

**THE FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA CENTRAL STATISTICAL  
AGENCY**

**LARGE AND MEDIUM SCALE COMMERCIAL FARMS SAMPLE SURVEY  
2020/21(2013E.C)**

**RESULTS AT COUNTRY AND REGIONAL LEVEL**

**VOLUME VIII**



**STATISTICAL REPORT ON  
AREA AND PRODUCTION OF CROPS, AND FARM MANAGEMENT PRACTICES**

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**STATISTICAL BULLETIN**

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# CHAPTER ONE

## 1. BACKGROUND

### 1. Introduction

Agriculture is the primary activity in Ethiopia, where about 84 percent of the country's population engaged in various agricultural activities and generates its income for household consumption to sustain its livelihood. Moreover, the country generates the lion share of its foreign currency earnings from the sales/export of agricultural commodities abroad and currently the sector contributes about 42 percent to the country's GDP, and above all, the sector is believed to be the main source of capital to be accumulated for the process of establishing the future industrialized Ethiopia, which again shows the determinant role played by the sector to bring about sustainable economic development for the country in the years to come.

Ethiopian agriculture have suffered for years from the use of traditional farm implements and subsistence farming system as well as limited use of modern farm inputs, that resulted to the sector's poor performance (i.e. low productivity of the sector). However, the surplus production along with productivity increments that have been registered during the last six consecutive years, indicated that the agricultural system as a whole and the crop production sub sector in particular is showing improvement in terms of productivity, the extent and use of modern farm inputs, and modern farming system practices, etc.

Despite those bottlenecks that hampered the sector's productivity, Ethiopian agriculture, as it had been used for centuries in the past and till the present, the sector is believed to continue being the leading and determinant sector of the country's future economic development.

As mentioned earlier, improvements that have been registered in the overall performance of the agricultural sector, during earlier consecutive years, cannot be considered as an end by itself but could be taken as an indicator for the need of much more efforts to be made by the government and the concerned stakeholders to adopt and implement the available modern and improved agricultural technologies that help attain enhanced productivity and maintain sustainable development of the sector. Thus, all efforts required to bring about the desired change/improvements on the overall Performance of the agricultural sector as a whole could only be successful, if and only if policies, strategies, implementation plans and programs and

related efforts are geared towards addressing the problems identified in the two agricultural sub- sectors. The two major agricultural sub sectors are:-

- i. **Private agricultural holding:** this sub-sector includes rural-urban small and fragmented privately owned agricultural holdings on which all types of agricultural activities such as crop production, livestock rearing...etc., are performed by the operator/holders to obtain agricultural produce for self/family consumption and sometimes for sell. However, over 95 % of the annual gross total agricultural output of the country is said to be generated from this sub-sector,
- ii. **Commercial Farms:** - this sub-sector refers to the farms that include state and private commercial farms mainly established for the purpose of profit making by selling agricultural products at local market and/or abroad. These farms are commonly owned and operated by government, private companies and non-governmental institutions, such as private individual investors, shareholders, religious and non- religious institutions...etc.

The sub-sector is mainly characterized by the use of relatively capital intensive, mechanized and market oriented farming system, with increased use of modern farm management practices and inputs such as, use of high tech-farm machineries and implements, irrigation scheme, use of chemical fertilizers, pesticides and improved seeds.

In Ethiopia, however, due to various reasons, commercial farms are not widely spread, and as a result of which the contribution of these farms to the country's gross total agricultural output is limited only to about 5 percent. According to some written documents, the introduction of Commercial farms in Ethiopia goes back to the Pre-Derg era, where government owned pilot state and research farms on the basis of Yugoslav model [MOSFD 1986-370], which pave the way for the establishment of private commercial, state and institutional farms in Awassa, Arbaminch, Zeway and Shewarobit which latter on transformed into well organized and relatively mechanized large and medium scale state, private and institutional farms that are collectively called 'Commercial Farms' .

Since then, large and medium scale commercial farms in Ethiopia had been forced to be reorganized by undertaking various structural and organizational adjustments with varying legal status including Ownership over a number of economic policy changes that took place over the

last three decades. Nevertheless, a decade has passed since the existing Commercial farms reorganized on the basis of market oriented economic policy adopted by the existing Federal Democratic Republic Government of Ethiopia.

This report is the eighth of its type, where the first one was published in the 2002/03 (1995 E.C.), presenting the results of the 2001/02 (1994 E.C.) and the second one was published in the 2008/2010(2001 E.C). During the years between 2002/03 (1995 E.C.) and 2008/2010(2001 E.C) Central Statistical Agency had conducted more than Six surveys on Commercial farms but failed to produce the results due to various reasons mainly due to unwillingness of respondents to give accurate information. However, after making a through revisions and improvements on the previously adopted questionnaires, the reports on data collection methodology, related survey documents and results in the years 2010/10 (2002 E.C.) and 2010/11 (2003EC) were also released, CSA conducted Large and Medium Scale Commercial farms sample survey covering the whole country.

This report, therefore, presents quantitative information on total area, volume of production and yield of major crops (temporary and permanent), and total crop area under different farm management practices as obtained and summarized from the results of the 2020/21(2013 E.C.) commercial farms sample survey of the Meher Season.

## **2. OBJECTIVES OF THE 2020/21(2013 E.C) LARGE AND MEDIUM SCALE COMMERCIAL FARMS SURVEY**

The major objectives of the 2020/21(2013 E.C) commercial farms sample survey is to provide:-

- Statistical data on crop area and volume of production by farm and crop type to fill-in the existing data gap,
- Detail data on various inputs applied for large and medium scale agricultural production mainly quantity of Chemical fertilizers, pesticides, insecticide improved seeds & indigenous seed.

The provision of the above mentioned information are important for planning and policy formulation as well as for promoting the establishment of Commercial farms, and to design and formulate means and ways as how to facilitate the transformation of the existing small and fragmented private peasant agricultural holding to Commercial farms in the long run.

# **CHAPTER TWO**

## **2. Survey Methodology, Operation and Data Processing**

### **2.1 Scope & Coverage**

The 2020/21(2013 E.C) large and medium scale commercial farms cover all urban & rural CHAPTER s of the country. Considering the cost and manageability of field work a sample of 3870 farms were planned and decided to be covered at national level. But the survey succeeded to cover 3055 farms. This sample is allocated to each region based on number of farms each region has. The regional level distribution of the Farms is given in Appendix III.

### **2.2 Sampling Frame**

The sampling frame which is list of commercial farms with their cropland area size and livestock number is collected from all part of the country through CSA Branch Statistical Offices. The collected farm list is compiled at the head office and the functional and nonfunctional farms at the time of updating are identified. Farms which are selected directly and those selected by sample are identified based on this frame. Then the lists of commercial farms to be covered by the survey are distributed back to the Branch Offices for the actual survey.

### **2.3 Sampling Design**

Two separate sample design is prepared for Commercial farms involved in crop production and livestock. Before the sample selection was done, the cut off point for the farms was decided. The same cut off point for farms involved in crop production and those involved in livestock was set. Farms having total area/number of livestock above the cutoff point are selected with certainty whereas farms having area/ number of livestock below the cutoff point is sampled using probability proportional to size, size being the total area / number of livestock of the farms. For farms involved in livestock simple random sampling

technique is used for selection.

The estimation procedure and measure of their precision are given in Appendix I

## **2.4 Organization of Field work**

Field organization is usually used as a means to link the data source with the central office to properly carry on the field data collection operations and for the strict control and supervision of the fieldwork.

Since the Commercial farms sample survey is chapter and parcel of the 2020/21(2013 E.C) annual Agricultural Sample Survey, the field organization setup that has been used for the agricultural sample Survey of private agricultural holdings was also used for the enumeration of Commercial farms. Moreover, as it has been planned earlier, the actual field data compilation operation for commercial farms was scheduled to be started at the time the field data collection operation that have been carried out for private agricultural holdings were almost due completion. The field worker who was assigned for Commercial farm enumeration was responsible to cover a minimum of 1 and a maximum of 5 farms depending on the number of sampled farms within the territory of the Branch Statistical Office the enumerator belongs to. Moreover, senior supervisors and statisticians who accomplish their assignment in the private peasant agricultural holdings enumeration were assigned as supervisors for quality control that includes spot check, re-interview, and check the consistence of information in the filled-in questionnaires...etc.

## **2.5 Training of Field Staff**

Country experience indicates that it is essential to provide instruction manual and training for survey enumerators and supervisors in order to standardize procedures, secure common understanding of tasks to be performed and provide a reference guide during enumeration. Good data quality is assured when the Training meets its objectives and the enumerators and supervisors show a sense of responsibilities and enthusiasm in the exercise of the survey operations.

However, due to their scattered location, and a number of technical and

administrative reasons, the field data collection activities for commercial farms was planned to be carried out by senior supervisors. Accordingly, CSA organized a two stage training program that is a training of trainers and followed by training of supervisors. The first stage training was given at the CSA headquarter in Addis Ababa to the trainers consisting of professional staff at head office. The second stage training was wider in its scope, focusing on reviewing the details of the prepared survey documents and followed by discussions on the past survey experience that took place in 25 training centers located at CSA Branch Offices .

## **2.6 Method of Data Collection**

Commercial farms are expected to properly register and document each and every activity carried out in each and every plot of land mainly for administrative purpose. In line with this, the data collection of the year 2020/21(2013 E.C) Commercial farms sample survey was performed by interviewing the farm Owners/managers. The areas of these farms are directly measured by GPS except that of state owned farms whose areas are collected by interview.

## **2.7 Data Processing**

Census and Survey Processing System (CSPPro) software was used by data processing experts to design the forms based on the final paper questionnaires obtained from statisticians. Validity checks such as ranges, skips, consistencies were included in the application to maintain the quality of the data. Computer Assisted Personal Interviewing (CAPI) using tablets was used to conduct face-to-face interview. The collected data was then transferred to the supervisor tablet using Bluetooth. Using internet, the supervisor transferred the collected data to the server located at the head office. At the head office, further validity checks were done on each question and consistencies between questions. Errors obtained were sent back to the field for correction. After the corrected data was sent to the head office, further processing was done on the completed questionnaires. The final stage of the data processing was to summarize the data and produce statistical tables. Estimation of the statistical tables was done using CSPPro and the tabulation component of IMPS (Integrated Microcomputer Processing System)



software.

## **2.8 Basic Concept 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 compiled accurately to reflect the agricultural situation. Standard concepts and definitions used in a survey setup provide clear linkages between various tables of the current 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 survey 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 commercial farms sample survey includes:-

**Commercial Farms:-**refers to certified (legally established) farms owned/operated by government, private investors, and/or shareholders, which are profit oriented large and medium scale farms. These farms relatively use capital intensive, mechanized and market oriented farming system, as well as modern farm management practices and inputs such as irrigation scheme, fertilizers, pesticides . . . etc, to attain high productivity per unit of area.

**Agriculture:**-The growing of crops and/or raising of livestock for own consumption and/or sale.

**Crop:-** Includes Cereals, Pulses, Oilseeds, Vegetables, Root Crops, Fruits, Coffee, Inset, Chat, Hops, Sugar cane, Cotton, Tobacco ... etc produced for food, making drinks, stimulation and making fabrics or clothing.

**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 plugging 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, Hops...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 crops.

**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 organic and/or inorganic nutrients to the soil intended to increase the amount of plant nutrients available for crop growth. Usually, fertilizers are divided into two CHAPTER s, natural and industrial. Examples of natural fertilizers are farmyard manure, wood ashes, etc, while industrial fertilizers are NPS(Nitrogen, phosphate and sulfur), UREA (Ammonium Nitrate), etc.

**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.

# CHAPTER THREE

## **3. Summary of the 2020/21(2013 E.C) Large and Medium Scale Commercial Farms Sample Survey Results**

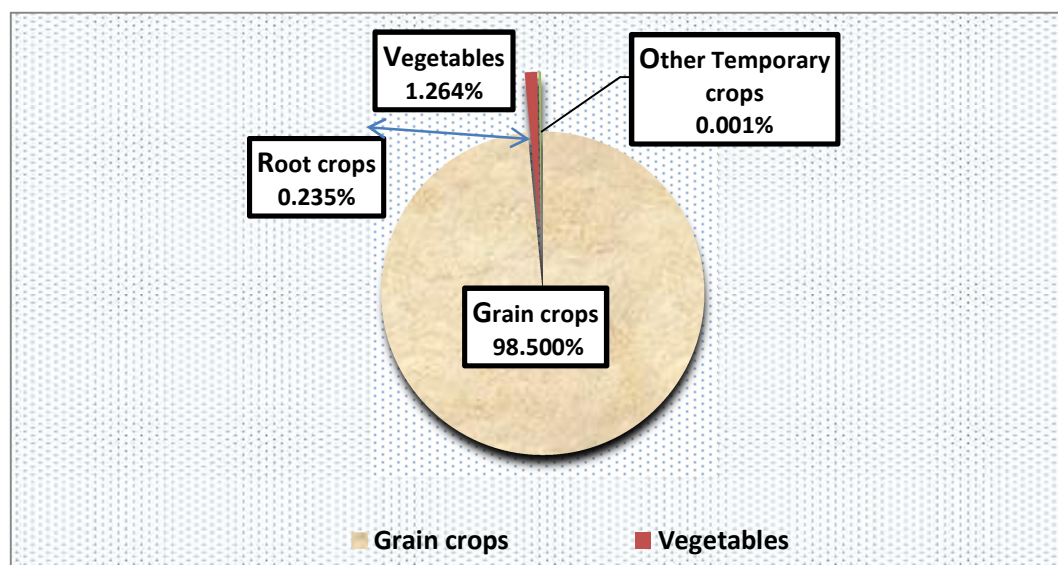
The type of crops on which data were collected during the 2020/21(2013 E.C)commercial farms sample survey are those food crops that are used for domestic consumption and for export as well as those crops used as raw material for domestic agro-industries. Based on their biological classifications these crops are categorized into three major groups i.e. grains (which include cereals, pulses and oil crops), vegetables and root crops from the category of temporary crops and three major groups i.e. Fruit crops, Cash crops and industrial crops from the category of permanent crops. In this chapter of the report, discussions on major findings of the survey results on cropped area and production of temporary and permanent crops of Meher Season crops presented in Section 3.2. Likewise, major findings on Farm Management Practices for Temporary and Permanent crops for Meher Season is presented in section 3.5, as obtained and summarized from the results of the 2020/21(2013 E.C).

### **I. Meher Season' Total Cropland Area and Production of Temporary Crops**

#### **a) Grain Crops**

Grain crops refer to the major crop categories that included cereals, pulses and oilseeds, which constituted the major food crops for the majority of the country's population. Besides being staple food crops, the production of grain crops in Ethiopia serves as a source of foreign currency earning that will be used as an input for all efforts being made to bring about sustainable economic growth in the country. In Ethiopia, therefore, the production of grain crops is the most widely spread crop production activity both in terms of the extent of cropped land area and volume of production when compared with crops such as vegetable and root crops.

**Fig 1. Percentages of Total Cropland Area by Major Crop Category of Meher Season for Commercial Farms: Country Level, 2020/21(2013 E.C)**

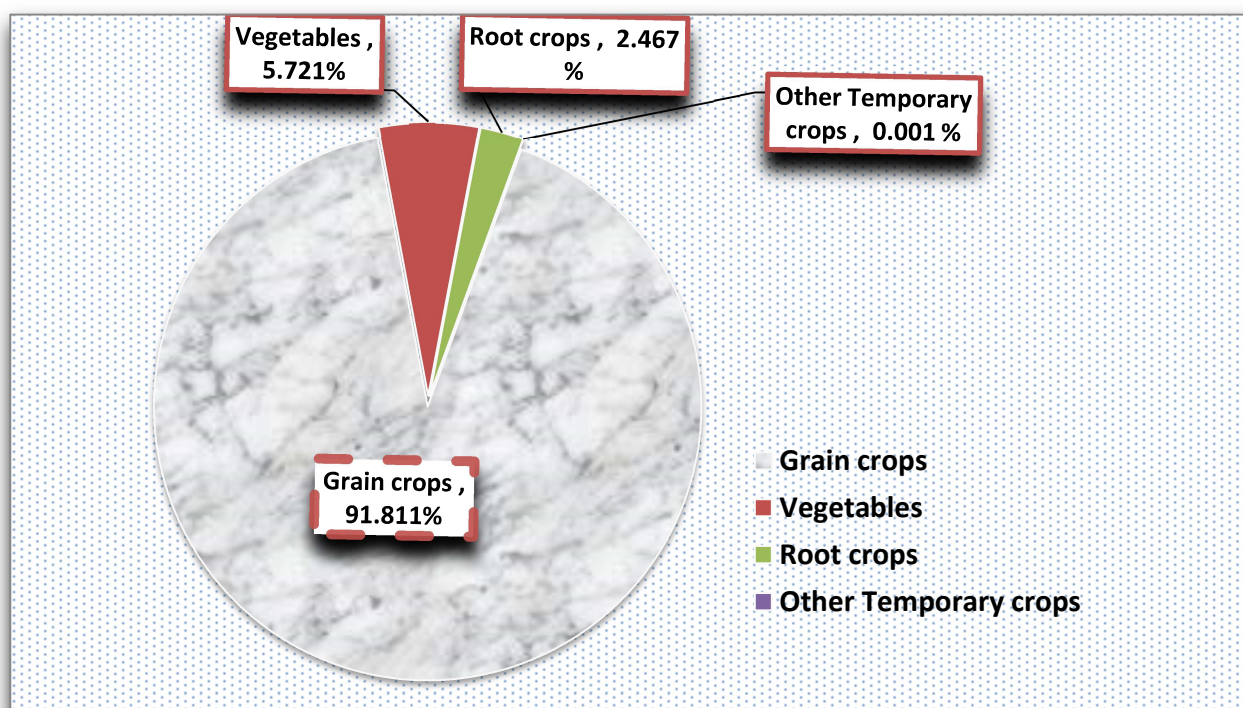


**Summary Table 1. Estimates of Total Cropland Area by Major Crop Category of Meher Season for Commercial Farms: Country Level, 2020/21(2013 E.C)**

Crop Type	Area In Hectare	Percentage
Grain Crops	671,093.47	98.500
Vegetables	8,614.15	1.264
Root Crops	1,601.34	0.235
Other Temporary Crops	7.43	0.001
All temporary crops	681,316.39	100.00

According to the results of the 2020/21(2013 E.C) Large and Medium Scale Commercial Farms sample survey, the total area covered by grain crops was found to be 671,093.47 hectares (98.500% of the total country level temporary crops covered land area), from which a total of **14,125,163.50** of production, (91.811% of the total country level production of temporary crops) was obtained during 2020/21(2013 E.C) Meher season harvest. The results of this survey indicates that, both the cultivated land area and volume of production of grain crops obtained from crop production activity carried out during the 2020/21(2013 E.C) Meher Season, contributed the lion share.

**Fig 2. Percentage distribution of Total Production Harvested by major Crop Category and Meher Season for Commercial Farms: Country Level, 2020/21(2013 E.C)**



**Summary Table 2. Estimates of Total Production Harvested by Major Crop Category and Meher Season for Commercial Farms: Country Level 2020/21(2013 E.C)**

Crop Type	Production in quintals	Percentage
Grain crops	14,125,163.50	91.811
Vegetables	880,123.43	5.721
Root crops	379,592.34	2.467
Other Temporary crops	175.63	0.001
<b>All temporary crops</b>	<b>15385054.9</b>	<b>100.00</b>

Moreover, as it has been mentioned earlier, cereals which are classified within the grain crops category, are also produced in greater volume compared to the other crops by commercial farms because they are the principal staple crops and export commodities. As a matter of fact, cereals are grown in almost all the survey covered commercial farms with notable variation in the extent of area planted and

the volume of production obtained across farms. This variation is seemingly caused by a shift in choice of crops, Difference in weather conditions and speculated market demand. As indicated in the Appendix I Table 2, cereals covered a total of **325,924.06** hectares of land area, from which a production of **10,411,293.59** was obtained during 2020/21(2013 E.C)Meher Season harvest. Similarly, pulses and oilseeds within the grain crops category are rich in their nutrient content and being used as essential part of the dietary requirement for Most Ethiopians. Above all pulses and oil crops form a significant commodity group of export that brings a considerable amount of foreign currency earnings for the country for the reasons mentioned above and a number of others, pulses and oil crops are grown widely by commercial farms in Ethiopia. Nevertheless, the extent of crop land area and volume of pulses and oil crops production in commercial farms show variation from one farm to another for the same reasons mentioned for cereals above. According to the results of the 2020/21(2013 E.C)commercial farms sample survey, pulses and oil crops covered a total land area of **58,646.66** and **286,522.75** hectares, from which a total production of **1,280,915.36** and **2,432,954.55** Quintals was obtained during the 2020/21(2013 E.C)Maher seasons harvest, respectively (For details see Table 2 in Appendix iv ).

#### **b) Vegetables**

Vegetables are crops that are rich in vitamins necessary for the healthy growth of humans. Moreover, due to their high nutritional value vegetables do have ever rising demand both in local and foreign markets, and are classified among those export commodities' that generate considerable amount of foreign currency earnings to the country. As a matter of these facts commercial farms in Ethiopia used to grow vegetables over a considerable land area for years.

As indicated in Appendix IV Table 2, vegetables covered a total of **8,614.15** hectares of land from which a total volume of **880,123.43** Quintals were obtained in 2020/21(2013 E.C) by Meher Season's harvest

### **c) Root Crops**

Production of **379,592.34** quintals was obtained from Meher season's harvest (Tables 1 in Appendix IV). Like that of grain crops the contribution of root crops such as potatoes and sweet potatoes for human consumption as food crops cannot be over emphasized. The majority of the population in Southern and South Western Ethiopia mainly depends on root crops for their daily food consumption. In addition to serving as food crop and staple food at the time of surplus and/or deficit production years, root crops yield industrial and pharmaceutical products. Moreover, it should be noted that root crops are also a good source of cash and foreign exchange. As the survey result indicates, the total area under root crops was found to be **1,601.34** hectares, from which a total Production of **379,592.34** quintals was obtained.

## II. Cropland Area and Production of Permanent Crops

Permanent crops are long-term crops, which do not have to be replanted for several years after each harvest. These include tree crops such as coffee, enset, chat, oranges, mangoes, bananas, papayas, avocados...etc. It doesn't include cotton. The trees that yield oranges; mangoes, papayas, apples and other are known as fruit trees. Permanent crops are a good source of cash both for the farms and the country for generating income and foreign exchange. According to the survey result permanent crops covered a total land of **364,251.70** Hectares with a total production of **72,157,560.86** Quintals obtained from commercial farms during the year 2020/21(2013 E.C)Meher season harvest. These area and production for permanent crops does not include the values of cotton. For simplicity of description of the statistical tables and comparison purposes permanent crops have been grouped into three categories. The categories are fruit crops, cash/stimulant crops, industrial and other permanent crops

**Summary Table 3.Estimates of total area harvested of Meher Season's permanent crops by major crop category for commercial farms: National Level 2020/21(2013 E.C)**

<i>Crop Type</i>	<i>Area in hectare</i>	<i>Percentage</i>
<b>Fruit crops</b>	11,816.90	3.244
<b>Cash crops</b>	126,325.65	34.681
<b>Industrial crops</b>	226,024.80	62.052
<b>Other Permanent crops</b>	83.24	0.023
<b><i>All permanent crops</i></b>	<b>364,250.59</b>	<b>100.000</b>

### I. Fruit Crops

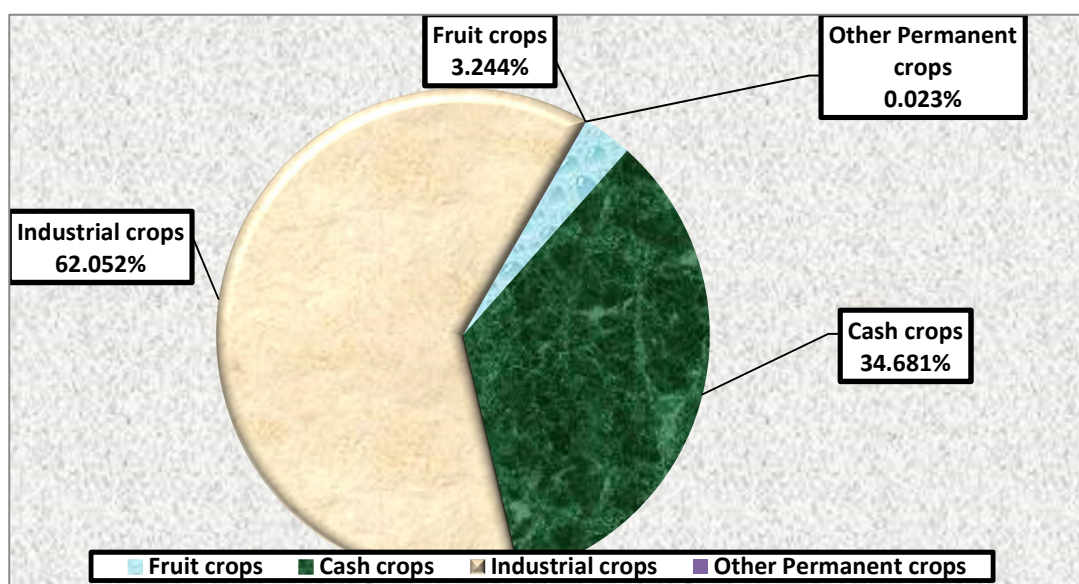
Fruit production is relatively new to Ethiopian agricultural system, with commercial fruit production dating back to only about six decades. Therefore, most of the important fruits that are produced in commercial farms are recent introductions into the country. However, various kinds of fruit crops grow in different regions of the country yielding varying quantities of fruits within commercial farms. Summary of total area harvested of Meher Season's permanent



crops by major crop category for commercial farms is illustrated in Summary Table 3 and in Fig 3.

As indicated in Summary Table 3, fruit crops covered a total area of **11,816.90** Hectares (**3.244%** of the total crop land area under permanent crops), with about **1,518,678.58** quintals of production (**2.10** % of the total permanent crops production), during the 2020/21(2013 E.C) Meher Season harvest. Oranges, Mangoes and Bananas took the highest area and production share of fruit crops (See Table 2in Appendix IV).

**Fig3:-percentage distribution of area under permanent and industrial of permanent crops by major crop category for commercial farms: National Level 2020/21(2013 E.C)**



## **II. Cash/Stimulant crops**

Cash/stimulant crops include crops such as tea, coffee and chat considered as easily marketable at local and foreign markets. Commercial farms engaged in growing stimulant crops such as coffee and tea uses larger area with the objective of obtaining larger volume of production so as to earn considerable amount of cash in local and/or foreign currency. As indicated in Table 3 cash/stimulant crops were grown on an estimated total land area of **126,325.65** hectares, with a total production estimated at **1641518.29** quintals of production, contributing about **34.681%** and **2.27 %** to the total cropland area and production of permanent crops, respectively (For details see Summary Table 3).

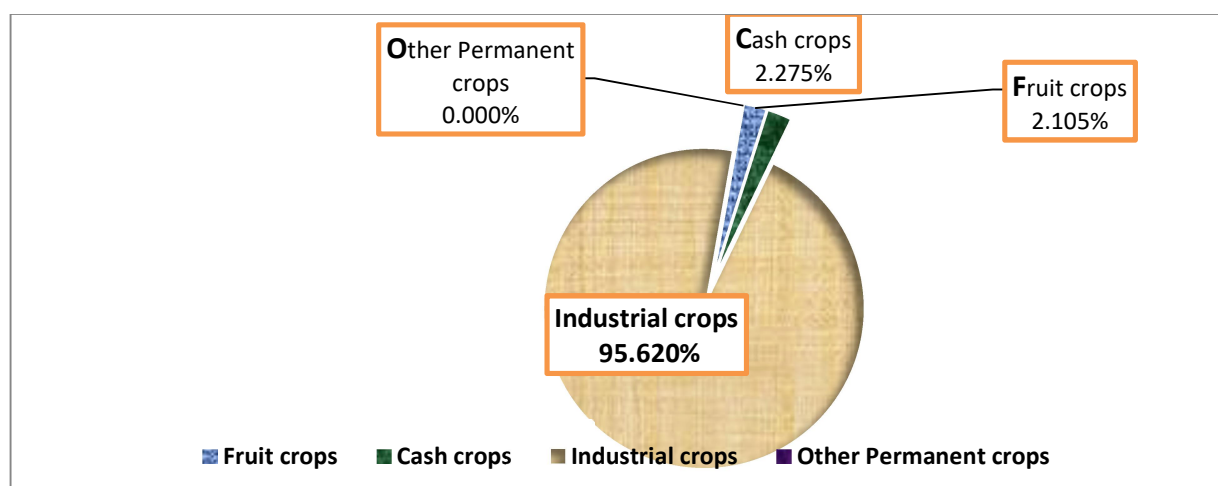
## **III. Industrial Crops**

Industrial crops refer to crops commonly used as raw material for domestic agro-industries, which include crops such as cotton and sugarcane. Industrial crops grown in commercial farms covered a total land area of **226,024.80** hectares (**62.052%** of the total area under permanent crops), with a total production of **68997305.49** Quintals (**95.62%** of the total permanent crops production), during the 2020/21 Meher Season harvest.

**Summary Table 4. Estimates of total production harvested of Meher Season's permanent crops by major crop category for commercial farms: *National Level 2020/21(2013 E.C)***

<i>Crop Type</i>	<i>production in quintals</i>	<i>Percentage</i>
<b>Fruit crops</b>	<b>1,518,678.58</b>	<b>2.105</b>
<b>Cash crops</b>	<b>1641518.29</b>	<b>2.275</b>
<b>Industrial crops</b>	<b>68997305.49</b>	<b>95.620</b>
<b>Other Permanent crops</b>	<b>49.99</b>	<b>0.000</b>
<b><i>All permanent crops</i></b>	<b>72157552.35</b>	<b>100.00</b>

**Fig4:- Percentage Distribution of Production under Permanent and Industrial of Permanent Crops By Major Crop Category for Commercial Farms: National Level 2020/21(2013 E.C)**



### **III. Comparison of the current year (2020/21) Grain Crops yield with last Year (2019/20), estimates.**

Table A of the report attempts to compare area covered and total production estimates of selected important food crops obtained from the 2020/21(2013 E.C) commercial farms Survey with last year, i.e. 2019/20(2012 E.C.) Area and crop production estimates of the same crops.

The estimated cropped land area obtained this year for grain crops shows increased by **1.11%** and but grain crops production obtained have decreased by **0.09%** over last year 2019/20 Estimate.

### **3.2 Farm Management Practice**

#### **3.5.1 Introduction**

The overall performance of a country's agriculture, usually affected by quite a number of factors, among which the level and extent of using modern agricultural practices (such as increased use of fertilizer, pesticides, and improved seeds...etc) is the first and the most important factor to be considered. This is merely because increased productivity can only be achieved through the use of the above mentioned farm inputs along with appropriate newly introduced modern farm management practices.

Towards this end, a number of modern techniques and technologies are available to help achieve enhanced crop productivity. The major actors behind achieving high level of productivity include among others, greater and efficient use of fertilizers, pesticides and improved seeds. Thus, during the year 2020/21(2013 E.C) commercial farms sample survey, basic data on the agricultural inputs and practices were collected, summarized and the result are presented in this report.

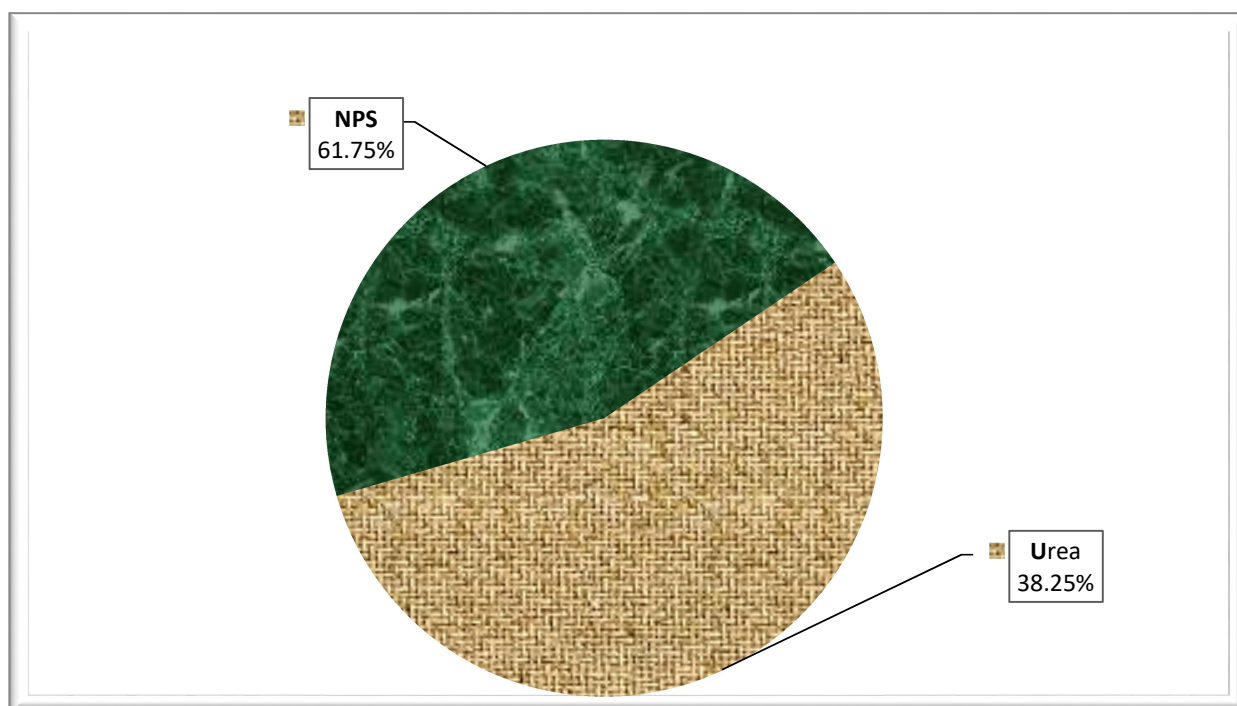
## **IV. Cropland Area under Different Agricultural Input and Farm Management Practices**

This section of the chapter deals with the agricultural input applied cropland area and quantity of inputs used by commercial farms.

### **a) Fertilized Cropland Areas and Quantity Applied**

Fertilizing materials and mixture are not restricted to inorganic chemical but include organic substances such as crop residues, animal dung ...etc. Therefore, fertilizers refer to organic and/or inorganic materials added to the soil with the intention of increasing the amount of plant nutrients available for crop growth. However, in 2020/21(2013 E.C) commercial farms sample survey; data was collected only on the application of chemical fertilizers. The chemical fertilizers that were covered by the survey consisted of NPS (Nitrogen phosphate and Sulfer, and UREA (Ammonium nitrate). The results of the survey indicates that at country level the total UREA and NPS applied cropland area was found to be **531,534.86** and **858,179.96** hectares, which accounted for **38.25%** and **61.75%** of the total cropland area reported for Commercial farms at country level, during the 2020/21 Meher Season harvest. (For details see Table 3 on Appendix IV)

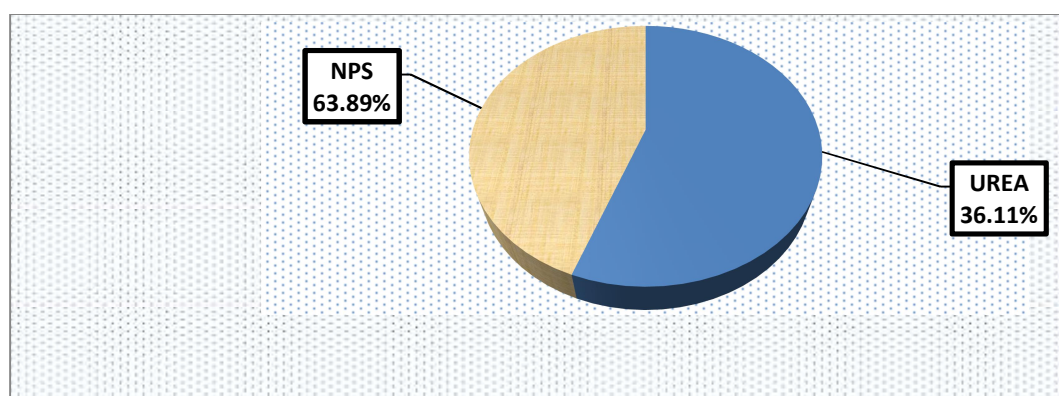
**Fig 5. percentage distribution of chemical fertilizers applied crop land area by type of fertilizer for meher season for commercial farms at country level 2013E.C (2020/21).**



#### **b) Quantity of Chemical Fertilizer Applied**

According to the results of the survey, the total quantity of chemical fertilizers applied during 2020/21 Meher Season for commercial farms was found to be **1,455,664.94** quintals. Out of which the share of NPS was **63.89%** while the remaining **36.11%** share was found to be the contribution of UREA. (For details see Table 3 on appendix and Figure 6).

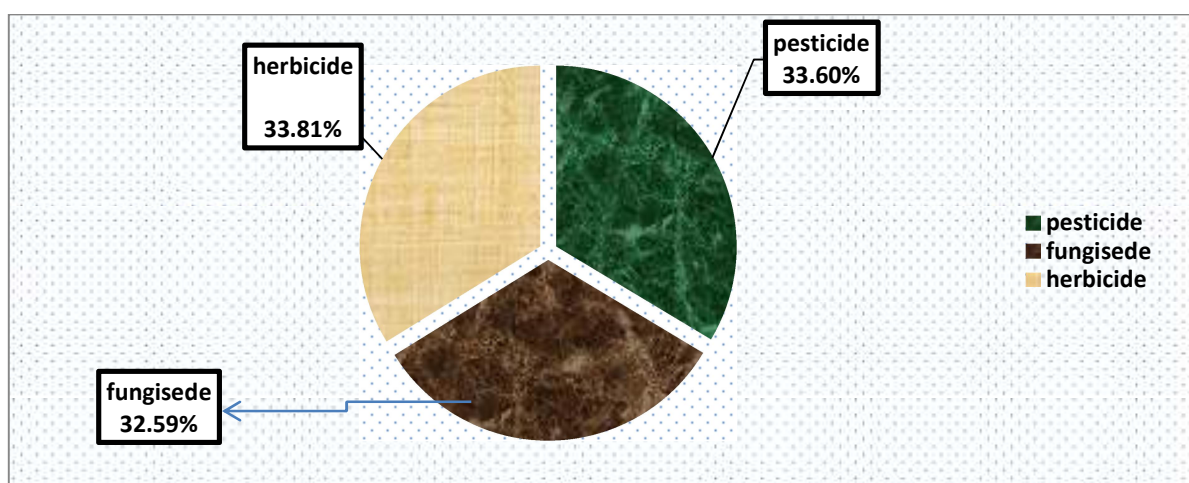
**Fig 6. percentage distribution of Quantity of chemical fertilizers applied by type of fertilizer for meher season for commercial farms at country level 2013 E.C (2020/21)**



### c) Cropland Areas Treated with Chemicals.

Pesticides, fungicide and herbicides are chemicals that are commonly used for the control of mitigation of elimination of pests that are detrimental to crops growth and productivity. As indicated in statistical for details see Table 3 on appendix, the total cropland area treated with pesticides, fungicides and herbicides in commercial farms was found to be **676,366.15** Hectares, **655,911.94** Hectares and **680,602.09** hectares of cropland area, respectively. (For details see Table 3 on appendix and Figure 7).

**Fig7. percentage distribution of chemicals treated crop land area by type of chemicals used for meher season for commercial farm at country level 2020/ 21(2013 E.C).**

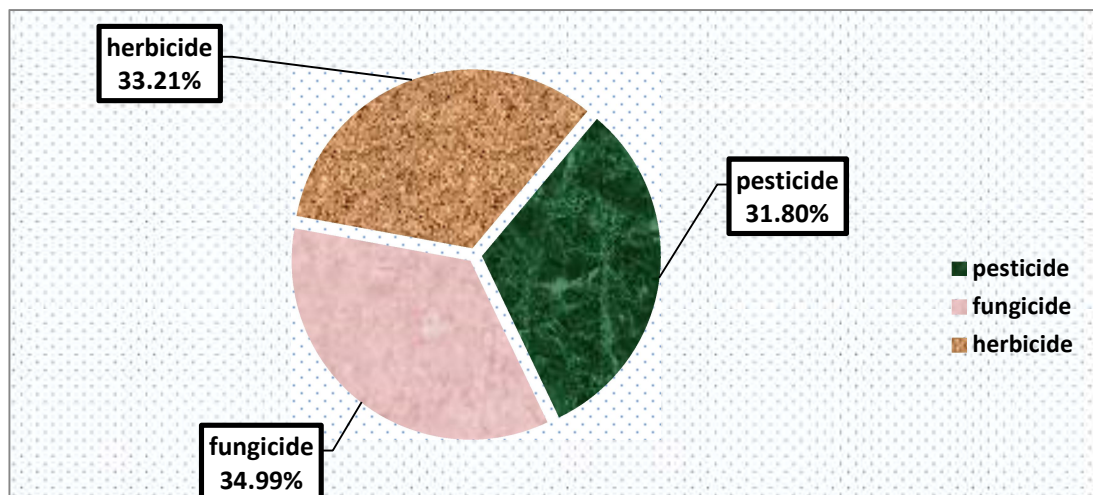


### d) Quantity of Chemicals used

The total quantity of chemicals used during 2020/21(2013 E.C)for commercial farms was found to be **2,143,356.29** Quintals during Meher Season, out of which the share of pesticides and herbicides was **31.80%** and **33.21%** respectively. While the remaining **34.99 %**, share was found to be the contribution of fungicides (For details see Table 3 on appendix and Figure 8).



**Fig8.percentage distribution of Quantity of chemicals applied by type of chemicals used for meher season for commercial farm at country level 2020/21(2013 E.C)**



# **Appendix I: Estimation Procedures**

## **Estimation Procedures of Tables, Ratios and sampling**

### **Error**

#### **Large and medium Scale Commercial Farms**

**2020/21(2013 E.C)**



The following formulas are used for estimation.

**1. Estimating the total (For crop)**

$$\hat{Y}_h = \sum_{i=1}^{n_h} w_{hi} y_{hi}$$

In which

$$w_{hi} = \frac{M_{hi}}{M_h}$$

Is the weight

Where  $h$  = Represents region  $n_h$  = Total

number of farms covered in the region

$M_h$  = Measure of size of  $h^{\text{th}}$  region which is the total area in that region for those selected with less than 1 probability.

$M_{hi}$  = Total area for farm  $i$  in  $h^{\text{th}}$  region

$y_{hi}$  = Total for the variable in  $i^{\text{th}}$  farm  $h^{\text{th}}$  region

**2. Estimation for livestock**

$$\hat{Y}_h = \sum w_{hi} y_{hi}$$

In which  $w_{hi} = \frac{N_{hi}}{N_h}$  Is the weight  $n_h$

Where  $h =$

Represent

s region  $N_h =$  Measure

of size for  $h^{\text{th}}$  region

which is total number

of farms having

livestock in that region

from the frame.

$n_h =$  Total number of farms with livestock covered in that region  $y_{hi}$

$=$  total for the variable in  $i^{\text{th}}$  farm  $h^{\text{th}}$  region

### 3. Estimating sampling variance

Sampling variance & estimate of stratum total are estimated by the

Following formula

$$\text{var}(\hat{Y}_h) = \frac{n_h}{n_h - 1} \sum_{i=1}^{n_h} Y_{hi}^2 - \frac{Y_h^2}{n_h}$$

### 4. Estimating coefficient of variation

Coefficient of variation (CV) of estimate of region total is given by  $CV(\hat{Y}_h) = \frac{\sqrt{\text{var}(\hat{Y}_h)}}{\hat{Y}_h} \times 100\%$

**Appendix II: Questionnaire**

**Large and medium Scale Commercial**

**Farms 2020/21**

**Central Statistical Agency**

**Large and Medium Scale Commercial Farm Sample Survey**

**2020/21(2013 E.C)**

**CENTRAL STATISTICAL AGENCY  
2013 LARG AND MEDIUM COMMERCIAL FARM SURVEY**

Area Identification	Name	Code
Region		
Zone		
woreda		
Kebele		
Farm Name		
CSA Branch Name		
Data collector		
Supervisor		
Statistician		

**Part 1. Area Identification**

1	2	3	4	5	6	7	8
Region	Zone	woreda	Kebele	Farm Name	Farm Type Government = 1 Private = 2 Cooperative = 3 Other = 4	Type of Agriculture Crop = 1 Livestock = 2 1 & 2 = 3	Branch Name

[illegible][illegible]

**Appendix III: Number of planned and covered**

Large and medium Scale Commercial Farms

2020/21

Region	Number of	
	Planned	Covered
<b>Tigray</b>	<b>896</b>	<b>704</b>
<b>Afar</b>	<b>266</b>	<b>121</b>
<b>Amhara</b>	<b>942</b>	<b>661</b>
<b>Oromya</b>	<b>757</b>	<b>615</b>
<b>Somali</b>	<b>153</b>	<b>120</b>
<b>Benishangul -Gumuz</b>	<b>86</b>	<b>65</b>
<b>SNNPR</b>	<b>422</b>	<b>354</b>
<b>Gambella</b>	<b>196</b>	<b>317</b>
<b>Harari</b>	<b>18</b>	<b>10</b>
<b>Dire Dawa</b>	<b>64</b>	<b>40</b>
<b>Sidama</b>	<b>70</b>	<b>48</b>
<b><i>Total</i></b>	<b><i>3870</i></b>	<b><i>3055</i></b>

# **Appendix IV: Statistical Table**

**Statistical Table for  
Large and medium Scale Commercial Farms 2020/21(2013 E.C)**



**Table 1 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2020/21(2013 E.C) and 2019/20(2012E.C)Maher (Main) Season Country (National)**

Crop Types	Cropland area in Hectare			Production in Quintals			Crop Productivity/ Yield (QTS/Ha)		
	2013	2012	% Change	2013	2012	% Change	2013	2012	% Change
Total....	1,045,568.09	1,030,139.23	1.50	87,542,615.76	87,427,437.63	0.13			
Grain crops.	671,093.47	663,698.31	1.11	14,125,163.50	14,137,734.17	(0.09)			
Cereals...	325,924.06	319,116.22	2.13	10,411,293.59	10,416,377.32	(0.05)			
Teff...	7,694.50	7,604.38	1.19	116,641.04	115,859.21	0.67	15.13	15.20	(0.46)
Barley	3,434.04	3,447.84	(0.40)	99,014.42	99,323.19	(0.31)	28.38	28.81	(1.49)
Wheat.	108,666.32	106,031.93	2.48	3,620,415.02	3,525,343.05	2.70	33.31	33.25	0.18
Maize...	94,621.19	93,800.83	0.87	3,702,092.59	3,905,096.96	(5.20)	39.14	41.63	(5.98)
Sorghum...	107,010.28	104,520.00	2.38	2,756,473.06	2,670,944.72	3.20	25.14	25.55	(1.60)
Finger millet...	399.50	771.15	(48.19)	9,806.04	15,180.18	(35.40)	24.55	19.69	24.68
Oats / 'Aja'...	1,255.33	-	-	25,150.20	-	-	20.03	-	-
Rice...	2,842.90	2,940.09	(3.31)	81,701.22	84,630.01	(3.46)	29.05	28.78	0.94
Pulse ...	58,646.66	58,407.66	0.41	1,280,915.36	1,292,679.72	(0.91)			-
Horse / Faba beans...	779.50	622.42	25.24	21,051.30	16,829.07	25.09	27.01	27.04	(0.11)
Field Peas...	125.68	-	-	3,746.50	-	-	29.81	-	-
W/Haricot bean	8,897.83	8,894.26	0.04	227,343.41	227,490.02	(0.06)	25.55	25.58	(0.12)
R/Haricot bean...	4,272.99	4,248.89	0.57	2,323.99	5,110.66	(54.53)	0.54	1.20	(55.00)
B/Haricot bean...	-	-	-	-	-	-	-	-	-
Chick peas...	8,274.35	8,171.79	1.26	133,613.57	132,265.11	1.02	16.14	16.19	(0.31)
Lentils...	1.30	-	-	21.52	-	-	16.55	-	-
Vetch / Grass peas	13.92	12.07	15.33	247.16	214.37	15.30	17.76	17.76	-
Soya beans	24,868.39	25,034.20	(0.66)	624,024.06	626,989.05	(0.47)	25.10	25.05	0.20
Fenugreek...	3.90	-	-	38.80	-	-	9.95	-	-
Mung bean/"Masho"	11,408.79	11,424.02	(0.13)	268,505.06	283,781.44	(5.38)	23.53	24.84	(5.27)
Gibto.	-	-	-	-	-	-	-	-	-
Oilseeds....	286,522.75	286,174.43	0.12	2,432,954.55	2,428,677.13	0.18			-
Niger seed/neug/.....	527.60	619.12	(14.78)	5,352.96	6,234.16	(14.14)	10.15	10.07	0.79
Linseed....	335.34	228.46	46.78	7,407.09	5,049.56	46.69	22.09	22.10	(0.05)
Groundnuts.	1,299.10	810.54	60.28	16,160.24	8,834.40	82.92	12.44	10.90	14.13
Safflower...	334.25	305.46	9.43	7,959.10	7,081.28	12.40	28.17	23.18	21.53
Sesame....	280,330.12	280,321.43	0.00	2,331,185.73	2,333,234.85	(0.09)	7.74	8.32	(6.97)
Rape seed.....	3,696.34	3,889.42	(4.96)	64,889.43	68,242.88	(4.91)	17.56	17.55	0.06
Vegetables...	8,614.15	8,321.64	3.52	880,123.43	848,447.40	3.73			-
Lettuce.....	289.75	344.96	(16.00)	88,699.59	86,916.42	2.05	306.12	251.96	21.50
Head cabbage...	214.97	215.80	(0.38)	53,709.20	53,696.31	0.02	252.42	248.82	1.45
Ethiopian cabbage....	17.39	17.28	0.64	1,493.74	1,482.18	0.78	85.90	85.77	0.15
Tomatoes...	1,684.04	1,469.23	14.62	555,696.46	557,567.51	(0.34)	335.64	379.50	(11.56)
Green peppers.	367.44	271.13	35.52	83,933.27	57,900.22	44.96	209.21	213.55	(2.03)
Red peppers....	6,019.87	5,995.63	0.40	77,996.56	90,839.67	(14.14)	12.96	15.15	(14.46)
Swiss chard.....	10.69	7.61	40.47	10,594.61	45.09	13,259.00	17.25	5.93	10.89
Root crops...	1,601.34	1,509.02	6.12	379,592.34	374,876.37	1.26			-
Beetroot.....	0.43	1.06	(59.43)	17.51	41.44	(57.75)	40.72	39.09	4.17
Carrot.....	0.61	0.29	110.34	115.85	4.32	2,581.71	189.92	14.90	1,174.63
Onion...	1,418.76	1,438.21	(1.35)	355,571.21	358,954.21	(0.94)	235.55	249.58	(5.62)
Potatoes.....	71.60	67.27	6.44	12,101.69	14,538.64	(16.76)	169.02	216.12	(21.79)
Garlic....	81.70	-	-	542.56	-	-	6.64	-	-
Taro Godere'....	-	-	-	-	-	-	-	-	-
Sweet potatoes..	28.24	2.20	1,183.64	11,243.53	1,337.76	740.47	398.14	608.07	(34.52)
Other Temporary crops...	7.43	463.56	(98.40)	175.63	84,919.09	(99.79)			-
Permanent crops.....	364,251.70	356,146.70	2.28	72,157,560.86	71,981,460.60	0.24			-
Fruit crops.....	11,816.90	8,884.49	33.01	1,518,678.58	980,052.41	54.96			-
Avocado....	1,673.56	145.48	1,050.37	138,495.47	11,190.73	1,137.59	83.74	76.92	8.87
Bananas....	3,238.83	2,877.15	12.57	280,139.46	242,675.62	15.44	86.47	84.35	2.51
Guava.....	0.29	-	-	8.50	-	-	29.31	-	-
Lemons.....	129.69	109.92	17.99	10,341.64	7,660.09	35.01	77.86	69.69	11.72
Mangoes....	3,035.48	2,688.21	12.92	295,831.87	240,366.31	23.08	101.25	89.42	13.23
Oranges....	2,450.36	2,481.47	(1.25)	450,219.86	229,521.89	96.16	189.28	92.49	104.65
Papayas...	1,266.00	544.88	132.34	343,297.21	248,032.97	38.41	271.17	455.21	(40.43)
Pineapples.	22.70	37.38	(39.27)	344.57	604.80	(43.03)	15.18	16.18	(6.18)
Cash crops...	352,351.56	347,112.34	1.51	70,638,832.29	70,999,062.09	(0.51)			-
Chat....	16.96	27.17	(37.58)	2,019.49	50,097.08	(95.97)	119.07	1,843.84	(93.54)
Coffee.....	119,238.20	114,063.68	4.54	880,017.32	845,265.06	4.11	7.38	7.41	(0.40)
Tea.....	7,070.49	7,070.52	(0.00)	759,481.48	759,460.42	0.00	107.42	107.41	0.01
Hops / 'Geshe' ...	1.12	1.12	-	8.50	10.20	(16.67)	7.59	9.11	(16.68)
Enset....	-	-	-	-	-	-	-	-	-
Sugar cane.....	53,003.23	52,977.47	0.05	65,613,757.17	65,959,114.70	(0.52)	1,237.92	1,245.04	(0.57)
Cotton...	173,021.57	172,972.38	0.03	3,383,548.32	3,385,114.63	(0.05)	20.69	19.57	5.72
Other Permanent crops...	83.24	149.87	(44.46)	49.99	2,346.10	(97.87)	0.15	15.65	(99.04)

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2013 E.C .(2020/21)National

	Hectares	Quintals	QT/HA
Total	1,045,568.09	87,542,615.76	
Grains	671,093.47	14,125,163.50	
Cereals	325,924.06	10,411,293.59	
Teff	7,694.50	116,641.04	15.13
Barley	3,434.04	99,014.42	28.38
Wheat	108,666.32	3,620,415.02	33.31
Maize	94,621.19	3,702,092.59	39.14
Sorghum	107,010.28	2,756,473.06	25.14
Finger millet	399.50	9,806.04	24.55
Oats/'Aja'/	1,255.33	25,150.20	20.03
Rice	2,842.90	81,701.22	29.05
Pulse	58,646.66	1,280,915.36	
Horse/Faba beans	779.50	21,051.30	27.01
Field peas	125.68	3,746.50	29.81
W/Haricot bean	8,897.83	227,343.41	25.55
R/Haricot bean	4,272.99	2,323.99	0.54
B/Haricot bean	-	-	-
Chick peas	8,274.35	133,613.57	16.14
Lentiles	1.30	21.52	16.55
Vetch/Grass peas	13.92	247.16	17.76
Soya beans	24,868.39	624,024.06	25.10
Fenugreek	3.90	38.80	9.95
Mung bean/'Masho''	11,408.79	268,505.06	23.53
Gibto	-	-	-
Oile seeds	286,522.75	2,432,954.55	
Nueg	527.60	5,352.96	10.15
Linseed	335.34	7,407.09	22.09
Ground nuts	1,299.10	16,160.24	12.44
Safflower	334.25	7,959.10	28.17
Sesame	280,330.12	2,331,185.73	7.74
Rapeseed	3,696.34	64,889.43	17.56
Vegetables	8,614.15	880,123.43	
Lettuce	289.75	88,699.59	306.12
Head Cabbage	214.97	53,709.20	252.42
Ethiopian Cabbage	17.39	1,493.74	85.90
Tomatoes	1,684.04	555,696.46	335.64
Green peppers	367.44	83,933.27	209.21
Red papers	6,019.87	77,996.56	12.96
Swiss chard	20.69	18,594.61	1,365.76
Root crops	1,601.34	379,592.34	
Beet root	0.43	17.51	40.72
Carrot	0.61	115.85	189.92
Onion	1,418.76	355,571.21	235.55
Potatoes	71.60	12,101.69	169.02
Garlic	81.70	542.56	6.64
Taro/'Godere'/	-	-	-
Sweet potatoes	28.24	11,243.53	398.14
Other Temporary	7.43	175.63	
Permanent crops	364,251.70	72,157,560.86	
Fruit crops	11,816.90	1,518,678.58	
Avocado	1,673.56	138,495.47	83.74
Bananas	3,238.83	280,139.46	86.47
Guava/'Zeytun'/	0.29	8.50	29.31
Lemons	129.69	10,341.64	77.86
Mangos	3,035.48	295,831.87	101.25
Oranges	2,450.36	450,219.86	189.28
Papayas	1,266.00	343,297.21	271.17
Pineapples	22.70	344.57	15.18
Cash crpops	352,351.56	70,638,832.29	
Chat	16.96	2,019.49	119.07
Coffee	119,238.20	880,017.32	7.38
Tea	7,070.49	759,481.48	107.42
Hopes/'Gesho'/	1.12	8.50	7.59
Enset	-	-	-
Sugar cane	53,003.23	65,613,757.17	1,237.92
Cotton	173,021.57	3,383,548.32	20.69
Other permanent crops	83.24	49.99	0.15

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2013 E.C. (2020/21)Afar			
	Area	Production	Yield
	Hectares	Quintals	QT/HA
Total	71,062.42	2,033,689.25	
Grains	4,405.70	142,810.64	
Cereals	3,988.74	139,391.37	
Teff	-	-	-
Barley	-	-	-
Wheat	2,422.88	72,988.09	30.12
Maize	1,565.86	66,403.28	42.41
Sorghum	-	-	-
Finger millet	-	-	-
Oats/'Aja'/	-	-	-
Rice	-	-	-
Pulse	-	-	-
Horse/Faba beans	-	-	-
Field peas	-	-	-
W/Haricot bean	-	-	-
R/Haricot bean	-	-	-
B/Haricot bean	-	-	-
Chick peas	-	-	-
Lentiles	-	-	-
Vetch/Grass peas	-	-	-
Soya beans	-	-	-
Fenugreek	-	-	-
Mung bean/'Masho''	-	-	-
Gibto	-	-	-
Oile seeds	416.96	3,419.27	
Nueg	-	-	-
Linseed	-	-	-
Ground nuts	-	-	-
Safflower	-	-	-
Sesame	416.96	3,419.27	8.20
Rapeseed	-	-	-
Vegetables	-	-	-
Lettuce	-	-	-
Head Cabbage	-	-	-
Ethiopian Cabbage	-	-	-
Tomatoes	-	-	-
Green peppers	-	-	-
Red papers	-	-	-
Swiss chard	-	-	-
Root crops	-	-	-
Beet root	-	-	-
Carrot	-	-	-
Onion	-	-	-
Potatoes	-	-	-
Garlic	-	-	-
Taro/'Godere'/	-	-	-
Sweet potatoes	-	-	-
Other Temporary	-	-	-
Permanent crops	66,656.72	1,890,878.61	
Fruit crops	188.03	7,385.83	
Avocado	-	-	-
Bananas	-	-	-
Guava/'Zeytun'/	-	-	-
Lemons	-	-	-
Mangos	152.93	4,095.83	26.78
Oranges	35.10	3,290.00	93.73
Papayas	-	-	-
Pineapples	-	-	-
Cash crpops	66,468.69	1,883,492.78	
Chat	-	-	-
Coffee	-	-	-
Tea	-	-	-
Hopes/'Geshe'/	-	-	-
Enset	-	-	-
Sugar cane	9,502.75	371,985.54	39.15
Cotton	56,965.94	1,511,507.24	26.53
Other permanent crops	-	-	-

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2013 E.C. (2020/21)Amhara			
	Area	Production	Yield
	Hectares	Quintals	QT/HA
<b>Total</b>	193,331.92	2,874,449.78	
<b>Grains</b>	177,448.78	2,463,292.42	
<b>Cereals</b>	57,220.92	1,490,813.57	
Teff	3,204.36	49,456.07	15.43
Barley	589.87	20,687.46	35.07
Wheat	3,641.28	55,807.85	15.33
Maize	15,748.46	542,406.39	34.44
Sorghum	33,883.39	819,664.30	24.19
Finger millet	124.94	2,146.25	17.18
Oats/'Aja' /	-	-	-
Rice	28.61	645.24	22.55
Pulse	17,225.77	243,236.51	
Horse/Faba beans	2.43	19.10	7.86
Field peas	-	-	-
W/Haricot bean	2,446.52	4,563.28	1.87
R/Haricot bean	2,664.36	80.55	0.03
B/Haricot bean	-	-	-
Chick peas	4,947.98	87,590.02	17.70
Lentiles	-	-	-
Vetch/Grass peas	-	-	-
Soya beans	7,071.52	150,982.36	21.35
Fenugreek	-	-	-
Mung bean/"Masho"	92.96	1.20	0.01
Gibto	-	-	-
Oile seeds	103,002.09	729,242.34	
Nueg	32.32	291.53	9.02
Linseed	43.51	930.91	21.40
Ground nuts	45.10	896.24	19.87
Safflower	64.08	1,146.59	17.89
Sesame	102,817.09	725,977.07	7.06
Rapeseed	-	-	-
Vegetables	756.71	84,233.61	
Lettuce	-	-	-
Head Cabbage	5.29	551.71	104.29
Ethiopian Cabbage	0.13	12.55	96.54
Tomatoes	50.38	13,416.53	266.31
Green peppers	14.62	1,674.71	114.55
Red papers	686.29	68,578.12	99.93
Swiss chard	-	-	-
Root crops	132.88	29,130.35	
Beet root	0.43	17.51	40.72
Carrot	0.11	6.00	54.55
Onion	102.40	22,739.05	222.06
Potatoes	29.94	6,367.79	212.69
Garlic	-	-	-
Taro/'Godere' /	-	-	-
Sweet potatoes	-	-	-
Other Temporary	-	-	
Permanent crops	14,993.55	297,793.40	
<b>Fruit crops</b>	1,084.51	130,222.50	
Avocado	5.07	255.09	50.31
Bananas	396.76	43,218.27	108.93
Guava/'Zeytun' /	0.29	8.50	29.31
Lemons	2.67	607.53	227.54
Mangos	542.90	52,088.50	95.94
Oranges	79.17	12,154.56	153.52
Papayas	57.66	21,890.07	379.64
Pineapples	-	-	-
Cash crops	13,908.29	167,570.89	
Chat	-	-	-
Coffee	909.31	9,082.85	9.99
Tea	-	-	-
Hopes/'Geshe' /	1.12	8.50	7.59
Enset	-	-	-
Sugar cane	15.56	19,092.35	1,227.01
Cotton	12,982.30	139,387.20	10.74
Other permanent crops	0.75	0.01	0.01

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2013 E.C. (2020/21) Oromia			
	Area	Production	Yield
	Hectares	Quintals	QT/HA
<b>Total</b>	282,339.83	72,679,188.85	
<b>Grains</b>	176,686.35	5,442,283.41	
<b>Cereals</b>	150,980.12	5,094,268.26	
Teff	1,377.58	25,998.02	18.87
Barley	1,651.43	42,587.35	25.79
Wheat	96,379.09	3,129,746.45	32.47
Maize	38,863.46	1,384,728.65	35.63
Sorghum	10,686.77	456,973.51	42.76
Finger millet	274.56	7,659.79	27.90
Oats/'Aja'/	1,255.33	25,150.20	20.03
Rice	491.90	21,424.29	43.55
Pulse	11,399.58	188,649.34	
Horse/Faba beans	774.71	20,984.26	27.09
Field peas	25.25	358.67	14.20
W/Haricot bean	2,499.98	3,100.91	1.24
R/Haricot bean	1,082.20	259.90	0.24
B/Haricot bean	-	-	-
Chick peas	460.84	9,258.86	20.09
Lentiles	1.30	21.52	16.55
Vetch/Grass peas	13.92	247.16	17.76
Soya beans	6,513.36	154,319.92	23.69
Fenugreek	3.90	38.80	9.95
Mung bean/'Masho"	24.13	59.34	2.46
Gibto	-	-	-
Oile seeds	14,306.65	159,365.81	
Nueg	375.47	4,162.67	11.09
Linseed	291.83	6,476.18	22.19
Ground nuts	964.97	13,853.01	14.36
Safflower	-	-	-
Sesame	8,978.04	69,984.53	7.80
Rapeseed	3,696.34	64,889.43	17.56
Vegetables	5,550.46	623,769.47	
Lettuce	284.96	83,894.98	294.41
Head Cabbage	13.07	4,680.84	358.14
Ethiopian Cabbage	3.07	763.85	248.81
Tomatoes	1,292.08	511,801.15	396.11
Green peppers	112.75	19,108.12	169.47
Red papers	3,844.04	3,496.19	0.91
Swiss chard	0.50	24.34	48.68
Root crops	365.37	75,164.08	
Beet root	-	-	-
Carrot	0.50	109.85	219.70
Onion	261.67	69,787.77	266.70
Potatoes	21.51	4,723.90	219.61
Garlic	81.70	542.56	6.64
Taro/'Godere'/	-	-	-
Sweet potatoes	-	-	-
Other Temporary	6.09	85.63	
Permanent crops	99,731.56	66,537,886.26	
Fruit crops	5,720.13	663,051.09	
Avocado	1,509.96	125,766.17	83.29
Bananas	103.74	9,784.89	94.32
Guava/'Zeytun'/	-	-	-
Lemons	18.62	594.23	31.91
Mangos	1,706.90	133,686.06	78.32
Oranges	1,925.56	174,486.06	90.62
Papayas	455.34	218,733.67	480.37
Pineapples	-	-	-
Cash crops	94,011.37	65,874,830.88	
Chat	9.93	873.53	87.97
Coffee	47,302.15	400,663.18	8.47
Tea	1,500.18	225,896.31	150.58
Hopes/'Gesho'/	-	-	-
Enset	-	-	-
Sugar cane	43,484.92	65,222,679.28	1,499.89
Cotton	1,714.19	24,718.58	14.42
Other permanent crops	0.06	4.29	71.50

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2013 E.C . (2020/21)Somalia			
	Area	Production	Yield
	Hectares	Quintals	QT/HA
<b>Total</b>	2,983.33	311,481.23	
<b>Grains</b>	1,173.75	30,537.70	
<b>Cereals</b>	810.43	23,931.83	
<b>Teff</b>	88.86	710.40	7.99
<b>Barley</b>	-	-	-
<b>Wheat</b>	631.14	19,116.14	30.29
<b>Maize</b>	90.43	4,105.29	45.40
<b>Sorghum</b>	-	-	-
<b>Finger millet</b>	-	-	-
<b>Oats/'Aja' /</b>	-	-	-
<b>Rice</b>	-	-	-
<b>Pulse</b>	-	-	-
<b>Horse/Faba beans</b>	-	-	-
<b>Field peas</b>	-	-	-
<b>W/Haricot bean</b>	-	-	-
<b>R/Haricot bean</b>	-	-	-
<b>B/Haricot bean</b>	-	-	-
<b>Chick peas</b>	-	-	-
<b>Lentiles</b>	-	-	-
<b>Vetch/ Grass peas</b>	-	-	-
<b>Soya beans</b>	-	-	-
<b>Fenugreek</b>	-	-	-
<b>Mung bean/"Masho"</b>	-	-	-
<b>Gibto</b>	-	-	-
<b>Oile seeds</b>	363.32	6,605.87	
<b>Nueg</b>	-	-	-
<b>Linseed</b>	-	-	-
<b>Ground nuts</b>	82.80	1,220.00	14.73
<b>Safflower</b>	-	-	-
<b>Sesame</b>	280.52	5,385.87	19.20
<b>Rapeseed</b>	-	-	-
<b>Vegetables</b>	22.77	2,859.79	
<b>Lettuce</b>	-	-	-
<b>Head Cabbage</b>	-	-	-
<b>Ethiopian Cabbage</b>	-	-	-
<b>Tomatoes</b>	22.01	2,799.43	127.19
<b>Green peppers</b>	0.76	60.36	79.42
<b>Red papers</b>	-	-	-
<b>Swiss chard</b>	-	-	-
<b>Root crops</b>	641.13	146,102.02	
<b>Beet root</b>	-	-	-
<b>Carrot</b>	-	-	-
<b>Onion</b>	641.13	146,102.02	227.88
<b>Potatoes</b>	-	-	-
<b>Garlic</b>	-	-	-
<b>Taro/'Godere' /</b>	-	-	-
<b>Sweet potatoes</b>	-	-	-
<b>Other Temporary</b>	-	-	-
<b>Permanent crops</b>	1,145.68	131,981.72	
<b>Fruit crops</b>	1,035.69	131,092.55	
<b>Avocado</b>	-	-	-
<b>Bananas</b>	0.43	33.06	76.88
<b>Guava/'Zeytun' /</b>	-	-	-
<b>Lemons</b>	100.31	8,281.87	82.56
<b>Mangos</b>	281.03	61,570.48	219.09
<b>Oranges</b>	138.24	12,918.87	93.45
<b>Papayas</b>	515.68	48,288.26	93.64
<b>Pineapples</b>	-	-	-
<b>Cash crpops</b>	52.00	884.00	
<b>Chat</b>	-	-	-
<b>Coffee</b>	-	-	-
<b>Tea</b>	-	-	-
<b>Hopes/'Gesho' /</b>	-	-	-
<b>Enset</b>	-	-	-
<b>Sugar cane</b>	-	-	-
<b>Cotton</b>	52.00	884.00	17.00
<b>Other permanent crops</b>	57.99	5.17	0.09

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2013 E.C . (2020/21) Benishangul G.			
	Area	Production	Yield
	Hectares	Quintals	QT/HA
<b>Total</b>	74,028.51	1,483,324.48	
<b>Grains</b>	54,456.48	1,088,210.10	
<b>Cereals</b>	21,449.30	555,720.79	
Teff	-	-	-
Barley	-	-	-
Wheat	-	-	-
Maize	8,761.51	438,903.97	50.09
Sorghum	12,687.79	116,816.82	9.21
Finger millet	-	-	-
Oats/'Aja' /	-	-	-
Rice	-	-	-
Pulse	11,578.40	310,887.21	
Horse/Faba beans	-	-	-
Field peas	-	-	-
W/Haricot bean	3.90	1.95	0.50
R/Haricot bean	100.74	608.40	6.04
B/Haricot bean	-	-	-
Chick peas	-	-	-
Lentiles	-	-	-
Vetch/Grass peas	-	-	-
Soya beans	11,144.21	309,633.36	27.78
Fenugreek	-	-	-
Mung bean/"Masho"	329.55	643.50	1.95
Gibto	-	-	-
Oile seeds	21,428.78	221,602.10	
Nueg	108.85	857.10	7.87
Linseed	-	-	-
Ground nuts	201.83	50.54	0.25
Safflower	-	-	-
Sesame	21,118.11	220,694.45	10.45
Rapeseed	-	-	-
Vegetables	662.10	4,470.14	
Lettuce	-	-	-
Head Cabbage	-	-	-
Ethiopian Cabbage	-	-	-
Tomatoes	-	-	-
Green peppers	-	-	-
Red papers	662.10	4,470.14	6.75
Swiss chard	-	-	-
Root crops	-	-	-
Beet root	-	-	-
Carrot	-	-	-
Onion	-	-	-
Potatoes	-	-	-
Garlic	-	-	-
Taro/'Godere' /	-	-	-
Sweet potatoes	-	-	-
Other Temporary	-	-	-
Permanent crops	18,909.93	390,644.24	
<b>Fruit crops</b>	14.51	601.61	
Avocado	-	-	-
Bananas	12.40	464.22	37.44
Guava/'Zeytun' /	-	-	-
Lemons	-	-	-
Mangos	2.11	137.40	65.12
Oranges	-	-	-
Papayas	-	-	-
Pineapples	-	-	-
<b>Cash crops</b>	18,895.42	390,042.63	
Chat	3.20	42.63	13.32
Coffee	-	-	-
Tea	-	-	-
Hopes/'Gesho' /	-	-	-
Enset	-	-	-
Sugar cane	-	-	-
Cotton	18,892.22	390,000.00	20.64
Other permanent crops	-	-	-

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2013 E.C . (2020/21)SNNP			
	Area	Production	Yield
	Hectares	Quintals	QT/HA
<b>Total</b>	145,017.07	3,746,178.23	
<b>Grains</b>	47,699.76	1,904,261.04	
<b>Cereals</b>	38,395.13	1,598,595.32	
Teff	2,753.35	36,177.84	13.14
Barley	167.04	5,072.09	30.36
Wheat	5,529.73	339,631.26	61.42
Maize	27,123.06	1,149,861.35	42.39
Sorghum	1,415.35	33,196.90	23.45
Finger millet	-	-	-
Oats/'Aja'/'	-	-	-
Rice	1,406.61	34,655.89	24.64
Pulse	7,819.18	293,460.90	
Horse/Faba beans	2.36	47.94	20.31
Field peas	100.43	3,387.83	33.73
W/Haricot bean	3,947.43	219,677.27	55.65
R/Haricot bean	410.72	1,210.00	2.95
B/Haricot bean	-	-	-
Chick peas	2,823.14	35,995.85	12.75
Lentiles	-	-	-
Vetch/Grass peas	-	-	-
Soya beans	127.11	9,012.78	70.91
Fenugreek	-	-	-
Mung bean/"Masho"	407.99	24,129.24	59.14
Gibto	-	-	-
Oile seeds	1,485.45	12,204.82	
Nueg	5.76	11.53	2.00
Linseed	-	-	-
Ground nuts	4.40	140.45	31.92
Safflower	95.25	3,509.91	36.85
Sesame	1,380.04	8,542.93	6.19
Rapeseed	-	-	-
Vegetables	1,324.56	82,805.41	
Lettuce	0.20	4.61	23.05
Head Cabbage	194.13	48,404.68	249.34
Ethiopian Cabbage	14.19	717.34	50.55
Tomatoes	215.63	6,598.62	30.60
Green peppers	89.78	25,772.06	287.06
Red papers	810.63	1,308.11	1.61
Swiss chard	-	-	-
Root crops	215.06	53,916.37	
Beet root	-	-	-
Carrot	-	-	-
Onion	201.55	45,699.84	226.74
Potatoes	-	-	-
Garlic	-	-	-
Taro/'Godere'/'	-	-	-
Sweet potatoes	13.51	8,216.53	608.18
Other Temporary	-	-	-
Permanent crops	95,777.69	1,705,195.41	
<b>Fruit crops</b>	3,014.39	285,928.69	
Avocado	104.88	9,531.97	90.88
Bananas	2,654.99	220,654.32	83.11
Guava/'Zeytun'/'	-	-	-
Lemons	-	-	-
Mangos	88.87	23,026.00	259.10
Oranges	20.98	3,258.76	155.33
Papayas	125.98	29,155.07	231.43
Pineapples	18.70	302.57	16.18
Cash crpops	92,748.75	1,419,265.69	
Chat	0.25	953.34	3,813.36
Coffee	64,584.81	427,564.28	6.62
Tea	5,570.31	533,585.17	95.79
Hopes/'Gesho'/'	-	-	-
Enset	-	-	-
Sugar cane	-	-	-
Cotton	22,593.37	457,162.90	20.23
Other permanent crops	14.55	1.03	0.07



Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2013 E.C . (2020/21)Gambela			
	Area	Production	Yield
	Hectares	Quintals	QT/ HA
<b>Total</b>	72,315.85	1,403,601.04	
<b>Grains</b>	18,731.40	547,089.72	
<b>Cereals</b>	7,445.54	285,288.60	
Teff	-	-	-
Barley	-	-	-
Wheat	-	-	-
Maize	2,064.36	98,866.40	47.89
Sorghum	4,498.34	161,504.95	35.90
Finger millet	-	-	-
Oats/'Aja' /	-	-	-
Rice	882.83	24,917.25	28.22
Pulse	10,554.16	243,671.78	
Horse/Faba beans	-	-	-
Field peas	-	-	-
W/Haricot bean	-	-	-
R/Haricot bean	-	-	-
B/Haricot bean	-	-	-
Chick peas	-	-	-
Lentiles	-	-	-
Vetch/ Grass peas	-	-	-
Soya beans	-	-	-
Fenugreek	-	-	-
Mung bean/"Masho"	10,554.16	243,671.78	23.09
Gibto	-	-	-
Oile seeds	731.70	18,129.34	
Nueg	5.20	30.13	5.79
Linseed	-	-	-
Ground nuts	-	-	-
Safflower	65.12	1,665.36	25.57
Sesame	661.38	16,433.86	24.85
Rapeseed	-	-	-
Vegetables	16.80	144.00	
Lettuce	-	-	-
Head Cabbage	-	-	-
Ethiopian Cabbage	-	-	-
Tomatoes	-	-	-
Green peppers	-	-	-
Red papers	16.80	144.00	8.57
Swiss chard	-	-	-
Root crops	2.14	494.54	
Beet root	-	-	-
Carrot	-	-	-
Onion	2.14	494.54	231.09
Potatoes	-	-	-
Garlic	-	-	-
Taro/'Godere' /	-	-	-
Sweet potatoes	-	-	-
Other Temporary	-	-	-
Permanent crops	53,565.51	855,872.78	
Fruit crops	118.86	22,344.25	
Avocado	-	-	-
Bananas	1.58	146.26	92.57
Guava/'Zeytun' /	-	-	-
Lemons	-	-	-
Mangos	54.30	10,920.82	201.12
Oranges	32.58	4,734.96	145.33
Papayas	30.40	6,542.21	215.20
Pineapples	-	-	-
Cash crpops	53,446.42	833,528.08	
Chat	-	-	-
Coffee	6,439.61	42,691.68	6.63
Tea	-	-	-
Hopes/'Geshe' /	-	-	-
Enset	-	-	-
Sugar cane	-	-	-
Cotton	47,006.82	790,836.40	16.82
Other permanent crops	0.23	0.45	1.96

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2013 E.C. (2020/21)Direadawa			
	Area	Production	Yield
	Hectares	Quintals	QT/HA
<b>Total</b>	126.18	235,386.07	
<b>Grains</b>	-	-	
<b>Cereals</b>	-	-	
Teff	-	-	-
Barley	-	-	-
Wheat	-	-	-
Maize	-	-	-
Sorghum	-	-	-
Finger millet	-	-	-
Oats/'Aja'/	-	-	-
Rice	-	-	-
Pulse	-	-	-
Horse/Faba beans	-	-	-
Field peas	-	-	-
W/Haricot bean	-	-	-
R/Haricot bean	-	-	-
B/Haricot bean	-	-	-
Chick peas	-	-	-
Lentiles	-	-	-
Vetch/Grass peas	-	-	-
Soya beans	-	-	-
Fenugreek	-	-	-
Mung bean/"Masho"	-	-	-
Gibto	-	-	-
Oile seeds	-	-	-
Nueg	-	-	-
Linseed	-	-	-
Ground nuts	-	-	-
Safflower	-	-	-
Sesame	-	-	-
Rapeseed	-	-	-
<b>Vegetables</b>	-	-	
Lettuce	-	-	-
Head Cabbage	-	-	-
Ethiopian Cabbage	-	-	-
Tomatoes	-	-	-
Green peppers	-	-	-
Red papers	-	-	-
Swiss chard	-	-	-
<b>Root crops</b>	-	-	
Beet root	-	-	-
Carrot	-	-	-
Onion	-	-	-
Potatoes	-	-	-
Garlic	-	-	-
Taro/'Godere'/	-	-	-
Sweet potatoes	-	-	-
<b>Other Temporary</b>	-	-	
<b>Permanent crops</b>	126.18	235,386.07	
<b>Fruit crops</b>	126.18	235,386.07	
Avocado	-	-	-
Bananas	-	-	-
Guava/'Zeytun'/	-	-	-
Lemons	0.20	0.04	0.20
Mangos	-	-	-
Oranges	125.82	235,386.00	180.82
Papayas	0.16	0.03	0.19
Pineapples	-	-	-
Cash crops	-	-	-
Chat	-	-	-
Coffee	-	-	-
Tea	-	-	-
Hopes/'Gesho'/	-	-	-
Enset	-	-	-
Sugar cane	-	-	-

Cotton	-	-	-
Other permanent crops	-	-	-

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2013 E.C. (2020/21) Tigray

	Area	Production	Yield
	Hectares	Quintals	QT/HA
<b>Total</b>	<b>203,783.04</b>	<b>2,702,406.55</b>	
<b>Grains</b>	<b>190,162.03</b>	<b>2,491,742.57</b>	
<b>Cereals</b>	<b>45,319.64</b>	<b>1,208,513.11</b>	
Teff	266.27	4,243.66	15.94
Barley	1,025.70	30,667.52	29.9
Wheat	44.44	1,960.98	44.13
Maize	111.65	3,265.81	29.25
Sorghum	43,838.64	1,168,316.58	26.65
Finger millet	-	-	-
Oats/'Aja'/	-	-	-
Rice	32.94	58.56	1.78
Pulse	54.6	844.47	
Horse/Faba beans	-	-	-
Field peas	-	-	-
W/Haricot bean	-	-	-
R/Haricot bean	-	-	-
B/Haricot bean	-	-	-
Chick peas	42.4	768.83	18.13
Lentiles	-	-	-
Vetch/Grass peas	-	-	-
Soya beans	12.2	75.64	6.2
Fenugreek	-	-	-
Mung bean/'Masho'	-	-	-
Gibto	-	-	-
Oile seeds	144,787.79	1,282,384.99	
Nueg	-	-	-
Linseed	-	-	-
Ground nuts	-	-	-
Safflower	109.8	1,637.24	14.91
Sesame	144,677.99	1,280,747.75	8.85
Rapeseed	-	-	-
Vegetables	243.41	53,121.91	
Lettuce	-	-	-
Head Cabbage	2.48	71.98	29.02
Ethiopian Cabbage	-	-	-
Tomatoes	89.95	20,652.48	229.6
Green peppers	143.88	32,275.83	224.32
Red papers	-	-	-
Swiss chard	7.09	121.62	17.15
Root crops	207.89	70,347.98	
Beet root	-	-	-
Carrot	-	-	-
Onion	207.89	70,347.98	338.39
Potatoes	-	-	-
Garlic	-	-	-
Taro/'Godere'/	-	-	-
Sweet potatoes	-	-	-
Other Temporary	-	-	
Permanent crops	13,169.71	87,194.09	
<b>Fruit crops</b>	<b>345.33</b>	<b>18,012.77</b>	
Avocado	39.65	1,671.40	42.15
Bananas	4.27	458.72	107.43
Guava/'Zeytun'/	-	-	-
Lemons	7.89	857.97	108.74
Mangos	200.6	8,788.58	43.81
Oranges	92.9	6,236.10	67.13
Papayas	0.02	-	-
Pineapples	-	-	-
<b>Cash crops</b>	<b>12,814.72</b>	<b>69,052.00</b>	
Chat	-	-	-
Coffee	-	-	-
Tea	-	-	-
Hopes/'Geshe'/	-	-	-

Enset	-	-	-
Sugar cane	-	-	-
Cotton	12,814.72	69,052.00	5.39
Other permanent crops	9.66	129.32	13.39

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2013 E.C.(2020/21) Sidama			
Total	579.92	70460.18	
Grains	329.22	14935.9	
Cereals	314.25	14770.75	
Teff	4.07	55.05	13.53
Barley	-	-	-
Wheat	17.76	1164.25	65.55
Maize	292.41	13551.45	46.34
Sorghum	-	-	-
Finger millet	-	-	-
Oats/'Aja'/	-	-	-
Rice	-	-	-
Pulse	14.97	165.15	
Horse/Faba beans	-	-	-
Field peas	-	-	-
W/Haricot bean	-	-	-
R/Haricot bean	14.97	165.15	11.03
B/Haricot bean	-	-	-
Chick peas	-	-	-
Lentiles	-	-	-
Vetch/Grass peas	-	-	-
Soya beans	-	-	-
Fenugreek	-	-	-
Mung bean/"Masho"	-	-	-
Gibto	-	-	-
Oile seeds	-	-	-
Nueg	-	-	-
Linseed	-	-	-
Ground nuts	-	-	-
Safflower	-	-	-
Sesame	-	-	-
Rapeseed	-	-	-
Vegetables	37.33	23933.26	
Lettuce	4.59	4800	1045.75
Head Cabbage	-	-	-
Ethiopian Cabbage	-	-	-
Tomatoes	13.99	428.26	30.61
Green peppers	5.65	155	27.43
Red papers	-	-	-
Swiss chard	13.1	18550	1416.03
Root crops	36.86	4437	
Beet root	-	-	-
Carrot	-	-	-
Onion	1.97	400	203.05
Potatoes	20.16	1010	50.1
Garlic	-	-	-
Taro/'Godere'/	-	-	-
Sweet potatoes	14.73	3027	205.5
Other Temporary	1.34	90	
Permanent crops	175.17	27064.02	
Fruit crops	169.27	26898.68	
Avocado	14	1270.85	90.78
Bananas	64.66	5379.72	83.2
Guava/'Zeytun'/	-	-	-
Lemons	-	-	-
Mangos	5.86	1518.21	259.08
Oranges	-	-	-
Papayas	80.75	18687.9	231.43
Pineapples	4	42	10.5
Cash crpops	5.9	165.34	
Chat	3.58	150	41.9
Coffee	2.32	15.34	6.61
Tea	-	-	-
Hopes/'Gesho'/	-	-	-
Enset	-	-	-
Sugar cane	-	-	-
Cotton	-	-	-
Other permanent crops	-	-	-

	Urea		NPS		Improved Seed		Indigenous Seed	
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	531,534.86	525,598.99	858,179.96	930,065.95	507,233.54	512,729.54	588,381.84	590,235.84
Grains	391,298.30	302,536.64	793,720.11	826,130.72	239,341.57	379,798.29	452,650.27	560,851.68
Cereals	337,158.96	289,363.80	592,912.14	708,251.58	208,336.28	358,092.75	119,561.30	341,229.25
Teff	23,174.51	14,490.15	75,599.52	596,887.17	4,903.77	14,846.48	2,815.20	30,362.96
Barley	3,452.87	358.99	12,513.60	3,329.32	3,062.38	13,978.09	371.66	10,535.23
Wheat	81,716.31	96,132.21	54,058.20	41,555.29	96,163.81	195,898.97	12,542.76	210,529.22
Maize	200,727.64	171,732.43	390,438.23	62,857.37	89,193.45	121,399.11	5,773.51	56,253.13
Sorghum	22,551.37	6,003.60	58,586.39	3,093.08	13,296.00	5,618.36	4,093.08	25,194.71
Finger millet	1,884.92	293.80	1,424.60	277.86	342.01	951.62	57.49	987.06
Oats/'Aja'/	1,882.99	92.23	-	-	-	-	1,255.33	214.55
Rice	1,768.36	260.40	291.60	251.49	1,374.86	5,400.12	1,468.04	7,152.39
Pulse	3,777.35	1,128.11	41,218.23	107,302.27	17,809.87	-	52,660.88	147,535.71
Horse/Faba beans	115.14	11.71	5,010.21	886.89	747.03	2,728.15	32.54	165.96
Field peas	34.21	3.12	22.50	1.52	3.00	0.10	122.68	227.72
W/Haricot bean	740.06	83.82	6,838.20	85,164.79	2,353.79	2,537.88	6,544.04	2,745.26
R/Haricot bean	747.32	251.41	6,443.98	1,257.68	2,951.44	310.45	1,321.55	2,890.24
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	9.79	12.90	984.39	12,269.91	6,675.40	362.68	1,599.51	54.74
Lentiles	26.22	1.06	-	-	17.48	0.64	1.30	-
Vetch/Grass peas	2.82	3.12	-	-	-	-	13.92	10.99
Soya beans	1,518.76	617.18	19,401.57	5,634.66	1,989.45	1,877.38	22,878.94	52,316.75
Fenugreek	3.60	0.30	-	-	-	-	3.90	43.94
Mung beans/'Masho'/'Gibto	579.45	143.47	2,517.39	2,086.83	3,072.28	-	20,142.50	89,080.11
Oile seeds	50,361.99	12,044.73	159,589.74	10,576.87	13,195.42	11,706.29	280,428.09	72,086.72
Nueg	8.66	0.83	-	-	3.07	-	530.42	21.09
Linseed	-	-	690.75	139.53	208.37	90.00	126.97	1,195.03
Ground nuts	21.65	2.05	14.63	2.96	65.96	-	1,233.14	352.65
Safflower	1,535.10	77.66	15,056.48	3,321.49	47.78	839.82	286.46	626.49
Sesame	48,796.59	11,964.19	117,812.18	252.33	10,900.67	6,602.91	276,524.33	59,783.33
Rapeseed	-	-	26,015.71	6,860.57	1,969.57	4,173.56	1,726.77	10,108.13
Vegetables	14,849.62	28,445.71	10,276.65	53,758.44	5,318.81	42,512.49	5,486.63	1,995.94
Lettuce	13.07	0.91	-	-	289.75	4.97	-	-
Head Cabbage	992.53	5,495.40	1,979.25	410.40	213.97	12,843.87	1.00	29.33
Ethiopian Cabbage	1.50	1.80	-	-	14.62	0.08	2.77	14.65
Tomatoes	8,164.20	15,336.24	2,019.52	214.78	2,362.84	16,271.37	20.00	66.31
Green peppers	4,034.53	7,144.59	6,128.99	49,821.36	350.44	12,344.69	37.88	161.18
Red papers	1,627.66	464.81	148.60	3,308.87	2,066.42	1,039.36	5,424.97	1,724.48
Swiss chard	16.13	1.97	0.30	3.03	20.76	8.15	-	-
Root crops	14,006.59	10,346.40	10,471.21	2,882.01	1,289.30	84,611.42	315.48	22,866.21
Beet root	-	-	-	-	0.43	-	-	-
Carrot	-	-	0.83	14.85	0.61	0.01	-	-
Onion	13,303.98	9,950.88	10,425.69	2,856.54	1,236.92	42,414.51	185.25	18,698.25
Potatoes	580.03	355.69	44.69	10.62	51.33	42,196.90	20.27	172.84
Garlic	122.59	39.83	-	-	-	-	81.72	3,995.13
Taro/'Godere'/'Sweet potatoes	-	-	-	-	-	-	28.24	-
Other Temporary	841.83	86.67	515.63	33.30	8.62	1.72	0.74	402.38
Permanent crops	110,538.52	184,183.57	43,196.36	47,261.48	261,275.24	5,805.62	129,928.72	4,119.63
Fruit crops	17,548.40	7,910.34	5,814.03	25,563.37	8,860.71	44.06	4,257.35	-
Avocado	6,799.24	1,706.51	-	-	1,698.09	13.62	44.54	-
Bananas	3,313.90	1,897.69	1,283.68	736.65	686.67	1.91	2,708.21	-
Guava/'Zeytun'/'Lemons	-	-	-	-	0.29	-	44.48	-
Mangos	7.70	23.39	-	-	93.36	-	42.37	-
Oranges	2,102.85	318.20	472.70	21,343.28	2,560.16	-	603.96	-
Papayas	567.61	188.64	-	-	2,990.32	21.33	286.72	-
Pineapples	4,750.46	3,772.89	2,821.79	3,483.45	827.65	-	508.36	-
Cash crpops	6.65	3.01	-	-	4.16	-	18.70	-
Chat	90,189.01	171,571.55	21,573.53	19,526.99	252,235.70	5,471.44	125,653.97	4,119.63
Coffee	5.37	1.52	-	-	0.25	-	27.00	-
Tea	20,820.82	435.82	16,182.24	4,603.60	92,714.94	388.28	26,665.03	-
Hopes/'Geshe'/'Enset	3,810.30	441.60	-	-	7,154.02	1,041.52	-	-
Sugar cane	0.47	0.15	-	-	1.12	0.01	-	-
Cotton	-	-	-	-	-	-	-	-
Other permanent crops	55,778.98	155,338.70	-	-	44,471.92	458.41	9,505.64	-
	9,773.07	15,353.76	5,391.29	14,923.39	107,893.45	3,583.23	89,456.30	4,119.63
	2,801.11	4,701.68	15,808.80	2,171.12	178.83	290.12	17.40	-

Table 3Estimate of farm input applied cropland area and quantity of input used by crop and input types for commercial farms, 2013 EC(2020/21)Chemical Fertilizer Applied IN HECTARES, Tigray								
Chemical Fertilizer Applied								
	UREA		NPS		Improved Seed		Indigenous Seed	
Type of crop	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	47,086.92	15,776.39	174,100.78	182,346.00	14,522.84	9,188.58	202,755.74	61,008.19
Grains	43,715.56	11,596.77	161,444.50	175,359.60	13,781.64	8,852.78	189,808.75	60,600.78
Cereals	11,524.39	8,848.10	48,387.40	15,026.00	1,974.68	2,393.55	44,316.59	15,336.34
Teff	138.63	1,470.44	-	-	204.63	27.87	61.64	608.4
Barley	42.68	28.92	-	-	1,025.70	238.12	-	-
Wheat	14.6	2.42	-	-	44.44	13.13	-	-
Maize	485.56	2,365.38	-	-	111.65	2,085.71	-	-
Sorghum	10,842.92	4,980.95	48,387.40	15,026.00	588.26	28.72	44,222.00	14,727.94
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja' /	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	32.94	-
Pulse	-	-	-	-	2,236.66	-	9,001.25	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	-	-	-	-	-	-	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	42.4	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	12.2	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/'Masho' /	-	-	-	-	2,236.66	-	8,946.65	-
Gibto	-	-	-	-	-	-	-	-
Oile seeds	32,191.17	2,748.67	113,057.10	160,333.60	9,570.30	6,459.23	136,490.91	45,264.44
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	109.8	-
Sesame	32,191.17	2,748.67	113,057.10	160,333.60	9,570.30	6,459.23	136,381.11	45,264.44
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	957.42	666.28	3,673.42	3,690.00	229.31	65.65	14.1	52.48
Lettuce	-	-	-	-	-	0.5	-	-
Head Cabbage	-	-	-	-	2.48	2.31	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	189.57	79.22	1,510.36	738	78.28	11.76	11.67	51.25
Green peppers	767.85	587.06	2,163.06	2,952.00	141.45	45.94	2.43	1.23
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	7.09	5.14	-	-
Root crops	170.78	69.29	2,257.00	2,755.20	145.17	27.58	62.72	354.93
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	170.78	69.29	2,257.00	2,755.20	145.17	27.58	62.72	354.93
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere' /	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-
Permanent crops	2,243.16	3,444.05	6,725.86	541.2	366.72	242.57	12,870.17	-
Fruit crops	252.08	101.17	1,235.86	442.8	357.06	0.35	55.45	-
Avocado	31.29	5.79	1,235.86	442.8	49.15	0.25	-	-
Bananas	14.03	5.79	-	-	-	-	4.27	-
Guava/'Zeytun' /	-	-	-	-	-	-	42.98	-
Lemons	-	-	-	-	2.53	-	5.36	-
Mangos	-	-	-	-	200.6	-	2.03	-
Oranges	67.21	26.05	-	-	104.58	0.1	0.81	-
Papayas	138.64	60.64	-	-	0.03	-	-	-
Pineapples	0.92	2.89	-	-	0.16	-	-	-
Cash crops	-	-	-	-	-	-	12,814.72	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Geshe' /	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	12,814.72	-
Other permanent crops	1,991.08	3,342.88	5,490.00	98.4	9.66	242.22	-	-

Table 3 Estimate of farm input applied cropland area and quantity of input used by crop and input types for commercial farms, 2013 E.C(2020/21) Chemical Fertilizer Applied IN HECTARES, Afar								
Chemical Fertilizer Applied								
	UREA		NPS		Improved Seed		Indigenous Seed	
Type of crop	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	18,029.54	16,490.34	3,000.00	13,938.00	89,072.55	4,361.02	4,408.22	2,932.73
Grains	230.25	29.03	-	-	4,405.70	873.63	-	-
Cereals	230.25	29.03	-	-	3,988.74	873.63	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	230.25	29.03	-	-	2,422.88	873.63	-	-
Maize	-	-	-	-	1,565.86	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'/	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	-	-	-	-	-	-	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/'Masho'/	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oil seeds	-	-	-	-	416.96	-	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	416.96	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere'/	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-
Permanent crops	17,799.29	16,461.31	3,000.00	13,938.00	84,666.85	3,487.39	4,408.22	2,932.73
Fruit crops	98.94	20.6	-	-	-	-	188.03	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun'/	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	55.5	11.51	-	-	-	-	152.93	-
Oranges	43.44	9.09	-	-	-	-	35.1	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	17,694.35	16,439.35	3,000.00	13,938.00	84,666.85	3,487.39	4,220.19	2,932.73
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Geshe'/	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	8,760.81	1,146.57	-	-	9,502.75	86.15	-	-
Cotton	8,933.54	15,292.78	3,000.00	13,938.00	75,164.10	3,401.24	4,220.19	2,932.73
Other permanent crops	6	1.36	-	-	-	-	-	-



Table 3Estimate of farm input applied cropland area and quantity of input used by crop and input types ,2013(2020/21) Amhara									
		Urea		NPS		Improved Seed		Indigenous Seed	
		Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
	Total	107,596.04	68,637.65	457,724.25	73,682.85	41,747.38	62,412.42	155,167.87	99,321.52
	Grains	98,027.11	51,351.70	454,605.17	49,675.73	38,044.08	61,857.55	142,494.97	93,450.00
	Cereals	81,106.90	47,851.92	414,944.35	42,562.52	30,170.20	60,415.17	29,287.13	29,647.62
	Teff	7,816.26	2,130.74	40,548.74	23,754.77	2,394.86	6,080.55	833.98	6,338.35
	Barley	43.82	17.84	102.00	121.50	371.40	259.78	218.48	3,141.64
	Wheat	2,694.93	442.98	2,933.57	621.39	3,387.38	9,310.56	253.90	6,761.28
	Maize	59,319.04	44,106.47	363,225.60	14,895.13	14,740.44	37,937.27	1,008.36	3,458.67
	Sorghum	11,009.48	999.09	6,709.84	2,891.87	9,185.13	5,516.76	26,909.85	8,829.67
	Finger millet	28.92	12.61	1,424.60	277.86	67.45	159.45	57.49	987.06
	Oats/'Aja'/'	-	-	-	-	-	-	-	-
	Rice	194.45	142.19	-	-	23.55	1,150.80	5.07	130.94
	Pulse	807.65	56.60	19,889.99	3,543.93	7,105.63	460.59	10,650.38	50,544.48
	Horse/Faba beans	-	-	61.18	12.74	-	-	2.43	159.37
	Field peas	-	-	-	-	-	-	-	-
	W/Haricot bean	24.92	2.98	-	-	404.69	52.56	2,041.84	-
	R/Haricot bean	116.88	6.59	1,350.35	230.51	1,681.70	5.00	982.67	2,863.65
	B/Haricot bean	-	-	-	-	-	-	-	-
	Chick peas	9.79	12.90	-	-	4,220.21	16.20	727.77	-
	Lentiles	-	-	-	-	-	-	-	-
	Vetch/Grass peas	-	-	-	-	-	-	-	-
	Soya beans	656.06	34.13	16,155.54	3,211.86	344.61	386.83	6,726.91	46,587.44
	Fenugreek	-	-	-	-	-	-	-	-
	Mung beans/'Masho'/'	-	-	2,322.93	88.83	454.43	-	168.77	934.03
	Gibto	-	-	-	-	-	-	-	-
	Oile seeds	16,112.56	3,443.18	19,770.83	3,569.28	768.25	981.79	102,557.46	13,257.90
	Nueg	-	-	-	-	-	-	32.32	-
	Linseed	-	-	-	-	2.07	-	41.44	-
	Ground nuts	-	-	-	-	-	-	45.10	-
	Safflower	1,535.10	77.66	15,056.48	3,321.49	47.78	839.82	16.30	626.49
	Sesame	14,577.46	3,365.52	4,714.35	247.79	718.39	141.96	102,422.31	12,631.40
	Rapeseed	-	-	-	-	-	-	-	-
	Vegetables	3,215.34	11,412.97	155.47	3,343.01	77.87	48.14	678.91	1,561.47
	Lettuce	-	-	-	-	-	-	-	-
	Head Cabbage	732.08	5,367.48	-	-	4.29	15.92	1.00	29.33
	Ethiopian Cabbage	0.12	1.52	-	-	-	-	0.13	14.65
	Tomatoes	1,511.28	5,850.79	65.68	45.62	48.00	20.28	2.38	14.32
	Green peppers	0.15	2.27	-	-	-	-	14.62	0.07
	Red papers	971.67	189.40	89.50	3,294.36	25.51	11.94	660.78	1,503.11
	Swiss chard	0.05	1.52	0.30	3.03	0.07	-	-	-
	Root crops	2,928.15	5,367.80	1,538.27	428.56	77.37	408.26	55.53	3,123.15
	Beet root	-	-	-	-	0.43	-	-	-
	Carrot	-	-	0.83	14.85	0.11	0.01	-	-
	Onion	2,926.56	5,343.54	1,537.44	413.72	46.89	390.64	55.51	3,121.68
	Potatoes	1.56	12.90	-	-	29.94	17.61	-	-
	Garlic	0.03	11.36	-	-	-	-	0.02	1.46
	Taro/'Godere'/'	-	-	-	-	-	-	-	-
	Sweet potatoes	-	-	-	-	-	-	-	-
	Other Temporary	-	-	-	-	-	-	0.73	-
	Permanent crops	3,425.44	505.18	1,425.34	20,235.55	3,548.06	98.47	11,937.73	1,186.90
	Fruit crops	1,885.37	440.92	1,406.08	20,208.46	961.40	3.88	479.16	-
	Avocado	-	-	-	-	3.83	-	1.24	-
	Bananas	25.41	183.01	1,115.71	705.01	268.44	1.57	232.74	-
	Guava/'Zeytun'/'	-	-	-	-	0.29	-	1.50	-
	Lemons	0.95	0.36	-	-	0.63	0.01	2.04	-
	Mangos	1,833.39	253.42	290.37	19,503.45	510.91	2.22	53.00	-
	Oranges	4.33	0.45	-	-	76.55	0.02	188.16	-
	Papayas	21.29	3.68	-	-	100.76	0.06	0.48	-
	Pineapples	-	-	-	-	-	-	-	-
	Cash crops	1,538.94	64.11	19.26	27.09	2,473.79	94.59	11,457.82	1,186.90
	Chat	-	-	-	-	-	-	-	-
	Coffee	698.94	2.98	-	-	-	-	912.03	-
	Tea	-	-	-	-	-	-	-	-
	Hopes/'Gesho'/'	0.47	0.15	-	-	1.12	0.01	-	-
	Enset	-	-	-	-	-	-	-	-
	Sugar cane	-	-	-	-	-	-	15.56	-
	Cotton	839.53	60.98	19.26	27.09	2,472.67	94.58	10,530.23	1,186.90
	Other permanent crops	1.13	0.15	-	-	112.87	-	0.75	-

Table 3 Estimate of farm input applied cropland area and quantity of input used by crop and input types for commercial farms, 2013								
EC(2020/21) Chemical Fertilizer								
Applied IN HECTARES, Oromia								
	UREA		NPS		Improved Seed		Indigenous Seed	
Type of crop	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	253,704.89	233,058.21	149,547.18	88,427.13	219,840.98	355,774.04	69,289.70	208,590.97
Grains	172,202.07	58,343.44	108,724.84	26,856.11	136,446.06	245,571.21	44,110.41	189,223.09
Cereals	169,673.06	57,567.49	67,952.03	16,706.33	129,558.68	235,682.26	19,770.35	171,523.61
Teff	6,433.94	560.05	8,307.21	2,483.33	618.18	3,782.37	759.4	12,015.87
Barley	3,321.32	175.97	12,390.00	2,771.50	1,505.21	13,422.96	146.22	7,387.56
Wheat	64,141.96	34,093.34	45,787.37	10,978.16	85,802.60	157,544.62	10,616.74	143,994.41
Maize	90,878.73	22,294.59	423.9	128.9	39,052.99	58,942.61	67.6	158.08
Sorghum	228.53	7.41	751.96	92.95	2,203.16	31.88	6,535.14	844.35
Finger millet	1,856.00	281.18	-	-	274.56	792.17	-	-
Oats/'Aja'/	1,882.99	92.23	-	-	-	-	1,255.33	214.55
Rice	929.6	62.71	291.6	251.49	101.98	1,165.65	389.92	6,908.78
Pulse	2,375.43	723.06	14,025.62	3,145.14	4,513.43	5,623.67	6,903.63	5,981.94
Horse/Faba beans	111.66	11.29	4,948.50	872.64	744.72	2,722.96	29.99	2.93
Field peas	33.38	3.03	22.5	1.52	3	0.1	22.25	219.68
W/Haricot bean	662.34	79.52	2,625.75	969.3	1,828.92	1,457.05	671.06	700.65
R/Haricot bean	598.08	69.04	5,093.63	1,027.17	1,077.87	303.44	4.33	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	380.49	82.11	21.24	222.61	439.6	54.74
Lentiles	26.22	1.06	-	-	17.48	0.64	1.3	-
Vetch/Grass peas	2.82	3.12	-	-	-	-	13.92	10.99
Soya beans	841.64	553.5	954.75	192.41	801.29	915.22	5,712.07	4,890.43
Fenugreek	3.6	0.3	-	-	-	-	3.9	43.94
Mung beans/'Masho' /	95.7	2.2	-	-	18.91	1.64	5.22	58.58
Gibto	-	-	-	-	-	-	-	-
Oil seeds	153.58	52.89	26,747.19	7,004.64	2,373.95	4,265.28	17,436.43	11,717.54
Nueg	-	-	-	-	3.07	-	378.29	-
Linseed	-	-	690.75	139.53	206.3	90	85.53	1,195.03
Ground nuts	18.35	1.22	-	-	-	-	964.97	271.59
Safflower	-	-	-	-	-	-	-	-
Sesame	135.23	51.67	40.73	4.55	195.01	1.72	14,280.86	142.79
Rapeseed	-	-	26,015.71	6,860.57	1,969.57	4,173.56	1,726.77	10,108.13
Vegetables	9,930.92	10,249.38	6,414.76	50,412.11	3,823.45	26,911.62	2,921.42	201.61
Lettuce	6.18	0.61	-	-	284.96	4.3	-	-
Head Cabbage	252.2	126.26	1,979.25	410.4	13.07	63.88	-	-
Ethiopian Cabbage	0.9	0.19	-	-	3.07	0.04	-	-
Tomatoes	6,159.50	9,211.59	410.48	165.83	1,990.79	13,554.00	0.09	0.74
Green peppers	3,171.71	876.1	3,965.93	49,821.36	124.23	12,281.68	9.41	159.88
Red papers	340.43	34.64	59.1	14.51	1,406.83	1,005.39	2,911.93	40.99
Swiss chard	-	-	-	-	0.5	2.33	-	-
Root crops	10,600.16	4,536.52	6,631.47	2,295.87	228.82	81,590.24	139.97	19,166.27
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	0.5	-	-	-
Onion	9,899.14	4,165.27	6,616.47	2,291.33	206.92	39,410.95	58.16	15,011.51
Potatoes	578.46	342.79	15	4.55	21.4	42,179.29	0.11	161.1
Garlic	122.56	28.46	-	-	-	-	81.7	3,993.66
Taro/'Godere' /	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-
Permanent crops	60,971.74	159,928.87	27,776.11	8,863.04	79,342.65	1,700.97	22,117.90	-
Fruit crops	8,364.39	5,134.20	2,788.79	3,476.79	6,332.47	38.13	174.07	-
Avocado	3,164.41	1,298.02	-	-	1,522.12	12.45	-	-
Bananas	2.37	0.45	-	-	145.7	0.31	-	-
Guava/'Zeytun' /	-	-	-	-	-	-	-	-
Lemons	6.75	23.03	-	-	23.12	0.23	-	-
Mangos	178.2	48.72	-	-	1,656.44	2.55	132.86	-
Oranges	452.63	153.05	-	-	2,546.71	21.21	-	-
Papayas	4,560.04	3,610.92	2,788.79	3,476.79	438.37	1.39	41.21	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	51,893.39	154,404.42	14,734.52	3,250.10	73,010.12	1,662.81	21,943.83	-
Chat	-	-	-	-	-	-	9.93	-
Coffee	3,494.68	139.22	12,362.49	2,291.80	34,826.58	213.02	12,478.22	-
Tea	1,398.00	74.7	-	-	1,500.18	990.12	-	-
Hopes/'Geshe' /	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	47,000.71	154,190.50	-	-	34,969.17	372.26	9,455.68	-
Cotton	-	-	2,372.03	958.3	1,714.19	87.41	-	-
Other permanent crops	713.96	390.25	10,252.80	2,136.15	0.06	0.03	-	-

Table 3 Estimate of farm input applied cropland area and quantity of input used by crop and input types for commercial farms, 2013								
EC(2020/21) Chemical Fertilizer								
Applied IN HECTARES, Somale								
Chemical Fertilizer Applied								
	UREA		NPS		Improved Seed		Indigenous Seed	
Type of crop	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	27,264.95	47,489.55	990	325.98	1,357.10	10,439.67	1,626.40	85,305.05
Grains	26,984.93	47,260.28	990	325.98	228.95	7,858.48	944.97	85,094.93
Cereals	26,525.75	41,616.97	990	325.98	162.99	7,858.48	647.61	84,352.89
Teff	133.2	3.03	-	-	-	-	88.86	376.38
Barley	-	-	-	-	-	-	-	-
Wheat	7,954.56	16,161.53	990	325.98	123.2	2,553.03	507.94	44,440.91
Maize	18,437.99	25,452.42	-	-	39.79	5,305.45	50.81	39,535.61
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja' /	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	-	-	-	-	-	-	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans /"Masho" /	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oile seeds	459.18	5,643.31	-	-	65.96	-	297.36	742.04
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	65.96	-	16.84	-
Safflower	-	-	-	-	-	-	-	-
Sesame	459.18	5,643.31	-	-	-	-	280.52	742.04
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	16.9	-	5.87	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	16.14	-	5.87	-
Green peppers	-	-	-	-	0.76	-	-	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	280.02	229.27	-	-	634.42	2,581.19	6.71	210.12
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	280.02	229.27	-	-	634.42	2,581.19	6.71	210.12
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro /'Godere' /	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-
Permanent crops	-	-	-	-	476.83	-	668.85	-
Fruit crops	-	-	-	-	383.45	-	652.24	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	0.43	-
Guava /'Zeytun' /	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	66.88	-	33.43	-
Mangos	-	-	-	-	85.36	-	195.67	-
Oranges	-	-	-	-	87.2	-	51.04	-
Papayas	-	-	-	-	144.01	-	371.67	-
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	-	-	-	-	52	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes /'Gesho' /	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	52	-	-	-
Other permanent crops	-	-	-	-	41.38	-	16.61	-

Table 3 Estimate of farm input applied cropland area and quantity of input used by crop and input types for commercial farms, 2013								
E.C(2020/21) Chemical Fertilizer								
Applied IN HECTARES, Beneshangul gumuz								
Chemical Fertilizer Applied								
	UREA		NPS		Improved Seed		Indigenous Seed	
Type of crop	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	16,487.64	2,560.65	7,303.19	1,238.15	28,496.60	9,582.45	47,544.08	7,616.05
Grains	16,207.66	2,327.20	7,303.19	1,238.15	9,604.38	9,582.45	44,964.74	7,500.06
Cereals	14,351.81	2,102.19	5,223.78	632.37	8,501.03	6,855.60	13,060.91	6,033.52
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	13,996.87	2,090.37	2,965.09	540.77	7,332.08	6,820.76	1,429.43	5,578.76
Sorghum	354.94	11.82	2,258.69	91.61	1,168.95	34.84	11,631.48	454.75
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja' /	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	430.56	70.92	2,064.78	602.82	1,103.35	2,726.85	10,475.05	559.87
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	29.25	295.5	-	-	3.9	17.14
R/Haricot bean	-	-	-	-	-	-	100.74	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	21.06	29.55	2,035.53	307.32	830.35	575.15	10,313.86	542.74
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/"Masho" /	409.5	41.37	-	-	273	2,151.70	56.55	-
Gibto	-	-	-	-	-	-	-	-
Oile seeds	1,425.29	154.09	14.63	2.96	-	-	21,428.78	906.67
Nueg	-	-	-	-	-	-	108.85	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	14.63	2.96	-	-	201.83	0.59
Safflower	-	-	-	-	-	-	-	-
Sesame	1,425.29	154.09	-	-	-	-	21,118.11	906.08
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	279.98	233.45	-	-	-	-	662.1	115.99
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red papers	279.98	233.45	-	-	-	-	662.1	115.99
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere' /	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-
Permanent crops	-	-	-	-	18,892.22	-	1,917.24	-
Fruit crops	-	-	-	-	-	-	14.51	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	12.4	-
Guava/'Zeytun' /	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	-	-	-	-	-	-	2.11	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	18,892.22	-	1,902.73	-
Chat	-	-	-	-	-	-	13.49	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Gesho' /	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	18,892.22	-	1,889.24	-
Other permanent crops	-	-	-	-	-	-	-	-

Table 3Estimate of farm input applied cropland area and quantity of input used by crop and input types for commercial farms, 2013								
E.C(2020/21)Chemical Fertilizer								
Applied IN HECTARES, SNNP								
Chemical Fertilizer Applied								
	UREA		NPS		Improved Seed		Indigenous Seed	
Type of crop	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	49,305.48	121,378.14	65,374.85	752,293.27	100,529.55	60,131.20	45,828.64	35,950.25
Grains	32,879.89	111,833.99	60,557.17	748,031.75	36,438.31	44,394.52	11,350.18	35,483.49
Cereals	32,718.43	111,720.67	55,319.33	648,021.36	33,587.51	43,206.37	4,895.74	32,925.88
Teff	8,646.32	10,243.01	26,743.57	570,649.08	1,682.03	4,939.71	1,071.32	11,023.97
Barley	45.05	136.26	21.6	436.32	160.08	57.24	6.96	6.02
Wheat	6,672.41	45,361.22	4,252.02	29,626.73	4,365.55	25,570.58	1,164.18	15,332.63
Maize	16,594.84	55,920.34	23,823.64	47,292.58	25,980.03	9,549.02	1,231.15	6,112.60
Sorghum	115.5	4.33	478.5	16.65	150.5	6.15	1,264.85	338
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja' /	-	-	-	-	-	-	-	-
Rice	644.32	55.5	-	-	1,249.33	3,083.67	157.28	112.67
Pulse	141.25	110.73	5,237.84	100,010.39	2,850.80	1,188.15	4,968.99	2,359.47
Horse/ Faba beans	3.48	0.42	0.53	1.52	2.31	5.19	0.12	3.67
Field peas	0.83	0.09	-	-	-	-	100.43	8.05
W/Haricot bean	52.8	1.33	4,183.20	83,900.00	120.19	1,028.27	3,827.25	2,027.46
R/Haricot bean	9.9	8.99	-	-	191.87	2.02	218.85	24.14
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	603.9	12,187.80	2,433.95	123.87	389.74	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	255.75	1,923.08	13.2	0.18	113.91	296.15
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/'Masho' /	74.25	99.9	194.46	1,998.00	89.29	28.63	318.7	-
Gibto	-	-	-	-	-	-	-	-
Oile seeds	20.21	2.59	-	-	-	-	1,485.45	198.14
Nueg	8.66	0.83	-	-	-	-	5.76	21.09
Linseed	-	-	-	-	-	-	-	-
Ground nuts	3.3	0.83	-	-	-	-	4.4	80.48
Safflower	-	-	-	-	-	-	95.25	-
Sesame	8.25	0.92	-	-	-	-	1,380.04	96.57
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	418.76	5,737.29	33	3.33	1,133.94	15,471.00	1,187.43	64.38
Lettuce	-	-	-	-	0.2	-	-	-
Head Cabbage	8.25	1.67	-	-	194.13	12,761.76	-	-
Ethiopian Cabbage	0.48	0.09	-	-	11.55	0.04	2.64	-
Tomatoes	288.09	98.74	33	3.33	215.63	2,684.71	-	-
Green peppers	86.34	5,629.46	-	-	78.35	2.46	11.43	-
Red papers	35.59	7.33	-	-	634.08	22.03	1,173.36	64.38
Swiss chard	-	-	-	-	-	-	-	-
Root crops	27.48	143.52	-	-	201.55	4.12	13.51	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	27.48	143.52	-	-	201.55	4.12	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere' /	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	13.51	-
Other Temporary	828.99	85.91	515.63	33.3	0.06	1.18	0.01	402.38
Permanent crops	15,150.36	3,577.43	4,269.05	4,224.89	62,755.69	260.38	33,277.51	-
Fruit crops	6,865.58	2,093.90	383.3	1,878.12	421.35	1.14	2,628.54	-
Avocado	3,543.84	379.51	-	-	75.58	0.52	29.3	-
Bananas	3,272.09	1,708.43	167.97	31.64	244.7	0.04	2,419.95	-
Guava/'Zeytun' /	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	1.54	-
Mangos	30.18	4.16	182.33	1,839.83	48.83	0.4	56.54	-
Oranges	-	-	-	-	20.98	-	7.51	-
Papayas	13.74	1.67	33	6.66	31.26	0.18	95	-
Pineapples	5.73	0.12	-	-	-	-	18.7	-
Cash crops	8,195.84	516.5	3,819.75	2,311.80	62,319.70	211.37	30,648.97	-
Chat	-	-	-	-	0.25	-	-	-
Coffee	5,783.54	149.6	3,819.75	2,311.80	56,665.61	159.98	8,055.60	-
Tea	2,412.30	366.9	-	-	5,653.84	51.4	-	-
Hopes/'Gesho' /	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	22,593.37	-
Other permanent crops	88.94	967.03	66	34.97	14.64	47.87	-	-

Table 3 Estimate of farm input applied cropland area and quantity of input used by crop and input types for commercial farms, 2013								
E.C(2020/21) Chemical Fertilizer								
Applied IN HECTARES, Gambela								
Chemical Fertilizer Applied								
	UREA		NPS		Improved Seed		Indigenous Seed	
Type of crop	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	11,419.66	5,976.02	-	-	11,016.85	15.28	61,611.94	89,496.90
Grains	576	5,832.00	-	-	78.21	-	18,961.29	89,496.90
Cereals	576	5,832.00	-	-	78.21	-	7,582.98	1,409.40
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	576	5,832.00	-	-	78.21	-	1,986.15	1,409.40
Sorghum	-	-	-	-	-	-	4,713.99	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja' /	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	882.83	-
Pulse	-	-	-	-	-	-	10,646.61	88,087.50
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	-	-	-	-	-	-	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/'Masho' /	-	-	-	-	-	-	10,646.61	88,087.50
Gibto	-	-	-	-	-	-	-	-
Oil seeds	-	-	-	-	-	-	731.7	-
Nueg	-	-	-	-	-	-	5.2	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	65.12	-
Sesame	-	-	-	-	-	-	661.38	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	16.8	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	16.8	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	2.14	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	2.14	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere' /	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-
Permanent crops	10,843.66	144.02	-	-	10,938.64	15.28	42,631.71	-
Fruit crops	-	-	-	-	117.4	-	6.26	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	0.12	-	1.46	-
Guava/'Zeytun' /	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	-	-	-	-	54.3	-	4.8	-
Oranges	-	-	-	-	32.58	-	-	-
Papayas	-	-	-	-	30.4	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	10,843.66	144.02	-	-	10,821.02	15.28	42,625.40	-
Chat	-	-	-	-	-	-	-	-
Coffee	10,843.66	144.02	-	-	1,222.75	15.28	5,216.86	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Geshe' /	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	9,598.27	-	37,408.54	-
Other permanent crops	-	-	-	-	0.22	-	0.05	-

Table 3 Estimate of farm input applied cropland area and quantity of input used by crop and input types for commercial farms, 2013  
E.C(2020/21) Chemical Fertilizer

Applied IN HECTARES, Diredawa								
Chemical Fertilizer Applied								
	UREA		NPS		Improved Seed		Indigenous Seed	
Type of crop	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	-	-	-	-	122.08	-	4.1	-
Grains	-	-	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'/'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	-	-	-	-	-	-	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/'Masho'/'	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oile seeds	-	-	-	-	-	-	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere'/'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-
Permanent crops	-	-	-	-	122.08	-	4.1	-
Fruit crops	-	-	-	-	122.08	-	4.1	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun'/'	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	0.2	-	-	-
Mangos	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	121.72	-	4.1	-
Papayas	-	-	-	-	0.16	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Gesho'/'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other permanent crops	-	-	-	-	-	-	-	-

Table 4 Estimate of farm input applied cropland area and quantity of input used by crop sidama								
	Chemical Fertilizer Applied							
	urea		NPS		Improved Seed		Indigenous Seed	
Type of crop	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	639.74	14232.04	139.72	160.61	527.6	824.9	145.17	14.2
Grains	474.84	13962.24	95.25	3.03	314.25	807.68	14.97	2.45
Cereals	452.38	13795.44	95.25	3.03	314.25	807.68	-	-
Teff	6.17	82.88	-	-	4.07	15.98	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	7.6	41.7	95.25	3.03	17.76	33.42	-	-
Maize	438.62	13670.87	-	-	292.41	758.29	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'/'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	22.46	166.8	-	-	-	-	14.97	2.45
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	22.46	166.8	-	-	-	-	14.97	2.45
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/'Masho'/'	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oil seeds	-	-	-	-	-	-	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	47.2	146.35	-	-	37.33	16.08	-	-
Lettuce	6.89	0.3	-	-	4.59	0.17	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	15.75	95.9	-	-	13.99	0.61	-	-
Green peppers	8.48	49.69	-	-	5.65	14.62	-	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	16.08	0.45	-	-	13.1	0.69	-	-
Root crops	-	-	44.47	157.58	1.97	0.03	34.89	11.75
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	14.78	151.5	1.97	0.03	-	-
Potatoes	-	-	29.69	6.08	-	-	20.16	11.75
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere'/'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	14.73	-
Other Temporary	12.84	0.76	-	-	8.56	0.55	-	-
Permanent crops	104.86	122.69	-	-	165.49	0.56	95.31	-
Fruit crops	82.03	119.54	-	-	165.49	0.56	55	-
Avocado	59.7	23.18	-	-	47.41	0.4	14	-
Bananas	-	-	-	-	27.7	-	36.96	-
Guava/'Zeytun'/'	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	5.58	0.38	-	-	3.72	0.04	4.04	-
Oranges	-	-	-	-	-	-	-	-
Papayas	16.75	95.98	-	-	82.66	0.12	-	-
Pineapples	-	-	-	-	4	-	-	-
Cash crops	22.83	3.15	-	-	-	-	40.31	-
Chat	5.37	1.52	-	-	-	-	3.58	-
Coffee	-	-	-	-	-	-	2.32	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Gesho'/'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	17.46	1.63	-	-	-	-	34.41	-
Cotton	-	-	-	-	-	-	-	-
Other permanent crops	-	-	-	-	-	-	-	-



Table 3.....National continued.....								
	Pesticides		Fungicides		Herbicides		Other	
Type of crop	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	676,366.15	681,659.93	655,911.94	749,904.32	680,602.09	711,792.04	210,370.00	322,425.00
Grains	192,696.11	133,419.87	259,394.90	196,967.78	533,717.55	556,840.68	28,767.00	15,150.00
Cereals	37,053.42	18,642.17	24,751.00	6,067.07	406,737.67	360,324.20	-	-
Teff	-	-	-	-	24,203.34	7,894.00	-	-
Barley	-	-	-	-	4,234.00	1,695.93	-	-
Wheat	664	247.45	-	-	7,696.30	3,516.85	-	-
Maize	15,089.20	12,850.12	-	-	70,472.50	136,550.07	-	-
Sorghum	21,300.22	5,544.60	24,751.00	6,067.07	298,631.98	209,062.97	-	-
Finger millet	-	-	-	-	1,484.55	1,562.98	-	-
Oats/'Aja' /	-	-	-	-	-	-	-	-
Rice	-	-	-	-	15	41.4	-	-
Pulse	94,919.89	104,935.28	234,643.90	190,900.71	30,201.48	157,925.58	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	-	-	-	-	4,047.38	9,223.00	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	3,728.72	2,881.83	86,063.00	75,205.61	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	199	63.83	8,063.00	4,480.36	3,174.00	1,031.04	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/"Masho" /	90,992.17	101,989.62	140,517.90	111,214.74	22,980.10	147,671.54	-	-
Gibto	-	-	-	-	-	-	-	-
Oile seeds	60,722.80	9,842.42	-	-	96,778.40	38,590.90	28,767.00	15,150.00
Nueg	204	154.8	-	-	162.2	274.42	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	85.8	27.58	-	-	-	-	-	-
Safflower	10	11.11	-	-	-	-	-	-
Sesame	60,423.00	9,648.93	-	-	96,616.20	38,316.48	28,767.00	15,150.00
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	1,018.54	3,176.23	24,182.80	88,643.49	252.8	442.26	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	1,003.24	3,167.63	23,169.80	88,568.01	-	-	-	-
Green peppers	-	-	825	75.48	-	-	-	-
Red papers	15.3	8.6	-	-	252.8	442.26	-	-
Swiss chard	-	-	188	-	-	-	-	-
Root crops	6,460.30	6,079.36	188	138.37	750	310.07	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	188	138.37	-	-	-	-
Onion	6,460.30	6,079.36	-	-	750	310.07	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere' /	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	476,191.20	538,984.47	372,146.24	464,154.68	145,881.74	154,199.03	181,603.00	307,275.00
Permanent crops	-	-	-	-	-	-	-	-
Fruit crops	14,059.28	4,205.67	356,713.64	462,345.18	-	-	11,846.00	7,575.00
Avocado	-	-	-	-	-	-	287	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun' /	-	-	-	-	-	-	-	-
Lemons	1,056.00	177.76	-	-	-	-	-	-
Mangos	6,873.80	2,146.77	58,013.76	117,785.85	-	-	-	-
Oranges	6,129.48	1,881.14	178,147.64	194,583.58	-	-	984	7,575.00
Papayas	-	-	120,552.24	149,975.75	-	-	10,575.00	-
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	462,105.52	534,748.83	15,094.60	1,740.82	145,881.74	154,199.03	169,278.50	-
Chat	-	-	94.6	17.76	-	-	-	-
Coffee	-	-	-	-	137,664.74	145,125.81	164,840.00	-
Tea	-	-	-	-	-	-	4,438.50	-
Hopes/'Gesho' /	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	3,612.00	363.6	-	-	-	-	-	-
Cotton	458,493.52	534,385.23	15,000.00	1,723.06	8,217.00	9,073.22	-	-
Other permanent crops	26.4	29.97	338	57 68.68	-	-	478.5	299,700.00

TABLE 3.....TIGRAI.....CONTINUED

Type of crop	Pesticides		Fungicides		Herbicides		Other	
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	55,775.70	47,011.23	256,932.00	50,500.80	247,632.90	268,009.71	18.3	-
Grains	55,775.70	47,011.23	256,932.00	50,500.80	247,632.90	268,009.71	18.3	-
Cereals	26,407.80	24,892.60	27,755.00	8,118.00	241,776.90	258,415.71	18.3	-
Teff	915	922.5	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	25,492.80	23,970.10	27,755.00	8,118.00	241,447.50	257,677.71	18.3	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'/'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	329.4	738	-	-
Pulse	738.1	738	3,965.00	5,073.80	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	-	-	-	-	-	-	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/"Masho"/	738.1	738	3,965.00	5,073.80	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oile seeds	28,629.80	21,380.63	225,212.00	37,309.00	5,856.00	9,594.00	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	28,629.80	21,380.63	225,212.00	37,309.00	5,856.00	9,594.00	-	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere'/'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-
Permanent crops	-	-	-	-	-	-	-	-
Fruit crops	4.6	24.6	4,559.00	45,980.00	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun'/'	-	-	-	-	-	-	-	-
Lemons	4.6	24.6	-	-	-	-	-	-
Mangos	-	-	3,162.00	33,495.00	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	1,397.00	12,485.00	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	2,440.00	9,840.00	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Geshe'/'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	2,440.00	9,840.00	-	-	-	-	-	-
Other permanent crops	-	-	-	58	-	-	-	-

TABLE 3 AFAR.....CONTINUE.....

Chemicals								
Type of crop	Pesticides		Fungicides		Herbicides		Other	
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	425,882.82	431,415.50	-	-	-	-	-	-
Grains	664	247.45	-	-	-	-	-	-
Cereals	664	247.45	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	664	247.45	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja' /	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	-	-	-	-	-	-	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/"Masho" /	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oile seeds	-	-	-	-	-	-	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere' /	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	425,218.82	431,168.05	-	-	-	-	-	-
Permanent crops	-	-	-	-	-	-	-	-
Fruit crops	-	-	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun' /	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	425,218.82	431,168.05	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Gesho' /	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	3,612.00	363.6	-	-	-	-	-	-
Cotton	421,606.82	430,804.45	-	-	-	-	-	-
Other permanent crops	-	-	-	-	-	-	-	-

TABLE 3 AMHARA CONTINUED.....								
	Pesticides		Fungicides		Herbicides		Other	
Type of crop	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
<b>Total</b>	<b>81,440.17</b>	<b>16,209.48</b>	<b>52,791.10</b>	<b>12,920.23</b>	<b>337,797.31</b>	<b>229,982.68</b>	<b>28,767.00</b>	<b>15,150.00</b>
<b>Grains</b>	<b>77,604.49</b>	<b>14,631.15</b>	<b>37,791.10</b>	<b>11,197.17</b>	<b>333,180.31</b>	<b>224,094.38</b>	<b>28,767.00</b>	<b>15,150.00</b>
<b>Cereals</b>	<b>15,258.62</b>	<b>3,549.03</b>	<b>24,751.00</b>	<b>6,067.07</b>	<b>262,431.93</b>	<b>192,142.44</b>	-	-
Teff	-	-	-	-	2,328.60	3,304.18	-	-
Barley	-	-	-	-	26	14.28	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	15,258.62	3,549.03	24,751.00	6,067.07	258,592.78	187,261.00	-	-
Finger millet	-	-	-	-	1,484.55	1,562.98	-	-
Oats/'Aja'/	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	2,478.87	1,313.04	13,040.10	5,130.10	6,423.58	9,899.52	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	-	-	-	-	2,877.38	8,576.84	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	13	2.02	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	199	63.83	8,063.00	4,480.36	892.5	116.96	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/"Masho"/	2,266.87	1,247.19	4,977.10	649.74	2,653.70	1,205.72	-	-
Gibto	-	-	-	-	-	-	-	-
Oil seeds	59,867.00	9,769.08	-	-	64,324.80	22,052.42	28,767.00	15,150.00
Nueg	204	154.8	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	10	11.11	-	-	-	-	-	-
Sesame	59,653.00	9,603.17	-	-	64,324.80	22,052.42	28,767.00	15,150.00
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	315.68	8.6	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	300.38	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red papers	15.3	8.6	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere'/	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	3,520.00	1,569.73	15,000.00	1,723.06	4,617.00	5,888.30	-	-
Permanent crops	-	-	-	-	-	-	-	-
Fruit crops	257	180.98	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun'/	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	212	154.8	-	-	-	-	-	-
Oranges	45	26.18	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	3,263.00	1,388.75	15,000.00	1,723.06	4,617.00	5,888.30	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Geshe'/	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	3,263.00	1,388.75	15,000.00	1,723.06	4,617.00	5,888.30	-	-
Other permanent crops	-	-	-	-	-	-	-	-

TABLE3 OROMIA CONTINUED

	Pesticides		Fungicides		Herbicides		Other	
Type of crop	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
<b>Total</b>	<b>7,228.58</b>	<b>13,987.05</b>	<b>436,840.24</b>	<b>623,216.43</b>	<b>36,057.08</b>	<b>12,308.69</b>	<b>165,127.00</b>	-
<b>Grains</b>	<b>3,717.72</b>	<b>2,881.83</b>	<b>86,063.00</b>	<b>75,205.61</b>	<b>26,200.24</b>	<b>6,467.99</b>	-	-
Cereals	-	-	-	-	25,883.24	6,214.08	-	-
Teff	-	-	-	-	21,660.24	4,491.03	-	-
Barley	-	-	-	-	4,208.00	1,681.65	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja' /	-	-	-	-	-	-	-	-
Rice	-	-	-	-	15	41.4	-	-
<b>Pulse</b>	<b>3,715.72</b>	<b>2,879.81</b>	<b>86,063.00</b>	<b>75,205.61</b>	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	-	-	-	-	-	-	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	3,715.72	2,879.81	86,063.00	75,205.61	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/'Masho' /	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oile seeds	2	2.02	-	-	317	253.91	-	-
Nueg	-	-	-	-	92	246.84	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	2	2.02	-	-	225	7.07	-	-
Rapeseed	-	-	-	-	-	-	-	-
<b>Vegetables</b>	<b>702.86</b>	<b>3,167.63</b>	<b>23,357.80</b>	<b>88,568.01</b>	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	702.86	3,167.63	23,169.80	88,568.01	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	188	-	-	-	-	-
Root crops	-	-	188	138.37	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	188	138.37	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere' /	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
<b>Other Temporary</b>	<b>2,808.00</b>	<b>7,937.59</b>	<b>327,231.44</b>	<b>459,304.44</b>	<b>9,856.84</b>	<b>5,840.70</b>	<b>165,127.00</b>	-
Permanent crops	-	-	-	-	-	-	-	-
<b>Fruit crops</b>	<b>2,388.00</b>	<b>189.88</b>	<b>326,893.44</b>	<b>459,235.76</b>	-	-	<b>287</b>	-
Avocado	-	-	-	-	-	-	287	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun' /	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	-	-	58,013.76	117,785.85	-	-	-	-
Oranges	2,388.00	189.88	175,664.64	194,239.17	-	-	-	-
Papayas	-	-	93,215.04	147,210.74	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
<b>Cash crpops</b>	<b>420</b>	<b>7,747.71</b>	-	-	<b>9,856.84</b>	<b>5,840.70</b>	<b>164,840.00</b>	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	9,856.84	5,840.70	164,840.00	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Geshe' /	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	420	7,747.71	-	-	-	-	-	-
<b>Other permanent crops</b>	-	-	<b>338</b>	<b>68.68</b>	-	-	-	-

TABLE 3 SOMALE CONTINUED

	Chemicals							
	Pesticides		Fungicides		Herbicides		Other	
Type of crop	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
<b>Total</b>	<b>16,994.00</b>	<b>7,647.97</b>	-	-	<b>29,010.00</b>	<b>10,326.10</b>	-	-
<b>Grains</b>	<b>10</b>	<b>9.09</b>	-	-	<b>28,260.00</b>	<b>10,016.03</b>	-	-
<b>Cereals</b>	<b>10</b>	<b>9.09</b>	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	10	9.09	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'/	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	-	-	-	-	-	-	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/"Masho"/	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oile seeds	-	-	-	-	28,260.00	10,016.03	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	28,260.00	10,016.03	-	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	6,424.00	6,043.84	-	-	750	310.07	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	6,424.00	6,043.84	-	-	750	310.07	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere'/	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	10,560.00	1,595.04	-	-	-	-	-	-
Permanent crops	-	-	-	-	-	-	-	-
<b>Fruit crops</b>	<b>10,560.00</b>	<b>1,595.04</b>	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun'/	-	-	-	-	-	-	-	-
Lemons	1,056.00	177.76	-	-	-	-	-	-
Mangos	6,336.00	884	-	-	-	-	-	-
Oranges	3,168.00	533.28	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Geshe'/	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other permanent crops	-	-	-	-	-	-	-	-

TABLE 3 BENISHANGUL CONT.....

Type of crop	Chemicals							
	Pesticides		Fungicides		Herbicides		Other	
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
<b>Total</b>	<b>2,671.50</b>	<b>5,984.86</b>	-	-	<b>21,196.50</b>	<b>11,674.22</b>	-	-
<b>Grains</b>	<b>2,671.50</b>	<b>5,984.86</b>	-	-	<b>21,196.50</b>	<b>11,674.22</b>	-	-
<b>Cereals</b>	<b>2,585.70</b>	<b>5,957.28</b>	-	-	<b>13,868.40</b>	<b>3,845.44</b>	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	2,585.70	5,957.28	-	-	-	-	-	-
Sorghum	-	-	-	-	13,868.40	3,845.44	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'/'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	3,451.50	1,560.24	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	-	-	-	-	1,170.00	646.16	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	2,281.50	914.08	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/"Masho" /	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oile seeds	85.8	27.58	-	-	3,876.60	6,268.54	-	-
Nueg	-	-	-	-	70.2	27.58	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	85.8	27.58	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	3,806.40	6,240.96	-	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere'/'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-
Permanent crops	-	-	-	-	-	-	-	-
Fruit crops	-	-	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun'/'	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Gesho'/'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other permanent crops	-	-	-	-	-	-	-	-

TABLE 3 S.N.N.P CONT.....

Type of crop	Chemicals							
	Pesticides		Fungicides		Herbicides		Other	
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
<b>Total</b>	<b>14,216.40</b>	<b>43,239.82</b>	<b>28,256.80</b>	<b>2,858.25</b>	<b>120,130.00</b>	<b>144,340.39</b>	<b>4,917.00</b>	<b>299,700.00</b>
Grains	2,010.80	2,457.31	-	-	9,674.10	5,154.10	-	-
Cereals	903.1	1,560.43	-	-	9,674.10	5,154.10	-	-
Teff	-	-	-	-	214.5	98.79	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	7,696.30	3,516.85	-	-
Maize	903.1	1,560.43	-	-	808.5	742.59	-	-
Sorghum	-	-	-	-	954.8	795.87	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'/	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	1,107.70	896.88	-	-	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	-	-	-	-	-	-	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/"Masho" /	1,107.70	896.88	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oile seeds	-	-	-	-	-	-	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	-	-	825	75.48	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	825	75.48	-	-	-	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	36.3	35.52	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	36.3	35.52	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere' /	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	12,169.30	40,746.99	27,431.80	2,782.77	110,455.90	139,186.29	4,917.00	299,700.00
Permanent crops	-	-	-	-	-	-	-	-
Fruit crops	-	-	27,337.20	2,765.01	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun' /	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	27,337.20	2,765.01	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	12,142.90	40,717.02	94.6	17.76	110,455.90	139,186.29	4,438.50	-
Chat	-	-	94.6	17.76	-	-	-	-
Coffee	-	-	-	-	110,455.90	139,186.29	-	-
Tea	-	-	-	-	-	-	4,438.50	-
Hopes/'Gesho' /	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	12,142.90	40,717.02	-	-	-	-	-	-
Other permanent crops	26.4	29.97	-	-	-	-	478.5	299,700.00



TABLE3 GAMBELA CONT.....								
	Pesticides		Fungicides		Herbicides		Other	
Type of crop	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
Total	127,599.68	163,022.65	135,540.80	110,565.00	136,411.20	303,159.96	-	-
Grains	106,017.60	107,208.18	135,540.80	110,565.00	115,206.40	299,433.96	-	-
Cereals	17,632.00	7,318.89	-	-	94,880.00	152,968.14	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	11,590.40	5,323.32	-	-	69,664.00	135,807.48	-	-
Sorghum	6,041.60	1,995.57	-	-	25,216.00	17,160.66	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'/	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	87,617.60	99,845.55	135,540.80	110,565.00	20,326.40	146,465.82	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	-	-	-	-	-	-	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/'Masho' /	87,617.60	99,845.55	135,540.80	110,565.00	20,326.40	146,465.82	-	-
Gibto	-	-	-	-	-	-	-	-
Oil seeds	768	43.74	-	-	-	-	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	768	43.74	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	252.8	442.26	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red papers	-	-	-	-	252.8	442.26	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere'/	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	21,582.08	55,814.47	-	-	20,952.00	3,283.74	-	-
Permanent crops	-	-	-	-	-	-	-	-
Fruit crops	521.28	2,087.17	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun'/	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	325.8	1,107.97	-	-	-	-	-	-
Oranges	195.48	979.2	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	21,060.80	53,727.30	-	-	20,952.00	3,283.74	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	17,352.00	98.82	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Gesho'/	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	21,060.80	53,727.30	-	-	3,600.00	3,184.92	-	-
Other permanent crops	-	-	-	-	-	-	-	-

Table 3DIRE DAWA CONTINUED

Type of crop	Pesticides		Fungicides		Herbicides		Other	
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
<b>Total</b>	<b>333</b>	<b>152.6</b>	<b>2483</b>	<b>344.41</b>	-	-	<b>984</b>	<b>7575</b>
Grains	-	-	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'/'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	-	-	-	-	-	-	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/"Masho"/	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oile seeds	-	-	-	-	-	-	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere'/'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
<b>Other Temporary</b>	<b>333</b>	<b>152.6</b>	<b>2483</b>	<b>344.41</b>	-	-	<b>984</b>	<b>7575</b>
<b>Permanent crops</b>	-	-	-	-	-	-	-	-
<b>Fruit crops</b>	<b>333</b>	<b>152.6</b>	<b>2483</b>	<b>344.41</b>	-	-	<b>984</b>	<b>7575</b>
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun'/'	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	-	-	-	-	-	-	-	-
<b>Oranges</b>	<b>333</b>	<b>152.6</b>	<b>2483</b>	<b>344.41</b>	-	-	<b>984</b>	<b>7575</b>
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Geshe'/'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other permanent crops	-	-	-	-	-	-	-	-

TABLE 3 SIDAMA CONTINUED

Type of crop	Pesticides		Fungicides		Herbicides		Other	
	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts	Area in Ha	Amnt in Qts
<b>Total</b>	-	-	-	-	-	-	<b>10575</b>	-
<b>Grains</b>	-	-	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'/	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	-	-	-	-	-	-	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/"Masho"/	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oile seeds	-	-	-	-	-	-	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere'/	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	<b>10575</b>	-
<b>Permanent crops</b>	-	-	-	-	-	-	-	-
<b>Fruit crops</b>	-	-	-	-	-	-	<b>10575</b>	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun'/	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	<b>10575</b>	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Gesho'/	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other permanent crops	-	-	-	-	-	-	-	-