

THE FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA CENTRAL STATISTICS SERVICE

**LARGE AND MEDIUM SCALE COMMERCIAL FARMS SAMPLE SURVEY
2021/22(2014E.C)**

RESULTS AT COUNTRY AND REGIONAL LEVEL

VOLUME VIII



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

**ADDIS ABABA
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ABBREVIATIONS:

ESS	Ethiopian Statistics Service
ESE	Ethiopian Seed Enterprise
GDP	growth and Domestic product
CSPRO	Census and Surveys Processing system software
CAPRI	Computer Assisted Personal Interview
CV	Coefficient of variation
E.C.	Ethiopian calendar
GPS	Global Positioning System
IMPS	Integrated Microcomputer Processing System software
PPS	Probability Proportional to Size
S.N.N.P.R.	South Nations, Nationalities and Peoples Region

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 eight 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:-

- a) **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,
- b) **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

This report is the twelve 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, Since then Annually 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 2021/22(2014 E.C.) commercial farms sample survey of the Meher Season.

2. OBJECTIVES OF THE 2021/22(2014 E.C) LARGE AND MEDIUM SCALE COMMERCIAL FARMS SURVEY

The major objectives of the 2021/22(2014 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 2021/22(2014 E.C) large and medium scale commercial farms cover all urban & rural CHAPTER s of the country except For Tigrai Regional State we used the result of survey conducted before one year 2012 E.C(2019/20. Considering the cost and manageability of field work a sample of 3406 farms were planned and decided to be covered at national level. But the survey succeeded to cover 3197 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 ESS 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 Sample 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

3 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 2021/22(2014 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.

3.1 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, ESS organized a two stage training program that is a training of trainers and followed by training of supervisors and enumerators. The first stage training was given in Adama city 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 the same place at Adama city for consecutive of 15 days .

3.2 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 2021/22(2014 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.

4 Data processing

Census and Survey Processing System (CSPro) 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 CSPro and the tabulation component of IMPS (Integrated Microcomputer Processing System)

software.

5 Basic Concepts and Definitions

Information on all items of agriculture is not useful until the items are distinctly defined and understood. The procedure of stating data items and related terms is a prerequisite for making standards and definitions for collection and compilation of agricultural data. The intent of using standard concepts and definitions is not only to provide quality data but also to ensure that the right items are enumerated and 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 2021/22(2014 E.C) Large and Medium Scale Commercial Farms Sample Survey Results

3.1 Introduction

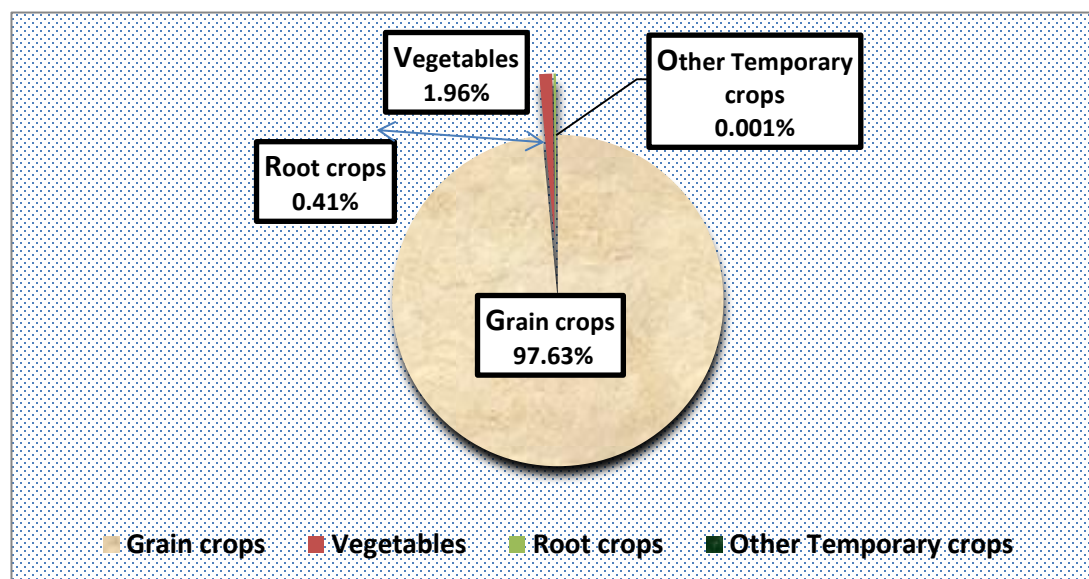
The type of crops on which data were collected during the 2021/22(2014 E.C) commercial farms sample survey are those food crops that are used for domestic consumption and for export as well as those crops used as raw material for domestic agro-industries. Based on their biological classifications these 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 2021/22(2014 E.C).

3.2 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, 2021/22(2014 E.C)

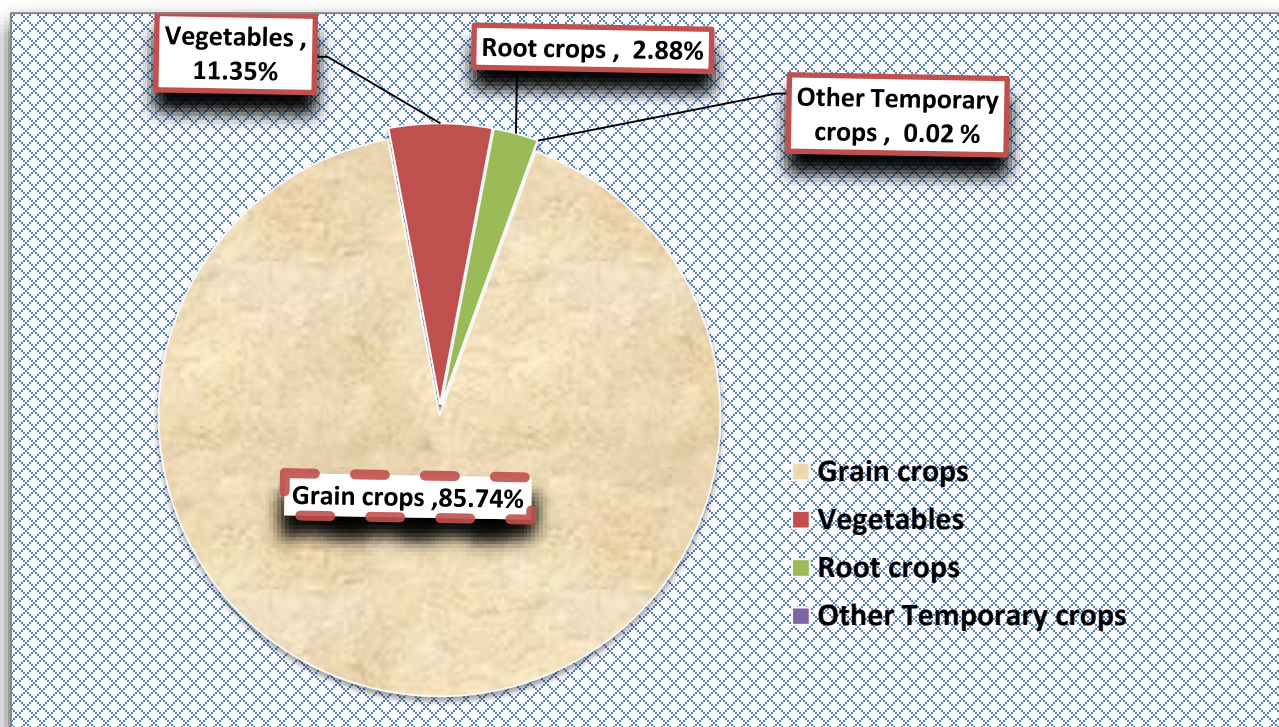


Summary Table 1. Estimates of Total Cropland Area by Major Crop Category of Meher Season for Commercial Farms: Country Level, 2021/22(2014 E.C)

Crop Type	Area In Hectare	Percentage
Grain Crops	650,076.18	97.63
Vegetables	13,046.56	1.96
Root Crops	2,750.18	0.41
Other Temporary Crops	0.05	0.00
All temporary crops	665,872.97	100.00

According to the results of the 2021/22(2014 E.C) Large and Medium Scale Commercial Farms sample survey, the total area covered by grain crops was found to be **650,076.18** hectares (97.63% of the total country level temporary crops covered land area), from which a total of **13,579,881.18** of production, (85.74 % of the total country level production of temporary crops) was obtained during 2021/22(2014 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 2021/22(2014 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, 2021/22(2014 E.C)



Summary Table 2. Estimates of Total Production Harvested by Major Crop Category and Meher Season for Commercial Farms: Country Level 2021/22(2014 E.C)

Crop Type	Production in quintals	Percentage
Grain crops	13,579,881.18	85.74
Vegetables	1,798,272.46	11.35
Root crops	456,710.58	2.88
Other Temporary crops	2,680.00	0.02
All temporary crops	15837544.22	100.00

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 **325,586.25** hectares of land area, from which a production of **10,142,138.69** was obtained during 2021/22(2014 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 2021/22(2014 E.C)commercial farms sample survey, pulses and oil crops covered a total land area of **60,595.12** and **263,894.81** hectares, from which a total production of **1,251,778.79** and **2,185,963.70** Quintals was obtained during the 2021/22(2014 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 **13,046.56** hectares of land from which a total volume of **1,798,272.46** Quintals were obtained in 2021/22(2014 E.C) by Meher Season's harvest

c) Root Crops

Production of **456,710.58** 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 **2,750.18** hectares, from which a total Production of **456,710.58** quintals was obtained.

3.3 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 **367,377.07** Hectares with a total production of **71844636.32** Quintals obtained from commercial farms during the year 2021/22(2014 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 2021/22(2014 E.C)

<i>Crop Type</i>	<i>Area in hectare</i>	<i>Percentage</i>
Fruit crops	33,957.55	9.24
Cash crops	127,022.96	34.58
Industrial crops	206,374.90	56.18
Other Permanent crops	20.66	0.01
<i>All permanent crops</i>	<i>367,376.07</i>	<i>100.00</i>

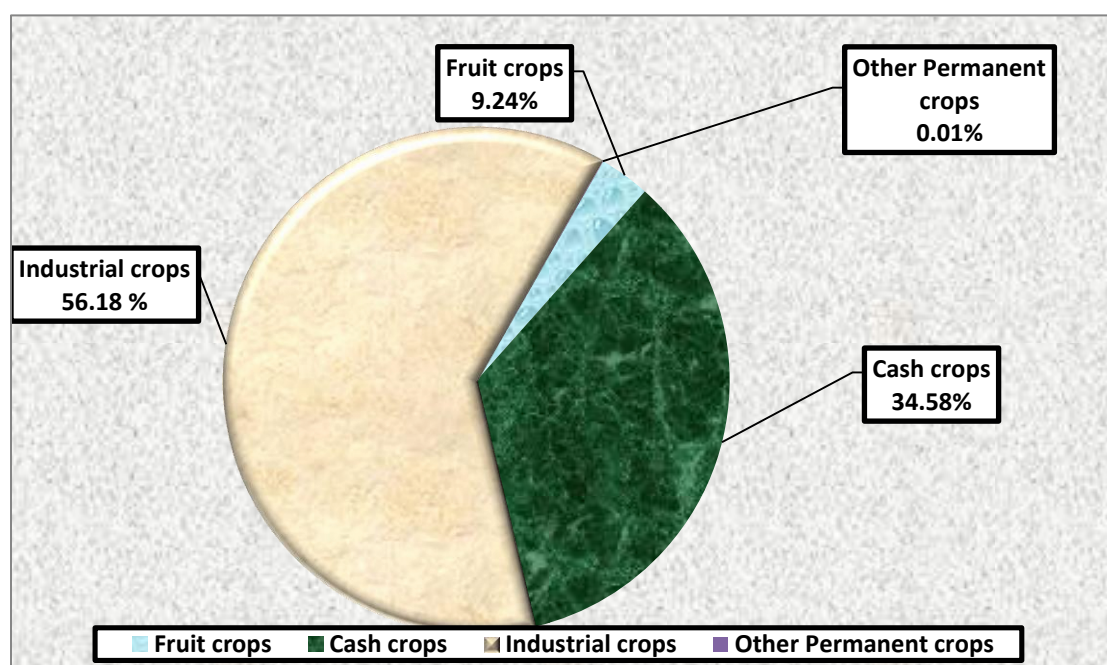
a) Fruit Crops

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 **33,957.55** Hectares (**9.24 %** of the total crop land area under permanent crops), with about **4,143,648.04** quintals of production (**5.77 %** of the total permanent crops production), during the 2021/22(2014 E.C) Meher Season harvest. Mangoes, Oranges and Papaya 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 2021/22(2014 E.C)



b) 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 **127,022.96** hectares, with a total production estimated at **1399025.183** quintals of production, contributing about **34.58%** and **1.95%** to the total cropland area and production of permanent crops, respectively (For details see Summary Table 3).

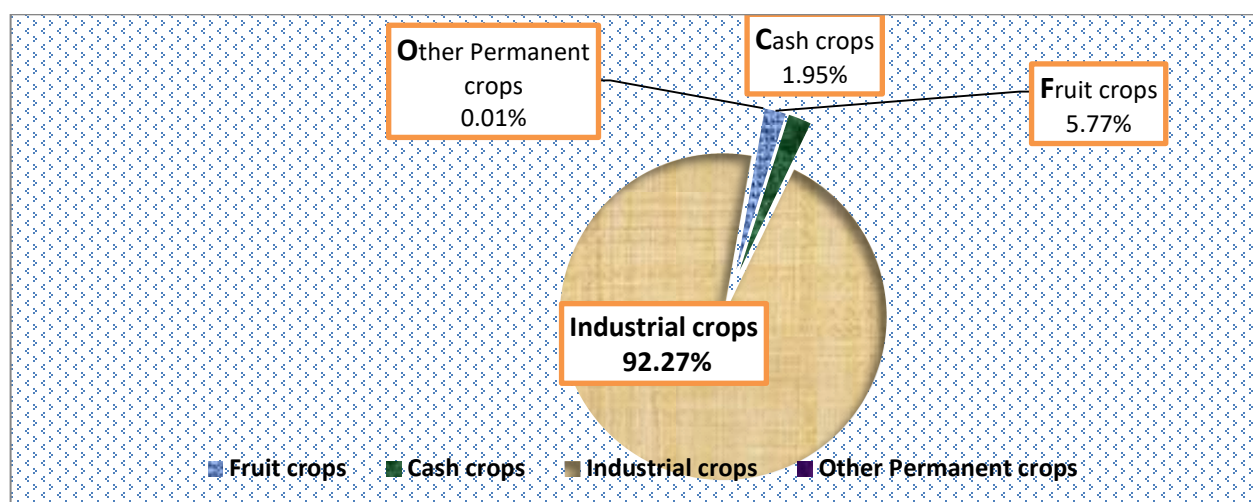
c) Industrial Crops

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 **206,374.90** hectares (**56.18 %** of the total area under permanent crops), with a total production of **66301575.6** Quintals (**92.27 %** of the total permanent crops production), during the 2021/22 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 2021/22(2014 E.C)*

<i>Crop Type</i>	<i>production in quintals</i>	<i>Percentage</i>
Fruit crops	4,143,648.04	5.77
Cash crops	1399025.183	1.95
Industrial crops	66301575.6	92.27
Other Permanent crops	387.50	0.01
<i>All permanent crops</i>	71844636.32	100.00

Fig4:- Percentage Distribution of Production under Permanent and Industrial of Permanent Crops By Major Crop Category for Commercial Farms: National Level 2021/22(2014 E.C)



3.4 Comparison of the current year (2021/22) Grain Crops yield with last Year (2020/21), estimates.

Table A of the report attempts to compare area covered and total production estimates of selected important food crops obtained from the 2021/22(2014 E.C) commercial farms Survey with last year, i.e. 2020/21(2013 E.C.) Area and crop production estimates of the same crops.

The estimated cropped land area obtained this year for grain crops shows decrement by **3.13 %** and grain crops production obtained have also decreased by **3.86 %** over last year 2020/21 estimate.

3.5 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 2021/22(2014 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.

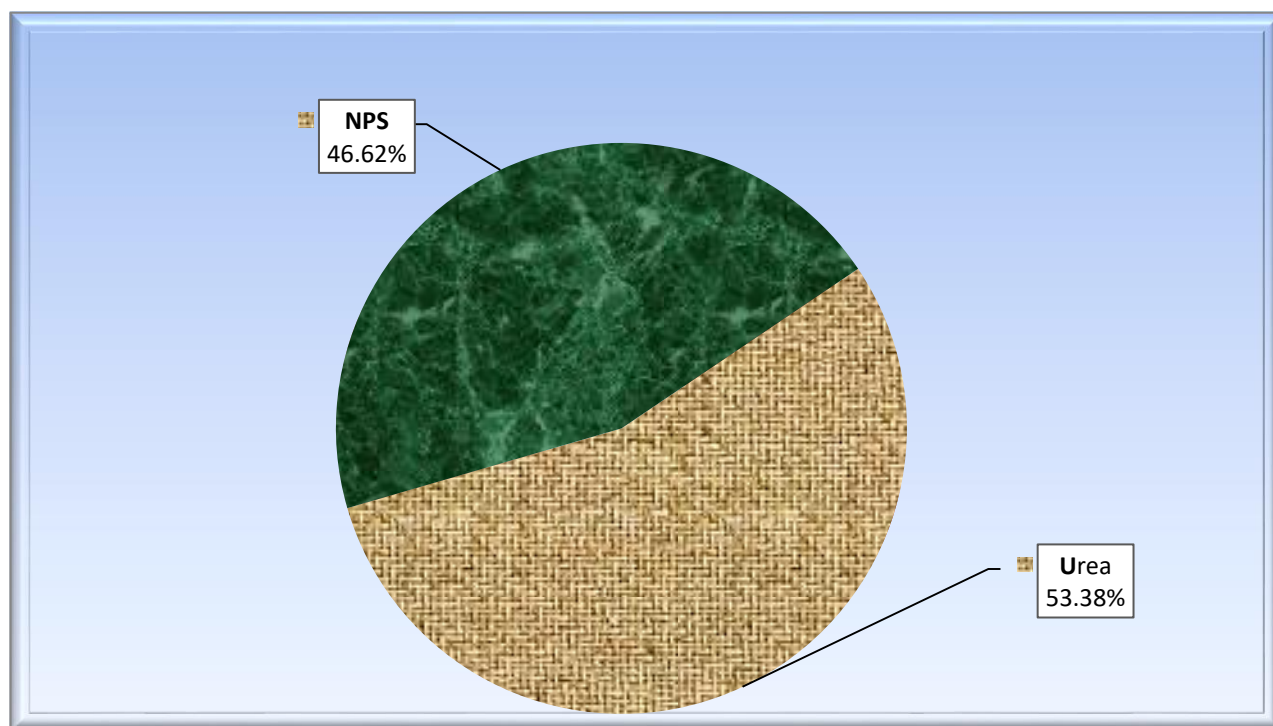
3.5.2 Cropland Area under Different Agricultural Input and Farm Management Practices

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 in organic 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 2021/22(2014 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 **650,546.20** and **568,214.65** hectares, which accounted for **53.38%** and **46.62%** of the total cropland area reported for Commercial farms at country level, during the 2021/22 Meher Season harvest. (For details see Table 3 on Appendix IV)

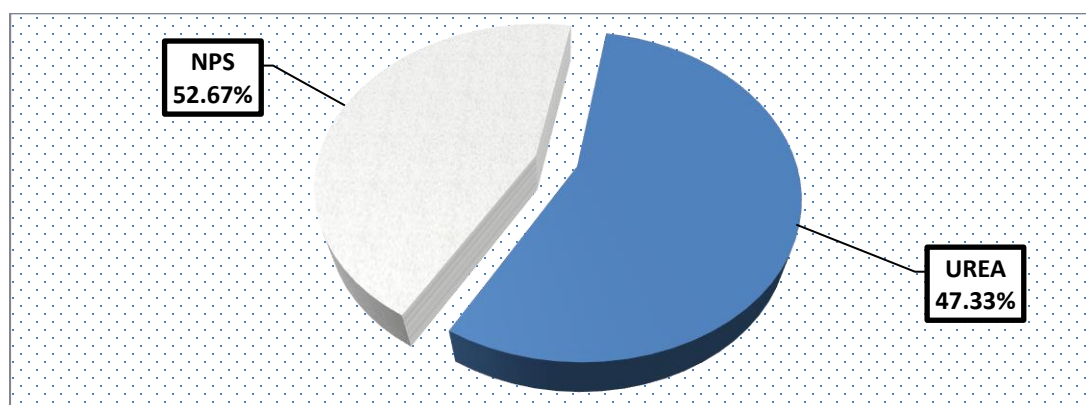
Fig 5. percentage distribution of chemical fertilizers applied crop land area by type of fertilizer for meher season for commercial farms at country level 2014E.C (2021/22).



b) Quantity of Chemical Fertilizer Applied

According to the results of the survey, the total quantity of chemical fertilizers applied during 2021/22 Meher Season for commercial farms was found to be **1,519,018.31** quintals. Out of which the share of NPS was **52.67%** while the remaining **47.33%** share was found to be the contribution of UREA. (For details see Table 3 on appendix and Figure 6).

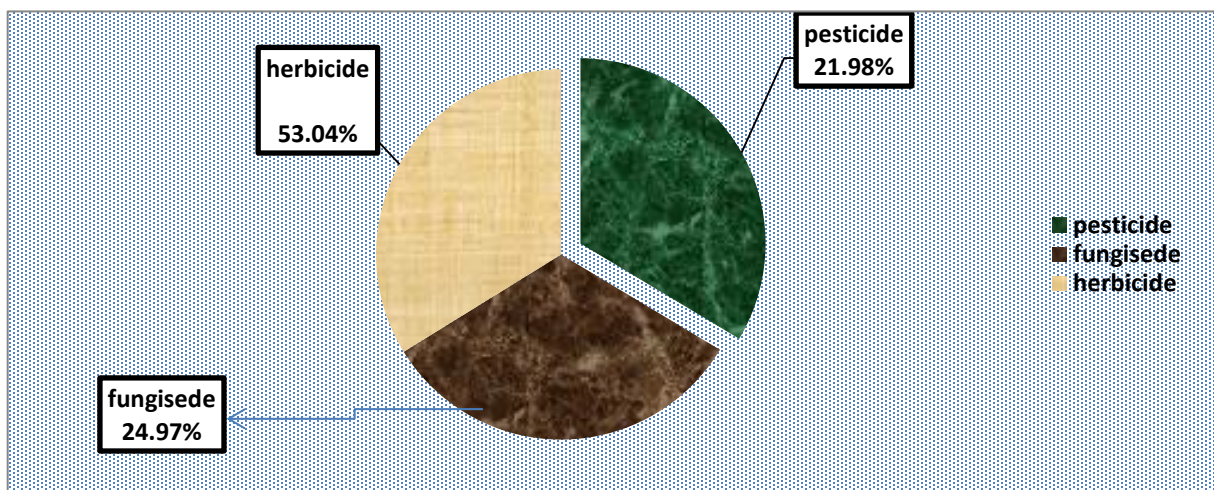
Fig 6. percentage distribution of Quantity of chemical fertilizers applied by type of fertilizer for meher season for commercial farms at country level 2014 E.C (2021/22)



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 **460,066.94** Hectares, **522,609.89** Hectares and **1,109,974.75** hectares of cropland area, respectively. (For details see Table 3 on appendix and Figure 7).

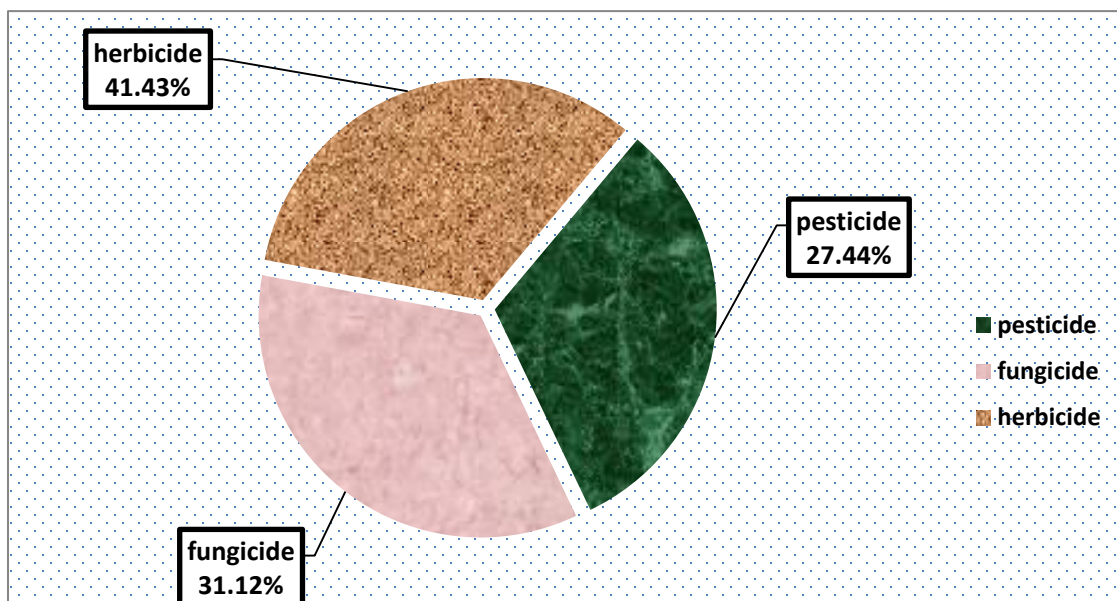
Fig7. percentage distribution of chemicals treated crop land area by type of chemicals used for meher season for commercial farm at country level 2021/22(2014 E.C).



d) Quantity of Chemicals used

The total quantity of chemicals used during 2021/22(2014 E.C) for commercial farms was found to be **2,565,885.53** Quintals during Meher Season, out of which the share of pesticides and herbicides was **27.44%** and **41.43%** respectively. While the remaining **31.12%**, 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 2021/22(2014 E.C)



Appendix I

Estimation Procedures of Tables, Ratios and sampling

Error

Large and medium Scale Commercial Farms

2021/22(2014 E.C)

The following formulas are used for estimation.

1. Estimating the total (For crop)

n_h

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

In which

$$w_{hi} = \frac{M_{hi}}{M_h} \quad \text{Is the weight}$$

Where h = Represents region n_h = Total

number of farms covered in the region

M_h = Measure of size of h^{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^{th} region

y_{hi} = Total for the variable in i^{th} farm h^{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^{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 -th farm h^{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 2021/22

Central Statistical Agency

Large and Medium Scale Commercial Farm Sample Survey

2021/22(2014 E.C)

**CENTRAL STATISTICAL AGENCY
2014 LARGE AND MEDIUM COMMERCIAL FARM SURVEY**

Area Identification	Name	Code
Region		
Zone		
woreda		
Area type Town= (if it is town, please insert the town code) Rural=88 if town		
Kebele		
Farm Name		
CSA Branch Name		
Data collector		
Supervisor		
Statistician		

Part 1. Area Identification

1	2	3	3.1	4	5	6	7	8
Region	Zone	woreda	Location/Area type Town= (if it is town, please insert the town code) Rural=88 if town	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

Part 2. Farm Management and crop production for Temporary and permanent crops

1	2	3	4	5	6	7	8	9	10	11	12	13	14		
Parcel and field Id	Crop		Type of crop seed Local seed=1 Best seed=2		Amount of seed used (kilo gram) For permanent crop use code -9	Area of land in Hectare				Amount of production produced/will produced in Quintal (100KG=1 Quintal) <i>For coffee use jenfel]</i>	Crop Production per hectare in Quintal (100KG=1 quintal) <i>For all permanent crops production will be filled as field level</i>	Is there any crop damage yes =1 No =2	Is there if Crop damage (for column 8 code 1)		
	Name	code	Name	Code		GPS measurement	Number of Lalo tree(in number)	Average area coverage of one Lalo tree in meter SQr)	Area in Interview				Main cause of Crop Damage	Code	Percentage of crop Damage

Part 3:-Agricultural Input utilization

1	2	3	4	5	6	7	8	
Parcel and field Id	Name of input	Code	Crops used input listed in Column 2			Utilized input		
			Crop name	Code	Area inn Hectare (depending on GPS measurement)	Measurement unit kilogram=1 Liter=2 Quintal=3 Other =4	Amount	Total price(in Birr)

Appendix III

Number of planned and covered

Large and medium Scale Commercial Farms

2021/22

Region	Number of	
	Planned	Covered
Tigray	896	704
Afar	128	131
Amhara	893	886
Oromya	736	769
Somali	18	30
Benishangul -Gumuz	174	43
SNNPR	303	331
Gambella	205	193
Harari	22	13
Dire Dawa	6	31
Sidama	25	66
Total	3406	3197

Appendix IV

Statistical Table for

Large and medium Scale Commercial Farms

2021/22(2014 E.C)

**Table 1 Estimates of Cropland Area and Production of Crops for Commercial Farms,
2021/22(2014 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)		
	2014	2013	% Change	2014	2013	% Change	2014	2013	% Change
Total....	1,033,250.04	1,045,568.09	(1.18)	87,682,180.54	87,542,615.76	0.16			
Grain crops.	650,076.18	671,093.47	(3.13)	13,579,881.18	14,125,163.50	(3.86)			
Cereals.	325,586.25	325,924.06	(0.10)	10,142,138.69	10,411,293.59	(2.59)			
Teff...	8,974.79	7,694.50	16.64	125,030.05	116,641.04	7.19	13.87	15.13	(8.33)
Barley	6,657.52	3,434.04	93.87	159,038.50	99,014.42	60.62	22.79	28.38	(19.70)
Wheat.	113,124.00	108,666.32	4.10	3,445,743.89	3,620,415.02	(4.82)	30.45	33.31	(8.59)
Maize...	89,754.27	94,621.19	(5.14)	3,537,535.49	3,702,092.59	(4.44)	39.43	39.14	0.74
Sorghum...	99,533.77	107,010.28	(6.99)	2,737,879.91	2,756,473.06	(0.67)	28.18	25.14	12.09
Finger millet...	2,200.16	399.50	450.73	35,340.40	9,806.04	260.39	16.06	24.55	(34.58)
Oats / 'Aja'...	-	1,255.33	-	-	25,150.20	-	-	20.03	-
Rice...	5,341.74	2,842.90	87.90	101,570.45	81,701.22	24.32	19.12	29.05	(34.18)
Pulse ...	60,595.12	58,646.66	3.32	1,251,778.79	1,280,915.36	(2.27)			-
Horse / Faba beans...	532.18	779.50	(31.73)	14,361.94	21,051.30	(31.78)	26.99	27.01	(0.07)
Field Peas...	81.90	125.68	(34.83)	2,762.01	3,746.50	(26.28)	33.72	29.81	13.12
W/Haricot bean	9,050.75	8,897.83	1.72	248,205.22	227,343.41	9.18	27.42	25.55	7.32
R/Haricot bean...	5,295.75	4,272.99	23.94	17,943.67	2,323.99	672.11	3.39	0.54	527.78
B/Haricot bean...	-	-	-	-	-	-	-	-	-
Chick peas...	8,954.76	8,274.35	8.22	144,543.16	133,613.57	8.18	16.13	16.14	(0.06)
Lentils...	-	1.30	-	-	21.52	-	-	16.55	-
Vetch / Grass peas	-	13.92	-	-	247.16	-	-	17.76	-
Soya beans	14,360.47	24,868.39	(42.25)	376,779.70	624,024.06	(39.62)	26.25	25.10	4.58
Fenugreek...	-	3.90	-	-	38.80	-	-	9.95	-
Mung bean/"Masho"	22,319.31	11,408.79	95.63	447,183.09	268,505.06	66.55	20.04	23.53	(14.83)
Gibto.	-	-	-	-	-	-	-	-	-
Oilseeds....	263,894.81	286,522.75	(7.90)	2,185,963.70	2,432,954.55	(10.15)			-
Niger seed/neug/.....	537.42	527.60	1.86	5,719.72	5,352.96	6.85	10.64	10.15	4.83
Linseed....	348.03	335.34	3.78	6,431.25	7,407.09	(13.17)	18.48	22.09	(16.34)
Groundnuts.	1,014.66	1,299.10	(21.90)	14,788.44	16,160.24	(8.49)	14.57	12.44	17.12
Safflower...	182.95	334.25	(45.27)	2,981.09	7,959.10	(62.54)	18.37	28.17	(34.79)
Sesame....	258,750.38	280,330.12	(7.70)	2,102,305.77	2,331,185.73	(9.82)	7.20	7.74	(6.98)
Rape seed.....	3,061.37	3,696.34	(17.18)	53,737.43	64,889.43	(17.19)	17.55	17.56	(0.06)
Vegetables...				1,798,272.46					-

	13,046.56	8,614.15	51.45		880,123.43	104.32			
Lettuce.....	911.28	289.75	214.51	452,482.00	88,699.59	410.13	496.53	306.12	62.20
Head cabbage...	293.41	214.97	36.49	82,320.95	53,709.20	53.27	282.71	252.42	12.00
Ethiopian cabbage....	941.65	17.39	5,314.89	80,336.76	1,493.74	5,278.23	85.31	85.90	(0.69)
Tomatoes...	2,140.77	1,684.04	27.12	554,800.96	555,696.46	(0.16)	260.46	335.64	(22.40)
Green peppers.	2,558.16	367.44	596.21	542,295.02	83,933.27	546.10	209.23	209.21	0.01
Red peppers....	6,160.19	6,019.87	2.33	84,361.38	77,996.56	8.16	13.69	12.96	5.63
Swiss chard.....	41.09	20.69	98.60	1,675.39	18,594.61	(90.99)	48.68	1,365.76	(96.44)
Root crops...	2,750.18	1,601.34	71.74	456,710.58	379,592.34	20.32			-
Beetroot.....	515.00	0.43	119,667.44	20,000.00	17.51	114,120.45	38.83	40.72	(4.64)
Carrot.....	44.95	0.61	7,268.85	9,875.00	115.85	8,423.95	219.69	189.92	15.68
Onion...	1,415.30	1,418.76	(0.24)	381,009.32	355,571.21	7.15	257.30	235.55	9.23
Potatoes.....	50.01	71.60	(30.15)	8,140.03	12,101.69	(32.74)	162.77	169.02	(3.70)
Garlic....	632.52	81.70	674.20	37,686.23	542.56	6,846.00	59.58	6.64	797.29
Taro Godere'....	-	-	-	-	-	-	-	-	-
Sweet potatoes..	92.40	28.24	227.20	-	11,243.53	-	-	398.14	-
Other Temporary crops...	0.05	7.43	(99.33)	2,680.00	175.63	1,425.94			-
Permanent crops.....	367,377.07	364,251.70	0.86	71,844,636.32	72,157,560.86	(0.43)			-
Fruit crops.....	33,957.55	11,816.90	187.36	4,143,648.04	1,518,678.58	172.85			-
Avocado....	3,931.57	1,673.56	134.92	315,867.19	138,495.47	128.07	80.73	83.74	(3.59)
Bananas....	5,720.88	3,238.83	76.63	417,515.13	280,139.46	49.04	72.96	86.47	(15.62)
Guava.....	161.19	0.29	55,482.76	4,739.84	8.50	55,662.82	29.41	29.31	0.34
Lemons.....	344.04	129.69	165.28	27,028.55	10,341.64	161.36	77.85	77.86	(0.01)
Mangoes....	9,550.57	3,035.48	214.63	472,949.21	295,831.87	59.87	49.64	101.25	(50.97)
Oranges....	6,934.47	2,450.36	183.00	615,278.46	450,219.86	36.66	89.35	189.28	(52.79)
Papayas...	6,549.73	1,266.00	417.36	2,277,682.22	343,297.21	563.47	347.75	271.17	28.24
Pineapples.	765.10	22.70	3,270.48	12,587.44	344.57	3,553.09	16.45	15.18	8.37
Cash crops...	333,398.86	352,351.56	(5.38)	67,359,776.80	70,638,832.29	(4.64)			-
Chat....	2.00	16.96	(88.21)	-	2,019.49	-	-	119.07	-
Coffee.....	123,140.46	119,238.20	3.27	958,787.66	880,017.32	8.95	7.79	7.38	5.50
Tea.....	3,880.50	7,070.49	(45.12)	440,237.52	759,481.48	(42.03)	113.45	107.42	5.61
Hops / 'Geshe'...	-	1.12	-	-	8.50	-	-	7.59	-
Enset....	1.00	-	-	-	-	-	-	-	-
Sugar cane.....	51,657.43	53,003.23	(2.54)	63,485,364.69	65,613,757.17	(3.24)	1,228.97	1,237.92	(0.72)
Cotton...	154,717.47	173,021.57	(10.58)	2,816,210.91	3,383,548.32	(16.77)	19.36	20.69	(6.43)
Other Permanent crops...	20.66	83.24	(75.18)	387.50	49.99	675.16	31.68	0.15	21,020

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2014E.C .(2021/22))National

	Hectares	Quintals	QT/HA
Total	1,033,250.04	87,682,180.54	
Grains	650,076.18	13,579,881.18	
Cereals	325,586.25	10,142,138.69	
Teff	8,974.79	125,030.05	13.87
Barley	6,657.52	159,038.50	22.79
Wheat	113,124.00	3,445,743.89	30.45
Maize	89,754.27	3,537,535.49	39.43
Sorghum	99,533.77	2,737,879.91	28.18
Finger millet	2,200.16	35,340.40	16.06
Oats/'Aja' /	-	-	-
Rice	5,341.74	101,570.45	19.12
Pulse	60,595.12	1,251,778.79	
Horse/Faba beans	532.18	14,361.94	26.99
Field peas	81.90	2,762.01	33.72
W/Haricot bean	9,050.75	248,205.22	27.42
R/Haricot bean	5,295.75	17,943.67	3.39
B/Haricot bean	-	-	-
Chick peas	8,954.76	144,543.16	16.13
Lentiles	-	-	-
Vetch/Grass peas	-	-	-
Soya beans	14,360.47	376,779.70	26.25
Fenugreek	-	-	-
Mung bean/"Masho"	22,319.31	447,183.09	20.04
Gibto	-	-	-
Oile seeds	263,894.81	2,185,963.70	
Nueg	537.42	5,719.72	10.64
Linseed	348.03	6,431.25	18.48
Ground nuts	1,014.66	14,788.44	14.57
Safflower	182.95	2,981.09	18.37
Sesame	258,750.38	2,102,305.77	7.20
Rapeseed	3,061.37	53,737.43	17.55
Vegetables	13,046.56	1,798,272.46	
Lettuce	911.28	452,482.00	496.53
Head Cabbage	293.41	82,320.95	282.71
Ethiopian Cabbage	941.65	80,336.76	85.31
Tomatoes	2,140.77	554,800.96	260.46
Green peppers	2,558.16	542,295.02	209.23
Red papers	6,160.19	84,361.38	13.69
Swiss chard	41.09	1,675.39	48.68
Root crops	2,750.18	456,710.58	
Beet root	515.00	20,000.00	38.83
Carrot	44.95	9,875.00	219.69
Onion	1,415.30	381,009.32	257.30
Potatoes	50.01	8,140.03	162.77
Garlic	632.52	37,686.23	59.58
Taro/'Godere' /	-	-	-
Sweet potatoes	92.40	-	-
Other Temporary	0.05	2,680.00	
Permanent crops	367,377.07	71,844,636.32	
Fruit crops	33,957.55	4,143,648.04	
Avocado	3,931.57	315,867.19	80.73
Bananas	5,720.88	417,515.13	72.96
Guava/'Zeytun' /	161.19	4,739.84	29.41
Lemons	344.04	27,028.55	77.85
Mangos	9,550.57	472,949.21	49.64
Oranges	6,934.47	615,278.46	89.35
Papayas	6,549.73	2,277,682.22	347.75
Pineapples	765.10	12,587.44	16.45
Cash crpops	333,398.86	67,359,776.80	
Chat	2.00	-	-
Coffee	123,140.46	958,787.66	5.02

Tea	3,880.50	440,237.52	113.45
Hopes/'Gesho'/'	-	-	-
Enset	1.00	-	-
Sugar cane	51,657.43	63,485,364.69	1,228.97
Cotton	154,717.47	2,816,210.91	19.36
Other permanent crops	20.66	387.50	31.68

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2014E.C .(2021/22))Afar			
	Area	Production	Yield
	Hectares	Quintals	QT/HA
Total	73,798.18	6,459,491.75	
Grains	9,738.65	280,988.28	
Cereals	9,488.65	278,488.28	
Teff	7.00	-	-
Barley	-	-	-
Wheat	7,918.00	241,688.28	30.52
Maize	1,563.65	36,800.00	23.53
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	250.00	2,500.00	
Nueg	-	-	-
Linseed	-	-	-
Ground nuts	-	-	-
Safflower	-	-	-
Sesame	250.00	2,500.00	10.00
Rapeseed	-	-	-
Vegetables	2,208.00	286,079.52	
Lettuce	-	-	-
Head Cabbage	-	-	-
Ethiopian Cabbage	-	-	-
Tomatoes	-	-	-
Green peppers	2,208.00	286,079.52	129.57
Red papers	-	-	-
Swiss chard	-	-	-
Root crops	15.00	-	
Beet root	-	-	-
Carrot	-	-	-
Onion	15.00	-	-
Potatoes	-	-	-
Garlic	-	-	-
Taro/'Godere'/	-	-	-
Sweet potatoes	-	-	-
Other Temporary	-	-	
Permanent crops	61,836.53	5,892,423.95	
Fruit crops	677.00	65,737.70	
Avocado	-	-	-
Bananas	-	-	-
Guava/'Zeytun'/	-	-	-
Lemons	-	-	-
Mangos	650.00	60,977.70	93.81
Oranges	27.00	4,760.00	176.30
Papayas	-	-	-
Pineapples	-	-	-
Cash crpops	61,159.53	5,826,686.25	
Chat	-	-	-
Coffee	-	-	-
Tea	-	-	-
Hopes/'Geshe'/	-	-	-
Enset	-	-	-

Sugar cane	4,196.00	4,361,200.00	1,039.37
Cotton	56,963.53	1,465,486.25	25.73
Other permanent crops	-	-	-

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2014 E.C. (2021/22)Amhara			
	Area	Production	Yield
	Hectares	Quintals	QT/HA
Total	200,591.99	2,888,615.90	
Grains	181,685.52	2,694,483.66	
Cereals	61,275.73	1,599,046.17	
Teff	3,376.74	37,653.06	11.15
Barley	321.13	9,523.04	29.65
Wheat	3,646.43	52,519.18	14.40
Maize	19,867.29	675,284.76	33.99
Sorghum	33,907.40	821,254.34	24.22
Finger millet	116.75	2,005.40	17.18
Oats/'Aja'/'	-	-	-
Rice	39.99	806.39	20.16
Pulse	17,401.70	364,407.16	
Horse/Faba beans	4.90	75.00	15.31
Field peas	-	-	-
W/Haricot bean	2,446.65	24,739.90	10.11
R/Haricot bean	2,675.28	15,075.65	5.64
B/Haricot bean	-	-	-
Chick peas	4,947.98	-	-
Lentiles	-	-	-
Vetch/Grass peas	-	-	-
Soya beans	5,896.02	317,539.54	53.86
Fenugreek	-	-	-
Mung bean/"Masho"	1,430.87	6,977.07	4.88
Gibto	-	-	-
Oile seeds	103,008.09	731,030.33	
Nueg	56.03	562.48	10.04
Linseed	58.00	-	-
Ground nuts	45.10	894.15	19.83
Safflower	64.13	1,136.26	17.72
Sesame	102,784.83	728,437.44	7.09
Rapeseed	-	-	-
Vegetables	848.29	74,604.15	
Lettuce	-	-	-
Head Cabbage	1.50	-	-
Ethiopian Cabbage	-	-	-
Tomatoes	80.73	-	-
Green peppers	19.98	-	-
Red papers	746.08	74,604.15	99.99
Swiss chard	-	-	-
Root crops	458.76	36,908.61	
Beet root	-	-	-
Carrot	-	-	-
Onion	1.75	388.61	222.06
Potatoes	0.51	-	-
Garlic	456.50	36,520.00	80.00
Taro/'Godere'/'	-	-	-
Sweet potatoes	-	-	-
Other Temporary	-	-	-
Permanent crops	17,599.42	82,619.48	
Fruit crops	4,470.03	80,444.48	
Avocado	185.45	-	-
Bananas	240.54	-	-

Guava/'Zeytun'/	0.19	-	-
Lemons	81.00	-	-
Mangos	1,385.52	-	-
Oranges	898.32	80,444.48	89.55
Papayas	1,679.01	-	-
Pineapples	-	-	-
Cash crops	13,129.39	2,175.00	
Chat	-	-	-
Coffee	50.81	-	-
Tea	-	-	-
Hopes/'Geshe'/	-	-	-
Enset	-	-	-
Sugar cane	96.28	-	-
Cotton	12,982.30	2,175.00	0.17
Other permanent crops	-	-	-

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2014 E.C(2021/22) Oromia			
	Area	Production	Yield
	Hectares	Quintals	QT/HA
Total	318,488.63	69,988,620.49	
Grains	190,012.78	5,284,279.14	
Cereals	161,599.78	5,120,978.66	
Teff	2,296.05	43,326.80	18.87
Barley	4,474.65	97,451.72	21.78
Wheat	96,891.43	2,945,995.35	30.41
Maize	41,309.66	1,473,001.01	35.66
Sorghum	10,671.85	457,965.69	42.91
Finger millet	2,083.41	33,335.00	16.00
Oats/'Aja'/	-	-	-
Rice	3,872.73	69,903.09	18.05
Pulse	14,674.73	19,240.94	
Horse/Faba beans	527.28	14,286.94	27.10
Field peas	-	-	-
W/Haricot bean	2,533.37	3,145.33	1.24
R/Haricot bean	1,926.68	462.81	0.24
B/Haricot bean	-	-	-
Chick peas	1,241.01	-	-
Lentiles	-	-	-
Vetch/Grass peas	-	-	-
Soya beans	7,840.68	16.05	-
Fenugreek	-	-	-
Mung bean/"Masho"	605.71	1,329.81	2.20
Gibto	-	-	-
Oile seeds	13,738.27	144,059.54	
Nueg	440.29	4,894.90	11.12
Linseed	290.03	6,431.25	22.17
Ground nuts	965.36	13,840.96	14.34
Safflower	4.07	25.00	6.14
Sesame	8,977.15	65,130.00	7.26
Rapeseed	3,061.37	53,737.43	17.55
Vegetables	7,318.27	1,230,441.89	
Lettuce	911.28	452,482.00	496.53
Head Cabbage	94.35	33,766.20	357.88
Ethiopian Cabbage	940.59	80,163.14	85.23
Tomatoes	1,319.76	512,620.66	388.42
Green peppers	138.74	146,222.28	1,053.93
Red papers	3,879.55	3,532.49	0.91
Swiss chard	34.00	1,655.12	48.68
Root crops	1,344.79	170,193.80	
Beet root	515.00	20,000.00	38.83
Carrot	44.95	9,875.00	219.69
Onion	492.99	131,505.82	266.75
Potatoes	34.85	7,656.75	219.71
Garlic	174.00	1,156.23	6.65
Taro/'Godere'/	-	-	-

Sweet potatoes	83.00	-	-
Other Temporary	-	-	-
Permanent crops	119,812.79	62,845,569.81	
Fruit crops	19,514.00	3,440,384.23	
Avocado	2,906.47	242,030.59	83.27
Bananas	1,923.60	121,783.47	63.31
Guava/'Zeytun' /	-	-	-
Lemons	225.16	26,168.78	116.22
Mangos	5,075.32	384,786.25	75.82
Oranges	4,724.45	428,127.43	90.62
Papayas	4,657.90	2,237,484.71	480.36
Pineapples	1.10	3.00	2.73
Cash crops	100,298.79	59,522,451.73	
Chat	2.00	-	-
Coffee	49,492.53	458,135.85	9.26
Tea	1,724.24	259,657.33	150.59
Hopes/'Gesho' /	-	-	-
Enset	-	-	-
Sugar cane	47,362.05	59,124,164.69	1,248.34
Cotton	1,717.97	21,317.84	12.41
Other permanent crops	-	45.72	-

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2014E.C .(2021/22)Somalia			
	Area	Production	Yield
	Hectares	Quintals	QT/HA
Total	5,151.62	331,035.65	
Grains	3,114.09	95,840.09	
Cereals	3,113.09	95,840.09	
Teff	-	-	-
Barley	-	-	-
Wheat	1,967.00	53,671.92	27.29
Maize	768.09	36,268.17	47.22
Sorghum	378.00	5,900.00	15.61
Finger millet	-	-	-
Oats/'Aja' /	-	-	-
Rice	-	-	-
Pulse	1.00	-	-
Horse/Faba beans	-	-	-
Field peas	-	-	-
W/Haricot bean	-	-	-
R/Haricot bean	1.00	-	-
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	27.78	5,565.54	

Lettuce	-	-	-
Head Cabbage	0.12	-	-
Ethiopian Cabbage	-	-	-
Tomatoes	21.93	2,735.35	124.73
Green peppers	5.73	2,830.19	493.92
Red papers	-	-	-
Swiss chard	-	-	-
Root crops	494.05	133,418.91	
Beet root	-	-	-
Carrot	-	-	-
Onion	494.05	133,418.91	270.05
Potatoes	-	-	-
Garlic	-	-	-
Taro/'Godere'/	-	-	-
Sweet potatoes	-	-	-
Other Temporary	-	-	
Permanent crops	1,515.70	96,211.11	
Fruit crops	1,515.70	96,211.11	
Avocado	5.95	-	-
Bananas	-	-	-
Guava/'Zeytun'/	161.00	4,739.84	29.44
Lemons	-	-	-
Mangos	258.29	7,568.91	29.30
Oranges	1,082.81	83,902.36	77.49
Papayas	7.65	-	-
Pineapples	-	-	-
Cash crops	-	-	
Chat	-	-	-
Coffee	-	-	-
Tea	-	-	-
Hopes/'Geshe'/	-	-	-
Enset	-	-	-
Sugar cane	-	-	-
Cotton	-	-	-
Other permanent crops	-	-	-

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2014E.C .(2021/22)Benishangul G.			
	Area	Production	Yield
	Hectares	Quintals	QT/HA
Total	4,386.44	105,045.84	
Grains	3,678.51	100,267.41	
Cereals	3,118.39	63,035.64	
Teff	-	-	-
Barley	-	-	-
Wheat	-	-	-
Maize	510.62	25,581.64	50.10
Sorghum	2,607.77	37,454.00	14.36
Finger millet	-	-	-
Oats/'Aja'/	-	-	-
Rice	-	-	-
Pulse	498.74	36,690.35	
Horse/Faba beans	-	-	-
Field peas	-	-	-
W/Haricot bean	-	-	-
R/Haricot bean	-	-	-
B/Haricot bean	-	-	-
Chick peas	-	-	-
Lentiles	-	-	-
Vetch/ Grass peas	-	-	-

Soya beans	493.11	36,654.65	74.33
Fenugreek	-	-	-
Mung bean/"Masho"	5.63	35.70	6.34
Gibto	-	-	-
Oile seeds	61.38	541.42	
Nueg	33.35	262.34	7.87
Linseed	-	-	-
Ground nuts	1.93	6.00	3.11
Safflower	-	-	-
Sesame	26.10	273.08	10.46
Rapeseed	-	-	-
Vegetables	707.93	4,778.43	
Lettuce	-	-	-
Head Cabbage	-	-	-
Ethiopian Cabbage	-	-	-
Tomatoes	-	-	-
Green peppers	-	-	-
Red papers	707.93	4,778.43	6.75
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 crops	-	-	
Chat	-	-	-
Coffee	-	-	-
Tea	-	-	-
Hopes/'Geshe' /	-	-	-
Enset	-	-	-
Sugar cane	-	-	-
Cotton	-	-	-
Other permanent crops	-	-	-

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2014E.C .(2021/22)SNNP			
	Area	Production	Yield
	Hectares	Quintals	QT/HA
Total	142,636.52	3,226,481.04	
Grains	43,308.73	1,587,693.05	
Cereals	33,775.09	1,153,435.38	
Teff	3,028.73	39,806.53	13.14
Barley	836.04	21,396.22	25.59
Wheat	2,604.35	149,823.88	57.53
Maize	22,253.02	826,015.40	37.12
Sorghum	3,656.87	85,590.94	23.41
Finger millet	-	-	-
Oats/'Aja' /	-	-	-
Rice	1,396.08	30,802.41	22.06
Pulse	8,152.55	425,656.03	

Horse/Faba beans	-	-	-
Field peas	81.90	2,762.01	33.72
W/Haricot bean	3,944.80	219,956.63	55.76
R/Haricot bean	624.11	1,842.21	2.95
B/Haricot bean	-	-	-
Chick peas	2,723.37	143,774.33	52.79
Lentiles	-	-	-
Vetch/Grass peas	-	-	-
Soya beans	118.46	22,493.82	189.89
Fenugreek	-	-	-
Mung bean/"Masho"	659.91	34,827.03	52.78
Gibto	-	-	-
Oile seeds	1,381.09	8,601.64	
Nueg	-	-	-
Linseed	-	-	-
Ground nuts	1.39	44.33	31.89
Safflower	4.95	182.59	36.89
Sesame	1,374.75	8,374.72	6.09
Rapeseed	-	-	-
Vegetables	1,657.68	137,697.19	
Lettuce	-	-	-
Head Cabbage	193.96	48,482.77	249.96
Ethiopian Cabbage	1.06	173.62	163.79
Tomatoes	614.00	18,422.61	30.00
Green peppers	38.83	69,315.91	1,785.11
Red papers	809.83	1,302.28	1.61
Swiss chard	-	-	-
Root crops	216.44	45,358.00	
Beet root	-	-	-
Carrot	-	-	-
Onion	200.02	45,348.00	226.72
Potatoes	5.00	-	-
Garlic	2.02	10.00	4.95
Taro/'Godere'/	-	-	-
Sweet potatoes	9.40	-	-
Other Temporary	0.05	2,680.00	
Permanent crops	97,453.62	1,453,052.80	
Fruit crops	6,960.86	384,487.95	
Avocado	660.52	60,041.86	90.90
Bananas	3,452.36	286,943.11	83.12
Guava/'Zeytun'/	-	-	-
Lemons	27.27	-	-
Mangos	1,930.98	1,584.90	0.82
Oranges	24.90	-	-
Papayas	100.83	23,333.64	231.42
Pineapples	764.00	12,584.44	16.47
Cash crops	90,492.76	1,068,562.11	
Chat	-	-	-
Coffee	65,996.64	436,853.00	6.62
Tea	1,795.00	171,939.19	95.79
Hopes/'Geshe'/	-	-	-
Enset	-	-	-
Sugar cane	3.10	-	-
Cotton	22,698.02	459,769.92	20.26
Other permanent crops	-	2.74	-

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2014E.C .(2021/22)Gambela			
	Area	Production	Yield
	Hectares	Quintals	QT/HA
Total	83,529.20	1,613,179.44	
Grains	27,922.01	729,926.88	
Cereals	7,556.63	309,067.62	
Teff	-	-	-
Barley	-	-	-
Wheat	-	-	-
Maize	3,083.39	147,669.26	47.89
Sorghum	4,473.24	161,398.36	36.08
Finger millet	-	-	-
Oats/'Aja' /	-	-	-
Rice	-	-	-
Pulse	19,697.19	404,013.48	
Horse/Faba beans	-	-	-
Field peas	-	-	-
W/Haricot bean	80.00	-	-
R/Haricot bean	-	-	-
B/Haricot bean	-	-	-
Chick peas	-	-	-
Lentiles	-	-	-
Vetch/Grass peas	-	-	-
Soya beans	-	-	-
Fenugreek	-	-	-
Mung bean/"Masho"	19,617.19	404,013.48	20.59
Gibto	-	-	-
Oile seeds	668.19	16,845.78	
Nueg	7.75	-	-
Linseed	-	-	-
Ground nuts	0.88	3.00	3.41
Safflower	-	-	-
Sesame	659.56	16,842.78	25.54
Rapeseed	-	-	-
Vegetables	22.80	261.69	
Lettuce	-	-	-
Head Cabbage	-	-	-
Ethiopian Cabbage	-	-	-
Tomatoes	6.00	117.66	19.61
Green peppers	-	-	-
Red papers	16.80	144.03	8.57
Swiss chard	-	-	-
Root crops	-	-	-
Beet root	-	-	-
Carrot	-	-	-
Onion	-	-	-
Potatoes	-	-	-
Garlic	-	-	-
Taro/'Godere' /	-	-	-
Sweet potatoes	-	-	-
Other Temporary	-	-	
Permanent crops	55,584.39	882,990.87	
Fruit crops	109.48	13,793.16	
Avocado	-	-	-
Bananas	-	-	-
Guava/'Zeytun' /	-	-	-
Lemons	-	-	-
Mangos	46.50	9,054.14	194.71
Oranges	32.58	4,739.02	145.46
Papayas	30.40	-	-
Pineapples	-	-	-
Cash crpops	55,474.91	869,197.71	
Chat	-	-	-
Coffee	7,572.72	62,146.81	8.21
Tea	361.26	8,641.00	23.92
Hopes/'Gesho' /	-	-	-

Enset	-	-	-
Sugar cane	-	-	-
Cotton	47,540.93	798,409.90	16.79
Other permanent crops	-	-	-

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2014 E.C(2021/22)Direadawa			
	Area	Production	Yield
	Hectares	Quintals	QT/HA
Total	65.84	10,189.36	
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 bean/"Masho"	-	-	-
Gibto	-	-	-
Oile seeds	-	-	-
Nueg	-	-	-
Linseed	-	-	-
Ground nuts	-	-	-
Safflower	-	-	-
Sesame	-	-	-
Rapeseed	-	-	-
Vegetables	3.00	684.10	
Lettuce	-	-	-
Head Cabbage	-	-	-
Ethiopian Cabbage	-	-	-
Tomatoes	-	-	-
Green peppers	3.00	684.10	228.03
Red papers	-	-	-
Swiss chard	-	-	-
Root crops	3.60	-	-
Beet root	-	-	-
Carrot	-	-	-
Onion	3.60	-	-
Potatoes	-	-	-
Garlic	-	-	-
Taro/'Godere'/	-	-	-
Sweet potatoes	-	-	-
Other Temporary	-	-	-
Permanent crops	59.24	9,505.26	
Fruit crops	58.64	9,505.26	
Avocado	-	-	-
Bananas	-	-	-
Guava/'Zeytun'/	-	-	-

Lemons	2.72	1.80	0.66
Mangos	3.36	188.73	56.17
Oranges	51.51	9,314.52	180.83
Papayas	1.05	0.21	0.20
Pineapples	-	-	-
Cash crops	-	-	-
Chat	-	-	-
Coffee	-	-	-
Tea	-	-	-
Hopes/'Gesho'/	-	-	-
Enset	-	-	-
Sugar cane	-	-	-
Cotton	-	-	-
Other permanent crops	0.60	-	-

Table 1 Estimate of Cropland Area and Production of Commercial Farms, 2014E.C .(2021/22)) Tigray

	Area	Production	Yield
	Hectares	Quintals	QT/HA
Total	203,783.04	2,702,406.55	
Grains	190,162.03	2,491,742.57	
Cereals	45,319.64	1,208,513.11	
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	
Fruit crops	345.33	18,012.77	
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	-	-	-
Cash crops	12,814.72	69,052.00	
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, 2014E.C .(2021/22)) Sidama			
Total	818.58	354,664.41	
Grains	453.86	314,660.10	
Cereals	339.25	313,733.74	
Teff	-	-	-
Barley	-	-	-
Wheat	52.35	84.30	1.61
Maize	286.90	313,649.44	40.12
Sorghum	-	-	-
Finger millet	-	-	-
Oats/'Aja'/	-	-	-
Rice	-	-	-
Pulse	114.61	926.36	
Horse/Faba beans	-	-	-
Field peas	-	-	-
W/Haricot bean	45.93	363.36	7.91
R/Haricot bean	68.68	563.00	8.20
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	9.40	252.20	
Lettuce	-	-	-
Head Cabbage	1.00	-	-
Ethiopian Cabbage	-	-	-
Tomatoes	8.40	252.20	30.02
Green peppers	-	-	-
Red papers	-	-	-
Swiss chard	-	-	-
Root crops	9.65	483.28	
Beet root	-	-	-
Carrot	-	-	-
Onion	-	-	-
Potatoes	9.65	483.28	50.08
Garlic	-	-	-
Taro/'Godere'/	-	-	-
Sweet potatoes	-	-	-
Other Temporary	-	-	-
Permanent crops	345.67	39,268.83	
Fruit crops	306.51	37,316.83	
Avocado	133.53	12,123.34	90.79
Bananas	100.11	8,329.83	83.21
Guava/'Zeytun'/	-	-	-
Lemons	-	-	-
Mangos	-	-	-
Oranges	-	-	-
Papayas	72.87	16,863.66	231.42
Pineapples	-	-	-
Cash crpops	28.76	1,652.00	
Chat	-	-	-
Coffee	27.76	1,652.00	59.51
Tea	-	-	-
Hopes/'Gesho'/	-	-	-
Enset	1.00	-	-

Sugar cane	-	-	-
Cotton	-	-	-
Other permanent crops	10.40	300.00	28.85

Table 3 Estimate of farm input applied cropland area and quantity of input used by crop and input types for commercial farms, 2014 E.C(2021/22) Chemical Fertilizer Applied IN HECTARES, National,

	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	650,546.20	718,910.46	568,214.65	800,107.85	537,706.81	1,941,879.29	329,606.24	554,437.80
Grains	427,537.90	404,486.57	388,230.37	530,518.22	213,425.43	1,940,870.69	141,065.57	554,151.20
Cereals	410,014.14	395,481.16	357,804.41	495,438.57	198,906.62	1,895,154.13	106,427.63	513,192.14
Teff	48,767.96	196,500.66	37,481.40	241,169.43	23,713.73	79,668.23	8,611.89	19,947.92
Barley	9,690.64	2,598.97	10,380.44	4,187.68	3,776.25	33,636.32	1,855.57	638.25
Wheat	155,323.72	65,564.87	154,893.41	81,293.53	76,064.17	1,059,646.74	17,316.37	276,972.17
Maize	175,717.77	125,174.43	144,279.08	164,431.74	87,307.53	688,291.22	67,452.83	26,798.35
Sorghum	6,679.85	1,202.04	7,353.16	901.52	4,364.00	3,643.28	7,077.92	6,489.70
Finger millet	4,104.78	914.88	679.29	2,073.44	2,083.41	8,361.67	116.75	180.75
Oats/'Aja'/	-	-	-	-	-	-	-	-
Rice	9,729.42	3,525.33	2,737.63	1,381.24	1,597.53	21,906.68	3,996.30	182,165.00
Pulse	11,945.39	7,466.28	22,685.13	16,035.30	12,614.12	37,798.69	28,486.63	37,456.20
Horse/Faba beans	669.46	321.97	669.36	300.70	521.16	1,461.35	13.76	-
Field peas	103.16	7.19	103.16	15.50	13.90	30.00	68.00	30.00
W/Haricot bean	297.32	69.40	376.30	3,583.13	155.83	642.60	1,158.61	752.60
R/Haricot bean	3,735.41	5,800.60	10,164.70	8,589.64	6,773.53	19,763.04	1,467.85	3,561.80
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	117.00	258.75	226.86	372.00	1,783.74	610.00	4,134.27	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	4,309.40	894.23	8,883.94	2,894.17	1,691.86	14,762.20	4,870.49	30,707.60
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/'Masho'/'	2,713.64	114.14	2,260.81	280.16	1,674.10	529.50	16,773.65	2,404.20
Gibto	-	-	-	-	-	-	-	-
Oil seeds	5,578.37	1,539.13	7,740.83	19,044.35	1,904.69	7,917.87	6,151.31	3,502.86
Nueg	-	-	-	-	53.00	-	1,380.67	-
Linseed	8.37	0.58	61.14	2.33	31.85	0.66	62.29	10.00
Ground nuts	-	-	7.66	3.10	1.39	-	43.18	20.00
Safflower	-	-	-	-	4.95	-	8.77	-

Sesame	1,493.51	114.71	2,049.84	16,361.80	31.70	-	3,376.83	2,874.20
Rapeseed	4,076.49	1,423.84	5,622.19	2,677.12	1,781.80	7,917.21	1,279.57	598.66
Vegetables	42,181.63	54,873.82	43,689.37	54,400.85	20,062.72	2.88	7,353.33	-
Lettuce	1,710.82	1,479.76	1,662.50	1,953.00	911.28	0.07	-	-
Head Cabbage	1,836.53	1,647.81	1,898.36	5,427.52	945.33	0.02	65.05	-
Ethiopian Cabbage	1,033.31	424.26	1,794.36	7,291.81	858.25	-	83.50	-
Tomatoes	30,988.02	20,606.50	29,874.42	29,320.23	16,256.51	2.68	2,401.11	-
Green peppers	2,749.18	1,655.71	6,078.75	5,278.14	929.29	0.10	2,755.89	-
Red papers	3,863.77	29,059.78	2,380.98	5,130.15	128.06	0.01	2,047.78	-
Swiss chard	-	-	-	-	34.00	-	-	-
Root crops	27,262.11	31,715.13	25,940.35	21,029.43	8,639.31	5.26	5,851.63	75.60
Beet root	1,003.75	724.50	1,003.75	976.50	515.00	0.04	-	-
Carrot	695.00	724.50	1,092.80	1,096.24	407.25	0.03	204.00	-
Onion	23,140.60	24,300.51	20,530.22	17,589.98	6,629.89	5.19	5,379.01	75.60
Potatoes	1,221.22	5,540.41	2,419.09	974.18	624.65	-	6.22	-
Garlic	1,201.15	410.84	894.49	392.54	462.52	-	170.00	-
Taro/'Godere'/	-	-	-	-	-	-	-	-
Sweet potatoes	0.39	14.38	-	-	-	-	92.40	-
Other Temporary	4,835.85	19,442.48	4,820.80	25,188.66	2,272.84	780.59	660.89	211.00
Permanent crops	148,728.71	208,392.46	105,533.76	168,970.69	293,306.51	219.87	174,674.82	-
Fruit crops	56,581.81	150,526.89	55,843.64	121,705.67	45,438.05	2.76	18,859.87	-
Avocado	5,678.96	3,310.56	4,554.98	2,209.91	6,645.37	0.18	1.30	-
Bananas	14,022.28	4,133.78	14,257.25	4,694.60	13,063.30	-	9,092.50	-
Guava/'Zeytun'/	0.74	119.70	0.35	6.34	0.30	-	161.39	-
Lemons	68.50	232.16	68.13	167.98	302.55	-	41.99	-
Mangos	2,394.10	639.95	2,252.48	4,560.12	4,543.17	1.07	4,810.51	-
Oranges	3,031.42	3,513.14	2,011.18	679.96	3,917.47	0.11	2,883.81	-
Papayas	31,385.81	138,577.60	31,211.42	109,373.95	16,963.79	1.40	1,105.37	-
Pineapples	-	-	1,487.85	12.80	2.10	-	763.00	-
Cash crpops	75,061.23	46,269.40	33,096.40	34,673.16	236,071.29	85.53	152,951.37	-
Chat	3.90	5.75	3.90	1.55	2.00	-	-	-
Coffee	14,731.51	3,000.99	20,153.19	6,519.35	172,737.99	25.30	64,421.30	-
Tea	739.56	183.43	11,113.05	19,571.46	6,427.40	0.27	1,268.26	-
Hopes/'Gesho'/	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	1.00	-
Sugar cane	52,435.43	37,565.58	1,168.21	8,060.78	45,158.80	59.96	6,498.63	-

Cotton	7,150.83	5,513.65	658.05	520.03	11,745.10	-	80,762.18	-
Other permanent crops	17,085.67	11,596.17	16,593.72	12,591.86	11,797.17	131.58	2,863.58	-

Table 3 Estimate of farm input applied cropland area and quantity of input used by crop and input types for commercial farms, 2014 E.C(2021/22) 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	608.40
Barley	42.68	28.92	-	-	1,025.70	238.12	-	-
Wheat	14.60	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	-	-	-	-	-	-	42.40	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	12.20	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/'Masho'/	-	-	-	-	2,236.66	-	8,946.65	-
Gibto	-	-	-	-	-	-	-	-
Oil 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	-	-	-	-	-	-	109.80	-
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	14.10	52.48
Lettuce	-	-	-	-	-	0.50	-	-
Head Cabbage	-	-	-	-	2.48	2.31	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	189.57	79.22	1,510.36	738.00	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	541.20	366.72	242.57	12,870.17	-
Fruit crops	252.08	101.17	1,235.86	442.80	357.06	0.35	55.45	-
Avocado	31.29	5.79	1,235.86	442.80	49.15	0.25	-	-
Bananas	14.03	5.79	-	-	-	-	4.27	-
Guava/'Zeytun'/	-	-	-	-	-	-	42.98	-
Lemons	-	-	-	-	2.53	-	5.36	-
Mangos	-	-	-	-	200.60	-	2.03	-
Oranges	67.21	26.05	-	-	104.58	0.10	0.81	-
Papayas	138.64	60.64	-	-	0.03	-	-	-
Pineapples	0.92	2.89	-	-	0.16	-	-	-
Cash crpops	-	-	-	-	-	-	12,814.72	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Gesho'/	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	12,814.72	-
Other permanent crops	1,991.08	3,342.88	5,490.00	98.40	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, 2014 E.C(2021/22) 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	18,920.85	12,139.12	17,778.15	4,546.54	17,560.00	63,375.00	140,356.29	18,920.85
Grains	3,786.90	1,262.70	13,291.20	3,577.01	7,918.00	63,375.00	59,678.29	3,786.90
Cereals	3,786.90	1,262.70	13,291.20	3,577.01	7,918.00	63,375.00	59,392.29	3,786.90
Teff	-	-	-	-	-	-	7.00	-
Barley	-	-	-	-	-	-	-	-
Wheat	3,786.90	1,262.70	13,291.20	3,577.01	7,918.00	63,375.00	-	3,786.90
Maize	-	-	-	-	-	-	59,385.29	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'/	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	36.00	-
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"/	-	-	-	-	-	-	36.00	-
Gibto	-	-	-	-	-	-	-	-
Oile seeds	-	-	-	-	-	-	250.00	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	250.00	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	-	-	4,305.60	855.60	-	-	2,208.00	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-

Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	4,305.60	855.60	-	-	2,208.00	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	29.25	8.63	-	-	-	-	15.00	29.25
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	29.25	8.63	-	-	-	-	15.00	29.25
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere'/	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-
Permanent crops	15,104.70	10,867.79	181.35	113.93	9,642.00	-	78,455.00	15,104.70
Fruit crops	68.25	60.38	173.55	110.83	62.00	-	615.00	68.25
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun'/	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	68.25	60.38	68.25	27.13	35.00	-	615.00	68.25
Oranges	-	-	105.30	83.70	27.00	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	15,028.65	10,800.51	-	-	9,576.00	-	76,610.00	15,028.65
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Geshe'/	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	8,182.20	9,638.15	-	-	3,991.00	-	205.00	8,182.20
Cotton	6,846.45	1,162.36	-	-	5,585.00	-	76,405.00	6,846.45
Other permanent crops	7.80	6.90	7.80	3.10	4.00	-	1,230.00	7.80

Table 3 Estimate of farm input applied cropland area and quantity of input used by crop and input types for commercial farms, 2014
E.C(2021/22) Chemical Fertilizer
Applied IN HECTARES, Amhara

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	72,510.86	37,133.74	60,332.65	56,711.60	34,055.12	93,432.74	17,651.38	50,639.86
Grains	65,194.84	34,983.39	53,532.32	54,420.86	28,687.75	93,432.15	16,913.39	50,639.86
Cereals	58,422.81	33,600.70	42,075.11	35,017.87	26,148.09	79,699.45	7,019.07	12,332.96
Teff	13,151.18	4,405.51	10,084.66	4,493.67	4,512.99	14,826.31	4,230.78	6,617.01
Barley	3.43	0.58	24.38	31.00	1.76	30.00	319.37	400.00
Wheat	265.91	149.68	250.58	99.13	129.45	759.50	372.11	55.10
Maize	38,429.78	27,828.32	28,570.70	29,241.33	19,855.90	53,000.63	38.06	99.50
Sorghum	4,392.26	499.96	1,622.26	201.50	727.22	736.00	1,667.60	2,025.60
Finger millet	42.13	14.43	126.64	54.56	-	-	116.75	180.75
Oats/'Aja'/'	-	-	-	-	-	-	-	-
Rice	2,138.12	702.22	1,395.89	896.68	920.77	10,347.02	274.40	2,955.00
Pulse	5,291.78	1,274.88	9,403.47	3,039.64	2,505.96	13,732.70	6,870.79	35,428.70
Horse/Faba beans	-	-	-	-	4.90	11.00	2.74	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	13.30	80.00
R/Haricot bean	657.77	345.86	200.08	51.69	594.81	786.00	1,378.74	3,101.80
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	14.87	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	4,214.36	878.70	8,753.80	2,864.72	1,661.65	12,762.20	4,234.37	30,323.60
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/"Masho"/	419.65	50.31	449.59	123.23	244.60	173.50	1,226.77	1,923.30
Gibto	-	-	-	-	-	-	-	-
Oile seeds	1,480.25	107.81	2,053.74	16,363.35	33.70	-	3,023.53	2,878.20
Nueg	-	-	-	-	2.00	-	54.03	-
Linseed	-	-	-	-	-	-	58.00	-
Ground nuts	-	-	3.90	1.55	-	-	2.00	10.00
Safflower	-	-	-	-	-	-	4.70	-
Sesame	1,480.25	107.81	2,049.84	16,361.80	31.70	-	2,904.80	2,868.20
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	1,434.56	948.15	930.56	677.93	216.56	0.02	640.44	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	3.13	29.61	0.20	38.75	0.10	-	1.50	-
Ethiopian Cabbage	0.20	28.75	0.20	38.75	-	-	0.10	-
Tomatoes	12.83	87.40	12.01	116.25	87.31	0.01	-	-
Green peppers	3.76	57.50	3.76	77.50	21.91	-	-	-
Red papers				55				-

	1,414.64	744.89	914.39	406.68	107.24	0.01	638.84	
Swiss chard	-	-	-	-	-	-	-	-
Root crops	910.07	358.51	898.75	476.24	461.78	-	2.97	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	17.11	68.14	7.17	80.99	5.28	-	1.75	-
Potatoes	2.37	4.03	0.99	4.65	-	-	1.22	-
Garlic	890.59	286.35	890.59	390.60	456.50	-	-	-
Taro/'Godere'/	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	0.78	5.75	0.78	19.38	-	-	0.51	-
Permanent crops	4,970.61	837.94	4,970.24	1,117.19	4,689.03	0.57	94.07	-
Fruit crops	4,746.04	707.99	4,745.67	942.04	4,390.01	0.56	81.57	-
Avocado	-	-	-	-	185.70	-	-	-
Bananas	23.31	64.40	23.31	86.80	241.33	-	-	-
Guava/'Zeytun'/	0.35	4.70	0.35	6.34	-	-	0.19	-
Lemons	0.96	12.79	0.59	17.24	80.51	-	0.49	-
Mangos	1,992.72	219.49	1,992.72	295.84	1,305.63	0.08	80.40	-
Oranges	231.20	75.97	231.20	101.81	897.83	0.01	0.49	-
Papayas	2,497.50	330.63	2,497.50	434.00	1,679.01	0.46	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	45.51	64.40	45.51	86.80	207.14	-	12.50	-
Chat	-	-	-	-	-	-	-	-
Coffee	45.51	64.40	45.51	86.80	38.36	-	12.50	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Geshe'/	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	96.28	-	-	-
Cotton	-	-	-	-	72.50	-	-	-
Other permanent crops	179.06	65.55	179.06	88.35	91.88	0.01	-	-

**Table 3 Estimate of farm input applied cropland area and quantity of input used by crop and input types for commercial farms, 2014
E.C(2021/22) 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	459,323.05	552,820.98	369,812.41	570,250.58	346,112.74	1,629,346.63	65,612.11	477,852.29
Grains	290,711.46	291,471.06	241,146.79	340,333.89	137,896.00	1,628,470.90	30,666.40	477,565.69
Cereals	284,457.83	289,345.92	231,575.55	335,980.91	132,522.27	1,603,673.61	24,159.59	475,798.53
Teff	23,443.86	160,680.77	12,635.79	147,970.80	13,316.29	45,916.69	2,413.65	12,401.71
Barley	8,056.34	2,100.14	8,725.19	3,504.50	2,938.45	25,183.12	1,536.20	238.25
Wheat	146,126.85	62,338.88	136,205.56	74,882.64	65,554.02	972,881.44	14,685.26	276,883.57
Maize	93,921.40	60,285.36	72,674.64	107,205.74	48,124.53	540,951.73	792.00	4,560.00
Sorghum	1,624.35	261.63	120.90	68.98	53.00	62.50	1,312.32	4,005.00
Finger millet	4,062.65	900.45	552.65	2,018.88	2,083.41	8,361.67	-	-
Oats/'Aja'/'	-	-	-	-	-	-	-	-
Rice	7,222.38	2,778.69	660.82	329.38	452.57	10,316.47	3,420.16	177,710.00
Pulse	2,168.77	700.72	3,887.91	1,673.53	3,560.08	16,879.42	3,856.63	1,158.50
Horse/Faba beans	669.46	321.97	669.36	300.70	516.26	1,450.35	11.02	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	297.32	69.40	185.78	54.78	57.20	375.00	1,065.31	672.60
R/Haricot bean	116.03	34.50	2,363.65	842.58	1,881.07	12,428.07	45.61	400.00
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	117.00	258.75	226.86	372.00	1,067.34	610.00	2,112.43	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	39.00	11.50	39.00	15.50	30.21	2,000.00	24.55	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/"Masho"/	929.96	4.60	403.26	87.96	8.00	16.00	597.71	85.90
Gibto	-	-	-	-	-	-	-	-
Oile seeds	4,084.86	1,424.42	5,683.33	2,679.45	1,813.65	7,917.87	2,650.18	608.66
Nueg	-	-	-	-	-	-	1,293.29	-
Linseed	8.37	0.58	61.14	2.33	31.85	0.66	4.29	10.00
Ground nuts	-	-	-	-	-	-	39.25	-
Safflower	-	-	-	-	-	-	4.07	-
Sesame	-	-	-	-	-	-	29.71	-
Rapeseed	4,076.49	1,423.84	5,622.19	2,677.12	1,781.80	7,917.21	1,279.57	598.66
Vegetables	39,081.29	52,811.29	36,063.92	50,215.62	19,694.19	2.86	3,027.76	-
Lettuce	1,710.82	1,479.76	1,662.50	1,953.00	911.28	0.07	-	-
Head Cabbage	1,827.90	1,601.24	1,891.98	5,365.52	941.06	0.02	63.05	-
Ethiopian Cabbage	1,031.04	393.21	1,794.16	7,253.06	857.19	-	83.40	-
Tomatoes	30,475.32	19,739.25	28,629.98	27,045.41	16,075.15	2.67	1,650.28	-
Green peppers	2,681.37	1,579.81	1,709.10	4,315.20	875.51	0.10	532.20	-

Red papers	1,354.84	28,018.03	376.20	4,283.43	-	-	698.83	-
Swiss chard	-	-	-	-	34.00	-	-	-
Root crops	25,396.01	22,129.31	24,888.80	20,448.18	8,097.82	5.26	5,330.54	75.60
Beet root	1,003.75	724.50	1,003.75	976.50	515.00	0.04	-	-
Carrot	695.00	724.50	1,092.80	1,096.24	407.25	0.03	204.00	-
Onion	22,191.35	20,203.06	20,393.75	17,417.54	6,556.57	5.19	4,873.54	75.60
Potatoes	1,199.25	357.08	2,398.50	957.90	615.00	-	-	-
Garlic	306.66	120.18	-	-	4.00	-	170.00	-
Taro/'Godere'/	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	83.00	-
Other Temporary	4,452.87	2,757.13	4,437.82	2,688.09	1,702.34	780.59	641.93	211.00
Permanent crops	99,681.42	183,652.19	63,275.08	156,564.80	178,722.39	87.02	25,945.48	-
Fruit crops	35,046.03	143,412.73	34,682.96	115,753.25	23,002.63	1.55	8,056.07	-
Avocado	4,443.04	3,161.35	4,430.56	2,143.65	2,907.19	0.08	-	-
Bananas	71.53	41.71	71.53	45.11	1,711.86	-	211.74	-
Guava/'Zeytun'/	-	-	-	-	-	-	-	-
Lemons	14.35	215.34	14.35	145.31	186.36	-	38.80	-
Mangos	156.37	69.13	139.31	4,220.88	1,163.96	0.43	3,911.36	-
Oranges	1,765.94	1,949.07	1,645.04	485.15	1,924.73	0.10	2,799.72	-
Papayas	28,594.80	137,976.13	28,382.17	108,713.15	15,107.43	0.94	1,094.45	-
Pineapples	-	-	-	-	1.10	-	-	-
Cash crpops	48,135.36	28,820.39	12,623.58	29,239.59	144,848.79	69.11	17,594.83	-
Chat	3.90	5.75	3.90	1.55	2.00	-	-	-
Coffee	3,786.40	877.17	2,565.59	1,269.06	99,144.67	8.89	10,010.95	-
Tea	-	-	8,227.83	19,388.18	4,632.40	0.27	907.00	-
Hopes/'Geshe'/	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	44,253.23	27,927.43	1,168.21	8,060.78	41,069.72	59.96	6,292.33	-
Cotton	91.83	10.04	658.05	520.03	-	-	384.55	-
Other permanent crops	16,500.03	11,419.07	15,968.54	11,571.96	10,870.97	16.36	294.58	-

Table 3 Estimate of farm input applied cropland area and quantity of input used by crop and input types for commercial farms, 2014
E.C(2021/22) 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	2,428.47	6,743.90	422.37	3,020.18	1,383.05	442.00	4,228.50	-
Grains	158.10	782.00	158.10	1,054.00	81.09	442.00	3,131.00	-
Cereals	158.10	782.00	158.10	1,054.00	81.09	442.00	3,130.00	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	2,065.00	-
Maize	158.10	782.00	158.10	1,054.00	81.09	442.00	687.00	-
Sorghum	-	-	-	-	-	-	378.00	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'/	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	1.00	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	-	-	-	-	-	-	1.00	-
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	390.87	629.63	68.92	1,078.80	35.33	-	193.00	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	0.23	14.38	0.23	19.38	0.12	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	379.47	613.53	57.52	1,057.88	29.48	-	193.00	-
Green peppers	11.17	1.73	11.17	1.55	5.73	-	-	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-

Root crops	862.38	3,607.84	89.51	72.08	47.11	-	475.50	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	862.38	3,607.84	89.51	72.08	47.11	-	475.50	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere' /	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-
Permanent crops	1,017.12	1,724.43	105.84	815.30	1,219.52	-	429.00	-
Fruit crops	952.77	1,704.30	-	-	1,103.90	-	429.00	-
Avocado	-	-	-	-	5.95	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun' /	0.39	115.00	-	-	0.30	-	161.20	-
Lemons	-	-	-	-	7.29	-	-	-
Mangos	-	-	-	-	75.24	-	184.00	-
Oranges	951.99	1,474.30	-	-	1,004.92	-	83.60	-
Papayas	0.39	115.00	-	-	10.20	-	0.20	-
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Geshe' /	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other permanent crops	64.35	20.13	105.84	815.30	115.62	-	-	-

Table 3 Estimate of farm input applied cropland area and quantity of input used by crop and input types for commercial farms, 2014
E.C(2021/22) 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	2,626.72	986.71	2,086.70	839.72	940.49	2,270.60	3,445.95	1,073.00
Grains	1,572.73	712.72	1,032.71	427.42	940.49	2,270.60	2,738.02	1,073.00
Cereals	1,503.43	701.79	972.91	420.44	940.49	2,270.60	2,177.90	853.00
Teff	-	-	-	-	-	-	-	-

Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	957.58	291.81	957.58	415.79	344.15	2,090.60	166.47	653.00
Sorghum	545.85	409.98	15.33	4.65	596.34	180.00	2,011.43	200.00
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja' /	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	56.04	4.03	56.04	5.43	-	-	498.74	204.00
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	-	-	-	-	-	-	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	56.04	4.03	56.04	5.43	-	-	493.11	204.00
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/"Masho" /	-	-	-	-	-	-	5.63	-
Gibto	-	-	-	-	-	-	-	-
Oile seeds	13.26	6.90	3.76	1.55	-	-	61.38	16.00
Nueg	-	-	-	-	-	-	33.35	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	3.76	1.55	-	-	1.93	10.00
Safflower	-	-	-	-	-	-	-	-
Sesame	13.26	6.90	-	-	-	-	26.10	6.00
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	1,053.99	273.99	1,053.99	412.30	-	-	707.93	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red papers	1,053.99	273.99	1,053.99	412.30	-	-	707.93	-
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	-	-	-	-	-	-	-	-

<p>Table 3Estimate of farm input applied cropland area and quantity of input used by crop and input types for commercial frams, 2014 E.C(2021/22)Chemical Fertilizer Applied IN HECTARES, SNNP</p>								
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	89,140.23	102,043.53	111,308.15	159,175.31	122,735.40	150,780.73	78,154.34	24,752.65
Grains	64,493.22	74,825.06	77,406.97	126,599.87	35,844.94	150,758.44	9,896.05	24,752.65
Cereals	61,264.22	69,376.36	69,356.81	118,828.01	30,542.93	143,895.97	7,178.19	24,207.65
Teff	12,172.92	31,414.38	14,760.95	88,704.95	5,884.45	18,925.23	1,960.46	929.20
Barley	1,630.87	498.25	1,630.87	652.18	836.04	8,423.20	-	-
Wheat	5,041.96	1,491.61	5,043.97	2,277.49	2,410.35	21,690.80	194.00	33.50
Maize	41,932.16	35,897.23	41,645.43	26,411.80	18,260.46	90,948.76	3,992.56	21,485.85
Sorghum	117.39	30.48	5,594.67	626.39	2,927.44	2,664.78	729.43	259.10
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'/'	-	-	-	-	-	-	-	-
Rice	368.92	44.42	680.92	155.19	224.19	1,243.20	301.74	1,500.00
Pulse	3,229.00	5,448.70	8,050.16	7,771.86	5,295.67	6,862.47	2,612.14	545.00

Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	103.16	7.19	103.16	15.50	13.90	30.00	68.00	30.00
W/Haricot bean	-	-	102.77	40.84	52.70	263.50	-	-
R/Haricot bean	2,931.81	5,411.04	7,571.17	7,676.76	4,228.97	6,228.97	42.50	60.00
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	716.40	-	2,006.97	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	35.10	8.53	-	-	118.46	180.00
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/"Masho"/	194.03	30.48	237.96	30.23	283.70	340.00	376.21	275.00
Gibto	-	-	-	-	-	-	-	-
Oile seeds	-	-	-	-	6.34	-	105.72	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	1.39	-	-	-
Safflower	-	-	-	-	4.95	-	-	-
Sesame	-	-	-	-	-	-	105.72	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	204.54	95.77	1,250.00	1,005.60	107.24	0.01	571.02	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	5.27	2.59	5.95	3.88	3.05	-	0.50	-
Ethiopian Cabbage	2.07	2.30	-	-	1.06	-	-	-
Tomatoes	104.02	51.32	1,158.53	945.70	56.17	-	557.83	-
Green peppers	52.88	16.68	49.12	28.29	26.14	-	12.69	-
Red papers	40.30	22.89	36.40	27.75	20.82	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	47.55	5,434.04	53.44	25.19	19.35	-	27.62	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	33.51	240.35	39.79	19.38	17.33	-	13.22	-
Potatoes	9.75	5,175.00	9.75	3.88	-	-	5.00	-
Garlic	3.90	4.31	3.90	1.94	2.02	-	-	-
Taro/'Godere'/	-	-	-	-	-	-	-	-
Sweet potatoes	0.39	14.38	-	-	-	-	9.40	-
Other Temporary	382.20	16,679.60	382.20	22,481.20	570.50	-	14.45	-
Permanent crops	24,012.72	5,009.06	32,215.54	9,063.45	86,193.37	22.28	67,645.20	-
Fruit crops	15,398.73	4,123.04	15,888.13	4,536.28	16,479.43	0.66	9,673.61	-
Avocado								-

	1,181.32	117.01	69.82	22.86	3,413.00	0.11	1.30	
Bananas	13,779.88	3,881.83	14,010.95	4,395.61	11,010.00	-	8,880.76	-
Guava/'Zeytun'/	-	-	-	-	-	-	-	-
Lemons	53.19	4.03	53.19	5.43	24.57	-	2.70	-
Mangos	170.22	32.20	52.20	16.28	1,915.73	0.55	15.25	-
Oranges	29.64	6.90	29.64	9.30	24.90	-	-	-
Papayas	184.48	81.08	184.48	74.01	90.23	-	10.60	-
Pineapples	-	-	1,487.85	12.80	1.00	-	763.00	-
Cash crpops	8,299.84	813.57	16,015.21	4,430.29	69,011.24	16.41	56,632.59	-
Chat	-	-	-	-	-	-	-	-
Coffee	8,264.74	792.87	13,833.94	4,359.38	65,989.14	16.41	54,363.19	-
Tea	35.10	20.70	2,181.27	70.91	1,795.00	-	-	-
Hopes/'Gesho'/	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	1.80	-	1.30	-
Cotton	-	-	-	-	1,225.30	-	2,268.10	-
Other permanent crops	314.15	72.45	312.20	96.88	702.70	5.21	1,339.00	-

Table 3 Estimate of farm input applied cropland area and quantity of input used by crop and input types for commercial farms, 2014 E.C(2021/22) 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	4,721.87	5,799.28	5,582.10	955.23	14,069.32	-	20,138.89	120.00
Grains	1,170.00	28.75	1,170.00	38.75	1,603.30	-	18,042.42	120.00
Cereals	-	-	-	-	414.50	-	3,370.59	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	354.50	-	2,391.45	-
Sorghum	-	-	-	-	60.00	-	979.14	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'/	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-

Pulse	1,170.00	28.75	1,170.00	38.75	1,137.80	-	14,611.33	120.00
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	80.00	-
R/Haricot bean	-	-	-	-	-	-	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/"Masho"/	1,170.00	28.75	1,170.00	38.75	1,137.80	-	14,531.33	120.00
Gibto	-	-	-	-	-	-	-	-
Oile seeds	-	-	-	-	51.00	-	60.50	-
Nueg	-	-	-	-	51.00	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	60.50	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	2.18	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	2.18	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere'/	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	4.00	-
Permanent crops	3,551.87	5,770.53	4,412.10	916.48	12,466.02	-	2,090.29	-
Fruit crops	-	-	-	-	51.00	-	4.50	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun'/	-	-	-	-	-	-	-	-

Lemons	-	-	-	-	-	-	-	-
Mangos	-	-	-	-	42.00	-	4.50	-
Oranges	-	-	-	-	6.00	-	-	-
Papayas	-	-	-	-	3.00	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	3,551.87	5,770.53	4,412.10	916.48	12,415.02	-	2,085.79	-
Chat	-	-	-	-	-	-	-	-
Coffee	2,634.86	1,266.55	3,708.15	804.11	7,552.72	-	20.00	-
Tea	704.46	162.73	703.95	112.38	-	-	361.26	-
Hopes/'Gesho'/'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	212.55	4,341.25	-	-	4,862.30	-	1,704.53	-
Other permanent crops	-	-	-	-	-	-	-	-

Table 3 Estimate of farm input applied cropland area and quantity of input used by crop and input types for commercial frams, 2014
E.C(2021/22)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	66.19	438.15	-	-	47.77	-	3.12	-
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	-	-	-	-	-	-	3.00	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	3.00	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	7.00	172.50	-	-	3.60	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	7.00	172.50	-	-	3.60	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere' /	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-
Permanent crops	59.19	265.65	-	-	44.17	-	0.12	-
Fruit crops	59.19	265.65	-	-	42.57	-	0.12	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun' /	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	3.82	-	-	-
Mangos	6.54	258.75	-	-	5.61	-	-	-
Oranges	52.65	6.90	-	-	32.09	-	-	-
Papayas	-	-	-	-	1.05	-	0.12	-
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Geshe' /	-	-	-	-	-	-	-	-

Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other permanent crops	-	-	-	-	1.60	-	-	-

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	807.96	805.11	892.12	4,608.74	802.92	2,231.60	15.66	-
Grains	450.65	420.90	492.28	4,066.43	453.86	2,121.60	-	-
Cereals	420.85	411.70	374.73	560.33	339.25	1,797.50	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	102.10	322.00	102.10	457.25	52.35	940.00	-	-
Maize	318.75	89.70	272.63	103.08	286.90	857.50	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'/	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	29.80	9.20	117.55	3,506.10	114.61	324.10	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	87.75	3,487.50	45.93	4.10	-	-
R/Haricot bean	29.80	9.20	29.80	18.60	68.68	320.00	-	-
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						-	-	-

	16.38	115.00	16.38	155.00	9.40			
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	1.00	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	16.38	115.00	16.38	155.00	8.40	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	9.85	4.31	9.85	7.75	9.65	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	9.85	4.31	9.85	7.75	9.65	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere'/	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-
Permanent crops	331.08	264.90	373.61	379.56	330.01	110.00	15.66	-
Fruit crops	310.80	252.82	353.33	363.28	306.51	-	-	-
Avocado	54.60	32.20	54.60	43.40	133.53	-	-	-
Bananas	147.56	145.84	151.46	167.09	100.11	-	-	-
Guava/'Zeytun'/	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	108.64	74.77	147.27	152.79	72.87	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	-	-	-	-	13.10	-	15.66	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	13.10	-	14.66	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Geshe'/	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	1.00	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other permanent crops	20.28	12.08	20.28	16.28	10.40	110.00	-	-

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	460,066.94	704,138.80	522,609.89	798,600.80	1,109,974.75	1,063,145.93	5,986.02	130,795.00

Grains	304,158.33	489,765.68	349,462.28	726,860.03	1,100,042.24	1,051,555.83	4,399.92	7,447.00
Cereals	158,373.27	64,194.39	340,342.01	680,822.93	970,314.57	719,843.66	4,051.08	6,714.00
Teff	10,822.44	2,679.45	152.32	19.50	151,230.30	71,444.94	756.40	462.00
Barley	339.75	54.60	21,424.77	10,233.66	21,172.96	7,392.58	-	-
Wheat	83,870.04	23,706.67	309,907.67	661,911.62	349,884.19	128,746.90	130.00	130.00
Maize	35,125.34	13,202.48	8,123.32	413.40	386,454.84	209,585.16	3,004.73	5,979.00
Sorghum	27,039.80	24,165.10	-	8,118.00	22,748.43	267,438.44	18.30	-
Finger millet	-	-	-	-	13,051.10	4,860.96	-	-
Oats/'Aja'/	-	-	-	-	-	-	-	-
Rice	1,175.90	386.10	733.93	126.75	25,772.75	30,374.69	123.35	143.00
Pulse	107,807.26	402,608.77	2,823.98	6,200.90	103,332.13	309,706.94	348.84	733.00
Horse/Faba beans	231.46	30.13	283.56	-	639.69	86.58	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	361.17	149.57	-	-
R/Haricot bean	343.97	60.45	942.25	409.50	8,253.47	7,335.12	59.83	208.00
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	4,619.00	11,722.82	-	-	10,239.95	4,036.50	15.00	15.00
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	16,794.24	4,128.49	-	-	32,967.01	31,181.30	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/"Masho"/	85,818.59	386,666.89	1,598.17	5,791.40	50,870.84	266,917.87	274.01	510.00
Gibto	-	-	-	-	-	-	-	-
Oile seeds	37,977.80	22,962.52	6,296.29	39,836.20	26,395.54	22,005.23	-	-
Nueg	-	-	6,296.29	2,527.20	151.90	73.18	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	11.90	19.50	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	29,465.72	21,485.93	#REF!	-	15,884.69	19,608.71	-	-
Rapeseed	8,512.08	1,476.59	-	-	10,347.05	2,303.83	-	-
Vegetables	75,761.79	112,537.00	100,905.92	35,416.43	1,421.85	2,624.00	1,569.82	123,278.00
Lettuce	5,219.94	621.08	5,219.94	576.65	-	-	24.78	-
Head Cabbage	5,725.44	1,365.00	4,624.34	7.80	250.32	663.00	-	-
Ethiopian Cabbage	-	-	-	-	374.64	828.75	-	-
Tomatoes	63,718.78	109,694.68	85,849.93	34,728.62	220.75	103.35	1,110.54	118,456.00
Green peppers	163.74	92.63	5,083.22	-	199.92	828.75	434.20	4,820.00
Red papers	933.89	763.62	128.49	103.35	376.22	200.15	0.30	2.00
Swiss chard	-	-	-	-	-	-	-	-

Root crops	66,397.07	92,950.65	60,665.69	32,225.70	7,344.46	8,583.90	4.00	70.00
Beet root	3,063.75	-	-	-	-	-	-	-
Carrot	2,120.00	-	-	-	-	-	-	-
Onion	57,585.87	92,258.40	59,724.78	32,225.70	6,403.85	7,569.90	-	-
Potatoes	-	-	30.05	-	29.75	9.75	-	-
Garlic	3,627.45	692.25	910.86	-	910.86	1,004.25	4.00	70.00
Taro/'Godere'/	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	13,749.75	8,885.47	11,576.00	4,098.64	1,166.20	382.20	12.28	-
Permanent crops	-	-	-	-	-	-	-	-
Fruit crops	89,125.51	160,851.42	97,160.15	54,823.45	2,505.19	2,662.73	5,841.73	632,320.00
Avocado	-	-	13,477.82	35.10	-	-	2,155.22	632,254.00
Bananas	-	-	444.29	-	-	-	2,226.00	-
Guava/'Zeytun'/	-	-	-	-	-	-	-	-
Lemons	-	-	1.79	17.55	-	-	22.80	22.00
Mangos	572.21	1,181.93	1,094.27	35,478.54	663.96	360.85	30.12	30.00
Oranges	2,469.60	2,111.01	3,436.52	252.14	1,537.96	2,286.28	3.33	-
Papayas	86,079.10	157,533.87	78,705.46	19,040.12	303.27	15.60	1,404.26	14.00
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	583,450.34	863,344.28	95,688.50	25,531.35	303,733.58	241,710.40	13,996.77	60.00
Chat	-	-	-	-	-	-	-	-
Coffee	10,620.75	3.12	-	-	101,347.81	61,805.68	9,919.48	-
Tea	-	-	-	-	39,567.50	24,841.05	3,882.20	-
Hopes/'Gesho'/	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	85,778.18	257,004.15	95,688.50	25,531.35	131,863.37	109,583.82	4.00	-
Cotton	487,051.41	606,337.01	-	-	30,954.90	45,479.85	191.09	60.00
Other permanent crops	17,245.73	7,953.47	33,928.36	35,685.94	2,800.67	4,797.94	84.92	54.00

TABLE 3.....TIGRAI.....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	55,775.70	47,011.23	256,932.00	50,500.80	247,632.90	268,009.71	18.30	-
Grains	55,775.70	47,011.23	256,932.00	50,500.80	247,632.90	268,009.71	18.30	-
Cereals	26,407.80	24,892.60	27,755.00	8,118.00	241,776.90	258,415.71	18.30	-
Teff	915.00	922.50	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-

Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	25,492.80	23,970.10	27,755.00	8,118.00	241,447.50	257,677.71	18.30	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'/	-	-	-	-	-	-	-	-
Rice	-	-	-	-	329.40	738.00	-	-
Pulse	738.10	738.00	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"/	738.10	738.00	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	4.60	24.60	4,559.00	45,980.00	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun'/	-	-	-	-	-	-	-	-
Lemons	4.60	24.60	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-

TABLE 3 AFAR.....CONTINUE.....								
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
Total	6,259.40	10,249.20	-	-	9,216.55	10,863.45	-	-
Grains	6,170.15	10,190.70	-	-	9,216.55	10,863.45	-	-
Cereals	6,170.15	10,190.70	-	-	9,216.55	10,863.45	-	-
Teff	-	-	-	-	41.65	13.65	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	6,170.15	10,190.70	-	-	9,174.90	10,849.80	-	-
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	89.25	58.50	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	89.25	58.50	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere'/	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-
Permanent crops	-	-	-	-	-	-	-	-
Fruit crops	368.90	157.95	-	-	368.90	657.15	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun'/	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	208.25	-	-	-	208.25	341.25	-	-
Oranges	160.65	157.95	-	-	160.65	315.90	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	472,186.05	550,717.05	-	-	28,298.20	91,139.10	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-

Tea	-	-	-	-	-	-	-	-
Hopes/'Gesho'/'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	24,966.20	23,004.15	-	-	23,746.45	83,192.85	-	-
Cotton	447,219.85	527,712.90	-	-	4,551.75	7,946.25	-	-
Other permanent crops	23.80	23.40	-	-	23.80	23.40	-	-

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
Total	34,623.33	11,927.72	1,041.26	470.63	239,639.05	165,622.97	273.14	452.00
Grains	31,090.63	10,830.65	999.61	470.63	239,262.83	165,422.82	272.84	450.00
Cereals	12,928.41	6,451.58	999.61	470.63	177,322.45	113,040.18	141.00	252.00
Teff	328.56	48.75	152.32	19.50	51,702.12	41,642.11	76.00	122.00
Barley	-	-	-	-	1,311.08	326.77	-	-
Wheat	-	-	724.72	353.63	2,952.69	1,054.46	-	-
Maize	11,423.95	6,016.73	122.57	97.50	102,789.85	58,455.09	65.00	130.00
Sorghum	-	-	-	-	13,594.15	6,152.25	-	-
Finger millet	-	-	-	-	654.81	799.11	-	-
Oats/'Aja'/'	-	-	-	-	-	-	-	-
Rice	1,175.90	386.10	-	-	4,317.75	4,610.39	-	-
Pulse	17,669.56	4,373.22	-	-	45,891.89	42,275.24	131.84	198.00
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	47.60	46.80	-	-
R/Haricot bean	248.77	39.00	-	-	8,170.17	7,307.82	17.83	8.00
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	86.87	58.50	-	-	-	-	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	16,794.24	4,128.49	-	-	32,848.01	31,064.30	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/'Masho'/'	539.68	147.23	-	-	4,826.11	3,856.32	114.01	190.00
Gibto	-	-	-	-	-	-	-	-
Oile seeds	492.66	5.85	-	-	16,048.49	10,107.40	-	-
Nueg	-	-	-	-	151.90	73.18	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	11.90	19.50	-	-
Safflower	-	-	-	-	-	-	-	-

Sesame	492.66	5.85	-	-	15,884.69	10,014.71	-	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	784.70	603.72	41.65	-	376.22	200.15	0.30	2.00
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	519.39	3.90	-	-	-	-	-	-
Green peppers	11.48	1.95	-	-	-	-	-	-
Red papers	253.83	597.87	41.65	-	376.22	200.15	0.30	2.00
Swiss chard	-	-	-	-	-	-	-	-
Root crops	2,748.00	493.35	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	31.41	1.95	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	2,716.59	491.40	-	-	-	-	-	-
Taro/'Godere' /	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-
Permanent crops	-	-	-	-	-	-	-	-
Fruit crops	-	-	482.37	122.85	-	-	10.00	4.00
Avocado	-	-	-	-	-	-	10.00	4.00
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun' /	-	-	-	-	-	-	-	-
Lemons	-	-	1.79	17.55	-	-	-	-
Mangos	-	-	478.38	87.75	-	-	-	-
Oranges	-	-	2.20	17.55	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	431.38	282.75	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Gescho' /	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	431.38	282.75	-	-
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
Total	259,363.66	212,701.66	510,192.87	732,163.92	661,747.54	278,787.70	5,672.28	130,343.00
Grains	112,932.47	22,107.04	341,997.77	673,852.80	653,607.95	267,893.05	4,090.48	6,997.00
Cereals	101,538.79	20,134.27	334,328.59	670,838.10	642,121.41	264,792.84	3,873.48	6,462.00
Teff	9,578.88	1,708.20	-	-	78,985.80	21,661.58	680.40	340.00
Barley	339.75	54.60	21,424.77	10,233.66	19,861.88	7,065.82	-	-
Wheat	76,912.70	13,313.17	305,646.55	660,473.79	333,142.64	115,259.05	130.00	130.00
Maize	14,707.46	5,058.30	6,523.34	3.90	177,268.09	92,053.65	2,939.73	5,849.00
Sorghum	-	-	-	-	82.71	46.80	-	-
Finger millet	-	-	-	-	12,396.29	4,061.85	-	-
Oats/'Aja' /	-	-	-	-	-	-	-	-
Rice	-	-	733.93	126.75	20,384.00	24,644.10	123.35	143.00
Pulse	2,881.60	496.18	1,372.89	487.50	1,139.49	796.38	217.00	535.00
Horse/Faba beans	231.46	30.13	283.56	-	639.69	86.58	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-
R/Haricot bean	95.20	21.45	851.33	409.50	23.80	7.80	42.00	200.00
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	89.25	29.25	-	-	357.00	585.00	15.00	15.00
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	119.00	117.00	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/"Masho" /	2,465.69	415.35	238.00	78.00	-	-	160.00	320.00
Gibto	-	-	-	-	-	-	-	-
Oile seeds	8,512.08	1,476.59	6,296.29	2,527.20	10,347.05	2,303.83	-	-
Nueg	-	-	6,296.29	2,527.20	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rapeseed	8,512.08	1,476.59	-	-	10,347.05	2,303.83	-	-
Vegetables	70,629.41	89,423.45	97,262.30	22,031.63	824.88	2,320.50	1,565.52	123,276.00
Lettuce	5,219.94	621.08	5,219.94	576.65	-	-	24.78	-
Head Cabbage	5,724.02	1,355.25	4,611.25	-	250.32	663.00	-	-
Ethiopian Cabbage	-	-	-	-	374.64	828.75	-	-
Tomatoes	59,685.45	87,447.13	82,419.89	21,454.97	-	-	1,110.54	118,456.00

Green peppers	-	-	5,011.22	-	199.92	828.75	430.20	4,820.00
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	63,218.23	92,285.70	60,523.00	32,180.85	7,314.71	8,574.15	4.00	70.00
Beet root	3,063.75	-	-	-	-	-	-	-
Carrot	2,120.00	-	-	-	-	-	-	-
Onion	57,123.62	92,084.85	59,612.14	32,180.85	6,403.85	7,569.90	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	910.86	200.85	910.86	-	910.86	1,004.25	4.00	70.00
Taro/'Godere'/	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	12,583.55	8,885.47	10,409.80	4,098.64	-	-	12.28	-
Permanent crops	-	-	-	-	-	-	-	-
Fruit crops	88,752.01	160,668.87	93,165.03	8,706.95	1,833.02	1,989.98	1,415.44	10.00
Avocado	-	-	13,477.82	35.10	-	-	37.22	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun'/	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	363.96	1,181.93	606.96	1,895.79	455.71	19.60	21.60	10.00
Oranges	2,308.95	1,953.06	753.33	234.59	1,377.31	1,970.38	3.33	-
Papayas	86,079.10	157,533.87	78,326.92	6,541.47	-	-	1,353.29	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	61,121.92	234,400.92	95,688.50	25,531.35	181,920.57	68,068.94	8,990.57	-
Chat	-	-	-	-	-	-	-	-
Coffee	29.75	3.12	-	-	41,602.25	21,678.78	7,619.48	-
Tea	-	-	-	-	32,201.40	19,999.20	1,320.00	-
Hopes/'Geshe'/	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	60,811.98	234,000.00	95,688.50	25,531.35	108,116.92	26,390.97	4.00	-
Cotton	280.19	397.80	-	-	-	-	47.09	-
Other permanent crops	16,779.99	7,604.42	33,283.70	24,278.44	2,776.87	4,774.54	30.29	-

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
Total	309.38	117.00	9.52	-	-	-	-	-
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	88.64	48.75	9.52	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	1.42	9.75	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	19.04	19.50	9.52	-	-	-	-	-
Green peppers	68.18	19.50	-	-	-	-	-	-
Red papers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	220.74	68.25	-	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	220.74	68.25	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere'/	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-

Other Temporary	-	-	-	-	-	-	-	-
Permanent crops	-	-	-	-	-	-	-	-
Fruit crops	-	-	2,680.99	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun'/'	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	-	-	-	-	-	-	-	-
Oranges	-	-	2,680.99	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Geshe'/'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other permanent crops	-	-	-	-	-	-	-	-

TABLE 3 BENISHANGUL CONT.....								
	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
Total	593.22	62.40	-	-	1,106.71	257.40	-	-
Grains	-	-	-	-	1,106.71	257.40	-	-
Cereals	-	-	-	-	1,106.71	257.40	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	1,106.71	257.40	-	-
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	593.22	62.40	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	-	-	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red papers	593.22	62.40	-	-	-	-	-	-
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 crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Gesho'/'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other permanent crops	-	-	-	-	-	-	-	-

TABLE 3 S.N.N.P CONT.....								
	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
Total	15,174.23	35,654.20	9,307.02	14,669.85	135,163.87	68,446.76	4.00	-
Grains	10,221.36	13,210.67	4,435.73	1,240.20	133,747.17	67,951.46	-	-
Cereals	4,837.84	1,220.70	4,435.73	1,240.20	123,491.15	64,377.69	-	-
Teff	-	-	-	-	20,500.73	8,127.60	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	787.19	202.80	3,284.40	928.20	4,302.46	1,427.60	-	-
Maize	4,050.65	1,017.90	1,151.33	312.00	93,705.25	52,484.45	-	-
Sorghum	-	-	-	-	3,911.71	1,955.85	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'/'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	1,071.00	382.20	-	-
Pulse	5,043.24	11,892.47	-	-	10,256.02	3,573.77	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	313.57	102.77	-	-
R/Haricot bean	-	-	-	-	59.50	19.50	-	-
B/Haricot bean	-	-	-	-	-	-	-	-
Chick peas	4,442.88	11,635.07	-	-	9,882.95	3,451.50	-	-
Lentiles	-	-	-	-	-	-	-	-
Vetch/Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Mung beans/"Masho"/	600.36	257.40	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-

Oile seeds	340.28	97.50	-	-	-	-	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	340.28	97.50	-	-	-	-	-	-
Rapeseed	-	-	-	-	-	-	-	-
Vegetables	3,665.82	22,398.68	3,592.45	13,384.80	220.75	103.35	4.00	-
Lettuce	-	-	-	-	-	-	-	-
Head Cabbage	-	-	13.09	7.80	-	-	-	-
Ethiopian Cabbage	-	-	-	-	-	-	-	-
Tomatoes	3,494.90	22,224.15	3,420.52	13,273.65	220.75	103.35	-	-
Green peppers	84.08	71.18	72.00	-	-	-	4.00	-
Red papers	86.84	103.35	86.84	103.35	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	120.85	44.85	112.64	44.85	29.75	9.75	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	120.85	44.85	112.64	44.85	-	-	-	-
Potatoes	-	-	-	-	29.75	9.75	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere' /	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	1,166.20	-	1,166.20	-	1,166.20	382.20	-	-
Permanent crops	-	-	-	-	-	-	-	-
Fruit crops	-	-	2.98	-	303.27	15.60	4,416.29	632,306.00
Avocado	-	-	-	-	-	-	2,108.00	632,250.00
Bananas	-	-	-	-	-	-	2,226.00	-
Guava/'Zeytun' /	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	22.80	22.00
Mangos	-	-	2.98	-	-	-	8.52	20.00
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	303.27	15.60	50.97	14.00
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	17,560.24	30,560.40	-	-	52,499.53	37,115.13	4,645.20	60.00
Chat	-	-	-	-	-	-	-	-
Coffee	10,591.00	-	-	-	47,281.38	32,273.28	2,300.00	-
Tea	-	-	-	-	5,218.15	4,841.85	2,201.20	-
Hopes/'Gescho' /	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-

Sugar cane	-	-	-	-	-	-	-	-
Cotton	6,969.24	30,560.40	-	-	-	-	144.00	60.00
Other permanent crops	441.94	325.65	582.78	11,407.50	-	-	54.63	54.00

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	87,606.24	386,206.76	1,360.17	639.60	62,789.53	271,001.95	-	-
Grains	87,606.24	386,206.76	1,360.17	639.60	62,789.53	271,001.95	-	-
Cereals	6,128.50	1,095.90	-	-	16,744.80	7,940.40	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	4,581.50	900.90	-	-	12,691.65	6,591.98	-	-
Sorghum	1,547.00	195.00	-	-	4,053.15	1,348.43	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja' /	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	81,474.76	385,108.91	1,360.17	639.60	46,044.73	263,061.55	-	-
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" /	81,474.76	385,108.91	1,360.17	639.60	46,044.73	263,061.55	-	-
Gibto	-	-	-	-	-	-	-	-
Oile seeds	2.98	1.95	-	-	-	-	-	-
Nueg	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Ground nuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-

Sesame	2.98	1.95	-	-	-	-	-	-
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	30,142.13	37,825.91	-	-	40,583.90	45,104.48	361.00	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	12,464.18	7,853.63	-	-
Tea	-	-	-	-	2,147.95	-	361.00	-
Hopes/'Gescho' /	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	30,142.13	37,825.91	-	-	25,971.77	37,250.85	-	-
Other permanent crops	-	-	-	-	-	-	-	-

Table 3DIRE DAWA 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	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-
Fruit crops	-	-	5.95	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava/'Zeytun'/	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	-	-	5.95	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Gesho'/	-	-	-	-	-	-	-	-
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
Total	361.78	208.65	699.05	156.00	311.50	156.00	-	-
Grains	361.78	208.65	669.00	156.00	311.50	156.00	-	-
Cereals	361.78	208.65	578.08	156.00	311.50	156.00	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	252.00	156.00	311.50	156.00	-	-
Maize	361.78	208.65	326.08	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats/'Aja'/	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	90.92	-	-	-	-	-
Horse/Faba beans	-	-	-	-	-	-	-	-
Field peas	-	-	-	-	-	-	-	-
W/Haricot bean	-	-	-	-	-	-	-	-

R/Haricot bean	-	-	90.92	-	-	-	-	-
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	-	-	30.05	-	-	-	-	-
Beet root	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	30.05	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro/'Godere'/	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary	-	-	-	-	-	-	-	-
Permanent crops	-	-	-	-	-	-	-	-
Fruit crops	-	-	822.83	13.65	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	444.29	-	-	-	-	-
Guava/'Zeytun'/	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangos	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	378.54	13.65	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crpops	-	-	-	-	-	-	-	-

Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hopes/'Gesho'/	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other permanent crops	-	-	61.88	-	-	-	-	-

Note:-

1. In all tables “-” indicates not reported or no data.
2. This report does not include Small holder main season and belg (short rainy season) crop production. Separate reports will be produced for those agriculture practice categories.
3. In all zones of Tigray region, the survey was totally not done due to security problems, as a result of this for the completeness of national estimates we take the result of 2012 E.c/2019/20 G.C in these areas so we advise data users to use the estimates carefully for these areas.