	-	*	*	*
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	*	*	*
Ganta Afeshum	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	*	*	*
South Tigray Zone	*	*	*	402	*	83
Seharte Samre	*	*	*	*	*	*
Enderta	-	-	-	*	*	*
Hintalo Wajirat	-	-	-	*	*	*
Ambalage	-	-	-	*	*	*
Endamehoni	-	-	-	*	*	*
Rayaaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	*	*	*

TABEL 6.20.3: RURAL BELG

Geographic Area	Pulses						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
Tigray Region	1769	196	1095	110	-	-	-
West Tigray Zone	*	*	*	*	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	*	*	*	*	-	-	-
Medebay Zana	*	*	*	*	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	411	20	258	*	-	-	-
Mereb Lehe	*	*	-	-	-	-	-
Ahiferom	*	*	*	*	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	*	*	*	*	-	-	-
Laelay Maychew	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	260	17	189	*	-	-	-
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	-	-	-	-	-	-	-
Atsbi Wenberta	175	*	*	*	-	-	-
South Tigray Zone	1034	157	600	82	-	-	-
Seharte Samre	*	*	-	-	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	427	*	215	*	-	-	-
Ambalage	*	*	*	*	-	-	-
Endamehoni	187	*	115	*	-	-	-
Rayaazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	192	16	160	*	-	-	-

TABEL 6.20.2h: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	*	*	*	643	55	50
West Tigray Zone	-	-	-	104	*	*
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	-	-	-	*	*	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	*	*	*	481	35	35
Mereb Lehe	-	-	-	-	-	-
Ahiferom	-	-	-	*	*	*
Werie Lehe	-	-	-	-	-	-
Adwa	-	-	-	-	-	-
Laelay Maychew	*	*	*	291	25	19
Tahtay Maychew	-	-	-	*	*	*
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	*	*	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	*	*
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-
Wukro	*	*	*	-	-	-
Atsbi Wenberta	-	-	-	*	*	*
South Tigray Zone	-	-	-	*	*	*
Seharte Samre	-	-	-	-	-	-
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	*	*	*
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	-	-	-

TABEL 6.20.2h : Fenugreek

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	1329	86	657	26	*	*	*
West Tigray Zone	164	23	*	*	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Lalay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	*	*	-	-	-	-	-
Medebay Zana	*	*	*	*	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	711	51	221	12	*	*	*
Mereb Lehe	-	-	-	-	-	-	-
Ahiferom	*	*	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	-	-	-	-	-	-	-
Lalay Maychew	403	36	*	*	*	*	*
Tahtay Maychew	*	*	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	206	*	145	*	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	260	8	216	8	-	-	-
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	128	*	108	*	-	-	-
Atsbi Wenberta	*	*	*	*	-	-	-
South Tigray Zone	194	*	161	*	-	-	-
Seharte Samre	-	-	-	-	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	*	*	*	*	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	*	*	*	*	-	-	-

TABEL 6.20.2g : Soya beans

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	173	*	*	*	-	-	-
West Tigray Zone	-	-	-	-	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	*	*	*	*	-	-	-
Mereb Lehe	-	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	-	-	-	-	-	-	-
Laelay Maychew	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	*	*	*	*	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	*	*	*	*	-	-	-
Gulumahada	*	*	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-
Hawzen	*	*	*	*	-	-	-
Wukro	-	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	-	-	-
Seharte Samre	-	-	-	-	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	*	*	-	-	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayaaazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	-	-	-	-	-	-	-

TABEL 6.20.2f: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	*	*	*	906	144	142
West Tigray Zone	-	-	-	*	*	*
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	-	-	-	*	*	*
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	*	*	-	*	*	50
Mereb Lehe	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-
Adwa	-	-	-	*	*	*
Laelay Maychew	*	*	-	*	*	*
Tahtay Maychew	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	*	*	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	*	*	*	342	43	39
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	*	*	*
Ganta Afeshum	-	-	-	*	*	*
Hawzen	*	*	*	138	*	*
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	-	-	-	*	*	*
Seharte Samre	-	-	-	-	-	-
Enderta	-	-	-	*	*	*
Hintalo Wajirat	-	-	-	*	*	*
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	-	-	-

TABEL 6.20.2f : Vetch

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	4478	632	3600	484	-	-	-
West Tigray Zone	123	*	*	*	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	*	*	-	-	-	-	-
Medebay Zana	*	*	-	-	-	-	-
Asegede Tsimbela	*	*	*	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
CentralTigray Zone	949	135	554	78	-	-	-
Mereb Lehe	*	*	*	*	-	-	-
Ahiferom	*	*	*	*	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	*	*	-	-	-	-	-
Laelay Maychew	464	66	398	60	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	394	*	94	*	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	2834	391	2535	347	-	-	-
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	801	97	767	85	-	-	-
Ganta Afeshum	*	*	*	*	-	-	-
Hawzen	900	136	714	107	-	-	-
Wukro	961	135	961	135	-	-	-
Atsbi Wenberta	*	*	*	*	-	-	-
South Tigray Zone	572	94	436	55	-	-	-
Seharte Samre	*	*	*	*	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	188	*	*	*	-	-	-
Ambalage	-	-	-	-	-	-	-
Endamehoni	*	*	*	*	-	-	-
Rayaazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	*	*	*	*	-	-	-

TABEL 6.20.2e: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	-	-	-	1280	92	*
West Tigray Zone	-	-	-	-	-	-
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
CentralTigray Zone	-	-	-	690	62	*
Mereb Lehe	-	-	-	-	-	-
Ahiferom	-	-	-	*	*	*
Werie Lehe	-	-	-	*	*	*
Adwa	-	-	-	100	*	*
Laelay Maychew	-	-	-	*	*	*
Tahtay Maychew	-	-	-	-	-	-
Naeder Adet	-	-	-	*	*	*
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	228	*	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	-	-	-	465	20	34
Gulumahada	-	-	-	104	5	3
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	239	*	23
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	*	*	*
South Tigray Zone	-	-	-	*	*	*
Seharte Samre	-	-	-	*	*	*
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	*	*	*
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayazebo	-	-	-	-	-	-
Alamata	-	-	-	*	*	*
Wofla	-	-	-	-	-	-

TABEL 6.20.2e : Lentils

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	6162	419	4609	316	297	11	17
West Tigray Zone	*	*	*	*	-	-	-
Kafta	--	-	-	-	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
CentralTigray Zone	1849	128	1071	61	*	*	*
Mereb Lehe	-	-	-	-	-	-	-
Ahiferom	*	*	*	*	*	*	*
Werie Lehe	205	*	*	*	-	-	-
Adwa	277	6	*	*	*	*	*
Laelay Maychew	122	12	*	*	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-
Naeder Adet	*	*	*	*	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	371	59	*	*	-	-	-
Tanqu Abergele	*	*	*	*	-	-	-
East Tigray Zone	3042	162	2434	139	143	*	*
Gulumahada	161	6	57	*	-	-	-
Erob	54	2	54	2	-	-	-
Saesi Tsaedamba	602	20	540	18	*	*	*
Ganta Afeshum	1324	62	1039	53	*	*	*
Hawzen	-	-	-	-	-	-	-
Wukro	*	*	*	*	-	-	-
Atsbi Wenberta	791	55	634	48	*	*	*
South Tigray Zone	1256	124	1088	111	*	*	*
Seharte Samre	*	*	*	*	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	337	29	286	24	-	-	-
Ambalage	125	*	103	*	*	*	*
Endamehoni	508	30	487	30	*	*	*
Rayaazebo	-	-	-	-	-	-	-
Alamata	*	*	*	*	-	-	-
Wofla	*	*	*	*	-	-	-

TABEL 6.20.2d CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	135	*	*	1041	162	185
West Tigray Zone	*	*	*	217	29	49
Kafta	-	-	-	*	*	*
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	-	-	-	*	*	*
Asegede Tsimbela	*	*	*	*	*	*
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	*	*	*
Tsegede	-	-	-	-	-	-
Central Tigray Zone	*	*	*	400	43	36
Mereb Lehe	-	-	-	*	*	*
Ahiferom	-	-	-	-	-	-
Werie Lehe	*	*	*	*	*	*
Adwa	-	-	-	*	*	*
Laelay Maychew	-	-	-	68	11	*
Tahtay Maychew	-	-	-	*	*	*
Naeder Adet	-	-	-	*	*	*
Kola Temben	-	-	-	*	*	*
Degua Temben	-	-	-	*	*	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	*	*	*	232	25	23
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	*	*	*
Ganta Afeshum	-	-	-	*	*	*
Hawzen	*	*	*	*	*	*
Wukro	-	-	-	*	*	*
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	-	-	-	*	*	*
Seharte Samre	-	-	-	*	*	*
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	*	*	*
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	*	*	*

TABEL 6.20.2d : Chick peas

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	11624	1578	10362	1383	*	*	*
West Tigray Zone	3445	419	3122	381	*	*	*
Kafta	114	*	*	*	-	-	-
Tahtay Adiyabo	607	71	607	71	-	-	-
Laelay Adiyabo	634	42	608	40	*	*	*
Tahtay Koraro	98	*	*	*	-	-	-
Medebay Zana	257	42	140	*	-	-	-
Asegede Tsimbela	1440	169	1332	159	*	*	*
Tselemti	*	*	*	*	-	-	-
Welkait	246	*	218	*	-	-	-
Tsegede	*	*	*	*	-	-	-
Central Tigray Zone	2941	354	2504	299	*	*	*
Mereb Lehe	*	*	*	*	*	*	*
Ahiferom	469	51	469	51	-	-	-
Werie Lehe	537	76	472	62	-	-	-
Adwa	304	33	203	*	-	-	-
Laelay Maychew	558	74	505	63	-	-	-
Tahtay Maychew	276	25	230	*	-	-	-
Naeder Adet	324	37	272	34	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	*	*	*	*	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	3439	469	3149	436	-	-	-
Gulumahada	*	*	*	*	-	-	-
Erob	29	1	29	1	-	-	-
Saesi Tsaedamba	1142	131	1076	128	-	-	-
Ganta Afeshum	*	*	*	*	-	-	-
Hawzen	1375	231	1211	206	-	-	-
Wukro	460	61	423	57	-	-	-
Atsbi Wenberta	*	*	*	*	-	-	-
South Tigray Zone	1800	336	1586	267	*	*	*
Seharte Samre	357	70	330	61	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	*	*	*	*	*	*	*
Endamehoni	*	*	*	*	-	-	-
Rayaaazebo	891	167	891	167	-	-	-
Alamata	*	*	*	*	-	-	-
Wofla	*	*	*	*	-	-	-

TABEL 6.20.2c CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	*	*	*	321	*	*
West Tigray Zone	*	*	*	*	*	-
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-
Medebay Zana	*	*	*	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	*	*	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	*	*	-	226	*	*
Mereb Lehe	-	-	-	*	*	*
Ahiferom	-	-	-	-	-	-
Werie Lehe	-	-	-	*	*	*
Adwa	-	-	-	*	*	*
Laelay Maychew	-	-	-	*	*	*
Tahtay Maychew	-	-	-	-	-	-
Naeder Adet	*	*	-	*	*	*
Kola Temben	-	-	-	*	*	-
Degua Temben	-	-	-	*	*	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	-	-	-	*	*	*
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	*	*	*
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	*	*	*	-	-	-
Seharte Samre	-	-	-	-	-	-
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-
Alamata	*	*	*	-	-	-
Wofla	-	-	-	-	-	-

TABEL 6.20.2c : Haricot beans

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	3643	268	3244	255	-	-	-
West Tigray Zone	1121	59	1018	57	-	-	-
Kafta	*	*	*	*	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	*	*	*	*	-	-	-
Tahtay Koraro	*	*	*	*	-	-	-
Medebay Zana	*	*	*	*	-	-	-
Asegede Tsimbela	*	*	*	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	*	*	*	*	-	-	-
Central Tigray Zone	2278	161	2025	152	-	-	-
Mereb Lehe	133	*	*	*	-	-	-
Ahiferom	-	-	-	-	-	-	-
Werie Lehe	*	*	*	*	-	-	-
Adwa	*	*	*	*	-	-	-
Laelay Maychew	*	*	*	*	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-
Naeder Adet	610	43	559	*	-	-	-
Kola Temben	685	31	653	28	-	-	-
Degua Temben	*	*	-	-	-	-	-
Tanqu Abergele	646	*	646	*	-	-	-
East Tigray Zone	79	*	*	*	-	-	-
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-
Ganta Afeshum	*	*	-	-	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	*	*	*	*	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	-	-	-
Seharte Samre	*	*	*	*	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-
Rayaaazebo	-	-	-	-	-	-	-
Alamata	*	*	-	-	-	-	-
Wofla	-	-	-	-	-	-	-

TABEL 6.20.2b : CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	233	18	*	1542	123	157
West Tigray Zone	-	-	-	*	*	*
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	*	*	*
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	-	-	-	431	30	31
Mereb Lehe	-	-	-	-	-	-
Ahiferom	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-
Adwa	-	-	-	153	*	*
Laelay Maychew	-	-	-	-	-	-
Tahtay Maychew	-	-	-	98	*	*
Naeder Adet	-	-	-	*	*	*
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	106	*	*
Tanqu Abergele	-	-	-	*	*	*
East Tigray Zone	201	17	11	822	70	71
Gulumahada	*	*	*	144	7	6
Erob	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	*	*
Ganta Afeshum	*	*	*	389	*	*
Hawzen	-	-	-	*	*	*
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	*	*	*
South Tigray Zone	*	*	*	259	*	*
Seharte Samre	-	-	-	-	-	-
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	*	*	*
Rayaaazebo	-	-	-	-	-	-
Alamata	-	-	-	*	*	*
Wofla	*	*	*	*	*	*

TABEL 6.20.2b : Field peas

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	11214	736	8992	546	499	48	60
West Tigray Zone	470	27	441	27	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	*	*	*	*	-	-	-
Tahtay Koraro	-	-	-	-	-	-	-
Medebay Zana	*	*	*	*	-	-	-
Asegede Tsimbela	*	*	*	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	*	*	*	*	-	-	-
CentralTigray Zone	1820	113	1339	80	*	*	*
Mereb Lehe	*	*	*	*	*	*	*
Ahiferom	*	*	*	*	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	275	18	*	*	-	-	-
Laelay Maychew	411	36	411	36	-	-	-
Tahtay Maychew	256	10	136	*	*	*	*
Naeder Adet	*	*	*	*	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	274	20	*	*	-	-	-
Tanqu Abergele	*	*	*	*	-	-	-
East Tigray Zone	7721	489	6426	377	323	26	29
Gulumahada	837	34	630	23	-	-	-
Erob	157	3	157	3	-	-	-
Saesi Tsaedamba	3219	225	2767	186	240	*	*
Ganta Afeshum	1038	84	622	38	-	-	-
Hawzen	328	21	304	20	-	-	-
Wukro	*	*	*	*	-	-	-
Atsbi Wenberta	2082	120	1888	106	*	*	*
South Tigray Zone	1203	106	786	63	*	*	*
Seharte Samre	-	-	-	-	-	-	-
Enderta	-	-	-	-	-	-	-
Hintalo Wajirat	208	*	208	*	-	-	-
Ambalage	206	*	*	*	*	*	*
Endamehoni	135	13	117	12	-	-	-
Rayaazebo	*	*	*	*	-	-	-
Alamata	*	*	*	*	-	-	-
Wofla	368	30	223	17	-	-	-

TABEL 6.20.2a: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	609	39	47	12794	842	1302
West Tigray Zone	*	*	*	900	55	170
Kafta	-	-	-	*	*	*
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	*	*	*
Tahtay Koraro	*	*	*	95	5	*
Medebay Zana	-	-	-	557	41	113
Asegede Tsimbela	-	-	-	*	*	*
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	*	*	*
Tsegede	*	*	*	*	*	*
Central Tigray Zone	202	*	*	8512	556	714
Mereb Lehe	*	*	*	349	11	15
Ahiferom	-	-	-	1660	95	*
Werie Lehe	*	*	*	663	*	66
Adwa	*	*	*	2462	125	210
Laelay Maychew	*	*	-	437	24	36
Tahtay Maychew	*	*	-	1264	103	107
Naeder Adet	-	-	-	1017	46	50
Kola Temben	-	-	-	*	*	*
Degua Temben	*	*	*	524	76	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	318	21	*	1956	92	128
Gulumahada	*	*	-	75	*	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	143	*	6
Ganta Afeshum	*	*	*	470	17	28
Hawzen	127	*	*	260	10	*
Wukro	-	-	-	313	17	18
Atsbi Wenberta	*	*	*	695	39	60
South Tigray Zone	*	*	-	1426	139	290
Seharte Samre	-	-	-	*	*	*
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	*	*	*
Ambalage	-	-	-	167	*	*
Endamehoni	-	-	-	168	*	34
Rayaaazebo	-	-	-	-	-	-
Alamata	-	-	-	*	*	*
Wofla	*	*	-	828	84	209

TABEL 6.20.2a : Horse beans

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	69959	4599	56332	3577	1209	142	161
West Tigray Zone	6925	607	5904	515	110	31	*
Kafta	157	5	114	4	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	913	41	806	32	*	*	*
Tahtay Koraro	693	52	559	45	-	-	-
Medebay Zana	2289	182	1728	132	*	*	*
Asegede Tsimbela	412	*	360	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	2006	283	1937	262	*	*	*
Central Tigray Zone	37447	2423	29039	1821	431	35	28
Mereb Lehe	1733	55	1403	43	*	*	*
Ahiferom	6553	369	4843	266	*	*	*
Werie Lehe	4303	395	3683	316	*	*	*
Adwa	8459	477	6093	349	*	*	*
Laelay Maychew	4545	387	4163	361	-	-	-
Tahtay Maychew	2888	221	1595	112	*	*	*
Naeder Adet	4459	211	3381	151	*	*	*
Kola Temben	1842	67	1705	65	-	-	-
Degua Temben	2667	242	2173	160	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	18250	1027	15853	889	299	24	23
Gulumahada	261	9	166	7	-	-	-
Erob	44	3	44	3	-	-	-
Saesi Tsaedamba	3730	173	3648	166	-	-	-
Ganta Afeshum	3182	156	2631	135	*	*	*
Hawzen	1559	73	1168	57	*	*	*
Wukro	1632	101	1389	84	-	-	-
Atsbi Wenberta	7842	511	6809	438	246	20	21
South Tigray Zone	7336	543	5536	351	370	51	93
Sharte Samre	2086	65	2000	63	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	501	*	*	*	-	-	-
Ambalage	1139	136	805	87	166	29	34
Endamehoni	1259	132	1034	103	*	*	*
Rayazebo	-	-	-	-	-	-	-
Alamata	163	*	*	*	*	*	*
Wofla	2055	166	1093	70	*	*	*

TABEL 6.20.2: CONTD.

Geographic Area	Pulses					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	1131	88	79	17350	1428	2171
West Tigray Zone	104	*	*	1280	112	246
Kafta	-	-	-	*	*	*
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	*	*	*
Tahtay Koraro	*	*	*	225	25	26
Medebay Zana	*	*	*	706	69	168
Asegede Tsimbela	*	*	*	*	*	*
Tselemti	-	-	-	*	*	-
Welkait	-	-	-	*	*	*
Tsegede	*	*	*	*	*	*
CentralTigray Zone	295	29	*	10424	789	1145
Mereb Lehe	*	*	*	409	14	16
Ahiferom	-	-	-	1798	112	*
Werie Lehe	*	*	*	796	*	68
Adwa	*	*	*	2717	149	235
Laelay Maychew	*	*	*	847	68	81
Tahtay Maychew	*	*	-	1413	110	119
Naeder Adet	*	*	-	1117	59	60
Kola Temben	-	-	-	*	*	*
Degua Temben	*	*	*	1143	185	*
Tanqu Abergele	-	-	-	*	*	*
East Tigray Zone	640	48	47	3652	250	296
Gulumahada	*	*	*	323	14	11
Erob	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	454	33	44
Ganta Afeshum	*	*	*	1192	71	101
Hawzen	228	15	8	488	56	39
Wukro	*	*	*	322	21	23
Atsbi Wenberta	*	*	*	872	55	78
South Tigray Zone	*	*	*	1994	277	484
Seharte Samre	-	-	-	143	*	*
Enderta	-	-	-	*	*	*
Hintalo Wajirat	-	-	-	*	*	*
Ambalage	-	-	-	188	*	*
Endamehoni	-	-	-	185	*	34
Rayaaazebo	-	-	-	-	-	-
Alamata	*	*	*	*	*	*
Wofla	*	*	*	917	99	245

TABEL 6.20.2: RURAL MEHER

Geographic Area	Pulses						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
Tigray Region	97085	8333	79256	6603	2018	215	246
West Tigray Zone	11759	1151	10240	992	192	39	19
Kafta	247	15	204	14	-	-	-
Tahtay Adiyabo	662	77	662	77	-	-	-
Laelay Adiyabo	1616	90	1483	79	*	*	*
Tahtay Koraro	868	88	622	61	-	-	-
Medebay Zana	2635	239	1897	160	*	*	*
Asegede Tsimbela	2427	222	2267	210	*	*	*
Tselemti	595	36	521	35	-	-	-
Welkait	657	89	600	83	-	-	-
Tsegede	2051	295	1982	274	*	*	*
Central Tigray Zone	43809	3370	34048	2508	609	44	35
Mereb Lehe	1972	86	1554	69	*	*	*
Ahiferom	7332	456	5458	334	*	*	*
Werie Lehe	4981	492	4263	395	*	*	*
Adwa	8844	538	6322	383	*	*	*
Laelay Maychew	5178	611	4606	535	*	*	*
Tahtay Maychew	3242	257	1883	140	*	*	*
Naeder Adet	5114	304	3934	229	*	*	*
Kola Temben	2675	113	2537	103	-	-	-
Degua Temben	3660	423	2700	232	-	-	-
Tanqu Abergele	812	91	791	89	-	-	-
East Tigray Zone	29781	2555	25551	2203	712	53	61
Gulumahada	1239	50	831	32	-	-	-
Erob	268	8	268	8	-	-	-
Saesi Tsaedamba	7690	648	7117	585	271	23	20
Ganta Afeshum	5233	341	4023	259	*	*	*
Hawzen	3478	464	2860	392	*	*	*
Wukro	2695	327	2470	306	-	-	-
Atsbi Wenberta	9180	716	7981	622	343	26	38
South Tigray Zone	11736	1257	9417	899	505	78	131
Seharte Samre	2782	207	2639	195	-	-	-
Enderta	269	*	*	*	-	-	-
Hintalo Wajirat	1407	170	1095	74	-	-	-
Ambalage	1438	194	975	118	301	55	72
Endamehoni	1859	184	1659	153	*	*	*
Rayaaazebo	964	171	964	171	-	-	-
Alamata	607	78	339	48	*	*	-
Wofla	2409	222	1497	109	*	*	*

TABLE 6.20.1: CONTD.

Geographic Area	Pulses					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
Holder	Hectare	Quintal	Holder	Hectare	Quintal	
Tigray Region	1182	89	80	17902	1513	2272
West Tigray Zone	104	*	*	1296	113	248
Kafta	-	-	-	*	*	*
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	*	*	*
Tahtay Koraro	*	*	*	241	26	28
Medebay Zana	*	*	*	706	69	168
Asegede Tsimbela	*	*	*	*	*	*
Tselemti	-	-	-	*	*	-
Welkait	-	-	-	*	*	*
Tsegede	*	*	*	*	*	*
CentralTigray Zone	314	29	*	10521	797	1151
Mereb Lehe	*	*	*	428	16	18
Ahiferom	-	-	-	1875	118	*
Werie Lehe	*	*	*	796	*	68
Adwa	*	*	*	2717	149	235
Laelay Maychew	*	*	*	847	68	81
Tahtay Maychew	*	*	-	1413	110	119
Naeder Adet	*	*	-	1117	59	60
Kola Temben	-	-	-	*	*	*
Degua Temben	*	*	*	1143	185	*
Tanqu Abergele	-	-	-	*	*	*
East Tigray Zone	640	48	47	3722	254	305
Gulumahada	*	*	*	323	14	11
Erob	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	486	33	48
Ganta Afeshum	*	*	*	1192	71	101
Hawzen	228	15	8	488	56	39
Wukro	*	*	*	322	21	23
Atsbi Wenberta	*	*	*	911	58	83
South Tigray Zone	124	*	*	2363	350	568
Seharte Samre	*	*	*	169	*	*
Enderta	-	-	-	*	*	*
Hintalo Wajirat	-	-	-	492	*	*
Ambalage	-	-	-	215	*	*
Endamehoni	-	-	-	257	26	44
Rayaazebo	-	-	-	-	-	-
Alamata	*	*	*	*	*	*
Wofla	*	*	*	949	105	246

TABLE 6.20.1:RURAL HOLDINGS.

Geographic Area	Pulses						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
Tigray Region	98330	8529	80098	6712	2018	215	246
West Tigray Zone	11794	1153	10287	994	192	39	19
Kafta	247	15	204	14	-	-	-
Tahtay Adiyabo	662	77	662	77	-	-	-
Laelay Adiyabo	1616	90	1483	79	*	*	*
Tahtay Koraro	903	90	641	62	-	-	-
Medebay Zana	2635	239	1925	161	*	*	*
Asegede Tsimbela	2427	222	2267	210	*	*	*
Tselemti	595	36	521	35	-	-	-
Welkait	657	89	600	83	-	-	-
Tsegede	2051	295	1982	274	*	*	*
CentralTigray Zone	43997	3391	34176	2521	609	44	35
Mereb Lehe	1991	88	1554	69	*	*	*
Ahiferom	7408	471	5493	343	*	*	*
Werie Lehe	4981	492	4263	395	*	*	*
Adwa	8863	538	6341	383	*	*	*
Laelay Maychew	5178	611	4606	535	*	*	*
Tahtay Maychew	3242	257	1883	140	*	*	*
Naeder Adet	5114	304	3934	229	*	*	*
Kola Temben	2749	116	2612	105	-	-	-
Degua Temben	3660	423	2700	232	-	-	-
Tanqu Abergele	812	91	791	89	-	-	-
East Tigray Zone	29918	2572	25687	2217	712	53	61
Gulumahada	1239	50	831	32	-	-	-
Erob	268	8	268	8	-	-	-
Saesi Tsaedamba	7743	651	7171	587	271	23	20
Ganta Afeshum	5233	341	4023	259	*	*	*
Hawzen	3478	464	2860	392	*	*	*
Wukro	2695	327	2470	306	-	-	-
Atsbi Wenberta	9263	731	8064	633	343	26	38
South Tigray Zone	12621	1413	9948	981	505	78	131
Seharte Samre	2840	212	2639	195	-	-	-
Enderta	386	39	333	34	-	-	-
Hintalo Wajirat	1759	262	1267	113	-	-	-
Ambalage	1463	197	1000	119	301	55	72
Endamehoni	2026	215	1774	181	*	*	*
Rayaazebo	964	171	964	171	-	-	-
Alamata	607	78	339	48	*	*	-
Wofla	2575	238	1631	119	*	*	*

TABEL 6.20: CONTD

Geographic Area	Pulses								
	Type of Fertilizer Applied								
	UREA			DAP & UREA			Chemical (Urban)		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare	
Tigray Region	1182	89	80	17902	1513	2272	368	107	
West Tigray Zone	104	*	*	1296	113	248	47	10	
Kafta	-	-	-	*	*	*	-	-	
Tahtay Adiyabo	-	-	-	-	-	-	*	*	
Laelay Adiyabo	-	-	-	*	*	*	-	-	
Tahtay Koraro	*	*	*	241	26	28	24	6	
Medebay Zana	*	*	*	706	69	168	15	2	
Asegede Tsimbela	*	*	*	*	*	*	-	-	
Tselemti	-	-	-	*	*	-	-	-	
Welkait	-	-	-	*	*	*	-	-	
Tsegede	*	*	*	*	*	*	2	*	
Central Tigray Zone	314	29	*	10521	797	1151	207	75	
Mereb Lehe	*	*	*	428	16	18	13	*	
Ahiferom	-	-	-	1875	118	*	49	8	
Werie Lehe	*	*	*	796	*	68	45	9	
Adwa	*	*	*	2717	149	235	4	9	
Laelay Maychew	*	*	*	847	68	81	56	19	
Tahtay Maychew	*	*	-	1413	110	119	10	4	
Naeder Adet	*	*	-	1117	59	60	-	-	
Kola Temben	-	-	-	*	*	*	*	1	
Degua Temben	*	*	*	1143	185	*	19	3	
Tanqu Abergele	-	-	-	*	*	*	-	-	
East Tigray Zone	640	48	47	3722	254	305	49	7	
Gulumahada	*	*	*	323	14	11	1	*	
Erob	-	-	-	-	-	-	-	-	
Saesi Tsaedamba	*	*	*	486	33	48	2	*	
Ganta Afeshum	*	*	*	1192	71	101	12	1	
Hawzen	228	15	8	488	56	39	28	4	
Wukro	*	*	*	322	21	23	3	1	
Atsbi Wenberta	*	*	*	911	58	83	*	*	
South Tigray Zone	124	*	*	2363	350	568	58	15	
Seharte Samre	*	*	*	169	*	*	*	*	
Enderta	-	-	-	*	*	*	*	*	
Hintalo Wajirat	-	-	-	492	*	*	3	1	
Ambalage	-	-	-	215	*	*	*	*	
Endamehoni	-	-	-	257	26	44	5	1	
Rayaaazebo	-	-	-	-	-	-	-	-	
Alamata	*	*	*	*	*	*	*	*	
Wofla	*	*	*	949	105	246	22	7	
Mekele Zone	-	-	-	-	-	-	*	*	
Mekele	-	-	-	-	-	-	*	*	

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

Geographic Area	Pulses						
	Total Fertilized Cropland		Type of Fertilizer Applied				
	Holder	Hectare	Natural		Dap		
Holder			Hectare	Holder	Hectare	Quintal	
Tigray Region	98763	8662	80163	6738	2018	215	246
West Tigray Zone	11845	1164	10291	995	192	39	19
Kafta	247	15	204	14	-	-	-
Tahtay Adiyabo	668	79	662	77	-	-	-
Laelay Adiyabo	1616	90	1483	79	*	*	*
Tahtay Koraro	927	95	641	62	-	-	-
Medebay Zana	2652	241	1927	161	*	*	*
Asegede Tsimbela	2430	223	2270	211	*	*	*
Tselemti	595	36	521	35	-	-	-
Welkait	657	89	600	83	-	-	-
Tsegede	2053	296	1982	274	*	*	*
Central Tigray Zone	44241	3470	34213	2526	609	44	35
Mereb Lehe	2004	110	1554	69	*	*	*
Ahiferom	7458	479	5494	343	*	*	*
Werie Lehe	5041	502	4278	396	*	*	*
Adwa	8866	547	6341	383	*	*	*
Laelay Maychew	5245	633	4617	537	*	*	*
Tahtay Maychew	3254	262	1885	141	*	*	*
Naeder Adet	5114	304	3934	229	*	*	*
Kola Temben	2767	118	2619	106	-	-	-
Degua Temben	3679	427	2700	232	-	-	-
Tanqu Abergele	812	91	791	89	-	-	-
East Tigray Zone	29987	2598	25707	2237	712	53	61
Gulumahada	1240	51	831	32	-	-	-
Erob	268	8	268	8	-	-	-
Saesi Tsaedamba	7749	651	7174	587	271	23	20
Ganta Afeshum	5245	343	4023	259	*	*	*
Hawzen	3506	467	2860	392	*	*	*
Wukro	2697	328	2470	306	-	-	-
Atsbi Wenberta	9282	751	8080	652	343	26	38
South Tigray Zone	12683	1429	9952	981	505	78	131
Seharte Samre	2846	214	2639	195	-	-	-
Enderta	392	40	333	34	-	-	-
Hintalo Wajirat	1764	264	1269	114	-	-	-
Ambalage	1470	197	1000	119	301	55	72
Endamehoni	2032	217	1775	181	*	*	*
Rayaazebo	964	171	964	171	-	-	-
Alamata	616	81	339	48	*	*	-
Wofla	2598	245	1632	119	*	*	*
Mekele Zone	*	*	-	-	-	-	-
Mekele	*	*	-	-	-	-	-

TABEL 6.19.4: URBAN HOLDINGS

Geographic Area	Cereals							
	Application of Total Fertilizers		Type of Fertilizer Applied					
			Natural		Chemical		Natural and Chemical	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Tigray Region	5742	3429	903	441	4872	2628	551	360
West Tigray Zone	1083	639	153	86	939	511	91	43
Kafta	16	*	10	*	7	*	-	-
Tahtay Adiyabo	98	94	16	*	73	61	*	*
Laelay Adiyabo	125	105	3	3	121	98	3	4
Tahtay Koraro	194	70	51	5	164	57	44	8
Medebay Zana	376	151	8	1	366	146	10	3
Asegede Tsimbela	133	94	16	11	118	79	11	4
Tselemti	59	24	36	9	16	*	*	13
Welkait	72	57	*	*	65	47	-	-
Tsegede	9	3	-	-	9	3	-	-
Central Tigray Zone	3038	1923	458	218	2612	1477	258	228
Mereb Lehe	262	382	24	12	223	261	38	109
Ahiferom	753	218	42	17	722	196	*	*
Werie Lehe	327	242	84	*	258	144	44	31
Adwa	164	108	34	1	120	96	19	11
Laelay Maychew	514	459	62	43	420	365	78	51
Tahtay Maychew	132	45	*	*	131	40	*	*
Naeder Adet	278	100	*	*	247	89	30	10
Kola Temben	235	121	52	7	195	111	19	3
Degua Temben	106	40	1	*	101	37	*	*
Tanqu Abergele	268	208	137	66	196	138	*	*
East Tigray Zone	494	214	114	41	369	119	129	54
Gulumahada	9	1	-	-	9	1	-	-
Erob	1	*	1	*	-	-	-	-
Saesi Tsaedamba	75	34	18	9	46	11	16	14
Ganta Afeshum	72	15	7	1	59	12	10	2
Hawzen	170	86	41	11	142	45	86	30
Wukro	93	49	20	*	67	31	12	6
Atsbi Wenberta	75	30	27	9	47	18	6	*
South Tigray Zone	1070	619	157	87	913	502	55	30
Seharte Samre	189	193	35	35	161	146	18	11
Enderta	186	141	53	16	136	122	*	*
Hintalo Wajirat	165	113	36	21	132	83	14	9
Ambalage	170	3	-	-	170	3	-	-
Endamchoni	49	13	9	2	41	11	1	*
Rayaazebo	47	42	9	7	37	32	*	2
Aiamata	146	80	9	5	124	72	14	4
Wolla	117	34	5	1	114	33	1	1
Mekele Zone	57	*	*	*	38	*	*	*
Mekele	57	*	*	*	38	*	*	*

TABEL 6.19.3: CONTD.

Cereals						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	1102	97	77	11563	1662	2276
West Tigray Zone	-	-	-	*	*	*
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	-	-	-	*	*	*
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	173	*	*	3145	403	564
Mereb Lehe	-	-	-	143	24	17
Ahiferom	*	*	*	917	102	*
Werie Lehe	*	*	*	*	*	*
Adwa	*	*	*	*	*	*
Laelay Maychew	-	-	-	777	125	249
Tahtay Maychew	-	-	-	*	*	*
Naeder Adet	-	-	-	*	*	*
Kola Temben	*	*	*	*	*	*
Degua Temben	-	-	-	*	*	*
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	*	*	*	2594	200	292
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	*	*	*
Ganta Afeshum	*	*	*	*	*	*
Hawzen	-	-	-	-	-	-
Wukro	-	-	-	849	*	*
Atsbi Wenberta	*	*	*	1093	*	*
South Tigray Zone	444	42	46	5760	1052	1403
Seharte Samre	*	*	*	*	*	*
Enderta	*	*	*	338	38	44
Hintalo Wajirat	*	*	*	2462	*	*
Ambalage	*	*	*	*	*	*
Endamehoni	*	*	*	900	73	130
Rayaaazebo	-	-	-	-	-	-
Alamata	*	*	*	*	*	*
Wofla	*	*	*	429	*	*

TABEL 6.19.3: RURAL BELG

Geographic Area	Cereals						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
Tigray Region	22395	2852	10116	1056	332	37	35
West Tigray Zone	152	*	89	*	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	97	*	*	*	-	-	-
Medebay Zana	*	*	*	*	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	4814	507	1634	78	*	*	*
Mereb Lehe	277	34	*	*	*	*	*
Ahiferom	1155	112	*	*	-	-	-
Werie Lehe	1073	81	*	*	-	-	-
Adwa	378	*	248	6	-	-	-
Laelay Maychew	795	126	132	*	-	-	-
Tahtay Maychew	154	*	107	*	-	-	-
Naeder Adet	*	*	*	*	-	-	-
Kola Temben	*	*	*	*	-	-	-
Degua Temben	*	*	*	*	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	5119	466	2226	222	*	*	*
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	1342	96	935	74	*	*	*
Ganta Afeshum	*	*	280	*	-	-	-
Hawzen	-	-	-	-	-	-	-
Wukro	916	*	90	*	-	-	-
Atsbi Wenberta	2068	217	921	125	*	*	*
South Tigray Zone	12311	1869	6167	752	187	23	22
Seharte Samre	*	*	*	*	-	-	-
Enderta	575	66	*	*	-	-	-
Hintalo Wajirat	5379	848	2807	277	*	*	*
Ambalage	885	*	407	41	*	*	*
Endamehoni	2074	197	1045	98	*	*	*
Rayaazebo	561	170	561	170	-	-	-
Alamata	229	*	*	*	-	-	-
Wofla	1319	133	890	84	-	-	-

TABEL 6.19.2g: CONTD

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	-	-	-	139	13	*
West Tigray Zone	-	-	-	*	*	*
Kafta	-	-	-	*	*	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-
Central Tigray Zone	-	-	-	*	*	-
Mereb Lehe	-	-	-	*	*	*
Ahiferom	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-
Adwa	-	-	-	*	*	-
Laelay Maychew	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	-	-	-	*	*	*
Gulumahada	-	-	-	-	-	-
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-
Hawzen	-	-	-	*	*	*
Wukro	-	-	-	-	-	-
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	-	-	-	*	*	-
Seharte Samre	-	-	-	*	*	-
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	-	-	-	-	-	-

TABEL 6.19.2g: Oats ('Aja')

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	406	52	267	39	-	-	-
West Tigray Zone	*	*	*	*	-	-	-
Kafta	*	*	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	-	-	-	-
Tahtay Koraro	*	*	*	*	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	-	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	-	-	-	-	-	-	-
Tsegede	-	-	-	-	-	-	-
Central Tigray Zone	*	*	*	*	-	-	-
Mereb Lehe	*	*	*	*	-	-	-
Ahiferom	-	-	-	-	-	-	-
Werie Lehe	-	-	-	-	-	-	-
Adwa	*	*	-	-	-	-	-
Laelay Maychew	-	-	-	-	-	-	-
Tahtay Maychew	-	-	-	-	-	-	-
Naeder Adet	-	-	-	-	-	-	-
Kola Temben	-	-	-	-	-	-	-
Degua Temben	-	-	-	-	-	-	-
Tanqu Abergele	-	-	-	-	-	-	-
East Tigray Zone	182	*	157	*	-	-	-
Gulumahada	-	-	-	-	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-	-
Ganta Afeshum	-	-	-	-	-	-	-
Hawzen	*	*	-	-	-	-	-
Wukro	157	*	157	*	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	*	*	*	*	-	-	-
Seharte Samre	*	*	-	-	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	-	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-
Rayaaazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	*	*	*	*	-	-	-

TABEL 6.19.2.f: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	3085	662	325	66040	16480	14879
West Tigray Zone	1327	435	198	31011	11503	10663
Kafta	-	-	-	343	83	84
Tahtay Adiyabo	416	140	79	4626	1964	2235
Laelay Adiyabo	424	161	67	4918	2007	1476
Tahtay Koraro	212	*	26	3389	976	983
Medebay Zana	223	*	18	5219	1112	1001
Asegede Tsimbela	*	*	*	6657	2793	3060
Tselemti	-	-	-	3853	1776	1100
Welkait	*	*	*	1909	772	684
Tsegede	-	-	-	*	*	*
Central Tigray Zone	999	116	60	31686	4625	3903
Mereb Lehe	*	*	*	5015	941	830
Ahiferom	*	*	*	4896	573	524
Werie Lehe	-	-	-	904	184	96
Adwa	132	*	*	6480	971	895
Laelay Maychew	178	13	6	2484	210	207
Tahtay Maychew	*	*	*	4769	540	435
Naeder Adet	302	26	*	5210	667	587
Kola Temben	*	*	*	1369	*	244
Degua Temben	-	-	-	424	63	*
Tanqu Abergele	-	-	-	*	*	*
East Tigray Zone	701	101	61	3047	309	287
Gulumahada	*	*	*	189	16	20
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	*	*	*
Ganta Afeshum	*	*	*	562	35	*
Hawzen	510	80	49	1489	138	127
Wukro	*	*	*	567	98	62
Atsbi Wenberta	*	*	*	*	*	*
South Tigray Zone	*	*	*	296	43	25
Seharte Samre	*	*	*	*	*	*
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-
Rayaazebo	-	-	-	-	-	-
Alamata	-	-	-	-	-	-
Wofla	*	*	*	270	41	24

TABEL 6.19.2f : Finger Millet

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	117639	28567	51527	10096	4232	1329	728
West Tigray Zone	51595	19595	19310	6486	3206	1172	641
Kafta	540	126	208	38	*	*	*
Tahtay Adiyabo	7585	3106	2695	755	546	247	141
Lalay Adiyabo	8146	3155	2127	574	1343	413	187
Tahtay Koraro	4350	1270	768	130	382	108	102
Medebay Zana	7400	1484	2002	292	*	*	*
Asegede Tsimbela	10517	3746	4087	853	350	87	103
Tselemti	8395	4906	4587	*	307	*	*
Welkait	3282	1218	1552	417	*	*	*
Tsegede	1380	584	1285	563	*	*	*
Central Tigray Zone	55314	7748	25395	2866	923	141	82
Mereb Lehe	8966	1650	4511	674	201	*	16
Ahiferom	8692	1218	4159	589	266	*	*
Werie Lehe	3523	549	2697	355	*	*	*
Adwa	10002	1383	4272	392	*	*	*
Lalay Maychew	6477	601	3998	365	*	*	*
Tahtay Maychew	5905	661	1202	112	*	*	*
Naeder Adet	7509	870	2306	173	*	*	*
Kola Temben	2906	606	1475	100	*	*	*
Degua Temben	1167	165	*	*	-	-	-
Tanqu Abergele	*	*	*	*	-	-	-
East Tigray Zone	9733	1105	6180	678	*	*	*
Gulumahada	1001	58	760	40	-	-	-
Erob	-	-	-	-	-	-	-
Saesi Tsaedamba	948	68	818	55	-	-	-
Ganta Afeshum	1175	81	591	*	-	-	-
Hawzen	4955	667	3140	435	*	*	*
Wukro	1491	216	871	102	*	*	*
Atsbi Wenberta	*	*	-	-	-	-	-
South Tigray Zone	996	119	641	65	-	-	-
Seharte Samre	271	*	219	*	-	-	-
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	*	*	*	*	-	-	-
Ambalage	-	-	-	-	-	-	-
Endamehoni	-	-	-	-	-	-	-
Rayazebo	-	-	-	-	-	-	-
Alamata	-	-	-	-	-	-	-
Wofla	559	75	*	*	-	-	-

TABEL 6.19.2e: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	1257	344	139	19843	5410	4827
West Tigray Zone	239	74	44	6515	2674	2840
Kafta	*	*	10	150	36	36
Tahtay Adiyabo	*	*	*	1166	419	376
Laelay Adiyabo	*	*	*	780	*	*
Tahtay Koraro	-	-	-	104	21	32
Medebay Zana	-	-	-	674	110	135
Asegede Tsimbela	*	*	*	2111	900	1234
Tselemti	-	-	-	*	*	*
Welkait	-	-	-	494	*	*
Tsegede	-	-	-	-	-	-
Central Tigray Zone	779	173	67	9639	1721	1252
Mereb Lehe	133	*	*	2595	473	396
Ahiferom	*	*	*	1674	245	188
Werie Lehe	*	*	*	612	143	*
Adwa	*	*	*	714	72	49
Laelay Maychew	*	*	*	207	12	*
Tahtay Maychew	-	-	-	820	157	70
Naeder Adet	*	*	*	1120	62	67
Kola Temben	*	*	*	1033	*	*
Degua Temben	-	-	-	*	*	*
Tanqu Abergele	213	*	26	668	366	203
East Tigray Zone	*	*	*	990	122	117
Gulumahada	-	-	-	*	*	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	-	-	-	-	-	-
Ganta Afeshum	-	-	-	*	*	*
Hawzen	*	*	*	569	68	59
Wukro	-	-	-	*	*	*
Atsbi Wenberta	-	-	-	-	-	-
South Tigray Zone	189	91	26	2699	894	618
Seharte Samre	*	*	*	*	*	*
Enderta	-	-	-	-	-	-
Hintalo Wajirat	-	-	-	-	-	-
Ambalage	-	-	-	*	*	*
Endamehoni	-	-	-	*	*	*
Rayaazebo	*	*	*	516	*	*
Alamata	*	*	*	255	67	52
Wofla	*	*	*	828	131	165

TABEL 6.19.2e: Sorghum

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	113383	37102	95436	30970	1373	377	189
West Tigray Zone	42466	17003	36944	14139	390	116	52
Kafta	960	229	718	149	*	*	*
Tahtay Adiyabo	9852	4952	8852	4502	*	*	*
Laelay Adiyabo	4361	1637	3584	1297	*	*	*
Tahtay Koraro	170	29	*	*	-	-	-
Medebay Zana	1976	484	1297	349	*	*	*
Asegede Tsimbela	8077	3532	6858	2606	*	*	*
Tselemti	10578	3191	9540	2473	-	-	-
Welkait	4188	1474	3726	1279	-	-	-
Tsegede	2303	1475	2303	1475	-	-	-
Central Tigray Zone	50268	12635	41730	10547	709	194	83
Mereb Lehe	10935	2968	8904	2450	*	*	12
Ahiferom	5179	1347	3527	1045	*	*	*
Werie Lehe	4668	975	4124	815	*	*	*
Adwa	2950	397	2317	317	*	*	*
Laelay Maychew	1647	*	1440	*	-	-	-
Tahtay Maychew	2419	608	1696	451	-	-	-
Naeder Adet	6294	1211	5299	1132	*	*	*
Kola Temben	7109	1181	6039	986	*	*	*
Degua Temben	1127	249	949	*	-	-	-
Tanqu Abergele	7940	3460	7436	2913	*	*	*
East Tigray Zone	5468	686	4408	533	*	*	*
Gulumahada	430	20	*	*	-	-	-
Erob	*	*	*	*	-	-	-
Saesi Tsaedamba	*	*	*	*	-	-	-
Ganta Afeshum	874	78	553	*	*	*	-
Hawzen	3468	498	2829	400	*	*	*
Wukro	382	47	302	33	-	-	-
Atsbi Wenberta	-	-	-	-	-	-	-
South Tigray Zone	15180	6778	12353	5751	146	42	*
Seharte Samre	5492	1994	4588	1568	*	*	*
Enderta	*	*	*	*	-	-	-
Hintalo Wajirat	846	252	846	252	-	-	-
Ambalage	*	*	-	-	-	-	-
Endamehoni	*	16	*	*	-	-	-
Rayaaazebo	6249	3914	5645	3572	*	*	*
Alamata	1161	400	799	296	*	*	*
Wofla	1120	186	*	*	*	*	*

TABEL 6.19.2d: CONTD

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	2772	317	219	69538	10878	13867
West Tigray Zone	360	86	63	22618	5306	7815
Kafta	-	-	-	*	*	*
Tahtay Adiyabo	*	*	*	583	32	*
Laelay Adiyabo	176	*	*	5113	1467	2064
Tahtay Koraro	*	*	*	5820	1210	2325
Medebay Zana	*	*	*	10026	2117	2981
Asegede Tsimbela	*	*	*	734	167	273
Tselemti	-	-	-	*	*	*
Welkait	-	-	-	147	*	*
Tsegede	-	-	-	*	*	*
Central Tigray Zone	1409	152	86	40874	5110	5487
Mereb Lehe	*	*	*	1595	144	163
Ahiferom	*	*	*	4915	207	279
Werie Lehe	128	*	*	2412	118	101
Adwa	*	*	*	6382	646	735
Laelay Maychew	446	29	22	3659	313	387
Tahtay Maychew	138	*	*	10337	1481	1508
Naeder Adet	*	*	*	7286	1258	1441
Kola Temben	*	*	*	3186	814	771
Degua Temben	-	-	-	788	55	63
Tanqu Abergele	*	*	*	315	74	38
East Tigray Zone	588	38	39	3688	217	350
Gulumahada	*	*	*	*	*	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	*	*	*	436	29	*
Ganta Afeshum	*	*	*	1105	50	74
Hawzen	*	*	*	930	50	53
Wukro	*	*	*	679	57	41
Atsbi Wenberta	*	*	*	*	*	*
South Tigray Zone	415	40	31	2358	245	214
Seharte Samre	246	12	*	1120	131	70
Enderta	-	-	-	*	*	*
Hintalo Wajirat	-	-	-	*	*	*
Ambalage	*	*	*	266	19	12
Endamehoni	-	-	-	*	*	*
Rayazebo	-	-	-	-	-	-
Alamata	*	*	*	*	*	*
Wofla	*	*	*	731	74	117

TABEL 6.19.2d: Maize

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	277134	39750	209680	28238	2410	317	335
West Tigray Zone	96601	19324	75532	13763	832	169	173
Kafta	1629	127	1595	126	-	-	-
Tahtay Adiyabo	8361	485	7741	451	*	*	*
Laelay Adiyabo	13054	3293	8470	1681	465	84	80
Tahtay Koraro	10921	2336	5564	1096	*	*	*
Medebay Zana	18311	3890	8827	1737	173	*	*
Asegede Tsimbela	14443	2543	13759	2351	*	*	*
Tselemti	15454	*	15311	*	*	*	*
Welkait	7609	830	7502	795	-	-	-
Tsegede	6821	613	6763	607	-	-	-
Central Tigray Zone	126173	15466	86986	10104	992	100	85
Mereb Lehe	9980	726	8685	576	*	*	*
Ahiferom	13153	973	8431	761	*	*	*
Werie Lehe	15941	1783	13508	1656	*	*	*
Adwa	16013	1426	9872	740	227	*	*
Laelay Maychew	10719	831	6849	487	*	*	*
Tahtay Maychew	13897	1985	3955	491	-	-	-
Naeder Adet	15971	2188	9119	894	191	26	19
Kola Temben	15111	2899	12318	1989	*	*	*
Degua Temben	6090	601	5302	545	*	*	*
Tanqu Abergele	9298	2055	8946	1964	*	*	*
East Tigray Zone	29618	2104	25227	1809	494	40	55
Gulumahada	1231	58	1091	50	-	-	-
Erob	828	46	828	46	-	-	-
Saesi Tsaedamba	9476	800	8880	748	193	*	22
Ganta Afeshum	4259	220	3176	169	*	*	*
Hawzen	6755	506	5578	433	*	*	*
Wukro	3789	286	2888	206	*	*	*
Atsbi Wenberta	3281	187	2785	157	*	*	*
South Tigray Zone	24742	2856	21935	2562	*	*	*
Seharte Samre	12056	1480	10720	1337	-	-	-
Enderta	2015	159	1968	156	-	-	-
Hintalo Wajirat	3071	250	3041	249	-	-	-
Ambalage	1685	77	1365	53	*	*	*
Endamehoni	356	16	259	11	-	-	-
Rayaazebo	2128	488	2128	488	-	-	-
Alamata	777	205	665	*	-	-	-
Wofla	2654	180	1791	96	*	*	*

TABEL 6.19.2c: CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	4170	781	746	121517	20756	22768
West Tigray Zone	*	*	*	774	209	441
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	-	-	-	-	-	-
Laelay Adiyabo	-	-	-	*	*	*
Tahtay Koraro	-	-	-	*	*	*
Medebay Zana	-	-	-	-	-	-
Asegede Tsimbela	-	-	-	*	*	*
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	*	*	*
Tsegede	*	*	*	643	193	417
Central Tigray Zone	487	62	38	46032	6332	6356
Mereb Lehe	-	-	-	*	*	*
Ahiferom	*	*	*	14228	1814	2258
Werie Lehe	159	*	*	7649	1122	407
Adwa	*	*	*	9973	938	1133
Laelay Maychew	*	*	*	4002	554	758
Tahtay Maychew	-	-	-	1394	129	189
Naeder Adet	-	-	-	174	*	*
Kola Temben	-	-	-	*	*	*
Degua Temben	*	*	*	8039	1736	1555
Tanqu Abergele	-	-	-	-	-	-
East Tigray Zone	1602	141	108	42617	5515	5661
Gulumahada	250	24	23	8217	1251	1465
Erob	*	*	*	-	-	-
Saesi Tsaedamba	*	*	*	5863	560	571
Ganta Afeshum	325	24	23	10900	1052	1636
Hawzen	588	53	30	9663	1192	750
Wukro	141	19	13	4205	880	589
Atsbi Wenberta	*	*	*	3770	581	650
South Tigray Zone	2058	569	588	32094	8700	10310
Seharte Samre	915	212	176	5636	2275	1664
Enderta	662	268	*	3973	1658	1694
Hintalo Wajirat	*	*	*	6738	1954	2587
Ambalage	*	*	*	4138	863	1145
Endamehoni	*	*	*	1434	264	479
Rayaazebo	*	*	*	*	*	*
Alamata	-	-	-	585	101	*
Wofla	179	*	*	9566	1581	2614

TABEL 6.19.2c: Wheat

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	180774	31041	69574	8734	5533	770	693
West Tigray Zone	1619	381	871	164	-	-	-
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	*	*	*	*	-	-	-
Laelay Adiyabo	*	*	-	-	-	-	-
Tahtay Koraro	*	*	-	-	-	-	-
Medebay Zana	-	-	-	-	-	-	-
Asegede Tsimbela	*	*	*	*	-	-	-
Tselemti	-	-	-	-	-	-	-
Welkait	153	*	*	*	-	-	-
Tsegede	1335	356	718	154	-	-	-
Central Tigray Zone	61577	9155	21675	2667	796	94	85
Mereb Lehe	*	*	*	*	-	-	-
Ahiferom	18186	2735	5762	880	*	*	*
Werie Lehe	11679	1750	5296	583	*	*	*
Adwa	12260	1173	3855	229	*	*	*
Laelay Maychew	5117	686	1272	108	87	*	*
Tahtay Maychew	1502	143	*	*	-	-	-
Naeder Adet	306	21	133	*	-	-	-
Kola Temben	475	*	*	*	-	-	-
Degua Temben	11132	2571	4288	797	*	*	*
Tanqu Abergele	*	*	*	*	*	*	*
East Tigray Zone	70658	9185	32671	3206	3233	323	257
Gulumahada	12085	1624	4707	319	463	30	32
Erob	766	35	750	34	*	*	*
Saesi Tsaedamba	10030	939	5227	342	348	35	28
Ganta Afeshum	14888	1504	5488	412	309	*	30
Hawzen	14486	1795	5114	390	1535	160	97
Wukro	7629	1802	4162	853	239	50	24
Atsbi Wenberta	10776	1487	7223	857	330	31	45
South Tigray Zone	46920	12320	14356	2697	1504	353	350
Seharte Samre	8106	3074	2598	569	*	*	*
Enderta	6647	2697	1624	562	692	209	217
Hintalo Wajirat	8934	2558	2607	552	*	*	*
Ambalage	5794	1118	1589	216	177	29	30
Endamehoni	4818	808	3311	488	161	22	28
Rayaaazebo	561	84	512	77	-	-	-
Alamata	820	141	*	*	*	*	*
Wofla	11239	1841	1900	197	252	43	47

TABEL 6.19.2b CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	3984	696	567	100418	14079	12583
West Tigray Zone	*	*	*	723	188	275
Kafta	-	-	-	-	-	-
Tahtay Adiyabo	*	*	*	-	-	-
Laelay Adiyabo	-	-	-	*	*	*
Tahtay Koraro	*	*	*	100	4	*
Medebay Zana	-	-	-	*	*	*
Asegede Tsimbela	-	-	-	*	*	*
Tselemti	-	-	-	-	-	-
Welkait	-	-	-	*	*	*
Tsegede	-	-	-	437	158	243
Central Tigray Zone	536	42	40	43506	4472	4115
Mereb Lehe	-	-	-	920	43	65
Ahiferom	-	-	-	9238	679	617
Werie Lehe	125	*	*	7005	834	370
Adwa	*	*	*	10047	741	907
Laelay Maychew	183	20	12	4468	798	1006
Tahtay Maychew	*	*	*	2915	255	370
Naeder Adet	*	*	*	2719	264	391
Kola Temben	-	-	-	1547	149	130
Degua Temben	*	*	*	4453	664	216
Tanqu Abergele	-	-	-	*	*	*
East Tigray Zone	1873	237	161	37748	4778	3789
Gulumahada	284	46	15	7035	945	744
Erob	*	*	*	-	-	-
Saesi Tsaedamba	*	*	61	5740	631	566
Ganta Afeshum	272	*	*	9773	936	1097
Hawzen	671	80	43	9376	1451	618
Wukro	*	*	*	3272	467	*
Atsbi Wenberta	140	*	*	2552	348	360
South Tigray Zone	1541	408	*	18441	4641	4403
Seharte Samre	511	79	*	3180	729	187
Enderta	*	*	*	3824	1623	1342
Hintalo Wajirat	*	*	-	3901	1112	1110
Ambalage	*	*	*	1662	256	394
Endamehoni	*	*	*	652	93	158
Rayaazebo	*	*	-	*	*	*
Alamata	*	*	*	764	138	*
Wofla	*	*	*	4426	687	1050

TABEL 6.19.2b: Barley

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	189935	27128	97721	11278	6815	1074	994
West Tigray Zone	3597	702	2927	495	*	*	*
Kafta	-	-	-	-	-	-	-
Tahtay Adiyabo	*	*	-	-	-	-	-
Lalay Adiyabo	581	8	436	7	*	*	*
Tahtay Koraro	191	6	74	*	-	-	-
Medebay Zana	243	15	161	*	-	-	-
Asegede Tsimbela	138	*	*	*	-	-	-
Tselemti	*	*	*	*	-	-	-
Welkait	*	*	*	*	-	-	-
Tsegede	2085	611	1855	446	*	*	*
Central Tigray Zone	71583	7733	33468	3143	1066	76	74
Mereb Lehe	2198	98	1347	53	87	2	*
Ahiferom	13211	1060	5081	372	196	8	*
Werie Lehe	13450	1843	7945	989	*	*	*
Adwa	13696	1084	5242	338	*	*	*
Lalay Maychew	7873	1352	3973	525	101	8	*
Tahtay Maychew	3713	330	869	69	*	*	*
Naeder Adet	4864	401	2146	119	170	*	*
Kola Temben	4432	374	2967	225	*	*	*
Degua Temben	7433	1065	3439	391	*	*	-
Tanqu Abergele	713	126	459	62	*	*	*
East Tigray Zone	80227	11347	46568	5585	4495	748	684
Gulumahada	11297	1414	4537	356	568	67	52
Erob	2017	163	2001	162	11	*	*
Saesi Tsaedamba	17690	2590	12553	1546	1631	347	385
Ganta Afeshum	14105	1576	5694	567	*	*	*
Hawzen	15265	2453	6329	675	1744	247	156
Wukro	6573	965	4101	491	*	*	-
Atsbi Wenberta	13280	2185	11354	1787	235	41	*
South Tigray Zone	34527	7346	14758	2055	1112	242	224
Seharte Samre	6001	1209	2677	396	*	*	*
Enderta	6376	2390	1803	349	365	127	65
Hintalo Wajirat	7490	1644	3760	495	258	*	*
Ambalage	2451	327	687	52	*	*	*
Endamehoni	3478	423	2699	312	110	*	*
Rayazebo	1320	266	1251	255	-	-	-
Alamata	1043	193	282	*	-	-	-
Wofla	6368	894	1599	144	243	*	*

TABEL 6.19.2a CONTD.

Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	7005	1603	1040	163137	48584	48655
West Tigray Zone	446	141	86	35194	12465	14090
Kafta	*	*	*	470	107	129
Tahtay Adiyabo	*	*	*	*	*	*
Laelay Adiyabo	211	*	*	4234	2013	1504
Tahtay Koraro	*	*	*	9250	3436	4464
Medebay Zana	*	*	*	12054	3427	4296
Asegede Tsimbela	-	-	-	6513	2451	2717
Tselemti	-	-	-	613	205	104
Welkait	*	*	*	1647	647	616
Tsegede	-	-	-	396	168	251
Central Tigray Zone	2284	497	333	100148	28754	28968
Mereb Lehe	*	*	*	5700	1133	1093
Ahiferom	348	50	39	16883	4042	4146
Werie Lehe	*	*	*	9609	2908	1963
Adwa	192	14	17	16608	3236	4268
Laelay Maychew	391	61	45	10790	5355	7236
Tahtay Maychew	157	35	39	12582	3112	3100
Naeder Adet	301	28	22	10582	2488	2679
Kola Temben	262	*	*	9207	4258	2745
Degua Temben	*	*	*	6788	1233	1300
Tanqu Abergele	208	*	*	1400	988	438
East Tigray Zone	2393	328	287	8859	1206	1120
Gulumahada	*	*	*	129	15	*
Erob	-	-	-	-	-	-
Saesi Tsaedamba	105	*	*	487	*	47
Ganta Afeshum	143	23	7	2532	169	262
Hawzen	1505	182	203	2494	345	310
Wukro	386	93	47	1937	389	279
Atsbi Wenberta	230	20	20	1280	*	209
South Tigray Zone	1882	636	335	18935	6159	4478
Seharte Samre	1255	514	159	6137	3017	1587
Enderta	242	*	*	1703	473	397
Hintalo Wajirat	*	*	*	5170	1463	1480
Ambalage	*	*	*	2362	366	325
Endamehoni	-	-	-	*	*	*
Rayazebo	-	-	-	*	*	*
Alamata	*	*	*	1081	288	273
Wofla	*	*	*	1974	360	264

TABEL 6.19.2a: Teff

Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	221330	64494	53273	11569	8700	2738	1526
West Tigray Zone	47031	16487	9142	2478	3494	1403	745
Kafta	794	232	126	24	*	*	*
Tahtay Adiyabo	249	50	188	*	*	*	*
Laelay Adiyabo	7229	3193	1189	238	1933	852	372
Tahtay Koraro	9976	3650	294	41	506	164	155
Medebay Zana	14026	3940	1964	303	*	*	*
Asegede Tsimbela	7474	2708	811	176	219	*	*
Tselemti	4089	1602	3389	*	*	*	*
Welkait	2018	755	367	*	-	-	-
Tsegede	1176	357	814	188	-	-	-
Central Tigray Zone	118865	33915	21420	3736	3298	928	538
Mereb Lehe	8054	1582	2277	253	475	149	50
Ahiferom	20121	5280	3450	*	997	*	175
Werie Lehe	12048	3591	3155	609	*	*	41
Adwa	18596	3592	3152	308	363	*	39
Laelay Maychew	11790	5721	1444	238	252	67	77
Tahtay Maychew	13405	3308	829	106	*	*	*
Naeder Adet	12267	2800	2430	264	213	*	21
Kola Temben	10691	4605	1313	145	208	*	*
Degua Temben	8340	1492	1442	223	*	*	*
Tanqu Abergele	3553	1944	1925	670	*	*	*
East Tigray Zone	23786	3037	12160	1341	1025	161	98
Gulumahada	491	49	319	26	*	*	*
Erob	65	3	65	3	-	-	-
Saesi Tsaedamba	5205	538	4534	450	166	17	16
Ganta Afeshum	4727	416	2072	223	*	*	*
Hawzen	6007	741	1695	123	571	91	55
Wukro	4371	893	2059	376	164	35	*
Atsbi Wenberta	2920	399	1417	140	*	*	*
South Tigray Zone	31648	11055	10552	4014	882	246	145
Seharte Samre	9564	4352	2138	693	414	*	49
Enderta	2496	698	397	98	176	51	*
Hintalo Wajirat	6677	1838	1438	346	*	*	*
Ambalage	2914	451	384	44	*	*	*
Endamehoni	376	54	243	*	-	-	-
Rayaazebo	5180	2512	4806	2343	-	-	-
Alamata	2179	726	1037	415	*	*	*
Wofla	2262	423	*	*	*	*	*

TABEL 6.19.2 : CONTD.

Cereals						
Geographic Area	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	16435	4404	3035	286982	116200	117585
West Tigray Zone	2071	755	404	62067	32350	36126
Kafta	93	27	14	858	230	256
Tahtay Adiyabo	472	187	100	5225	2424	2715
Laelay Adiyabo	697	320	159	8975	5767	5548
Tahtay Koraro	303	70	41	10923	5651	7811
Medebay Zana	345	*	42	15329	6770	8416
Asegede Tsimbela	*	*	*	11441	6325	7300
Tselemti	-	-	-	4611	2970	1541
Welkait	*	*	*	3409	1668	1576
Tsegede	*	*	*	1295	545	964
Central Tigray Zone	5058	1043	624	126457	51017	50086
Mereb Lehe	404	*	*	8163	2756	2590
Ahiferom	619	106	70	23377	7561	8013
Werie Lehe	445	*	47	12396	5308	2987
Adwa	515	54	59	19683	6604	7988
Laelay Maychew	936	138	94	11424	7242	9632
Tahtay Maychew	308	53	51	14622	5674	5672
Naeder Adet	807	72	48	13044	4747	5175
Kola Temben	507	212	109	10779	5819	4034
Degua Temben	151	*	*	11089	3789	3249
Tanqu Abergele	367	239	80	1883	1516	746
East Tigray Zone	5032	850	658	49628	12147	11325
Gulumahada	469	78	45	8829	2239	2259
Erob	*	*	*	-	-	-
Saesi Tsaedamba	516	83	77	6900	1297	1335
Ganta Afeshum	586	80	60	13088	2276	3160
Hawzen	2201	404	339	10824	3244	1918
Wukro	724	146	84	5169	1904	1392
Atsbi Wenberta	526	59	51	4818	1187	1261
South Tigray Zone	4273	1755	1349	48829	20686	20049
Seharte Samre	1833	851	367	8083	6542	3688
Enderta	*	634	*	5958	3758	3435
Hintalo Wajirat	*	*	*	9763	4530	5177
Ambalage	254	31	39	6647	1510	1878
Endamehoni	*	*	*	1852	389	657
Rayaazebo	*	*	*	758	478	374
Alamata	125	47	19	2095	606	606
Wofla	488	68	118	13674	2874	4234

TABEL 6.19.2 RURAL MEHER

Cereals							
Geographic Area	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal
Tigray Region	493377	228134	327186	100925	21752	6605	4465
West Tigray Zone	121688	73498	92199	37525	6369	2868	1623
Kafta	2341	716	1748	336	225	*	33
Tahtay Adiyabo	12506	8603	10878	5730	567	261	150
Laelay Adiyabo	15903	11291	10309	3796	3055	1406	666
Tahtay Koraro	12247	7296	5775	1277	747	298	292
Medebay Zana	20436	9813	10316	2691	789	*	149
Asegede Tsimbela	18466	12544	15751	5989	544	196	203
Tselemti	20303	14929	19550	11667	347	*	*
Welkait	10619	4311	9333	2604	*	*	*
Tsegede	8866	3997	8540	3434	*	*	*
Central Tigray Zone	183609	86661	119821	33069	6230	1532	948
Mereb Lehe	14659	7070	12096	4030	815	204	87
Ahiferom	29578	12613	15771	4568	1581	377	263
Werie Lehe	21702	10491	17083	5007	542	125	65
Adwa	21959	9055	13455	2325	760	*	62
Laelay Maychew	13503	9428	8875	1949	426	100	109
Tahtay Maychew	16291	7036	5823	1243	*	*	*
Naeder Adet	18719	7491	12030	2593	580	79	74
Kola Temben	19229	9694	14415	3463	736	200	117
Degua Temben	15434	6142	8453	2269	210	*	*
Tanqu Abergele	12535	7642	11820	5622	*	*	*
East Tigray Zone	97338	27494	65310	13182	6032	1315	1123
Gulumahada	13537	3223	6590	806	643	100	86
Erob	2186	247	2170	245	21	1	3
Saesi Tsaedamba	19579	4978	15570	3186	1880	412	451
Ganta Afeshum	17497	3874	9072	1457	435	*	*
Hawzen	18080	6661	11052	2457	2032	556	358
Wukro	10468	4238	7790	2090	476	98	47
Atsbi Wenberta	15990	4273	13065	2941	545	86	107
South Tigray Zone	90741	40481	49856	17149	3122	891	771
Seharte Samre	17591	12143	13385	4590	444	160	71
Enderta	11011	5960	4485	1182	920	387	314
Hintalo Wajirat	15431	6553	8442	1905	382	70	106
Ambalage	9198	1978	3463	365	352	72	57
Endamehoni	6778	1318	5056	854	248	38	46
Rayaaazebo	9059	7264	8275	6736	*	*	*
Alamata	4167	1665	2041	972	*	*	*
Wofla	17507	3599	4709	544	640	112	151

TABLE 6.19.1: CONTD.

Geographic Area	Cereals					
	Type of Fertilizer Applied					
	UREA			DAP & UREA		
	Holder	Hectare	Quintal	Holder	Hectare	Quintal
Tigray Region	17414	4501	3112	291558	117862	119861
West Tigray Zone	2071	755	404	62096	32357	36143
Kafta	93	27	14	858	230	256
Tahtay Adiyabo	472	187	100	5225	2424	2715
Laelay Adiyabo	697	320	159	8975	5767	5548
Tahtay Koraro	303	70	41	10923	5652	7814
Medebay Zana	345	*	42	15358	6775	8430
Asegede Tsimbela	*	*	*	11441	6325	7300
Tselemti	-	-	-	4611	2970	1541
Welkait	*	*	*	3409	1668	1576
Tsegede	*	*	*	1295	545	964
Central Tigray Zone	5231	1059	636	127105	51420	50649
Mereb Lehe	404	*	*	8305	2780	2607
Ahiferom	660	110	71	23377	7663	8149
Werie Lehe	489	61	54	12703	5356	3052
Adwa	567	56	62	19683	6607	7989
Laelay Maychew	936	138	94	11495	7367	9881
Tahtay Maychew	308	53	51	14622	5685	5686
Naeder Adet	807	72	48	13044	4750	5177
Kola Temben	544	213	110	10816	5824	4041
Degua Temben	151	*	*	11178	3872	3322
Tanqu Abergele	367	239	80	1883	1516	746
East Tigray Zone	5464	889	677	51179	12347	11617
Gulumahada	469	78	45	8829	2239	2259
Erob	*	*	*	-	-	-
Saesi Tsaedamba	547	87	79	7184	1313	1369
Ganta Afeshum	960	114	71	13110	2281	3166
Hawzen	2201	404	339	10824	3244	1918
Wukro	724	146	84	5689	1997	1486
Atsbi Wenberta	553	61	57	5542	1274	1420
South Tigray Zone	4648	1797	1395	51178	21738	21452
Seharte Samre	1891	862	381	8648	6810	4141
Enderta	1189	639	*	6017	3796	3479
Hintalo Wajirat	*	*	*	10620	5090	5877
Ambalage	337	38	42	6818	1566	1899
Endamehoni	198	47	44	2412	462	787
Rayazebo	*	*	*	758	478	374
Alamata	146	52	21	2116	615	611
Wofla	539	69	120	13790	2922	4284

TABLE 6.19.1: RURAL HOLDINGS.

Geographic Area	Cereals						
	Total Fertilized Cropland		Type of Fertilizer Applied				
			Natural		Dap		
Holder	Hectare	Holder	Hectare	Holder	Hectare	Quintal	
Tigray Region	498151	230986	331710	101981	22024	6642	4500
West Tigray Zone	121717	73508	92243	37528	6369	2868	1623
Kafta	2341	716	1748	336	225	*	33
Tahtay Adiyabo	12506	8603	10878	5730	567	261	150
Laelay Adiyabo	15903	11291	10309	3796	3055	1406	666
Tahtay Koraro	12247	7300	5792	1280	747	298	292
Medebay Zana	20465	9818	10343	2692	789	*	149
Asegede Tsimbela	18466	12544	15751	5989	544	196	203
Tselemti	20303	14929	19550	11667	347	*	*
Welkait	10619	4311	9333	2604	*	*	*
Tsegede	8866	3997	8540	3434	*	*	*
Central Tigray Zone	184039	87168	120435	33148	6295	1541	956
Mereb Lehe	14743	7104	12119	4030	881	214	96
Ahiferom	29603	12724	15902	4574	1581	377	263
Werie Lehe	21879	10571	17240	5030	542	125	65
Adwa	21959	9065	13481	2330	760	*	62
Laelay Maychew	13520	9554	8911	1950	426	100	109
Tahtay Maychew	16291	7050	5885	1247	*	*	*
Naeder Adet	18719	7495	12030	2594	580	79	74
Kola Temben	19267	9703	14415	3466	736	200	117
Degua Temben	15523	6260	8631	2304	210	*	*
Tanqu Abergele	12535	7642	11820	5622	*	*	*
East Tigray Zone	97763	27960	65627	13404	6085	1319	1128
Gulumahada	13537	3223	6590	806	643	100	86
Erob	2186	247	2170	245	21	1	3
Saesi Tsaedamba	19640	5074	15687	3260	1907	415	454
Ganta Afeshum	17519	3930	9123	1474	435	*	*
Hawzen	18080	6661	11052	2457	2032	556	358
Wukro	10607	4336	7830	2096	476	98	47
Atsbi Wenberta	16193	4489	13174	3066	571	88	108
South Tigray Zone	94632	42350	53405	17901	3275	914	792
Seharte Samre	17686	12424	13413	4592	444	160	71
Enderta	11114	6026	4727	1205	920	387	314
Hintalo Wajirat	17209	7401	9791	2182	419	77	109
Ambalage	9404	2083	3784	407	371	72	58
Endamehoni	7754	1515	5629	953	345	54	64
Rayaazebo	9298	7434	8514	6906	*	*	*
Alamata	4364	1735	2195	1027	*	*	*
Wofla	17803	3732	5352	628	640	112	151

TABEL 6.19: CONTD.

Cereals								
Geographic Area	Type of Fertilizer Applied							
	UREA			DAP & UREA			Chemical (Urban)	
	Holder	Hectare	Quintal	Holder	Hectare	Quintal	Holder	Hectare
Tigray Region	17414	4501	3112	291558	117862	119861	5192	2988
West Tigray Zone	2071	755	404	62096	32357	36143	991	553
Kafta	93	27	14	858	230	256	7	*
Tahtay Adiyabo	472	187	100	5225	2424	2715	83	71
Laelay Adiyabo	697	320	159	8975	5767	5548	123	102
Tahtay Koraro	303	70	41	10923	5652	7814	181	65
Medebay Zana	345	*	42	15358	6775	8430	371	150
Asegede Tsimbela	*	*	*	11441	6325	7300	123	83
Tselemti	-	-	-	4611	2970	1541	29	15
Welkait	*	*	*	3409	1668	1576	65	47
Tsegede	*	*	*	1295	545	964	9	3
Central Tigray Zone	5231	1059	636	127105	51420	50649	2774	1705
Mereb Lehe	404	*	*	8305	2780	2607	245	370
Ahiferom	660	110	71	23377	7663	8149	730	201
Werie Lehe	489	61	54	12703	5356	3052	277	175
Adwa	567	56	62	19683	6607	7989	134	107
Laelay Maychew	936	138	94	11495	7367	9881	476	416
Tahtay Maychew	308	53	51	14622	5685	5686	132	41
Naeder Adet	807	72	48	13044	4750	5177	272	99
Kola Temben	544	213	110	10816	5824	4041	204	115
Degua Temben	151	*	*	11178	3872	3322	105	40
Tanqu Abergele	367	239	80	1883	1516	746	200	141
East Tigray Zone	5464	889	677	51179	12347	11617	436	173
Gulumahada	469	78	45	8829	2239	2259	9	1
Erob	*	*	*	-	-	-	-	-
Saesi Tsaedamba	547	87	79	7184	1313	1369	62	25
Ganta Afeshum	960	114	71	13110	2281	3166	68	14
Hawzen	2201	404	339	10824	3244	1918	170	75
Wukro	724	146	84	5689	1997	1486	74	38
Atsbi Wenberta	553	61	57	5542	1274	1420	53	21
South Tigray Zone	4648	1797	1395	51178	21738	21452	949	532
Seharte Samre	1891	862	381	8648	6810	4141	167	158
Enderta	1189	639	*	6017	3796	3479	136	125
Hintalo Wajirat	*	*	*	10620	5090	5877	142	92
Ambalage	337	38	42	6818	1566	1899	170	3
Endamehoni	198	47	44	2412	462	787	42	11
Rayaaazebo	*	*	*	758	478	374	40	34
Alamata	146	52	21	2116	615	611	137	75
Wofla	539	69	120	13790	2922	4284	115	33
Mekele Zone	-	-	-	-	-	-	42	*
Mekele	-	-	-	-	-	-	42	*

TABLE 6.19: NUMBER OF HOLDER APPLYING FERTILIZERS, AREA, AND QUANTITY APPLIED BY CROP IN RURAL AND URBAN AREAS, FOR PRIVATE HOLDINGS

Geographic Area	Cereals						
	Total Fertilized Cropland		Type of Fertilizer Applied				
	Holder	Hectare	Natural		Dap		
Holder			Hectare	Holder	Hectare	Quintal	
Tigray Region	503893	234415	332613	102422	22024	6642	4500
West Tigray Zone	122800	74148	92397	37615	6369	2868	1623
Kafta	2358	758	1757	360	225	*	33
Tahtay Adiyabo	12605	8696	10894	5753	567	261	150
Lalay Adiyabo	16028	11396	10312	3799	3055	1406	666
Tahtay Koraro	12441	7370	5843	1285	747	298	292
Medebay Zana	20841	9969	10350	2693	789	*	149
Asegede Tsimbela	18599	12638	15767	6000	544	196	203
Tselemti	20362	14953	19586	11676	347	*	*
Welkait	10691	4368	9347	2614	*	*	*
Tsegede	8876	4000	8540	3434	*	*	*
Central Tigray Zone	187078	89092	120893	33366	6295	1541	956
Mereb Lehe	15005	7486	12143	4042	881	214	96
Ahiferom	30356	12943	15944	4592	1581	377	263
Werie Lehe	22205	10814	17324	5097	542	125	65
Adwa	22123	9174	13516	2332	760	*	62
Lalay Maychew	14035	10013	8973	1993	426	100	109
Tahtay Maychew	16423	7094	5896	1250	*	*	*
Naeder Adet	18996	7594	12041	2595	580	79	74
Kola Temben	19501	9824	14468	3473	736	200	117
Degua Temben	15629	6300	8633	2304	210	*	*
Tanqu Abergele	12802	7849	11957	5689	*	*	*
East Tigray Zone	98257	28174	65741	13446	6085	1319	1128
Gulumahada	13547	3224	6590	806	643	100	86
Erob	2187	247	2171	246	21	1	3
Saesi Tsaedamba	19715	5108	15705	3269	1907	415	454
Ganta Afeshum	17591	3944	9130	1475	435	*	*
Hawzen	18250	6747	11094	2468	2032	556	358
Wukro	10700	4385	7850	2107	476	98	47
Atsbi Wenberta	16268	4519	13201	3076	571	88	108
South Tigray Zone	95702	42969	53562	17988	3275	914	792
Seharte Samre	17875	12617	13449	4627	444	160	71
Enderta	11300	6168	4780	1221	920	387	314
Hintalo Wajirat	17374	7514	9827	2203	419	77	109
Ambalage	9574	2086	3784	407	371	72	58
Endamehoni	7803	1528	5638	955	345	54	64
Rayaazebo	9345	7476	8523	6913	*	*	*
Alamata	4510	1815	2204	1032	*	*	*
Wofla	17920	3766	5357	629	640	112	151
Mekele Zone	57	*	*	*	-	-	-
Mekele	57	*	*	*	-	-	-

TABEL 6.18.4: URBAN HOLDINGS

Geographic Area	Grain Crops							
	Application of Total Fertilizers		Type of Fertilizer Applied					
			Natural		Chemical		Natural and Chemical	
	Holder	Hectare	Holder	Hectare	Holder	Hectare	Holder	Hectare
Tigray Region	5779	3583	927	472	4910	2740	554	371
West Tigray Zone	1090	655	155	88	950	523	94	44
Kafta	17	*	11	*	7	*	-	-
Tahtay Adiyabo	98	97	16	*	73	63	*	*
Laelay Adiyabo	125	105	3	3	121	98	3	4
Tahtay Koraro	195	76	51	5	165	62	44	9
Medebay Zana	376	153	8	1	366	148	10	3
Asegede Tsimbela	133	95	16	11	118	79	11	4
Tselemti	59	24	36	9	16	*	*	13
Welkait	75	60	*	*	75	50	-	-
Tsegede	12	3	-	-	9	3	2	*
Central Tigray Zone	3053	2015	472	224	2626	1555	258	236
Mereb Lehe	262	406	24	12	223	281	38	113
Ahiferom	755	227	43	18	723	204	*	*
Werie Lehe	333	252	84	*	264	152	44	31
Adwa	164	117	34	1	120	105	19	11
Laelay Maychew	514	481	71	46	420	380	78	55
Tahtay Maychew	134	49	*	*	132	43	*	*
Naeder Adet	278	100	*	*	247	89	30	10
Koja Temben	235	125	52	7	195	114	19	3
Degua Temben	110	51	1	*	105	48	*	*
Tanqu Abergele	268	208	137	66	196	138	*	*
East Tigray Zone	496	241	117	61	370	123	129	57
Gulumahada	9	1	-	-	9	1	-	-
Erob	1	*	1	*	-	-	-	-
Saesi Tsaedamba	75	34	18	9	46	11	16	14
Ganta Afeshum	73	16	7	1	60	13	10	2
Hawzen	170	90	41	11	142	48	86	31
Wukro	93	49	20	*	67	32	12	7
Atsbi Wenberta	76	50	30	29	47	18	6	*
South Tigray Zone	1083	638	163	90	927	518	56	30
Seharte Samre	192	195	35	35	164	149	18	11
Enderta	186	144	60	19	136	123	*	*
Hintalo Wajirat	165	115	36	21	132	84	14	10
Ambalage	175	3	-	-	175	3	-	-
Endamehoni	51	14	9	2	43	12	2	*
Rayaazebo	47	42	9	7	37	32	*	2
Alamata	146	83	9	5	124	74	14	4
Wofla	120	41	5	1	117	40	1	1
Mekele Zone	57	*	*	*	38	*	*	*
Mekele	57	*	*	*	38	*	*	*

Rural

FORM EASE -R- 94/2

## Ethiopian Agricultural Sample Enumeration- 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
SR. NO.	FULL NAME	IS MEMEBER OF THE HOUSEHOLD A HOLDER Yes =1 No =2	If Column 3, Code 1			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) ECONOMIC 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
			HOLDER ID	TYPE OF HOLDING CROP =1 LIVESTOCK =2 BOTH =3									
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





## Ethiopian Agricultural Sample Enumeration List of Fields Under Mixed Crops and their Agricultural Practices (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	Farmers' Association	Enumeration Areas	Household Number	Holder Number	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	3			4				
		Parcel No.	Field No.		Parcel No.	Field No.			
Questions		Crop Name	Corp Name	Crop Name	Corp Name	Corp Name	Corp Name		
		code	code	code	code	code	code		
0	1	Type of Holding Private → 1 Others → 3 Rented/contract → 2							
0	2	Total mixed corp area in local unit		Name of Local Unit	code	Area	Name of Local Unit	code	Area
0	3	Was the field been included in the extention pakage program Yes → 1 No → 2							
0	4	Area in percentag share for Each crop							
0	5	Number of trees for permanent crop (Excluding Coffee, Chat, Pinapple, Sugar-cane)		Quantity	Quantity	Quantity	Quantity		
0	6	Number of trees of fruit of permanent crop (Excluding Coffee, Chat, Pinapple, Sugar-cane)		Quantity	Quantity	Quantity	Quantity		
0	7	was the field Irrigated yes → 1 No → 2							
0	8	Variety of seeds used Improved → 1 Indiginous → 2							
0	9	If Indiginous seed was used what was the quantity (for Cereals, Pulses & Oilseeds only)		Kg. Gram	Kg. Gram	Kg. Gram	Kg. Gram		
1	0	If Improved seed was used, what was the quantity (for Cereals, Pulses & Oilseeds only)		Kg. Gram	Kg. Gram	Kg. Gram	Kg. Gram		
1	1	If Improved seed was used what was the cost/price (for Cereals, Pulses & Oilseeds only)		Birr sent	Birr sent	Birr sent	Birr sent		
1	2	was the crop Damaged Yes → 1 No → 2							
1	3	If, yes, what was the major cause of Damage		Reason Code	Reason Code	Reason Code	Reason Code		
1	4	percentage of Damage							
1	5	Any control/ preventive measure Taken for crop damage → 1 → 2							
1	6	If yes, what type of measure Chemical → 1 Both → 3 Non-chemical → 2							
1	7	If chemical Insecticide Insecticide → 1 1&3 → 5 Herbicide → 2 2&3 → 6 Fungicide → 3 All → 7 1&2 → 4							
1	8	Was the field fertilized yes → 1 No → 2							
1	9	If fertilized what type? Natural → 1 Both → 3 Chemical → 2							
2	0	One main Reson for not using Chemical fertilizer		Reason	Code	Reason	Code		
2	1	If chemical fertilizer used 21.1 Type Urea → 1 Both → 3 Dap → 2 21.2 Quantity in kg.							
2	2	If natural fertilizer used mainly what type Manure → 1 Both → 3 Compost → 2 Others → 4 / If others specify/							





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
Killil	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.	<b>The Field or other land used</b> 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			Area in Percentage share for each Crop (If in Col. 11 Code 3)
					Quantity of prod. In Local unit			
				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		Area in Sq.m.		Area in Local Units		Reason if area Measurement not conducted		Code	
Date of measurement				Name of Local Area Unit					
Date	Month			code	Area				

Part III. Bearing and Distances of the Measured Area

Side ID	A-B	B-C	C-	D-	E-	F-	G-
Bearing							
Distance 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							









**Ethiopian Agricultural Sample Enumeration  
Livestock and Honey Production-2001/2002 (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	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	<input type="checkbox"/>
No → 2 Complet question No II	<input type="checkbox"/>

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

**1. Cattle of all ages on February 8,2002**

- a. Cattle < 6 months
- b. Cattle 6 months & <1 years old
- c. Cattle 1 year to <3 years old
- d. Cattle 3 years to < 10 years
  - (1) Beef Cattle (for meat production purpose)
  - (2) For breeding purpose
  - (3) Dairy cows
  - (4) Cows gave milk for the last 12 months
  - (5) Draft Cattle (for work purpose)
  - (6) Cattle for other purposes
- e. Cattle 10 years and older
- f. Grand Total
  - 1. Total Local breed
  - 2. Total Exotic
  - 3. Total Hybrid

None	Total	Male	Femal
	1	2	3
	4	5	6
	7	8	9
	10	11	12
	13	14	15
	16	17	18
	19	20	21
	22		23
	24		25
	26	27	28
	29	30	31
	32	33	34
	35	36	37
	38	39	40
	41	42	43
	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
<b>5. HORSES of all ages</b>		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
<b>6. MULES of all ages</b>		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
<b>7. ASSES of all ages</b>		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
<b>8. CAMELS of all ages</b>		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**

**9. CHICKENS Total on February 8, 2002**

- a. Laying hens (over 20 weeks old)
- b. Non-laying hens ( over 20 weeks old)
- c. Cocks - males ( over 20 weeks old)
- d. Cockerels (8 weeks to 20 weeks old)
- e. Pullets (8 weeks to 20 weeks old)
- f. Chicks ( below 8 weeks old)

_____	None
_____	
_____	
_____	
_____	
_____	
_____	

216	
217	
218	
219	
220	
221	
222	

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

Yes → 1 Complet question below	<input type="checkbox"/>
No → 2 Complet question No. 11 'c' and 'g' only	

**10. HONEY BEE COLONIES on February 8, 2002**

- a. Traditinal beehives
- b. Intermediate beehives
- c. Modern beehives

_____	None
_____	
_____	
_____	

223	
224	
225	
226	

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

**11. Dairy cows & camels**

- a. Dairy cows gave milk
- b. Lactation period of cows (in months)
- c. Average milking month in a caw (traditional)
- d. Milk production - per day per dairy cow in litres
- e. Dairy camels gave milk
- f. Lactation period of camels (in months)
- g. Average milking month in a camel (traditional)
- h. Milk production - per day per camel in litres

_____	None
_____	
_____	
_____	
_____	
_____	
_____	
_____	

227	
228	
229	
230	
231	
232	
233	
234	

None

**12. Egg production - per hen per clutch**

'In nearest hole number of eggs

_____	
_____	

235	
236	

**13. Average number of clutches (in days)**

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

a. Average honey production from traditional beehive per season per beehive \_\_\_\_\_

Frequency of production per year per beehive. \_\_\_\_\_

b. Average honey production from intermediate beehive per season per beehive \_\_\_\_\_

Frequency of production per year per beehive. \_\_\_\_\_

c. Average honey production from modern beehive per season per beehive \_\_\_\_\_

Frequency of production per year per beehive. \_\_\_\_\_

None

237	
238	
239	
240	
241	
242	

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

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

**16. Source of Livestock feed**

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

## Ethiopian Agricultural Sample Enumeration

### Use of Crop, Livestock and Products - 2000/01 (1994 E.C.) (Peasant Holding)

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

#### Part II - Crop Usage Proportions (Percentages)

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

## 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 using 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



## 2.2 Work Animals (including those used for transport)

Line No.	2		3	4		5		6	7		8			
	Name of animal			Number owned	Replacement Value (Cost Per Animal)		Total Value		Average age of animal? (Years)	Do you rent work Animals?		If yes rate per day		
	Code	Birr			Ct.	Birr	Ct.			Yes=1 No=2	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)

Line No.	2		3	4		5		6	7		8			
	Storage facilities			Number owned	Replacement Value (cost per building)		Total Value		Average storage capacity of buildings? (in Quintals)	Do you rent storage facilities?		if yes, enter rate per month		
	Code	Birr			Ct.	Birr	Ct.			Yes=1 No=2	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



RURAL

## Ethiopian Agricultural Sample Enumeration List of Fields Under Mixed Crops and their Agricultural Practices (Belg Season) - 2001/02 (1994 E.C.)

Form EASE-R-94/12B

**Part I- 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'		Type of Holding	
							Name	Age	Sex	Crop → 1
									male → 1 Female → 2	Livestock → 2 Bothe → 3

**Part II - Area Under Mixed Crops and Agricultural Practice**

1	2	3						4					
	Questions	Parcel No.		Field No.				Parcel No.		Field No.			
		Crop Name		Corp Name		Crop Name		Corp Name		Corp Name		Corp Name	
		code		code		code		code		code		code	
0	1	Type of Holding Private → 1 Others → 3 Rented/contract → 2											
0	2	Have the field been included in the extension package program Yes → 1 No → 2											
0	3	Total Mixed Crop Area in Local Unit Name of Local Unit code Area											
0	4	Production in Local Unit											
		Production Unit		Quantity		Production Unit		Quantity		Production Unit		Quantity	
		Local Unit	Code			Local Unit	Code			Local Unit	Code		
0	5	Percentage share of Area Quantity Quantity Quantity											
0	6	Was the field irrigated yes → 1 No → 2											
0	7	Variety of seeds used Improved → 1 Indigenous → 2											
0	8	Kg. Gram		Kg. Gram		Kg. Gram		Kg. Gram		Kg. Gram		Kg. Gram	
0	9	Kg. Gram		Kg. Gram		Kg. Gram		Kg. Gram		Kg. Gram		Kg. Gram	
1	0	Birr Cent		Birr Cent		Birr Cent		Birr Cent		Birr Cent		Birr Cent	
1	1	Was the crop Damaged Yes → 1 No → 2											
1	2	Reason Code		Reason Code		Reason Code		Reason Code		Reason Code		Reason Code	
1	3	percentage of Damage											
1	4	Any control/ preventive measure Taken for crop damage → 1 → 2											
1	5	If yes, what type of measure Chemical → 1 Non-chemical → 2 Both → 3											
1	6	Insecticid → 1		1&3 → 5		Herbicide → 2		2&3 → 6		Fungicide → 3		All → 7	
1	7	Was the field fertilized yes → 1 No → 2											
1	8	If fertilized what type? Natural → 1 Chemical → 2 Both → 3											
1	9	Reason		Code				Reason		Code			
2	0	If chemical fertilizer used											
		20.1 Type Urea → 1 Dap → 2 Both → 3											
		Kg. Gram		Kg. Gram		Kg. Gram		Kg. Gram		Kg. Gram		Kg. Gram	
2	1	If natural fertilizer used mainly what type ? Manure → 1 Compost → 2 Others → 4 Both → 3 / If others specify/ →											



URBAN

FORM EASE -U- 94/2

### Agricultural Households Demographic Characteristics - 2001 /2002 (1994 E.C.)

#### PART I- IDENTIFICATION PARTICULARS

1	2	3	4	5	6	7	8
REGION	ZONE	WEREDA	TOWN	HIGHER/WEREDA	KEBELE	ENUMERATIO AREA	HOUSEHOLD ID NO.

#### PART II - DEMOGRAPHIC CHARACTERISTICS OF EACH MEMBER OF THE AGRICULTURAL

##### HOUSEHOLD (STARTING WITH THE HEAD OF THE HOUSEHOLD)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	
SR. NO.	FULL NAME	IS MEMBER 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	10 YEARS AND ABOVE		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		
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

