FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA

CENTRAL STATISTICAL AGENCY

LARGE AND MEDIUM SCALE COMMERCIAL FARMS SAMPLE SURVEY 2009/10(2002 E.C)

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RESULTS AT COUNTRY AND REGIONAL LEVELS

VOLUME VIII

STATISTICAL REPORT ON
AREA AND PRODUCTION OF CROPS, AND FARM MANEGEMENT PRACTICES

ADDIS ABABA
OCTOBER, 2010

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Chapter I

1. Background

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 45 percent to the country's GDP, and above all, the sector is believed to be the main source of capital to be accumulated for the process of establishing the future industrialized Ethiopia, which again shows the determinant role played by the sector to bring about sustainable economic development for the country in the years to come.

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

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

As mentioned earlier, improvements that have been registered in the overall performance of the agricultural sector, during the past six consecutive years, cannot be considered as an end by itself but could be taken as an indictor 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, share holders, 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 intuitional farms in Awassa, Arbaminch, Zeway and

Shewarobit which later on transformed into well organized and relatively mechanized state, large scale private farms and institutional farms which later on called 'Commercial Farms' collectively.

Since then, large and medium scale commercial farms in Ethiopia had been forced to be reorganized by undertaking various structural and organizational adjustments with varying legal status including ownership over a number of economic policy changes that took place over the last three decades. Nevertheless, a decade has passed since the existing Commercial farms reorganized on the basis of market oriented economic policy adopted by the existing Federal Democratic Republic Government of Ethiopia.

This report is the third 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 2008/2009 (2001 E.C). During the years between the last two reports the Central Statistical Agency had conducted more than two 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, data collection methodology and related survey document in the year 2009/10 (2002 E.C.), CSA conducted Large and Medium Scale Commercial farms sample survey covering the whole country. The results of the survey are summarized and presented in this report.

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 2009/10 (2002 E.C.) commercial farms sample survey.

2. Objectives of the 2009/10 (2002 E.C.) Large and Medium Scale Commercial Farms Survey

The major objectives of the 2009/10 (2002 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 used for agricultural production, such as type and quantity of fertilizers, pesticides, and improved seeds,

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 II

Survey Methodology, Operation and Data Processing

2. Survey Methodology

2.1 Scope & Coverage

The 2007/08 large & medium scale farms cover all urban & rural parts of the country. A total of 2105 farms were planned to be covered. But the survey succeeded to cover 1766 farms.

Considering the cost and manageability of field work a sample of 2105 farms is decided to be covered at national level. This sample is allocated to each region based on number of farms each region has. Number of farms planned and covered is given in Table 1.

2.2 Sampling frame

The sampling frame which is list of commercial farms with their cropland area size and livestock number is collected from all part of the country through CSA Branch Statistical Offices. The collected farm list is compiled at the head office and those 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. Separate 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 cut off point are selected with certainty where as farms having area/ number of livestock below the cut off 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

Table 1 Number of planed and covered farms

Region	Number of	
	Planned	Covered
Tigray	515	378
Afar	97	93
Amhara	483	455
Oromia	415	378
Somali	42	31
Benshangul-Gumuz	157	112
SNNPR	284	229
Gambella	37	29
Harari	7	7
Addis Ababa	56	14
DireDawa	12	5
Total	2105	1766

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 the field data collection operations and for the strict control and supervision of the fieldwork.

Since the Commercial farms sample survey is part and parcel of the 2009/10 (2002 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 coordinators 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

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

However, due to their scattered location, and a number of technical and administrative reasons, the field data collection activities for commercial farms was planned to be carried out by senior supervisors. Accordingly, CSA organized a two stage training program that is a training of trainers and followed by training of supervisors. The first stage training was given at the CSA headquarter in Addis Ababa to the trainers consisting of professional staff from different departments at head office. The training was a sort of refreshment that lasted for 4 days. The second stage training was wider in its scope, focusing on reviewing the details of the prepared survey documents and followed by discussions on the past survey experience that took place in 25 training centers located at CSA Branch Offices for 7 days.

3.2 Method of enumeration

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 operation that was carried out during 2009/10 (2002 E.C.), Commercial farms sample survey was performed simply by compiling data from already existing administrative records found in each of the respective farm.

4. Data processing

4.1 Editing, Coding and Verification

In the 2009/2010(2002E.C) Commercial farms sample survey, the filled-in forms retrieved from the Branch Statistical Offices were primarily received and

systematically registered at the documentation unit of the CSA head quarters in Addis Ababa. Before launching the actual editing and coding activities, the Natural Resources, Agriculture and Environment Statistics Directorate staff gave adequate training to 10 editors and coders who later on carried out the manual editing, coding and verification of the filled-in Commercial farms questionnaires.

The manual editing and coding activities of the filled-in forms were done region by region. To ensure the quality of the manual editing and coding work, verification of the completed questionnaires was carried out on 100% basis.

For the total country, the editing, coding and verification of the filled-in forms for the commercial farms took 8 editors and about 31 working days.

4.2 Data Entry, Cleaning and Tabulation

About 64 data encoders were assigned to undertake the data entry activity of the 2009/10 filled-in and edited questionnaires of the large and medium scale farms. Before starting the actual data entry operation, data encoders were trained for about a half day using computer programs developed by the Data Processing Department staff. The Programmers prepared the data entry programs using CESPRO.

The data entry exercise was carried out using 64 personal computers (PC's), and it was done region by region as in the case of the manual editing, coding and verification. In order to check the quality of the entered data, verification exercises were carried out. To this end verification activity, on 100% basis, was carried out through the process of re-entering the data. For the total country, the whole data entry process of the filled-in forms on commercial farms took 64 entry clerks around 16 working days.

Data entered into the computer needs to be checked for completeness, consistency and validity. For this purpose, computer edit programs were prepared. Using printouts from these programs and referring to the original filled-in forms, corrections were made by trained manual data cleaning technicians. Moreover, other data-cleaning computer operators were involved in making the actual corrections of the data on

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

Data made ready for tabulation through the process of cleaning and intermediate programs was finally used to generate the required tables. This was done using tabulation programs developed by the senior programmers of the Data Processing Department.

5. 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 share holders, 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, Enset, 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 ploughing in preparation for each successive crop.
- **Permanent Crops**:- crops which are grown and occupy land for a long period of time, not requiring replanting for several years after each harvest, are considered as permanent crops. All fruit trees (i.e. Oranges, Mandarin, Banana ...etc) and trees for beverages (i.e. Coffee, Tea, Gesho…etc.) are considered permanent crops but meadows and pastures are excluded.
- **Meher (main) Season Crop**:- any crop harvested between Meskerem (September) and Yeaktit(February) is considered as Meher season crop.
- **Belg Season Crop**:- Any crop harvested during the months of March (Megabit) and August (Nehase) is considered to be Belg season crop.
- **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 parts, natural and industrial. Examples of natural fertilizers are farmyard manure, wood ashes, etc, while industrial fertilizers are DAP (Di-Ammonium phosphate), UREA (Ammonium Nitrate), … etc.
- **Pesticides**:- Pesticides are chemicals useful for mitigation, control or elimination of pests which are troublesome or harmful to crops. Insecticides, herbicides and fungicides are all considered as pesticides.

Chapter III

Summary of the 2009/10 (2002 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 2009/10 (2002 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. These are Grains *(which includes cereals, pulses and oil crops)*, vegetables and root crops.

In this chapter of the report, discussions on major findings of the survey results on cropped area and production of temporary crops for both Meher and Belg seasons total, as well as for Meher season permanent crops presented in Section 3.2. Likewise, major findings on Farm Management Practices for Temporary and Permanent crops for both Meher and Belg seasons are presented in section 3.3, as obtained and summarized from the results of the 2009/10 (2002 E.C.) Large and Medium Scale Commercial Farms Sample Survey.

3.2 Both Seasons 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 stable 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.

Summary Table 1 Estimates of total cropland area by major crop category and season for commercial farms: Country level, 2009/10 (2002 E.C.)

Major Crop Category	Total Cropland area in Hectare			% Share from Both Seasons Total	
	Season				
	Meher	Belg	Both	Meher	Belg
Grain	408,175.26	7,327.04	415,502.30	98.24	1.76
Vegetables	4,333.57	354.51	4,688.08	92.44	7.56
Root crops	1,538.69	664.40	2,203.09	69.84	30.16
Other Temp. crops	1,926.54	132.08	2,058.62	93.58	6.42
All Temporary Crops	415,974.06	8,478.03	424,452.09	98.00	2.00

Summary Table 2 Estimates of total production harvested by major crop category and season for commercial farms: Country level, 2009/10 (2002 E.C.)

Major Crop Category	Total Production in Quintals			% Share from Both Seasons Total	
	Season				
	Meher	Belg	Both	Meher	Belg
Grain	8,393,447.41	138,715.08	8,532,162.49	98.37	1.63
Vegetables	624,375.77	42,284.73	666,660.50	93.66	6.34
Root crops	236,163.55	175,227.43	411,390.98	57.41	42.59
Other Temp. crops	456,035.60	15,459.03	471,494.63	96.72	3.28
All Temporary Crops	9,710,022.33	371,686.27	10,081,708.60	96.31	3.69

According to the results of the 2009/10 (2002 E.C) Large and Medium Scale Commercial Farms sample survey, the total grain crops covered area was found to be **415,502.30** hectares (97.89 % of the total country level temporary crops covered land area), from which a total of 8,532,162.49 quintals of production, (84.63 % of the total country level production of temporary crops) was obtained during 2009/10 both Meher and Belg seasons 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 2009/10 Meher season, contributed the lion share. Accordingly, Meher season accounted for 98.24 % (i.e. 408,175.26 **hectares**) of the total both seasons grain crops covered total land area (See summary Table 1 and Figure.1) and 98.37%

(8,393,447.41 quintals) from the total both seasons grain crops production (See Summary Table 2 and Figure 2), while the remaining insignificant proportion of the cultivated area and production of grains were the contribution of the 2009/10 Belg season harvest (for the details see Summary Table 1 , 2 and Figure 1 and 2) .

Figure 1: percentage distribution of total crop land area by major crop category and season for commercial farms. country level 2009/10 (2002 E.C)

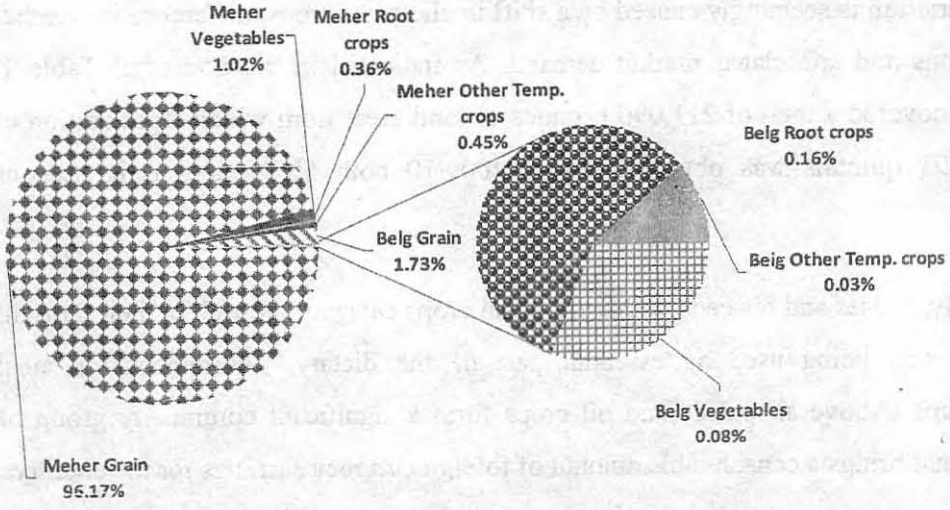
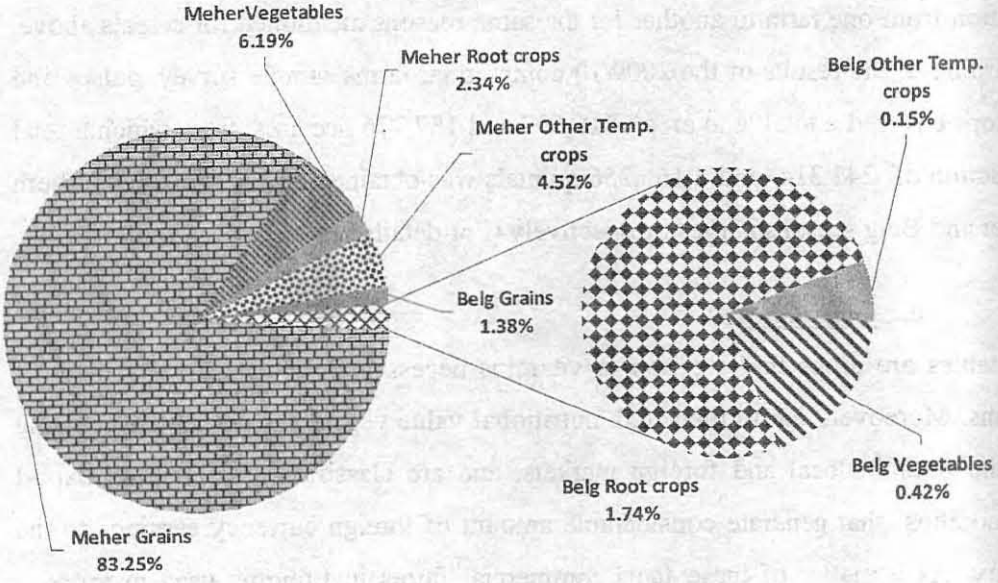


Figure 2.percentage distribution of total production harvest by major crop category and season for commercial farms. country level 2009/10 (2002 E.C)



Moreover, as it has been mentioned earlier, cereals which are classified with in 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 Statistical Table 1, cereals covered a total of 211,090 hectares of land area, from which a production of 6,125,593 quintals was obtained during 2009/10 both Meher and Belg seasons 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 2009/10 commercial farms sample survey, pulses and oil crops covered a total land area of 16,637 and 187,776 hectares, from which a total production of 241,314 and 2,165,256 quintals was obtained during the 2009/10 both Meher and Belg seasons harvest, respectively (For details see Statistical Table 1).

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 Summary Table 1, vegetables covered a total of 4,688.08 hectares of land from which a total volume of 666,660.50 quintals was obtained in 2009/10 both Meher and Belg seasons harvest.

Like that of grain crops the share of Meher season vegetables covered land area and production dominate compared to that of the Belg season cultivated area and production of vegetables (For the details see Summary Tables 1 and 2).

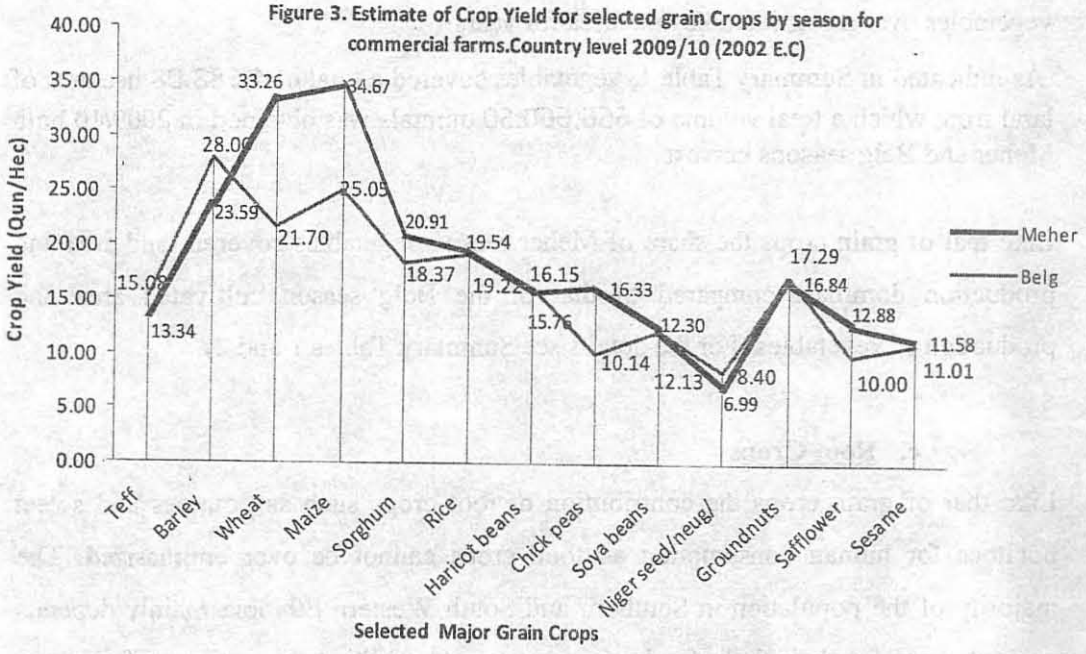
c, Root Crops

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.

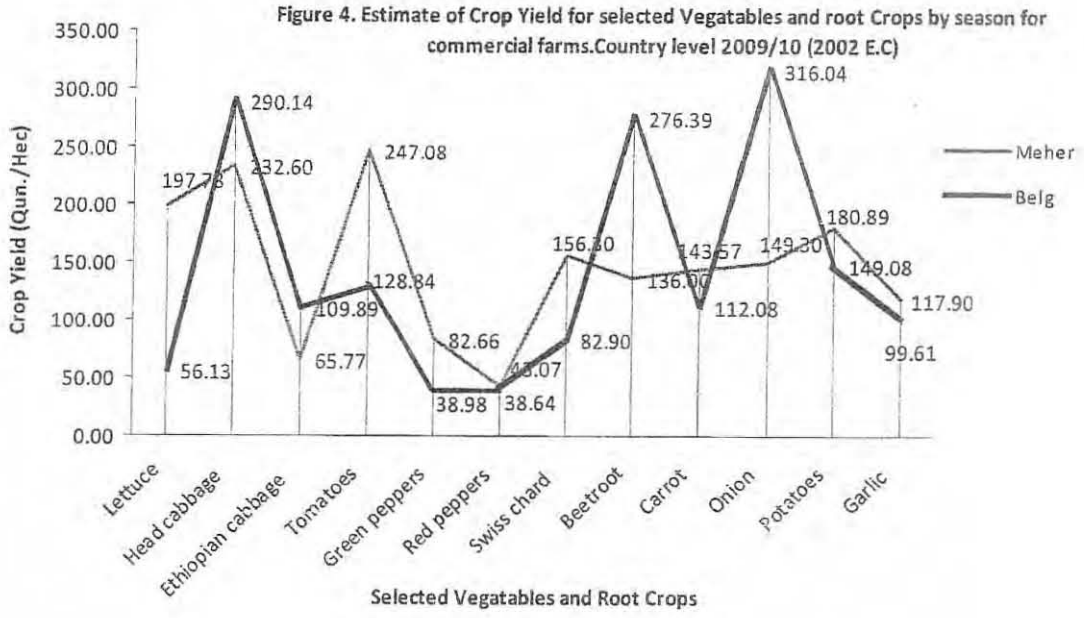
As the survey result indicates, the total area under root crops was found to be 2,203.09 hectares, from which a total production of 411,390.98 quintals was obtained from both Meher and Belg seasons harvest (See Summary Tables 1 and 2).

3.2.1 Comparisons of Meher with Belg seasons post harvest crop productivity during 2009/10 crop production year.

Because of the presence of adequate rain fall and favorable weather conditions during the 2009/10 both Meher and Belg crop-growing seasons, significant increase and also improvement in the application of improved inputs were observed in crop productivities attained in each of the respective seasons.



For instance, looking at the 2009/10 both Meher and Belg seasons, the estimated crop productivity of the selected major food crops presented in Figures 3 and 4, the crop productivity reported for each of the selected crops during the 2009/10 Meher season was higher for some grain crops as compared to the productivity reported for the same crops during the Belg season harvest of the same year except, few crops. The same is true for vegetables and root crops except head cabbage, Ethiopian cabbage, beetroot and Onion (For details see Figures 3 and 4).



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 of 84,746 hectares with a total production of 16,931,479 quintals obtained from commercial farms during the year 2009/10 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 production harvested by major crop category and season for commercial farms: National level,2009/-10 (2002 E.C.)

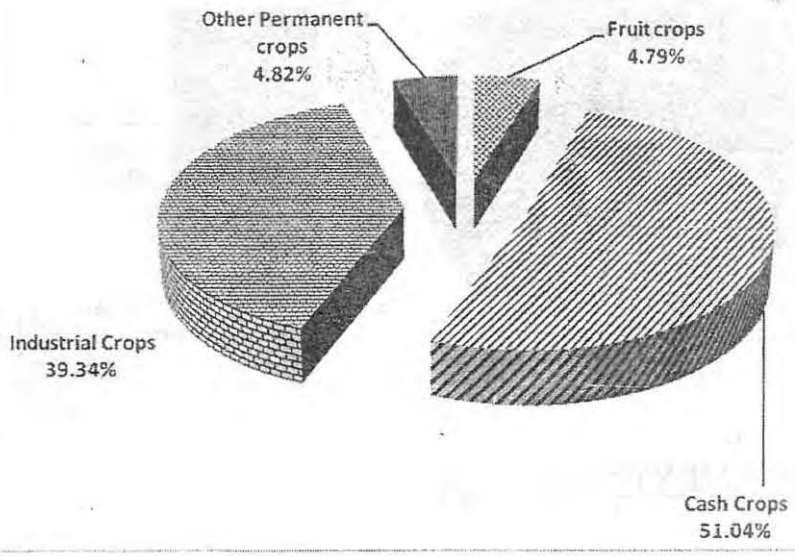
Major Crop Categories	Total			
	Crop land Area		Production	
	in Hectare	%	in Quintals	%
Fruit crops	5,732.22	6.76	579,411.81	3.42
Cash Crops	61,075.98	72.07	775,155.66	4.58
Industrial Crops	47,076.82	55.55	15,829,769.11	93.49
Other Permanent crops	5,771.40	6.81	519,051.82	3.07
All Permanent crops	84,745.65	100	16,931,479.02	100

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.

As indicated in Summary Table 3, fruit crops cover a total of 5,732.22 hectares (6.76% of the total crop land area under permanent crops), with about 579,411.81 quintals of production (3.42% of the total permanent crops production), during the 2009/10 Meher season harvest (for the details see summary Table 3, figures 5 & 6). Bananas, oranges and mangoes took the highest area and production share of fruit crops (See Table 1)

Figure 5. Percentage distribution of area under permanent and idustrial crops by crop catagories for commercial farms. Country level 2009/10 (2002 E.C)



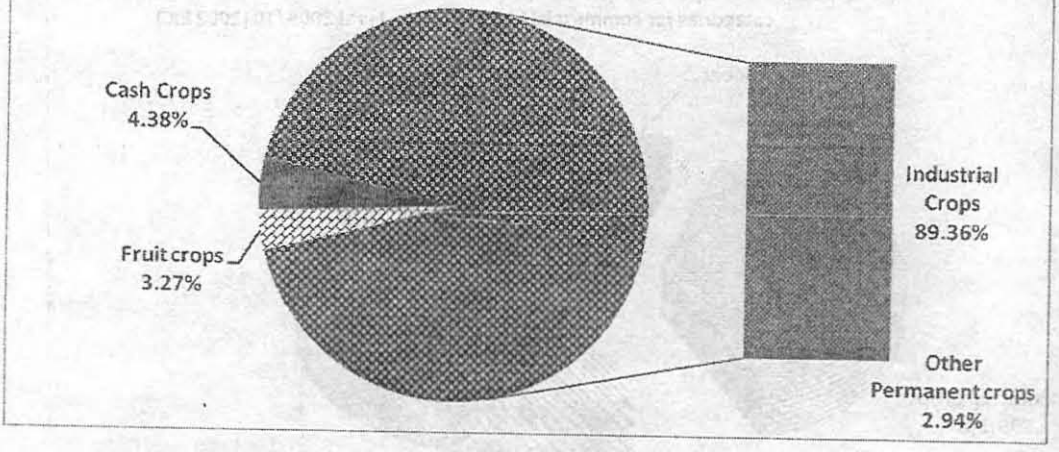
B Cash/Stimulant crops

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 summary Table 3 cash/stimulant crops were grown on an estimated total land area of 61,075.98 hectares, , with a total production estimated at 775,155.66 quintals of production, contributing about 72.07% and 4.58% to the total cropland area and production of permanent, 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 47,076.82 hectares (55.55% of the total area under permanent crops), with a total production of 15,829,769.11quintals (93.49% of the total permanent crops production), during the 2009/10 Meher season harvest.

Figure 6. Percentage distribution of permanent and idustrial crops production by crop catagories for commercial farms. Country level 2009/10 (2002 E.C)



3.4 FARM MANAGEMENT PRACTICE

3.4.1 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 2009/10 (2002 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.

3.4.2 Cropland Area under Different Agricultural Input and Farm Management Practices

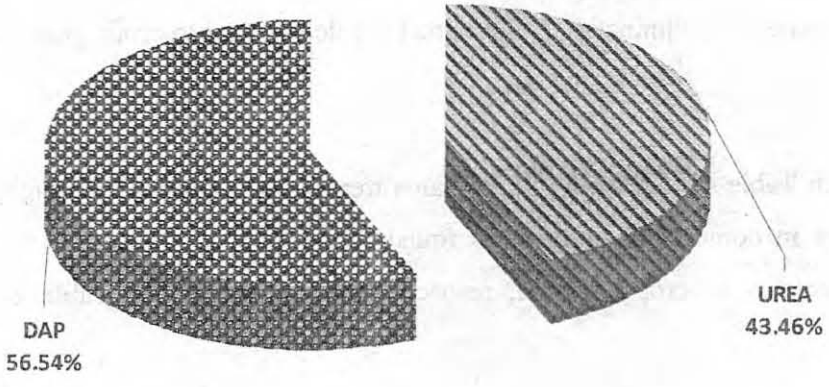
This section of the chapter deals with the agricultural input applied cropland area and quantity of inputs used by commercial farms.

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 2009/10 (2002 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 DAP (DI-Ammonium phosphate, and UREA (Ammonium nitrate).

The results of the survey indicates that at country level the total Urea and DAP applied cropland area was found to be 148,028.85 and 192,574.13 hectares, which accounted for 27.21% and 35.39% of the total cropland area reported for Commercial farms at country level, during the 2009/10 both Meher and Belg seasons harvest. (For details see Table 4)

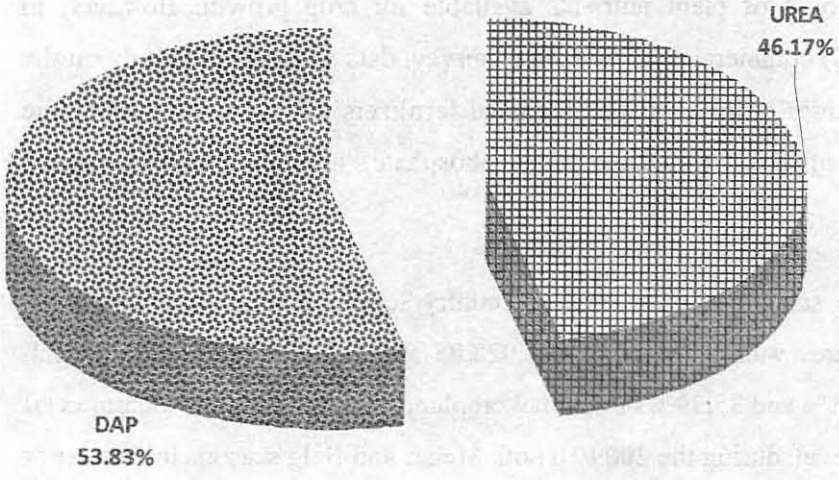
Figure 7. percentage distribution of chemical fertilizers applied cropland area by type of fertilizer for commercial farms. country level 2009/10 (2002 E.C)



b. **Quantity of Chemical Fertilizer Applied**

According to the results of the survey, the total quantity of chemical fertilizers applied during 2009/10 for commercial farms was found to be 292,962.68 quintals during Both Meher and Belg seasons. Out of which the share of DAP was 53.83%, while the remaining 46.17% share was found to be the contribution of UREA (For details see Table 4 and Figure 8).

Figure 8. percentage distribution of total amount of chemical fertilizers applied by type of fertilizer for commercial farms. country level 2009/10 (2002 E.C)

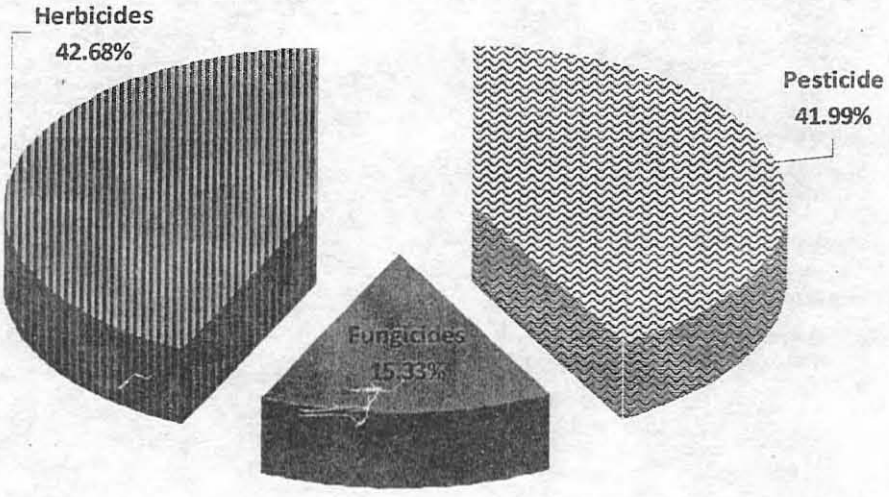


c. **Cropland Areas Treated with Chemicals**.

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 Table 4, the total cropland area treated with pesticides, fungicides and herbicides in commercial farms was found to be 250,323.89, 91,409.83 and 254,427.08 hectares of cropland area, respectively (For details see Table 4 and Figure 9).

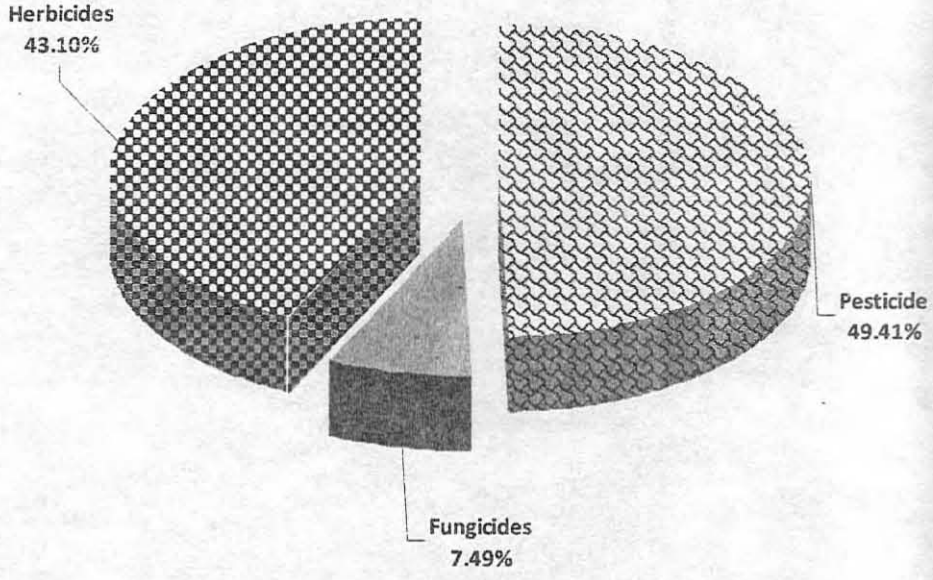
Figure 9. percentage distribution of chemical treated cropland area by type of commercials used farms. country level 2009/10 (2002 E.C)



d. Quantity of Chemicals used

The total quantity of chemicals used during 2009/10 for commercial farms was found to be 11,970.17 quintals during Both Meher and Belg seasons, out of which the share of pesticides and fungicides was 49.41% and 7.49%, respectively. While the remaining 43.10% share was found to be the contribution of herbicides (For details see Table 4 and Figure 10).

Figure 10. percentage distribution of total amount of chemicals applied by type of chemicals for commercial farms. country level 2009/10 (2002 E.C)



National and Regional Statistical Tables On Cropped Area and Production

Table 1 Estimates of Cropland Area and Production of Major Crops for Commercial Farms, 2009/10 (2002 E.C.), Both Seasons

Country

Crop Types	Total Cropped land area in Hectare						Total Production in Quintals								
	Seasons						Seasons								
	Meher(Main)		Belg		Both Seasons		Meher(Main)			Belg			Both Seasons		
	Hectare	%	Hectare	%	Hectare	%	Quintals	%	Yield	Quintals	%	Yield	Quintals	%	Yield
Total	**535,630.49**	**100.00**	**8,478.02**	**100.00**	**544,108.51**	**100.00**	**27,413,410.73**	**100.00**		**371,686.27**	**100.00**		**27,785,097.00**	**100.00**	
Grain crops	**408,175.26**	**100.00**	**7,327.04**	**100.00**	**415,502.30**	**100.00**	**8,393,447.41**	**100.00**		**138,715.08**	**100.00**		**8,532,162.50**	**100.00**	
Cereals	**206,605.16**	**50.60**	**4,484.79**	**61.20**	**211,089.95**	**50.80**	**6,019,595.62**	**71.70**		**105,997.06**	**76.40**		**6,125,592.69**	**71.80**	
Teff	4,029.92	1.00	121.29	1.70	4,151.21	1.00	53,775.13	0.60	13.34	1,828.65	1.30	15.08	55,603.78	0.70	13.39
Barley	1,961.85	0.50	77.70	1.10	2,039.55	0.50	46,287.79	0.60	23.59	2,175.55	1.60	28.00	48,463.34	0.60	23.76
Wheat	59,367.45	14.50	173.97	2.40	59,541.42	14.30	1,974,338.65	23.50	33.26	3,775.01	2.70	21.70	1,978,113.66	23.20	33.22
Maize	72,394.15	17.70	3,384.13	46.20	75,778.29	18.20	2,509,854.44	29.90	34.67	84,755.81	61.10	25.05	2,594,610.25	30.40	34.24
Sorghum	66,951.22	16.40	619.71	8.50	67,570.93	16.30	1,400,048.05	16.70	20.91	11,386.28	8.20	18.37	1,411,434.33	16.50	20.89
Finger millet	405.95	0.10	-	-	405.95	0.10	6,139.98	0.10	15.13	-	-	-	6,139.98	0.10	15.13
Oats / 'Aja'	14.04	*	-	-	14.04	*	223.93	*	15.95	-	-	-	223.93	*	15.95
Rice	1,480.57	0.40	108.00	1.50	1,588.57	0.40	28,927.66	0.30	19.54	2,075 76	1.50	19.22	31,003.42	0.40	19.52
Pulse	**16,208.07**	**4.00**	**428.48**	**5.80**	**16,636.55**	**4.00**	**235,311.47**	**2.80**		**6,002.66**	**4.30**		**241,314.13**	**2.80**	
Horse / Faba beans	691.05	0.20	-	-	691.05	0.20	9,678.11	0.10	14.00	-	-	-	9,678.11	0.10	14.00
Field Peas	42.26	*	-	-	42.26	*	574.16	*	13.59	-	-	-	574.16	*	13.59
Haricot beans	7,276.88	1.80	208.64	2.80	7,485.52	1.80	114,668.57	1.40	15.76	3,370.60	2.40	16.15	118,039.18	1.40	15.77
Chick peas	2,329.55	0.60	16.89	0.20	2,346.44	0.60	38,041.72	0.50	16.33	171.24	0.10	10.14	38,212.96	0.40	16.29
Lentils	29.76	*	-	-	29.76	*	335.72	*	11.28	-	-	-	335.72	*	11.28
Vetch / Grass peas	58.83	*	-	-	58.83	*	936.92	*	15.93	-	-	-	936.92	*	15.93
Soya beans	5,779.60	1.40	202.94	2.80	5,982.54	1.40	71,074.27	0.80	12.30	2,460.81	1.80	12.13	73,535.08	0.90	12.29
Fenugreek	0.15	*	-	-	0.15	*	2.00	*	12.96	-	-	-	2.00	*	12.96
Gibto	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oilseeds	**185,362.03**	**45.40**	**2,413.77**	**32.90**	**187,775.80**	**45.20**	**2,138,540.32**	**25.50**		**26,715.36**	**19.30**		**2,165,255.68**	**25.40**	
Niger seed/neug/	2,259.47	0.60	21.13	0.30	2,280.60	0.50	15,803.54	0.20	6.99	177.53	0.10	8.40	15,981.07	0.20	7.01
Linseed	183.69	*	-	-	183.69	*	2,295.92	*	12.50	-	-	-	2,295.92	*	12.50
Groundnuts	1,143.62	0.30	33.47	0.50	1,177.10	0.30	19,263.58	0.20	16.84	578.74	0.40	17.29	19,842.32	0.20	16.86
Safflower	5,667.54	1.40	9.80	0.10	5,677.33	1.40	72,970.92	0.90	12.88	97.97	0.10	10.00	73,068.89	0.90	12.87
Sesame	171,491.74	42.00	2,347.31	32.00	173,839.05	41.80	1,985,919.02	23.70	11.58	25,834.40	18.60	11.01	2,011,753.42	23.60	11.57
Rape seed	4,615.97	1.10	2.06	*	4,618.03	1.10	42,287.35	0.50	9.16	26.72	*	13.00	42,314.07	0.50	9.16
Vegetables	**4,333.57**	**100.00**	**354.51**	**100.00**	**4,688.08**	**100.00**	**624,375.77**	**100.00**		**42,284.73**	**100.00**		**666,660.50**	**100.00**	
Lettuce	825.14	19.00	2.68	0.80	827.82	17.70	163,198.69	26.10	197.78	150.31	0.40	56.13	163,349.01	24.50	197.33
Head cabbage	88.49	2.00	25.59	7.20	114.08	2.40	20,583.10	3.30	232.60	7,423.70	17.60	290.14	28,006.80	4.20	245.50
Ethiopian cabbage	31.12	0.70	3.53	1.00	34.65	0.70	2,046.47	0.30	65.77	388.31	0.90	109.89	2,434.78	0.40	70.27
Tomatoes	1,370.91	31.60	241.45	68.10	1,612.36	34.40	338,722.31	54.20	247.08	31,108.35	73.60	128.84	369,830.65	55.50	229.37
Green peppers	16.53	0.40	23.23	6.60	39.76	0.80	1,366.33	0.20	82.66	905.51	2.10	38.98	2,271.84	0.30	57.14
Red peppers	1,893.12	43.70	56.54	15.90	1,949.66	41.60	81,537.27	13.10	43.07	2,184.86	5.20	38.64	83,722.13	12.60	42.94
Swiss chard	108.27	2.50	1.49	0.40	109.76	2.30	16,921.61	2.70	156.30	123.69	0.30	82.90	17,045.29	2.60	155.30
Root crops	**1,538.69**	**100.00**	**664.40**	**100.00**	**2,203.09**	**100.00**	**236,163.55**	**100.00**		**175,227.43**	**100.00**		**411,390.98**	**100.00**	
Beetroot	5.01	0.30	2.36	0.40	7.36	0.30	681.04	0.30	136.00	651.37	0.40	276.39	1,332.41	0.30	180.92
Carrot	115.99	7.50	5.81	0.90	121.80	5.50	16,653.39	7.10	143.57	650.95	0.40	112.08	17,304.33	4.20	142.07
Onion	1,160.02	75.40	463.57	69.80	1,623.60	73.70	173,189.38	73.30	149.30	146,507.45	83.60	316.04	319,696.83	77.70	196.91
Potatoes	200.14	13.00	166.29	25.00	366.43	16.60	36,203.19	15.30	180.89	24,790.76	14.10	149.08	60,993.95	14.80	166.45
Garlic	42.06	2.70	26.37	4.00	68.43	3.10	4,958.54	2.10	117.90	2,626.90	1.50	99.61	7,585.44	1.80	110.85
Taro 'Godere'	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sweet potatoes	15.46	1.00	-	-	15.46	0.70	4,478.02	1.90	289.59	-	-	-	4,478.02	1.10	289.59
Other Temporary crops	1,926.54	100.00	132.08	100.00	2,058.62	100.00	456,035.60	100.00		15,459.03	100.00		471,494.63	100.00	

Table 1. Contd

Country

The Estimates of Cropland area and Production of Permanent Crops.
For Meher Season Only.

Crop Types	Area in Ha.	%	Prod. In Qts	%	Yield (Qtn/ha)
Permanent crops...	**84,745.65**	**70.80**	**16,931,479.02**	**95.60**	
Fruit crops...	**5,732.22**	**4.80**	**579,411.81**	**3.30**	
Avocado.....	65.30	0.10	3,905.23	*	59.81
Bananas.....	791.67	0.70	66,670.48	0.40	84.21
Guava.....	120.05	0.10	2,345.35	*	19.54
Lemons.....	44.44	*	1,991.20	*	44.81
Mangoes.....	2,279.49	1.90	177,118.23	1.00	77.70
Oranges.....	2,179.13	1.80	282,191.87	1.60	129.50
Papayas.....	250.88	0.20	45,163.62	0.30	180.02
Pineapples.....	1.25	*	25.82	*	20.66
Cash crops.....	**61,075.98**	51.00	**775,155.66**	4.40	
Chat.....	15.63	*	326.71	*	20.90
Coffee.....	56,882.16	47.50	649,962.29	3.70	11.43
Tea.....	4,160.45	3.50	124,813.40	0.70	30.00
Hops / 'Gesho'...	17.75	*	53.25	*	3.00
Enset.....	-	-	-	-	-
Sugar cane.....	12,166.04	10.20	15,057,859.73	85.10	1,237.70
Cotton.....	34,910.78	29.20	771,909.38	4.40	22.11
Other Permanent crops	**5,771.40**	**4.80**	**519,051.82**	**2.90**	

Table 2 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2009/10 (2002 E.C.), Meher (Main) Season

Country

Crop Types	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	535,630.49	100.00	27,413,410.73	100.00	
Grain crops	408,175.26	100.00	8,393,447.41	100.00	
Cereals	206,605.16	50.60	6,019,595.62	71.70	
Teff	4,029.92	1.00	53,775.13	0.60	13.34
Barley	1,961.85	0.50	46,287.79	0.60	23.59
Wheat	59,367.45	14.50	1,974,338.65	23.50	33.26
Maize	72,394.15	17.70	2,509,854.44	29.90	34.67
Sorghum	66,951.22	16.40	1,400,048.05	16.70	20.91
Finger millet	405.95	0.10	6,139.98	0.10	15.13
Oats / 'Aja'	14.04	*	223.93	*	15.95
Rice	1,480.57	0.40	28,927.66	0.30	19.54
Pulse	16,208.07	4.00	235,311.47	2.80	
Horse / Faba beans	691.05	0.20	9,678.11	0.10	14.00
Field Peas	42.26	*	574.16	*	13.59
Haricot beans	7,276.88	1.80	114,668.57	1.40	15.76
Chick peas	2,329.55	0.60	38,041.72	0.50	16.33
Lentils	29.76	*	335.72	*	11.28
Vetch / Grass peas	58.83	*	936.92	*	15.93
Soya beans	5,779.60	1.40	71,074.27	0.80	12.30
Fenugreek	0.15	*	2.00	*	12.96
Gibto	-	-	-	-	-
Oilseeds	185,362.03	45.40	2,138,540.32	25.50	
Niger seed/neug/	2,259.47	0.60	15,803.54	0.20	6.99
Linseed	183.69	*	2,295.92	*	12.50
Groundnuts	1,143.62	0.30	19,263.58	0.20	16.84
Safflower	5,667.54	1.40	72,970.92	0.90	12.88
Sesame	171,491.74	42.00	1,985,919.02	23.70	11.58
Rape seed	4,615.97	1.10	42,287.35	0.50	9.16
Vegetables	4,333.57	100.00	624,375.77	100.00	
Lettuce	825.14	19.00	163,198.69	26.10	197.78
Head cabbage	88.49	2.00	20,583.10	3.30	232.60
Ethiopian cabbage	31.12	0.70	2,046.47	0.30	65.77
Tomatoes	1,370.91	31.60	338,722.31	54.20	247.08
Green peppers	16.53	0.40	1,366.33	0.20	82.66
Red peppers	1,893.12	43.70	81,537.27	13.10	43.07
Swiss chard	108.27	2.50	16,921.61	2.70	156.30
Root crops	1,538.69	100.00	236,163.55	100.00	
Beetroot	5.01	0.30	681.04	0.30	136.00
Carrot	115.99	7.50	16,653.39	7.10	143.57
Onion	1,160.02	75.40	173,189.38	73.30	149.30
Potatoes	200.14	13.00	36,203.19	15.30	180.89
Garlic	42.06	2.70	4,958.54	2.10	117.90
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	15.46	1.00	4,478.02	1.90	289.59
Other Temporary crops	1,926.54	100.00	456,035.60	100.00	
Permanent crops	84,745.65	100.00	16,931,479.02	100.00	
Fruit crops	5,732.22	6.76	579,411.81	3.42	
Avocado	65.30	0.08	3,905.23	0.02	59.81
Bananas	791.67	0.93	66,670.48	0.39	84.21
Guava	120.05	0.14	2,345.35	0.01	19.54
Lemons	44.44	0.05	1,991.20	0.01	44.81
Mangoes	2,279.49	2.69	177,118.23	1.05	77.70
Oranges	2,179.13	2.57	282,191.87	1.67	129.50
Papayas	250.88	0.30	45,163.62	0.27	180.02
Pineapples	1.25	0.00	25.82	*	20.66
Cash crops	61,075.98	72.07	775,155.66	4.58	
Chat	15.63	0.02	326.71	*	20.90
Coffee	56,882.16	67.12	649,962.29	3.84	11.43
Tea	4,160.45	4.91	124,813.40	0.74	30.00
Hops / 'Gesho'	17.75	0.02	*	*	*
Enset	-	-	-	-	-
Sugar cane	12,166.04	14.36	15,057,859.73	88.93	1,237.70
Cotton	34,910.78	100.00	771,909.38	100.00	22.11
Other Permanent crops	5,771.40	6.81	519,051.82	3.07	

Table 2.1 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2009/10 (2002 E.C.), Meher (Main) Season

Tigray Region

Crop Types	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	139,875.68	100.00	1,995,247.39	100.00	
Grain crops	131,734.32	100.00	1,689,100.10	100.00	
Cereals	27,984.63	21.20	526,035.50	31.10	
Teff	464.24	0.40	6,181.01	0.40	13.31
Barley	40.46	*	1,132.88	0.10	28.00
Wheat	160.22	0.10	3,177.59	0.20	19.83
Maize	263.17	0.20	9,073.93	0.50	34.48
Sorghum	27,026.01	20.50	505,981.70	30.00	18.72
Finger millet	30.52	*	488.39	*	16.00
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	173.45	0.10	1,978.88	0.10	
Horse / Faba beans	-	-	-	-	-
Field Peas	18.62	*	288.55	*	15.50
Haricot beans	8.45	*	-	-	-
Chick peas	77.16	0.10	695.80	*	9.02
Lentils	21.42	*	251.64	*	11.75
Vetch / Grass peas	47.81	*	742.90	*	15.54
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	103,576.23	78.60	1,161,085.72	68.70	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	42.31	*	434.30	*	10.27
Safflower	-	-	-	-	-
Sesame	103,533.92	78.60	1,160,651.41	68.70	11.21
Rape seed	-	-	-	-	-
Vegetables	457.73	100.00	37,499.35	100.00	
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	259.51	56.70	32,959.10	87.90	127.00
Green peppers	-	-	-	-	-
Red peppers	198.18	43.30	4,537.15	12.10	22.89
Swiss chard	0.04	*	3.10	*	76.00
Root crops	608.76	100.00	110,857.40	100.00	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	534.36	87.80	84,988.41	76.70	159.05
Potatoes	53.10	8.70	23,481.91	21.20	442.21
Garlic	21.31	3.50	2,387.08	2.20	112.03
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	-	-	-	-	-
Permanent crops	179.87	100.00	35,155.68	100.00	
Fruit crops	139.33	77.46	31,453.96	89.47	
Avocado	-	-	-	-	-
Bananas	38.50	21.40	5,866.22	16.69	152.38
Guava	5.04	2.80	201.75	0.57	40.00
Lemons	-	-	-	-	-
Mangoes	19.58	10.89	1,859.74	5.29	95.00
Oranges	56.74	31.55	21,235.24	60.40	374.24
Papayas	19.47	10.82	2,291.00	6.52	117.69
Pineapples	-	-	-	-	-
Cash crops	4.24	2.36	33.92	0.10	
Chat	-	-	-	-	-
Coffee	*	*	*	*	*
Tea	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-
Enset	-	-	-	-	-
Sugar cane	-	-	-	-	-
Cotton	6,895.00	100.00	122,634.85	100.00	17.79
Other Permanent crops	36.31	20.19	3,667.80	10.43	

Table 2.2 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2009/10 (2002 E.C.), Meher (Main) Season

Afar Region

Crop Types	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	22,335.01	100.00	1,143,429.42	100.00	
Grain crops	3,878.64	100.00	103,669.89	100.00	
Cereals	3,351.54	86.40	97,344.73	93.90	
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	3,351.54	86.40	97,344.73	93.90	29.04
Sorghum	-	-	-	-	-
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	-	-	-	-	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	527.10	13.60	6,325.16	6.10	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	-	-	-	-	-
Sesame	527.10	13.60	6,325.16	6.10	12.00
Rape seed	-	-	-	-	-
Vegetables	2.52	100.00	744.66	100.00	
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	2.52	100.00	744.66	100.00	295.50
Green peppers	-	-	-	-	-
Red peppers	-	-	-	-	-
Swiss chard	-	-	-	-	-
Root crops	6.22	100.00	686.27	100.00	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	6.22	100.00	686.27	100.00	110.33
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	-	-	-	-	
Permanent crops	771.96	100.00	656,378.34	100.00	
Fruit crops	1.26	0.16	176.40	0.03	
Avocado	-	-	-	-	-
Bananas	-	-	-	-	-
Guava	-	-	-	-	-
Lemons	-	-	-	-	-
Mangoes	1.26	0.16	176.40	0.03	140.00
Oranges	-	-	-	-	-
Papayas	-	-	-	-	-
Pineapples	-	-	-	-	-
Cash crops	-	-	-	-	
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Tea	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-
Enset	-	-	-	-	-
Sugar cane	500.00	64.77	525,000.00	79.98	1,050.00
Cotton	17,675.67	100.00	381,950.26	100.00	21.61
Other Permanent crops	270.70	35.07	131,201.94	19.99	

Table 2.3 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2009/10 (2002 E.C.), Meher (Main) Season

Amhara Region

Crop Types	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	111,282.67	100.00	2,244,576.71	100.00	
Grain crops	108,536.54	100.00	2,152,075.24	100.00	
Cereals	47,491.50	43.80	1,390,671.38	64.60	
Teff	893.28	0.80	11,615.04	0.50	13.00
Barley	-	-	-	-	-
Wheat	3,821.20	3.50	72,030.75	3.30	18.85
Maize	16,328.80	15.00	785,720.15	36.50	48.12
Sorghum	26,229.02	24.20	518,348.35	24.10	19.76
Finger millet	43.59	*	511.23	*	11.73
Oats / 'Aja'	12.88	*	206.08	*	16.00
Rice	162.73	0.10	2,239.78	0.10	13.76
Pulse	3,612.99	3.30	45,068.59	2.10	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	363.73	0.30	6,048.76	0.30	16.63
Chick peas	846.70	0.80	12,700.42	0.60	15.00
Lentils	0.83	*	9.76	*	11.76
Vetch / Grass peas	-	-	-	-	-
Soya beans	2,401.74	2.20	26,309.66	1.20	10.95
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	57,432.05	52.90	716,335.27	33.30	
Niger seed/neug/	501.67	0.50	3,486.65	0.20	6.95
Linseed	20.79	*	223.49	*	10.75
Groundnuts	0.42	*	7.05	*	17.00
Safflower	45.83	*	497.35	*	10.85
Sesame	56,498.89	52.10	707,240.12	32.90	12.52
Rape seed	364.45	0.30	4,880.60	0.20	13.39
Vegetables	621.83	100.00	54,627.88	100.00	
Lettuce	-	-	-	-	-
Head cabbage	3.10	0.50	488.26	0.90	157.56
Ethiopian cabbage	-	-	-	-	-
Tomatoes	14.69	2.40	881.71	1.60	60.03
Green peppers	2.63	0.40	136.60	0.30	51.94
Red peppers	601.41	96.70	53,121.31	97.20	88.33
Swiss chard	-	-	-	-	-
Root crops	46.08	100.00	7,772.73	100.00	
Beetroot	-	-	-	-	-
Carrot	0.83	1.80	116.20	1.50	140.00
Onion	45.25	98.20	7,656.53	98.50	169.22
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	51.78	100.00	448.32	100.00	
Permanent crops	569.20	100.00	20,458.98	100.00	
Fruit crops	220.09	38.67	16,579.24	81.04	
Avocado	-	-	-	-	-
Bananas	63.02	11.07	1,379.52	6.74	21.89
Guava	15.98	2.81	639.30	3.12	40.01
Lemons	-	-	-	-	-
Mangoes	39.53	6.94	2,858.29	13.97	72.30
Oranges	42.85	7.53	3,013.64	14.73	70.34
Papayas	58.71	10.31	8,688.49	42.47	148.00
Pineapples	-	-	-	-	-
Cash crops	292.11	51.32	2,862.34	13.99	
Chat	-	-	-	-	-
Coffee	274.36	48.20	2,809.09	13.73	10.24
Tea	-	-	-	-	-
Hops / 'Gesho'	17.75	3.12	*	*	
Enset	-	-	-	-	-
Sugar cane	5.20	0.91	884.60	4.32	170.00
Cotton	1,457.25	100.00	9,193.56	100.00	6.31
Other Permanent crops	51.80	9.10	132.80	0.65	

Table 2.4 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2009/10 (2002 E.C.), Meher (Main) Season

Oromiya Region

Crop Types	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	150,602.93	100.00	19,280,419.92	100.00	
Grain crops	104,789.66	100.00	3,291,465.69	100.00	
Cereals	90,327.97	86.20	3,126,391.81	95.00	
Teff	1,177.95	1.10	17,996.51	0.50	15.28
Barley	1,788.25	1.70	41,654.89	1.30	23.29
Wheat	52,286.45	49.90	1,841,802.26	56.00	35.23
Maize	28,583.83	27.30	1,010,667.86	30.70	35.36
Sorghum	5,924.88	5.70	203,048.51	6.20	34.27
Finger millet	306.11	0.30	4,497.31	0.10	14.69
Oats / 'Aja'	1.16	*	17.85	*	15.35
Rice	259.33	0.20	6,706.62	0.20	25.86
Pulse	4,707.39	4.50	69,636.80	2.10	
Horse / Faba beans	690.68	0.70	9,673.97	0.30	14.01
Field Peas	22.58	*	268.67	*	11.90
Haricot beans	1,204.06	1.10	17,787.96	0.50	14.77
Chick peas	410.55	0.40	11,653.79	0.40	28.39
Lentils	3.79	*	47.52	*	12.54
Vetch / Grass peas	*	*	*	*	*
Soya beans	2,375.36	2.30	30,192.48	0.90	12.71
Fenugreek	0.15	*	2.00	*	12.96
Gibto	-	-	-	-	-
Oilseeds	9,754.31	9.30	95,437.09	2.90	
Niger seed/neug/	1,260.36	1.20	9,248.58	0.30	7.34
Linseed	159.30	0.20	2,034.26	0.10	12.77
Groundnuts	177.68	0.20	3,120.05	0.10	17.56
Safflower	327.54	0.30	4,241.63	0.10	12.95
Sesame	3,577.90	3.40	39,385.81	1.20	11.01
Rape seed	4,251.52	4.10	37,406.76	1.10	8.80
Vegetables	2,512.52	100.00	498,643.09	100.00	
Lettuce	825.14	32 80	163,198.69	32.70	197.78
Head cabbage	59.51	2.40	18,119.24	3.60	304.46
Ethiopian cabbage	31.12	1.20	2,046.47	0.40	65.77
Tomatoes	925.98	36.90	288,162.48	57.80	311.20
Green peppers	0.06	*	4.98	*	83.00
Red peppers	562.48	22.40	10,192.72	2.00	18.12
Swiss chard	108.22	4.30	16,918.51	3.40	156.33
Root crops	593.45	100.00	84,384.73	100.00	
Beetroot	5.01	0.80	681.04	0.80	136.00
Carrot	108.21	18.20	16,293.94	19.30	150.57
Onion	374.51	63.10	56,954.69	67.50	152.08
Potatoes	81.59	13.70	7,633.84	9.00	93.56
Garlic	20.75	3.50	2,571.46	3.00	123.94
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	3.38	0.60	249.76	0.30	73.84
Other Temporary crops	1,129.87	100.00	76,798.89	100.00	
Permanent crops	41,484.96	100.00	15,327,648.07	100.00	
Fruit crops	4,083.31	9.84	413,055.34	2.69	
Avocado	19.11	0.05	1,148.08	0.01	60.06
Bananas	24.89	0.06	513.34	*	20.62
Guava	99.03	0.24	1,504.30	0.01	15.19
Lemons	41.24	0.10	1,805.68	0.01	43.78
Mangoes	1,902.37	4.59	143,419.70	0.94	75.39
Oranges	1,833.12	4.42	231,894.37	1.51	126.50
Papayas	162.29	0.39	32,744.05	0.21	201.76
Pineapples	1.25	*	25.82	*	20.66
Cash crops	22,089.98	53.25	243,848.92	1.59	
Chat	15.34	0.04	321.51	*	20.96
Coffee	22,074.64	53.21	243,527.41	1.59	11.03
Tea	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-
Enset	-	-	-	-	-
Sugar cane	11,502.55	27.73	14,381,604.38	93.83	1,250.30
Cotton	92.46	100.00	1,479.44	100.00	16.00
Other Permanent crops	3,809.12	9.18	289,139.44	1.89	

Table 2.5 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2009/10 (2002 E.C.), Meher (Main) Season

Somalie Region

Crop Types	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	590.58	100.00	45,155.82	100.00	
Grain crops	261.33	100.00	6,093.97	100.00	
Cereals	245.32	93.90	5,932.88	97.40	
Teff	-	-	-	-	-
Barley	8.00	3.10	120.00	2.00	15.00
Wheat	21.86	8.40	371.56	6.10	17.00
Maize	195.46	74.80	4,761.37	78.10	24.36
Sorghum	20.00	7.70	679.95	11.20	34.00
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	4.00	1.50	50.00	0.80	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	4.00	1.50	50.00	0.80	12.50
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	12.01	4.60	111.09	1.80	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	-	-	-	-	-
Sesame	12.01	4.60	111.09	1.80	9.25
Rape seed	-	-	-	-	-
Vegetables	28.07	100.00	2,799.70	100.00	
Lettuce	-	-	-	-	-
Head cabbage	1.50	5.30	210.00	7.50	140.00
Ethiopian cabbage	-	-	-	-	-
Tomatoes	16.77	59.70	2,320.50	82.90	138.40
Green peppers	-	-	-	-	-
Red peppers	9.80	34.90	269.20	9.60	27.47
Swiss chard	-	-	-	-	-
Root crops	43.88	100.00	5,101.24	100.00	
Beetroot	-	-	-	-	-
Carrot	6.95	15.80	243.25	4.80	35.00
Onion	36.93	84.20	4,857.99	95.20	131.56
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	-	-	-	-	
Permanent crops	257.31	100.00	31,160.91	100.00	
Fruit crops	245.94	95.60	30,720.75	98.60	
Avocado	-	-	-	-	-
Bananas	13.28	5.20	3,749.07	12.00	282.30
Guava	-	-	-	-	-
Lemons	1.20	0.50	67.52	0.20	56.50
Mangoes	11.70	4.50	1,770.90	5.70	151.42
Oranges	210.17	81.70	23,712.22	76.10	112.82
Papayas	9.60	3.70	1,421.04	4.60	148.00
Pineapples	-	-	-	-	-
Cash crops	-	-	-	-	
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Tea	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-
Enset	-	-	-	-	-
Sugar cane	-	-	-	-	-
Cotton	-	-	-	-	-
Other Permanent crops	11.37	4.40	440.16	1.40	

Table 2.6 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2009/10 (2002 E.C.), Meher (Main) Season

Benishangul Gumuz Region

Crop Types	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	20,560.50	100.00	424,157.78	100.00	
Grain crops	20,344.49	100.00	419,287.34	100.00	
Cereals	11,958.00	58.80	331,774.18	79.10	
Teff	2.28	*	22.77	*	10.00
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	5,352.72	26.30	184,558.67	44.00	34.48
Sorghum	6,460.24	31.80	144,806.24	34.50	22.41
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	142.76	0.70	2,386.51	0.60	16.72
Pulse	1,237.89	6.10	18,869.09	4.50	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	239.61	1.20	4,454.32	1.10	18.59
Chick peas	49.78	0.20	250.87	0.10	5.04
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	948.51	4.70	14,163.90	3.40	14.93
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	7,148.60	35.10	68,644.07	16.40	
Niger seed/neug/	267.59	1.30	1,632.80	0.40	6.10
Linseed	-	-	-	-	-
Groundnuts	12.94	0.10	227.47	0.10	17.58
Safflower	24.97	0.10	-	-	-
Sesame	6,843.10	33.60	66,783.80	15.90	9.76
Rape seed	-	-	-	-	-
Vegetables	162.07	100.00	3,424.61	100.00	
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	-	-	-	-	-
Green peppers	-	-	-	-	-
Red peppers	162.07	100.00	3,424.61	100.00	21.13
Swiss chard	-	-	-	-	-
Root crops	13.25	100.00	1,184.02	100.00	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	13.25	100.00	1,184.02	100.00	89.36
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	-	-	-	-	
Permanent crops	32.53	100.00	252.41	100.00	
Fruit crops	22.94	70.52	166.12	65.81	
Avocado	5.90	18.14	*	*	
Bananas	-	-	-	-	-
Guava	-	-	-	-	-
Lemons	-	-	-	-	-
Mangoes	1.92	5.90	166.12	65.81	86.50
Oranges	15.12	46.48	-		-
Papayas	-	-	-	-	-
Pineapples	-	-	-	-	-
Cash crops	9.59	29.48	86.29	34.19	
Chat	-		-		-
Coffee	9.59	29.48	86.29	34.19	9.00
Tea	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-
Enset	-	-	-	-	-
Sugar cane	-	-	-	-	-
Cotton	*		*		*
Other Permanent crops	-	-	-	-	

Table 2.7 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2009/10 (2002 E.C.), Meher (Main) Season

S.N.N.P.R

Crop Types	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	82,866.75	100.00	2,181,025.74	100.00	
Grain crops	37,616.54	100.00	702,575.10	100.00	
Cereals	24,358.22	64.80	513,583.72	73.10	
Teff	1,492.17	4.00	17,959.80	2.60	12.04
Barley	125.14	0.30	3,380.02	0.50	27.01
Wheat	3,077.72	8.20	56,956.49	8.10	18.51
Maize	17,504.59	46.50	391,707.26	55.80	22.38
Sorghum	1,217.43	3.20	25,342.35	3.60	20.82
Finger millet	25.72	0.10	643.04	0.10	25.00
Oats / 'Aja'	-	-	-	-	-
Rice	915.44	2.40	17,594.76	2.50	19.22
Pulse	6,472.35	17.20	99,708.11	14.20	
Horse / Faba beans	0.37	*	4.14	*	11.17
Field Peas	1.06	*	16.95	*	15.96
Haricot beans	5,457.03	14.50	86,327.54	12.30	15.82
Chick peas	945.36	2.50	12,740.85	1.80	13.48
Lentils	3.72	*	26.80	*	7.20
Vetch / Grass peas	10.80	*	183.60	*	17.00
Soya beans	54.00	0.10	408.24	0.10	7.56
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	6,785.97	18.00	89,283.27	12.70	
Niger seed/neug/	229.84	0.60	1,435.50	0.20	6.25
Linseed	3.60	*	38.16	*	10.60
Groundnuts	909.68	2.40	15,464.59	2.20	17.00
Safflower	5,268.60	14.00	68,228.37	9.70	12.95
Sesame	374.25	1.00	4,116.65	0.60	11.00
Rape seed	-	-	-	-	-
Vegetables	545.12	100.00	26,475.24	100.00	
Lettuce	-	-	-	-	-
Head cabbage	24.38	4.50	1,765.60	6.70	72.42
Ethiopian cabbage	-	-	-	-	-
Tomatoes	149.06	27.30	13,612.20	51.40	91.32
Green peppers	12.60	2.30	1,105.27	4.20	87.72
Red peppers	359.08	65.90	9,992.17	37.70	27.83
Swiss chard	-	-	-	-	-
Root crops	223.78	100.00	25,970.23	100.00	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	146.25	65.40	16,654.54	64.10	113.87
Potatoes	65.45	29.20	5,087.44	19.60	77.73
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	12.08	5.40	4,228.25	16.30	350.00
Other Temporary crops	742.51	100.00	378,745.55	100.00	
Permanent crops	39,039.23	100.00	835,779.43	100.00	
Fruit crops	995.39	2.55	85,486.91	10.23	
Avocado	34.33	0.09	2,625.89	0.31	76.49
Bananas	651.99	1.67	55,162.33	6.60	84.61
Guava	-	-	-	-	-
Lemons	-	-	-	-	-
Mangoes	303.14	0.78	26,867.09	3.21	88.63
Oranges	5.94	0.02	831.60	0.10	140.00
Papayas	-	-	-	-	-
Pineapples	-	-	-	-	-
Cash crops	36,376.25	93.18	505,504.96	60.48	
Chat	-	-	-	-	-
Coffee	32,215.81	82.52	380,691.56	45.55	11.82
Tea	4,160.45	10.66	124,813.40	14.93	30.00
Hops / 'Gesho'	-	-	-	-	-
Enset	-	-	-	-	-
Sugar cane	158.28	0.41	150,370.75	17.99	950.00
Cotton	4,699.56	100.00	211,480.18	100.00	45.00
Other Permanent crops	1,509.30	3.87	94,416.81	11.30	

Table 2.8 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2009/10 (2002 E.C.), Meher (Main) Season

Gambella Region

Crop Types	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	7,486.16	100.00	97,696.33	100.00	
Grain crops	1,005.84	100.00	29,155.44	100.00	
Cereals	886.48	88.10	27,841.92	95.50	
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	812.53	80.80	26,000.98	89.20	32.00
Sorghum	73.64	7.30	1,840.94	6.30	25.00
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	0.31	*	-	-	-
Pulse	-	-	-	-	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	119.36	11.90	1,313.52	4.50	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	0.60	0.10	10.12	*	17.00
Safflower	0.60	0.10	3.57	*	6.00
Sesame	118.17	11.70	1,299.84	4.50	11.00
Rape seed	-	-	-	-	-
Vegetables	3.62	100.00	161.13	100.00	
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	2.38	65.70	41.65	25.80	17.50
Green peppers	1.24	34.30	119.48	74.20	96.35
Red peppers	-	-	-	-	-
Swiss chard	-	-	-	-	-
Root crops	2.09	100.00	173.88	100.00	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	2.09	100.00	173.88	100.00	83.33
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	2.38	100.00	42.84	100.00	
Permanent crops	2,389.57	100.00	23,001.36	100.00	
Fruit crops	5.95	0.25	131.26	0.57	
Avocado	5.95	0.25	131.26	0.57	22.06
Bananas	-	-	-	-	-
Guava	-	-	-	-	-
Lemons	-	-	-	-	-
Mangoes	-	-	-	-	-
Oranges	-	-	-	-	-
Papayas	-	-	-	-	-
Pineapples	-	-	-	-	-
Cash crops	2,303.81	96.41	22,819.23	99.21	
Chat	0.30	0.01	5.20	0.02	17.48
Coffee	2,303.52	96.40	22,814.03	99.19	9.90
Tea	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-
Enset	-	-	-	-	-
Sugar cane	-	-	-	-	-
Cotton	4,082.67	100.00	45,161.69	100.00	11.06
Other Permanent crops	79.81	3.34	50.87	0.22	

Table 2.9 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2009/10 (2002 E.C.), Meher (Main) Season

HARARI Region

Crop Types	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	11.52	100.00	27.63	100.00	
Grain crops	7.92	100.00	24.63	100.00	
Cereals	1.50	18.90	19.50	79.20	
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	1.50	18.90	19.50	79.20	13.00
Sorghum	-	-	-	-	-
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	-	-	-	-	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	6.42	81.10	5.13	20.80	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	-	-	-	-	-
Sesame	6.42	81.10	5.13	20.80	0.80
Rape seed	-	-	-	-	-
Vegetables	-	-	-	-	
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	-	-	-	-	-
Green peppers	-	-	-	-	-
Red peppers	-	-	-	-	-
Swiss chard	-	-	-	-	-
Root crops	-	-	-	-	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	-	-	-	-	-
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	-	-	-	-	
Permanent crops	3.60	100.00	3.00	100.00	
Fruit crops	0.60	16.60	1.00	33.30	
Avocado	-	-	-	-	-
Bananas	-	-	-	-	-
Guava	-	-	-	-	-
Lemons	-	-	-	-	-
Mangoes	-	-	-	-	-
Oranges	-	-	-	-	-
Papayas	0.60	16.60	1.00	33.30	1.67
Pineapples	-	-	-	-	-
Cash crops	-	-	-	-	
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Tea	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-
Enset	-	-	-	-	-
Sugar cane	-	-	-	-	-
Cotton	-	-	-	-	-
Other Permanent crops	3.00	83.40	2.00	66.70	

Table 2.10 Estimates of Cropland Area and Production of Crops For Commercial Farms, 2009/10 (2002 E.C.), Meher (Main) Season

DIRE DAWA CITY ADMINISTRATION

Crop Types	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	18.69	100.00	1,673.99	100.00	
Grain crops	-	-	-	-	
Cereals	-	-	-	-	
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	-	-	-	-	-
Sorghum	-	-	-	-	-
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	-	-	-	-	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	-	-	-	-	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	-	-	-	-	-
Sesame	-	-	-	-	-
Rape seed	-	-	-	-	-
Vegetables	0.09	100.00	0.11	100.00	
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	-	-	-	-	-
Green peppers	-	-	-	-	-
Red peppers	0.09	100.00	0.11	100.00	1.22
Swiss chard	-	-	-	-	-
Root crops	1.18	100.00	33.04	100.00	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	1.18	100.00	33.04	100.00	28.00
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	-	-	-	-	
Permanent crops	17.42	100.00	1,640.84	100.00	
Fruit crops	17.42	100.00	1,640.84	100.00	
Avocado	-	-	-	-	-
Bananas	-	-	-	-	-
Guava	-	-	-	-	-
Lemons	2.00	11.50	118.00	7.20	59.00
Mangoes	-	-	-	-	-
Oranges	15.20	87.30	1,504.80	91.70	99.00
Papayas	0.22	1.30	18.04	1.10	82.00
Pineapples	-	-	-	-	-
Cash crops	-	-	-	-	
Chat	-	-	-	-	-
Coffee	-	-	-	-	-
Tea	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-
Enset	-	-	-	-	-
Sugar cane	-	-	-	-	-
Cotton	-	-	-	-	-
Other Permanent crops	-	-	-	-	

Table 3 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2009/10 (2002 E.C.), Belg Season

Country

Crop Types	Total Temporary Crops				Crop Productivity/ Yield (QTS/Ha)
	Cropland area in		Production in		
	Hectare	%	Quintals	%	
Total	**8,478.02**	**100.00**	**371,686.27**	**100.00**	
Grain crops	**7,327.04**	**100.00**	**138,715.08**	**100.00**	
Cereals	**4,484.79**	**61.20**	**105,997.06**	**76.40**	
Teff	121.29	1.70	1,828.65	1.30	15.08
Barley	77.70	1.10	2,175.55	1.60	28.00
Wheat	173.97	2.40	3,775.01	2.70	21.70
Maize	3,384.13	46.20	84,755.81	61.10	25.05
Sorghum	619.71	8.50	11,386.28	8.20	18.37
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	108.00	1.50	2,075.76	1.50	19.22
Pulse	**428.48**	**5.80**	**6,002.66**	**4.30**	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	208.64	2.80	3,370.60	2.40	16.15
Chick peas	16.89	0.20	171.24	0.10	10.14
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	202.94	2.80	2,460.81	1.80	12.13
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	**2,413.77**	**32.90**	**26,715.36**	**19.30**	
Niger seed/neug/	21.13	0.30	177.53	0.10	8.40
Linseed	-	-	-	-	-
Groundnuts	33.47	0.50	578.74	0.40	17.29
Safflower	9.80	0.10	97.97	0.10	10.00
Sesame	2,347.31	32.00	25,834.40	18.60	11.01
Rape seed	2.06	*	26.72	*	13.00
Vegetables	**354.51**	**100.00**	**42,284.73**	**100.00**	
Lettuce	2.68	0.80	150.31	0.40	56.13
Head cabbage	25.59	7.20	7,423.70	17.60	290.14
Ethiopian cabbage	3.53	1.00	388.31	0.90	109.89
Tomatoes	241.45	68.10	31,108.35	73.60	128.84
Green peppers	23.23	6.60	905.51	2.10	38.98
Red peppers	56.54	15.90	2,184.86	5.20	38.64
Swiss chard	1.49	0.40	123.69	0.30	82.90
Root crops	**664.40**	**100.00**	**175,227.43**	**100.00**	
Beetroot	2.36	0.40	651.37	0.40	276.39
Carrot	5.81	0.90	650.95	0.40	112.08
Onion	463.57	69.80	146,507.45	83.60	316.04
Potatoes	166.29	25.00	24,790.76	14.10	149.08
Garlic	26.37	4.00	2,626.90	1.50	99.61
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	**132.08**	**100.00**	**15,459.03**	**100.00**	

Table 3.1 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2009/10 (2002 E.C.), Belg Season

Tigray Region

Crop Types	Total Temporary Crops				
	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	**1,939.89**	**100.00**	**188,993.03**	**100.00**	
Grain crops	**1,313.82**	**100.00**	**21,851.41**	**100.00**	
Cereals	**669.18**	**50.90**	**14,403.90**	**65.90**	
Teff	114.24	8.70	1,717.45	7.90	15.03
Barley	77.70	5.90	2,175.55	10.00	28.00
Wheat	-	-	-	-	-
Maize	87.24	6.60	3,217.90	14.70	36.89
Sorghum	390.00	29.70	7,293.00	33.40	18.70
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	**26.39**	**2.00**	**313.76**	**1.40**	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	14.66	1.10	219.92	1.00	15.00
Chick peas	11.73	0.90	93.84	0.40	8.00
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	**618.25**	**47.10**	**7,133.75**	**32.60**	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	33.25	2.50	575.90	2.60	17.32
Safflower	-	-	-	-	-
Sesame	585.00	44.50	6,557.85	30.00	11.21
Rape seed	-	-	-	-	-
Vegetables	**270.63**	**100.00**	**31,096.85**	**100.00**	
Lettuce	2.17	0.80	86.80	0.30	40.00
Head cabbage	10.09	3.70	3,972.10	12.80	393.86
Ethiopian cabbage	-	-	-	-	-
Tomatoes	208.48	77.00	25,465.17	81.90	122.15
Green peppers	-	-	-	-	-
Red peppers	48.77	18.00	1,462.95	4.70	30.00
Swiss chard	1.13	0.40	109.83	0.40	97.56
Root crops	**337.70**	**100.00**	**135,918.62**	**100.00**	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	308.81	91.40	133,606.17	98.30	432.65
Potatoes	28.71	8.50	2,292.05	1.70	79.83
Garlic	0.18	0.10	20.40	*	115.38
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	**17.74**	**100.00**	**126.15**	**100.00**	

Table 3.2 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2009/10 (2002 E.C.), Belg Season

Afar Region

Crop Types	Total Temporary Crops				
	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	1,566.26	100.00	45,482.41	100.00	
Grain crops	1,566.26	100.00	45,482.41	100.00	
Cereals	1,566.26	100.00	45,482.41	100.00	
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	1,566.26	100.00	45,482.41	100.00	29.04
Sorghum	-	-	-	-	-
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	-	-	-	-	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	-	-	-	-	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	-	-	-	-	-
Sesame	-	-	-	-	-
Rape seed	-	-	-	-	-
Vegetables	-	-	-	-	
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	-	-	-	-	-
Green peppers	-	-	-	-	-
Red peppers	-	-	-	-	-
Swiss chard	-	-	-	-	-
Root crops	-	-	-	-	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	-	-	-	-	-
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	-	-	-	-	

Table 3.3 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2009/10 (2002 E.C.), Belg Season

Amhara Region

Crop Types	Total Temporary Crops				
	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	**713.69**	**100.00**	**19,356.90**	**100.00**	
Grain crops	**572.79**	**100.00**	**10,294.62**	**100.00**	
Cereals	**306.36**	**53.50**	**7,188.14**	**69.80**	
Teff	7.04	1.20	111.20	1.10	15.79
Barley	-	-	-	-	-
Wheat	42.10	7.30	321.62	3.10	7.64
Maize	78.24	13.70	3,768.09	36.60	48.16
Sorghum	178.98	31.20	2,987.24	29.00	16.69
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	**17.48**	**3.10**	**373.76**	**3.60**	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	12.32	2.20	296.36	2.90	24.05
Chick peas	5.16	0.90	77.40	0.80	15.00
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	**248.95**	**43.50**	**2,732.71**	**26.50**	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	9.80	1.70	97.97	1.00	10.00
Sesame	237.09	41.40	2,608.03	25.30	11.00
Rape seed	2.06	0.40	26.72	0.30	13.00
Vegetables	**25.97**	**100.00**	**2,248.22**	**100.00**	
Lettuce	0.50	1.90	63.50	2.80	127.52
Head cabbage	7.08	27.30	938.94	41.80	132.61
Ethiopian cabbage	0.42	1.60	-	-	-
Tomatoes	11.42	44.00	766.83	34.10	67.15
Green peppers	1.26	4.90	30.36	1.40	24.10
Red peppers	5.01	19.30	442.09	19.70	88.20
Swiss chard	0.28	1.10	6.49	0.30	22.85
Root crops	**106.63**	**100.00**	**6,428.94**	**100.00**	
Beetroot	0.69	0.60	39.02	0.60	56.63
Carrot	4.70	4.40	250.40	3.90	53.32
Onion	101.25	94.90	6,139.52	95.50	60.64
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	**8.30**	**100.00**	**385.12**	**100.00**	

Table 3.4 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2009/10 (2002 E.C.), Belg Season

Oromiya Region

Crop Types	Total Temporary Crops				
	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	**715.28**	**100.00**	**30,611.21**	**100.00**	
Grain crops	**610.85**	**100.00**	**14,987.88**	**100.00**	
Cereals	**365.97**	**59.90**	**12,238.39**	**81.70**	
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	131.87	21.60	3,453.39	23.00	26.19
Maize	234.10	38.30	8,785.00	58.60	37.53
Sorghum	-	-	-	-	-
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	**198.16**	**32.40**	**2,362.37**	**15.80**	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	21.86	3.60	327.93	2.20	15.00
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	176.29	28.90	2,034.44	13.60	11.54
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	**46.73**	**7.60**	**387.12**	**2.60**	
Niger seed/neug/	21.13	3.50	177.53	1.20	8.40
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	-	-	-	-	-
Sesame	25.59	4.20	209.59	1.40	8.19
Rape seed	-	-	-	-	-
Vegetables	**30.48**	**100.00**	**4,235.05**	**100.00**	
Lettuce	-	-	-	-	-
Head cabbage	1.78	5.90	754.00	17.80	422.41
Ethiopian cabbage	0.05	0.20	19.91	0.50	410.77
Tomatoes	8.51	27.90	2,611.55	61.70	306.90
Green peppers	20.12	66.00	845.59	20.00	42.02
Red peppers	-	-	-	-	-
Swiss chard	0.01	*	4.00	0.10	330.15
Root crops	**45.23**	**100.00**	**5,672.17**	**100.00**	
Beetroot	1.57	3.50	612.00	10.80	389.01
Carrot	1.00	2.20	400.00	7.10	400.00
Onion	34.66	76.60	3,826.49	67.50	110.40
Potatoes	8.00	17.70	833.68	14.70	104.25
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	**28.72**	**100.00**	**5,716.12**	**100.00**	

Table 3.5 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2009/10 (2002 E.C.), Belg Season

Somalie Region

Crop Types	Total Temporary Crops				Crop Productivity/ Yield (QTS/Ha)
	Cropland area in		Production in		
	Hectare	%	Quintals	%	
Total	**159.78**	**100.00**	**5,425.16**	**100.00**	
Grain crops	**146.21**	**100.00**	**3,273.64**	**100.00**	
Cereals	**130.25**	**89.10**	**3,057.49**	**93.40**	
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	129.14	88.30	3,021.22	92.30	23.40
Sorghum	1.12	0.80	36.27	1.10	32.50
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	**2.23**	**1.50**	**55.81**	**1.70**	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	2.23	1.50	55.81	1.70	25.00
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	**13.72**	**9.40**	**160.34**	**4.90**	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	0.22	0.20	2.84	0.10	12.69
Safflower	-	-	-	-	-
Sesame	13.50	9.20	157.50	4.80	11.67
Rape seed	-	-	-	-	-
Vegetables	**9.08**	**100.00**	**1,625.32**	**100.00**	
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	9.08	100.00	1,625.32	100.00	179.00
Green peppers	-	-	-	-	-
Red peppers	-	-	-	-	-
Swiss chard	-	-	-	-	-
Root crops	**4.44**	**100.00**	**521.20**	**100.00**	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	4.11	92.60	501.20	96.20	121.94
Potatoes	-	-	-	-	-
Garlic	0.33	7.40	20.00	3.80	60.61
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	**0.05**	**100.00**	**5.00**	**100.00**	

Table 3.6 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2009/10 (2002 E.C.), Belg Season

Benishangul-Gumuz Region

Crop Types	Total Temporary Crops				
	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	128.11	100.00	6,795.21	100.00	
Grain crops	81.70	100.00	1,627.55	100.00	
Cereals	45.85	56.10	1,279.09	78.60	
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	14.78	18.10	591.20	36.30	40.00
Sorghum	31.07	38.00	687.89	42.30	22.14
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	-	-	-	-	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	35.85	43.90	348.46	21.40	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	-	-	-	-	-
Sesame	35.85	43.90	348.46	21.40	9.72
Rape seed	-	-	-	-	-
Vegetables	7.39	100.00	325.16	100.00	
Lettuce	-	-	-	-	-
Head cabbage	4.11	55.70	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	1.42	19.30	295.60	90.90	207.55
Green peppers	1.65	25.00	29.56	9.10	16.00
Red peppers	-	-	-	-	-
Swiss chard	-	-	-	-	-
Root crops	39.02	100.00	4,842.50	100.00	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	13.16	33.70	2,256.00	46.60	171.43
Potatoes	-	-	-	-	-
Garlic	25.86	66.30	2,586.50	53.40	100.00
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	-	-	-	-	

Table 3.7 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2009/10 (2002 E.C.), Belg Season

S.N.N.P.R

Crop Types	Total Temporary Crops				
	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	**3,254.73**	**100.00**	**75,018.08**	**100.00**	
Grain crops	**3,035.41**	**100.00**	**41,197.58**	**100.00**	
Cereals	**1,400.92**	**46.20**	**22,347.64**	**54.20**	
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	1,274.38	42.00	19,889.99	48.30	15.61
Sorghum	18.54	0.60	381.89	0.90	20.60
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	108.00	3.60	2,075.76	5.00	19.22
Pulse	**184.21**	**6.10**	**2,896.96**	**7.00**	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	157.57	5.20	2,470.58	6.00	15.68
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	26.65	0.90	426.37	1.00	16.00
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	**1,450.27**	**47.80**	**15,952.98**	**38.70**	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	-	-	-	-	-
Sesame	1,450.27	47.80	15,952.98	38.70	11.00
Rape seed	-	-	-	-	-
Vegetables	**10.89**	**100.00**	**2,750.75**	**100.00**	
Lettuce	-	-	-	-	-
Head cabbage	*		*		*
Ethiopian cabbage	3.07	28.20	368.40	13.40	120.00
Tomatoes	2.54	23.30	343.88	12.50	135.56
Green peppers	-	-	-	-	-
Red peppers	2.76	25.30	279.81	10.20	101.38
Swiss chard	-	-	-	-	-
Root crops	**131.16**	**100.00**	**21,843.11**	**100.00**	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	1.58	1.20	178.07	0.80	112.43
Potatoes	129.58	98.80	21,665.04	99.20	167.19
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	**77.27**	**100.00**	**9,226.64**	**100.00**	

Table 3.8 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2009/10 (2002 E.C.), Belg Season

Gambella Region

Crop Types	Total Temporary Crops				
	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	-	-	-	-	
Grain crops	-	-	-	-	
Cereals	-	-	-	-	
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	-	-	-	-	-
Sorghum	-	-	-	-	-
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	-	-	-	-	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	-	-	-	-	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	-	-	-	-	-
Sesame	-	-	-	-	-
Rape seed	-	-	-	-	-
Vegetables	-	-	-	-	
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	-	-	-	-	-
Green peppers	-	-	-	-	-
Red peppers	-	-	-	-	-
Swiss chard	-	-	-	-	-
Root crops	-	-	-	-	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	-	-	-	-	-
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	-	-	-	-	

Table 3.9 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2009/10 (2002 E.C.), Belg Season

Harari Region

Crop Types	Total Temporary Crops				
	Cropland area in		Production in		Crop Productivity/
	Hectare	%	Quintals	%	Yield (QTS/Ha)
Total	-	-	-	-	
Grain crops	-	-	-	-	
Cereals	-	-	-	-	
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	-	-	-	-	-
Sorghum	-	-	-	-	-
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	-	-	-	-	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	-	-	-	-	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	-	-	-	-	-
Sesame	-	-	-	-	-
Rape seed	-	-	-	-	-
Vegetables	-	-	-	-	
Lettuce	-	-	-	-	-
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	-	-	-	-	-
Green peppers	-	-	-	-	-
Red peppers	-	-	-	-	-
Swiss chard	-	-	-	-	-
Root crops	-	-	-	-	
Beetroot	-	-	-	-	-
Carrot	-	-	-	-	-
Onion	-	-	-	-	-
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	-	-	-	-	

Table 3.10 Estimates of Cropland Area and Production of Grain Crops For Commercial Farms, 2009/10 (2002 E.C.), Belg Season

DIRE DAWA CITY ADMINISTRATION

Crop Types	Total Temporary Crops				
	Cropland area in		Production in		Crop Productivity/ Yield (QTS/Ha)
	Hectare	%	Quintals	%	
Total	**0.29**	**100.00**	**4.27**	**100.00**	
Grain crops	-	-	-	-	
Cereals	-	-	-	-	
Teff	-	-	-	-	-
Barley	-	-	-	-	-
Wheat	-	-	-	-	-
Maize	-	-	-	-	-
Sorghum	-	-	-	-	-
Finger millet	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-
Rice	-	-	-	-	-
Pulse	-	-	-	-	
Horse / Faba beans	-	-	-	-	-
Field Peas	-	-	-	-	-
Haricot beans	-	-	-	-	-
Chick peas	-	-	-	-	-
Lentils	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-
Soya beans	-	-	-	-	-
Fenugreek	-	-	-	-	-
Gibto	-	-	-	-	-
Oilseeds	-	-	-	-	
Niger seed/neug/	-	-	-	-	-
Linseed	-	-	-	-	-
Groundnuts	-	-	-	-	-
Safflower	-	-	-	-	-
Sesame	-	-	-	-	-
Rape seed	-	-	-	-	-
Vegetables	**0.08**	**100.00**	**3.37**	**100.00**	
Lettuce	0.01	12.50	0.01	0.30	1.00
Head cabbage	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-
Tomatoes	-	-	-	-	-
Green peppers	-	-	-	-	-
Red peppers	-	-	-	-	-
Swiss chard	0.07	87.50	3.36	99.70	48.00
Root crops	**0.21**	**100.00**	**0.90**	**100.00**	
Beetroot	0.09	45.80	0.35	38.90	3.70
Carrot	0.11	54.20	0.55	61.10	4.91
Onion	-	-	-	-	-
Potatoes	-	-	-	-	-
Garlic	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-
Sweet potatoes	-	-	-	-	-
Other Temporary crops	-	-	-	-	

National and Regional Statistical Tables On Farm Management Practice

Table 4 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Both Seasons

Country

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	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	**148,028.85**	**135,261.90**	**192,574.13**	**157,700.78**	**197,051.71**	**277,194.07**	**488,807.64**	**121,141.28**
Grain crops	**102,001.29**	**82,248.34**	**164,182.28**	**135,191.91**	**174,719.40**	**267,767.03**	**450,289.55**	**101,108.56**
Cereals	**98,616.16**	**80,854.41**	**153,878.94**	**123,899.22**	**157,679.43**	**264,868.03**	**293,661.36**	**80,347.54**
Teff	1,326.46	480.61	1,953.28	1,698.02	1,789.68	528.61	2,103.36	547.71
Barley	219.20	62.31	1,940.08	1,841.56	116.26	113.52	1,894.85	2,393.26
Wheat	38,968.60	14,574.48	56,406.32	60,573.86	24,799.89	42,448.24	29,264.50	63,796.80
Maize	57,247.80	65,300.45	92,547.71	59,302.82	128,230.75	220,884.47	14,392.52	3,746.21
Sorghum	448.48	47.64	904.39	394.85	1,877.55	157.61	245,113.47	8,117.81
Finger millet	5.31	0.89	65.90	39.62	18.57	4.64	250.60	1,141.99
Oats / 'Aja'	-	-	-	-	-	-	1.07	0.53
Rice	400.32	388.03	61.28	48.48	846.73	730.94	640.99	603.22
Pulse	**2,497.31**	**1,153.97**	**5,256.70**	**3,572.49**	**2,491.27**	**1,766.25**	**8,941.11**	**10,905.27**
Horse / Faba beans	-	-	669.68	530.52	-	-	677.54	1,339.25
Field Peas	34.13	68.89	17.87	18.18	17.06	15.93	28.05	49.10
Haricot beans	492.80	384.35	1,836.95	956.80	1,503.90	895.12	1,896.40	1,432.62
Chick peas	51.31	52.20	42.11	11.27	846.09	800.05	1,323.20	1,518.29
Lentils	1.83	0.46	5.43	3.60	-	-	60.26	46.12
Vetch / Grass peas	0.06	0.02	10.86	3.63	-	-	58.64	26.05
Soya beans	1,917.18	648.05	2,673.81	2,048.49	121.56	55.12	4,875.80	6,472.58
Fenugreek	-	-	-	-	2.66	0.04	-	0.02
Gibto	-	-	-	-	-	-	21.24	21.24
Oilseeds	**887.81**	**239.97**	**5,046.64**	**7,720.20**	**14,548.70**	**1,132.75**	**147,687.07**	**9,855.75**
Niger seed/neug/	42.75	47.50	53.68	52.90	94.04	31.25	1,683.56	180.57
Linseed	3.60	0.45	162.09	75.67	16.94	7.08	166.00	56.88
Groundnuts	-	-	5.20	1.46	36.31	6.42	159.90	255.55
Safflower	359.90	54.00	7.08	7.08	560.25	430.32	425.65	46.36
Sesame	481.56	138.02	315.63	166.58	12,692.98	414.04	141,893.31	8,653.67
Rape seed	-	-	4,502.96	7,416.51	1,148.18	243.64	3,358.64	662.71
Vegetables	**2,070.07**	**2,801.90**	**2,282.93**	**3,177.63**	**17,074.02**	**113.83**	**1,445.08**	**394.11**
Lettuce	1.01	6.00	-	-	2.23	0.04	1.38	0.44
Head cabbage	63.61	93.87	63.87	97.37	8,615.76	2.24	13.61	207.97
Ethiopian cabbage	1.15	2.75	0.36	0.26	-	-	3.90	13.62
Tomatoes	1,108.72	1,729.32	1,303.56	2,013.21	8,196.73	98.56	112.20	3.28
Green peppers	14.99	51.02	14.99	50.47	43.38	0.74	2.51	0.12
Red peppers	879.99	915.41	899.97	1,016.30	213.86	11.32	1,311.45	167.87
Swiss chard	0.61	3.52	0.19	0.02	2.07	0.93	0.04	0.82
Root crops	**1,393.84**	**1,920.73**	**1,366.45**	**1,870.34**	**1,359.75**	**7,471.28**	**5,647.10**	**12,198.37**
Beetroot	0.99	1.11	1.41	1.14	1.58	0.89	5,159.54	44.00
Carrot	2.90	4.95	2.13	2.33	8.45	1.81	-	-
Onion	1,305.26	1,623.61	1,255.47	1,473.89	1,253.27	6,220.80	391.20	9,868.12
Potatoes	59.48	255.94	93.05	375.87	72.60	977.36	87.17	2,278.25
Garlic	14.39	17.11	14.39	17.11	13.04	0.41	5.89	8.00
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	10.80	18.00	-	-	10.80	270.00	3.29	-
Other Temporary crops	**1,583.15**	**1,328.66**	**1,449.88**	**2,026.53**	**685.04**	**984.69**	**803.86**	**1,071.63**
Permanent crops	**40,225.15**	**46,413.16**	**23,172.93**	**15,428.84**	**283.44**	**374.52**	**1,699.30**	**0.06**
Fruit crops	**3,740.00**	**5,872.42**	**3,806.85**	**4,237.46**	**17.03**	**-**	**1.02**	**-**
Avocado	-	-	-	-	-	-	1.02	-
Bananas	89.97	94.28	89.97	58.20	-	-	-	-
Guava	97.35	134.82	97.35	45.79	-	-	-	-
Lemons	43.24	45.42	43.24	24.74	-	-	-	-
Mangoes	259.62	432.92	362.70	120.64	1.92	-	-	-
Oranges	3,118.45	4,947.09	3,118.45	3,821.82	15.12	-	-	-
Papayas	131.36	217.90	95.13	166.26	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	**25,008.08**	**18,703.35**	**18,786.76**	**10,492.60**	**109.65**	**-**	**457.48**	**0.03**
Chat	-	-	-	-	-	-	-	-
Coffee	25,008.08	18,703.35	18,786.76	10,492.60	109.65	-	457.48	0.03
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	10,295.17	19,176.87	33.06	82.65	-	-	1,239.00	-
Cotton	755.35	549.11	119.64	5.53	2,930.05	482.72	28,922.76	6,368.55
Other Permanent crops	**1,181.91**	**2,660.52**	**546.27**	**616.13**	**156.75**	**374.52**	**1.80**	**0.03**

Table 4. Contd

Country

Both Seasons

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	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	**250,323.89**	**5,913.94**	**91,409.83**	**896.89**	**254,427.08**	**5,159.34**	**30,362.20**	**76,636.21**
Grain crops	**43,542.24**	**1,351.30**	**61,947.89**	**351.64**	**206,140.32**	**3,232.11**	**7,149.56**	**17,299.69**
Cereals	**38,413.49**	**1,318.00**	**58,669.00**	**343.88**	**198,059.72**	**2,454.14**	**7,013.93**	**16,925.92**
Teff	277.26	1.62	83.00	0.58	1,351.65	9.49	164.89	724.41
Barley	-	-	-	-	2,569.44	4.68	-	-
Wheat	14,126.47	454.68	53,231.73	132.77	119,923.60	476.55	219.30	4,410.21
Maize	23,753.59	858.61	4,840.60	111.85	30,312.42	902.62	6,627.97	11,773.55
Sorghum	256.17	3.09	512.67	7.46	43,585.19	1,031.19	1.77	17.75
Finger millet	-	-	-	-	28.50	0.44	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	1.01	91.22	288.91	29.18	-	-
Pulse	**1,317.31**	**20.01**	**1,398.81**	**7.50**	**3,509.41**	**141.15**	**3.00**	**0.50**
Horse / Faba beans	6.20	0.01	282.23	1.69	392.67	6.16	-	-
Field Peas	0.80	0.01	-	-	-	-	-	-
Haricot beans	13.52	0.09	-	-	195.67	17.36	3.00	0.50
Chick peas	1,239.72	19.12	-	-	1,187.18	71.50	-	-
Lentils	1.77	0.01	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	55.30	0.78	1,116.58	5.81	1,733.88	46.13	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	**3,811.45**	**13.29**	**1,880.08**	**0.25**	**4,571.19**	**636.81**	**132.63**	**373.27**
Niger seed/neug/	132.30	1.07	-	-	97.21	3.75	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	33.03	373.27
Safflower	-	-	-	-	-	-	-	-
Sesame	504.95	3.34	-	-	518.00	2.98	99.60	-
Rape seed	3,174.19	8.87	1,880.08	0.25	3,955.98	630.09	-	-
Vegetables	**13,298.87**	**76.83**	**18,365.65**	**96.90**	**339.11**	**8.62**	**1,144.68**	**13,642.80**
Lettuce	-	-	-	-	0.05	0.01	2.17	43.40
Head cabbage	174.97	2.83	10.09	0.35	0.74	0.14	5.20	207.80
Ethiopian cabbage	0.33	*	-	-	-	-	-	-
Tomatoes	12,850.37	70.79	18,068.46	89.28	175.29	5.81	1,129.26	13,236.05
Green peppers	30.11	0.32	32.65	0.60	2.63	0.03	-	-
Red peppers	242.96	2.89	254.45	6.68	160.13	2.62	6.42	143.10
Swiss chard	0.12	*	-	-	0.27	0.01	1.64	12.46
Root crops	**1,836.97**	**53.69**	**2,042.60**	**239.78**	**204.04**	**1.45**	**261.16**	**383.08**
Beetroot	0.17	*	-	-	0.11	0.08	-	-
Carrot	-	-	-	-	0.08	0.01	-	-
Onion	1,836.80	53.69	1,990.50	237.60	203.85	1.35	244.99	162.20
Potatoes	-	-	40.45	2.00	-	-	5.20	207.80
Garlic	-	-	11.65	0.17	-	-	0.18	4.08
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	10.80	9.00
Other Temporary crops	**5,472.87**	**66.49**	**4,609.54**	**49.57**	**88.05**	**0.71**	**1,708.46**	**13,196.52**
Permanent crops	**46,863.34**	**711.17**	**4,240.66**	**154.08**	**47,643.54**	**1,916.39**	**20,098.33**	**32,114.13**
Fruit crops	**15,599.39**	**445.28**	**1,868.74**	**48.90**	**5,901.17**	**34.67**	**3,429.39**	**18,254.38**
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	26.92	0.74	81.00	2.43	308.19	773.31
Guava	194.70	4.09	-	-	-	-	0.34	5.44
Lemons	163.89	3.68	40.71	2.59	-	-	1.00	100.00
Mangoes	422.74	2.26	909.72	28.86	5.44	10.84	57.32	148.99
Oranges	14,698.39	432.55	442.94	7.33	5,814.73	21.40	3,024.72	17,082.13
Papayas	119.67	2.70	448.45	9.38	-	-	37.82	144.51
Pineapples	-	-	-	-	-	-	-	-
Cash crops	**6,858.00**	**28.91**	**39.74**	**3.05**	**18,015.87**	**947.80**	**1,756.84**	**1,849.08**
Chat	-	-	-	-	-	-	-	-
Coffee	6,858.00	28.91	39.74	3.05	18,015.87	947.80	1,756.84	1,849.08
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	21,535.59	137.64	266.58	45.62	16,725.56	838.34	6,111.24	2,027.99
Cotton	139,309.59	3,654.46	203.49	4.93	12.02	0.07	-	-
Other Permanent crops	**2,870.37**	**99.34**	**2,065.60**	**56.50**	**7,000.95**	**95.58**	**8,800.85**	**9,982.67**

Table 5 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Meher (Main) Season

Country

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	**146359.86**	**133616.81**	**155737.55**	**156084.86**	**152810.35**	**276657.38**	**297513.59**	**118476.1**
Grain crops	**100976.62**	**81565.22**	**128015.98**	**134448.56**	**138110.57**	**267409.23**	**259340.65**	**99921.69**
Cereals	**97794.72**	**80265.39**	**117924.46**	**123259.39**	**121228.74**	**264567.31**	**105117.74**	**79453.57**
Teff	1284.02	474.66	1949.45	1696.19	1719.48	493.51	2092.6	545.34
Barley	147.31	61.29	1868.53	1840.88	116.26	113.52	1822.96	2389.86
Wheat	38856.2	14530.23	56293.92	60483.59	24799.89	42448.24	29092.33	63570.12
Maize	56653.08	64762.65	56780.99	58755.78	91850.25	220618.84	12125.44	3172.72
Sorghum	448.48	47.64	904.39	394.85	1877.55	157.61	59199.76	8065.78
Finger millet	5.31	0.89	65.9	39.62	18.57	4.64	250.6	1141.99
Oats / 'Aja'	-	-	-	-	-	-	1.07	0.53
Rice	400.32	388.03	61.28	48.48	846.73	730.94	532.99	567.22
Pulse	**2318.87**	**1067.29**	**5069.67**	**3476.4**	**2333.28**	**1709.18**	**8696.59**	**10750.56**
Horse / Faba beans	-	-	669.68	530.52	-	-	677.54	1339.25
Field Peas	34.13	68.89	17.87	18.18	17.06	15.93	28.05	49.1
Haricot beans	486.05	383.52	1821.61	946.56	1351.08	840.18	1848.51	1422.62
Chick peas	51.31	52.2	42.11	11.27	840.92	797.91	1314.32	1515.44
Lentils	1.83	0.46	5.43	3.6	-	-	60.26	46.12
Vetch / Grass peas	0.06	0.02	10.86	3.63	-	-	58.64	26.05
Soya beans	1745.49	562.2	2502.12	1962.65	121.56	55.12	4688.03	6330.73
Fenugreek	-	-	-	-	2.66	0.04	-	0.02
Gibto	-	-	-	-	-	-	21.24	21.24
Oilseeds	**863.03**	**232.54**	**5021.86**	**7712.77**	**14548.55**	**1132.74**	**145526.32**	**9717.56**
Niger seed/neug/	42.75	47.5	53.68	52.9	94.04	31.25	1665.86	179.69
Linseed	3.6	0.45	162.09	75.67	16.94	7.08	166	56.88
Groundnuts	-	-	5.2	1.46	36.16	6.42	126.87	250.93
Safflower	359.9	54	7.08	7.08	560.25	430.32	425.65	46.36
Sesame	456.78	130.59	290.85	159.15	12692.98	414.04	139784.86	8521.15
Rape seed	-	-	4502.96	7416.51	1148.18	243.64	3357.08	662.55
Vegetables	**1893.82**	**2540.55**	**2062.57**	**2915.6**	**9824.14**	**33.99**	**1405.36**	**379.6**
Lettuce	1.01	6	-	-	-	-	1.01	0.44
Head cabbage	50.82	80.64	50.69	83.84	8602.66	1.35	5.2	207.8
Ethiopian cabbage	1.15	2.75	0.36	0.26	-	-	3.31	1.33
Tomatoes	960.99	1496.44	1118.7	1783.17	1015.73	21.46	107.86	2.47
Green peppers	14.25	48.8	14.25	48.25	15.44	0.6	0.15	0.01
Red peppers	865.06	902.39	878.46	1000.06	189.72	9.68	1287.79	166.74
Swiss chard	0.54	3.52	0.12	0.02	0.59	0.89	0.04	0.82
Root crops	**1057.84**	**1311.12**	**1010.19**	**1319.54**	**1022**	**7397.75**	**5426.84**	**10889.63**
Beetroot	0.15	0.11	0.15	0.1	0.15	0.01	5159.54	44
Carrot	1.58	4.42	1.22	1.83	4.3	0.5	-	-
Onion	1000.65	1198.19	941.61	1063.15	924.82	6200.83	204	9822.32
Potatoes	30.27	73.3	52.81	237.34	69.39	926	54.12	1015.31
Garlic	14.39	17.11	14.39	17.11	12.54	0.4	5.89	8
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	10.8	18	-	-	10.8	270	3.29	-
Other Temporary crops	**1451.07**	**1237.65**	**1356.23**	**1966.78**	**640.15**	**959.17**	**718.68**	**916.57**
Permanent crops	**40225.15**	**46413.16**	**23172.93**	**15428.84**	**283.44**	**374.52**	**1699.3**	**0.06**
Fruit crops	**3740**	**5872.42**	**3806.85**	**4237.46**	**17.03**	**-**	**1.02**	**-**
Avocado	-	-	-	-	-	-	1.02	-
Bananas	89.97	94.28	89.97	58.2	-	-	-	-
Guava	97.35	134.82	97.35	45.79	-	-	-	-
Lemons	43.24	45.42	43.24	24.74	-	-	-	-
Mangoes	259.62	432.92	362.7	120.64	1.92	-	-	-
Oranges	3118.45	4947.09	3118.45	3821.82	15.12	-	-	-
Papayas	131.36	217.9	95.13	166.26	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	**25008.08**	**18703.35**	**18786.76**	**10492.6**	**109.65**	**-**	**457.48**	**0.03**
Chat	-	-	-	-	-	-	-	-
Coffee	25008.08	18703.35	18786.76	10492.6	109.65	-	457.48	0.03
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	10295.17	19176.87	33.06	82.65	-	-	1239	-
Cotton	755.35	549.11	119.64	5.53	2930.05	482.72	28922.76	6368.55
Other Permanent crops	**1181.91**	**2660.52**	**546.27**	**616.13**	**156.75**	**374.52**	**1.8**	**0.03**

Table 5 Contd

Country | Meher Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	**242676.98**	**5863.63**	**76644.14**	**879.43**	**253601.3**	**5145.91**	**30181.02**	**71342.15**
Grain crops	**43433.83**	**1349.98**	**61826.27**	**350.55**	**205436.25**	**3220.12**	**7038.68**	**13848.3**
Cereals	**38305.07**	**1316.68**	**58547.39**	**342.8**	**197359.66**	**2442.76**	**6936.08**	**13847.8**
Teff	238.65	1.6	83	0.58	1306.11	9.28	164.89	724.41
Barley	-	-	-	-	2569.44	4.68	-	-
Wheat	14097.15	454.43	53119.33	132.33	119799.09	475.92	219.3	4410.21
Maize	23713.11	857.55	4831.38	111.2	29961.39	898.88	6550.12	8695.43
Sorghum	256.17	3.09	512.67	7.46	43406.21	1024.39	1.77	17.75
Finger millet	-	-	-	-	28.5	0.44	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	1.01	91.22	288.91	29.18	-	-
Pulse	**1317.31**	**20.01**	**1398.61**	**7.5**	**3506.97**	**140.82**	**3**	**0.5**
Horse / Faba beans	6.2	0.01	282.23	1.69	392.67	6.16	-	-
Field Peas	0.8	0.01	-	-	-	-	-	-
Haricot beans	13.52	0.09	-	-	193.23	17.03	3	0.5
Chick peas	1239.72	19.12	-	-	1187.18	71.5	-	-
Lentils	1.77	0.01	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	55.3	0.78	1116.58	5.81	1733.88	46.13	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	**3811.45**	**13.29**	**1880.08**	**0.25**	**4569.63**	**636.54**	**99.6**	**-**
Niger seed/neug/	132.3	1.07	-	-	97.21	3.75	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	504.95	3.34	-	-	518	2.98	99.6	-
Rape seed	3174.19	8.87	1880.08	0.25	3954.42	629.81	-	-
Vegetables	**6112.82**	**70.06**	**4245.15**	**92.27**	**312.67**	**7.87**	**1095.89**	**11884.53**
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	152.99	1.99	-	-	-	-	5.2	207.8
Ethiopian cabbage	0.33	*	-	-	-	-	-	-
Tomatoes	5699.1	65.33	3958.86	85	151.14	5.3	1090.44	11676.01
Green peppers	30.11	0.32	32.65	0.6	2.63	0.03	-	-
Red peppers	230.24	2.42	253.64	6.67	158.9	2.54	0.21	0.04
Swiss chard	0.05	*	-	-	-	-	0.04	0.68
Root crops	**1551.45**	**45.82**	**1535.84**	**228.29**	**108.77**	**0.75**	**247.97**	**298.71**
Beetroot	0.07	*	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	1551.38	45.82	1500.83	227.19	108.77	0.75	231.97	81.91
Potatoes	-	-	23.36	0.93	-	-	5.2	207.8
Garlic	-	-	11.65	0.17	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	10.8	9
Other Temporary crops	**5405.95**	**32.14**	**4592.72**	**49.31**	**88.05**	**0.71**	**1700.16**	**13196.48**
Permanent crops	**46863.34**	**711.17**	**4240.66**	**154.08**	**47643.54**	**1916.39**	**20098.33**	**32114.13**
Fruit crops	**15599.39**	**445.28**	**1868.74**	**48.9**	**5901.17**	**34.67**	**3429.39**	**18254.38**
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	26.92	0.74	81	2.43	308.19	773.31
Guava	194.7	4.09	-	-	-	-	0.34	5.44
Lemons	163.89	3.68	40.71	2.59	-	-	1	100
Mangoes	422.74	2.26	909.72	26.86	5.44	10.84	57.32	148.99
Oranges	14698.39	432.55	442.94	7.33	5814.73	21.4	3024.72	17082.13
Papayas	119.67	2.7	448.45	9.38	-	-	37.82	144.51
Pineapples	-	-	-	-	-	-	-	-
Cash crops	**6858**	**28.91**	**39.74**	**3.05**	**18015.87**	**947.8**	**1756.84**	**1849.08**
Chat	-	-	-	-	-	-	-	-
Coffee	6858	28.91	39.74	3.05	18015.87	947.8	1756.84	1849.08
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	21535.59	137.64	266.58	45.62	16725.56	838.34	6111.24	2027.99
Cotton	139309.59	3654.46	203.49	4.93	12.02	0.07	-	-
Other Permanent crops	**2870.37**	**99.34**	**2065.6**	**56.5**	**7000.95**	**95.58**	**8800.85**	**9982.67**

Table 5.1 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Meher (Main) Season

Tigray Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	1141.16	1013.81	1208.69	1011.77	14844.73	6853.38	101176.12	15099.5
Grain crops	468.93	159.35	531.62	262.86	14302.29	594.3	100846.16	4763.89
Cereals	468.93	159.35	529.64	261.86	1704.87	211.02	21553.04	2064.75
Teff	210.07	41.45	205.27	58.32	219.35	77.13	262.61	84.94
Barley	34.48	4.59	34.48	5.27	-	-	34.48	53.59
Wheat	153.6	80.7	153.6	135	29.68	16.96	123.92	198.5
Maize	58.06	22.18	73.94	28.55	214.66	48.39	45.47	12.52
Sorghum	12.72	10.43	32.57	19.81	1241.17	68.54	21056.36	1707.76
Finger millet	-	-	29.78	14.92	-	-	30.2	7.44
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	0.99	0.44	91.99	17.7	83.24	25.59
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	16.82	4.21
Haricot beans	-	-	-	-	16.57	6.46	-	-
Chick peas	-	-	0.99	0.44	75.42	11.24	-	-
Lentils	-	-	-	-	-	-	18.64	2.57
Vetch / Grass peas	-	-	-	-	-	-	47.78	18.82
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	0.99	0.56	12505.43	365.58	79209.89	2673.55
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	0.99	0.56	31.95	4.62	0.99	0.12
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	12473.48	360.97	79208.89	2673.43
Rape seed	-	-	-	-	-	-	-	-
Vegetables	196.97	274.67	201.81	215.5	208.78	16.23	34.19	75.87
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	168.36	261.85	169.23	200.6	194.59	16.12	17.64	1.15
Green peppers	-	-	-	-	-	-	-	-
Red peppers	28.61	12.81	32.58	14.89	14.19	0.11	16.5	73.91
Swiss chard	-	-	-	-	-	-	0.04	0.82
Root crops	466.58	579.36	466.58	532.98	316.9	6178.21	152.04	10234.39
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	425.62	495.72	425.62	449.34	305.25	6177.81	119.49	9809.26
Potatoes	27.47	68.3	27.47	68.3	-	-	27.81	417.31
Garlic	13.49	15.34	13.49	15.34	11.65	0.4	4.73	7.82
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-
Permanent crops	8.68	0.43	8.68	0.43	16.75	64.64	-	-
Fruit crops	8.68	0.43	8.68	0.43	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	8.68	0.43	8.68	0.43	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	143.73	25.35
Other Permanent crops	-	-	-	-	16.75	64.64	-	-

Table 5.1 Contd

TIGRAY Region — Meher Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	1135.4	16.06	985.56	13.54	10444.95	166.31	308.89	6370.48
Grain crops	472.89	1.52	91.81	0.98	10293.03	165.27	193.51	4860.69
Cereals	148.19	0.59	91.81	0.98	9996.32	165.08	193.51	4860.69
Teff	85.19	0.08	83	0.58	100.77	0.4	54.9	243.25
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	8.81	0.4	114.43	1.22	107.24	4289.6
Maize	11.91	0.04	-	-	-	-	29.59	310.09
Sorghum	51.09	0.47	-	-	9781.12	163.46	1.77	17.75
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Velch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	324.69	0.94	-	-	296.71	0.2	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	324.69	0.94	-	-	296.71	0.2	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	122.81	1.17	202.14	2.69	43.14	0.29	56.13	509.82
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	107.25	1.09	202.14	2.69	43.14	0.29	55.87	509.11
Green peppers	-	-	-	-	-	-	-	-
Red peppers	15.56	0.08	-	-	-	-	0.21	0.04
Swiss chard	-	-	-	-	-	-	0.04	0.68
Root crops	496.31	5.13	678.76	9.62	108.77	0.75	0.97	19.11
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	496.31	5.13	643.75	8.51	108.77	0.75	0.97	19.11
Potatoes	-	-	23.36	0.93	-	-	-	-
Garlic	-	-	11.65	0.17	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-
Permanent crops	43.4	0.43	12.85	0.26	-	-	58.29	980.86
Fruit crops	43.4	0.43	-	-	-	-	58.29	980.86
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	0.34	5.44
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	43.4	0.43	-	-	-	-	49.23	943.68
Papayas	-	-	-	-	-	-	8.72	31.74
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	7.8	-	-	-	-	-	-
Other Permanent crops	-	-	12.85	0.26	-	-	-	-

Table 5.2 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Meher (Main) Season

Afar Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	-	-	-	-	3059.3	443.89	19894.67	3478.49
Grain crops	-	-	-	-	1831.63	254.07	2037.83	412.31
Cereals	-	-	-	-	1816.63	253.17	1525.74	342.26
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	1816.63	253.17	1525.74	342.26
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	15	0.9	512.09	70.05
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	15	0.9	512.09	70.05
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	25.2	0.08
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	25.2	0.08
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	6.22	1.1
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	6.22	1.1
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-
Permanent crops	-	-	-	-	117.22	1.06	-	-
Fruit crops	-	-	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	1110.45	188.75	17825.42	3065
Other Permanent crops	-	-	-	-	117.22	1.06	-	-

Table 5.2 Contd

Afar Region

Meher Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	104075.31	2686.45	203.49	4.93	-	-	-	-
Grain crops	153.01	2.99	-	-	-	-	-	-
Cereals	153.01	2.99	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	153.01	2.99	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	7.4	0.22	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	7.4	0.22	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-
Permanent crops	56.22	0.05	-	-	-	-	-	-
Fruit crops	-	-	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	103858.68	2683.19	203.49	4.93	-	-	-	-
Other Permanent crops	56.22	0.05	-	-	-	-	-	-

Table 5.3 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Meher (Main) Season

Amhara Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	**15867.43**	**20521.02**	**16006.91**	**22601.21**	**16301.7**	**10882.28**	**84849.92**	**12603.68**
Grain crops	**15296.38**	**19772.61**	**15434.43**	**21647.23**	**15696.6**	**10776.35**	**83242.72**	**12316.68**
Cereals	**14033.7**	**19421.52**	**13787.24**	**19880.99**	**15109.34**	**10057.81**	**28755.37**	**5117.92**
Teff	319.85	132.8	335.12	258.13	163	41.67	746.54	190.51
Barley	-	-	-	-	-	-	-	-
Wheat	2101.51	2280.84	2144.82	3754.92	3672.14	6771.6	69.39	173.01
Maize	11612.34	17007.88	11271.23	15824.2	11117.6	3061.09	812.2	374.61
Sorghum	-	-	22.31	36.52	148.7	13.46	26938.2	4066.31
Finger millet	-	-	11.11	5.55	-	-	34.12	9.33
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	2.66	1.66	7.91	169.98	154.91	304.16
Pulse	**1223.24**	**311.25**	**1395.73**	**1392.74**	**587.26**	**718.54**	**2364.99**	**2408.26**
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	56.85	31.54	59.23	59.76	-	-	346.32	197.89
Chick peas	-	-	-	-	586.01	718.13	203.7	147.87
Lentils	-	-	-	-	-	-	35.67	41.58
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	1166.38	279.71	1336.5	1332.98	1.24	0.42	1779.29	2020.92
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	**39.44**	**39.84**	**251.46**	**373.5**	**-**	**-**	**52122.36**	**4790.49**
Niger seed/neug/	-	-	-	-	-	-	164.27	18.54
Linseed	-	-	-	-	-	-	20.8	0.76
Groundnuts	-	-	-	-	-	-	0.37	0.03
Safflower	39.44	39.84	-	-	-	-	98.12	16.54
Sesame	-	-	-	-	-	-	51585.05	4718.24
Rape seed	-	-	251.46	373.5	-	-	253.76	36.38
Vegetables	**467.22**	**571.36**	**470.91**	**638.63**	**142.15**	**5.15**	**408.58**	**14.57**
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	2.44	1.66	3.1	0.02	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	3.85	0.64	5.1	2.12	12.93	0.64	-	-
Green peppers	2.63	1.31	2.63	1.31	2.63	0.16	-	-
Red peppers	460.74	569.41	460.74	633.53	123.49	4.33	408.58	14.57
Swiss chard	-	-	-	-	-	-	-	-
Root crops	**42.07**	**102.75**	**39.83**	**134.81**	**39.83**	**1.02**	**5.57**	**0.99**
Beetroot	-	-	-	-	-	-	-	-
Carrot	0.83	0.42	0.83	0.83	0.83	0.05	-	-
Onion	41.24	102.33	39	133.98	39	0.97	5.57	0.99
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	**18.26**	**62.25**	**18.26**	**166**	**23.52**	**34.19**	**18.26**	**16.6**
Permanent crops	**43.49**	**12.06**	**43.49**	**14.55**	**-**	**-**	**-**	**-**
Fruit crops	**43.49**	**12.06**	**43.49**	**14.55**	**-**	**-**	**-**	**-**
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	38.26	9.57	38.26	9.57	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	5.23	2.49	5.23	4.98	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	399.6	65.57	1174.8	254.84
Other Permanent crops	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

Table 5.3 Contd

Amhara Region — Meher Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	**1568.01**	**45.6**	**1294.32**	**7.18**	**43601.81**	**1169.85**	**99.6**	-
Grain crops	**973.03**	**13.75**	**1116.58**	**5.81**	**43393.4**	**1166.75**	**99.6**	-
Cereals	**295.85**	**3.55**	-	-	**41147.65**	**1087.91**	-	-
Teff	-	-	-	-	33.2	0.33	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	2076.61	0.77	-	-
Maize	132.8	1.66	-	-	6748.08	241.64	-	-
Sorghum	163.05	1.89	-	-	32277.62	844.97	-	-
Finger millet	-	-	-	-	12.13	0.18	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	**554.34**	**9.45**	**1116.58**	**5.81**	**1842.14**	**70.33**	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	121.41	5.06	-	-
Chick peas	554.34	9.45	-	-	554.34	40.79	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	1116.58	5.81	1166.38	24.48	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	**122.84**	**0.75**	-	-	**403.62**	**8.51**	**99.6**	-
Niger seed/neug/	-	-	-	-	97.21	3.75	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	122.84	0.75	-	-	52.66	1.66	99.6	-
Rape seed	-	-	-	-	253.76	3.1	-	-
Vegetables	**3.6**	**0.02**	**161.83**	**0.9**	**161.53**	**2.57**	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	3.6	0.02	-	-	-	-	-	-
Green peppers	-	-	2.63	0.03	2.63	0.03	-	-
Red peppers	-	-	159.2	0.87	158.9	2.54	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	**48.96**	**20.65**	**15.91**	**0.47**	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	48.96	20.65	15.91	0.47	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Gcdere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	**36.52**	**0.27**	-	-	**18.26**	**0.3**	-	-
Permanent crops	**111.3**	**1.38**	-	-	**16.6**	**0.17**	-	-
Fruit crops	**111.3**	**1.38**	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	76.53	0.25	-	-	-	-	-	-
Oranges	34.77	1.13	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	**16.6**	**0.17**	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	16.6	0.17	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	394.6	9.53	-	-	12.02	0.07	-	-
Other Permanent crops	-	-	-	-	-	-	-	-

Table 5.4 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Meher (Main) Season

Oromiya Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	**89765.77**	**86720.12**	**103149.27**	**107235.5**	**90766.64**	**246849.75**	**60847.25**	**77187.89**
Grain crops	**63204.85**	**44705.85**	**86941.59**	**91619.92**	**79978.65**	**245443.15**	**53397.94**	**76578.51**
Cereals	**61913.07**	**44226.6**	**79921**	**83019.82**	**78632.15**	**245065.72**	**42543.33**	**68879.88**
Teff	344.97	89.39	802.26	985.57	236.5	64.48	692.15	168.32
Barley	0.57	0.57	1720.99	1723.77	-	-	1787.68	2334.67
Wheat	35200.51	11673.17	50925.89	54315.76	18311.06	31803.81	28593.33	62563.18
Maize	26064.42	32442.18	25812.06	25770.68	59831.61	213157.59	6577.19	1648.04
Sorghum	279.22	14.62	619.36	201.27	205.2	19.1	4603.04	865.6
Finger millet	5.31	0.89	25.02	19.16	18.57	4.64	163.43	1125.18
Oats / 'Aja'	-	-	-	-	-	-	1.07	0.53
Rice	18.08	5.78	15.42	3.62	29.21	16.11	125.45	174.36
Pulse	**621.32**	**358.94**	**2354.52**	**1341.74**	**160.76**	**98.38**	**4040.12**	**6371.64**
Horse / Faba beans	-	-	669.68	530.52	-	-	677.17	1339.18
Field Peas	34.13	68.89	17.06	17.7	17.06	15.93	10.43	44.25
Haricot beans	-	-	716.14	267.52	84.21	24.01	1064.33	927.03
Chick peas	6.2	7.08	6.2	3.54	6.2	6.2	312.84	530.75
Lentils	1.83	0.46	1.83	1.8	-	-	2.34	1.96
Vetch / Grass peas	0.06	0.02	0.06	0.03	-	-	0.06	0.03
Soya beans	579.11	282.49	943.55	520.63	50.64	52.21	1951.71	3507.18
Fenugreek	-	-	-	-	2.66	0.04	-	0.02
Gibto	-	-	-	-	-	-	21.24	21.24
Oilseeds	**670.45**	**120.31**	**4666.07**	**7258.36**	**1185.74**	**279.04**	**6814.48**	**1326.99**
Niger seed/neug/	-	-	-	-	20.62	28.32	1085.82	96.43
Linseed	-	-	158.49	75.22	16.94	7.08	141.6	55.76
Groundnuts	-	-	-	-	-	-	106.91	244.27
Safflower	320.46	14.16	7.08	7.08	-	-	327.54	29.82
Sesame	350	106.15	249	133.05	-	-	2049.29	274.54
Rape seed	-	-	4251.5	7043.01	1148.18	243.64	3103.32	626.17
Vegetables	**847.63**	**1298.12**	**1009.34**	**1653.5**	**9400.5**	**6.2**	**491.53**	**44.43**
Lettuce	1.01	6	-	-	-	-	1.01	0.44
Head cabbage	47.22	77.04	47.22	81.68	8594.93	1.16	-	-
Ethiopian cabbage	1.15	2.75	0.36	0.26	-	-	3.31	1.32
Tomatoes	637.72	1090.69	795.25	1457.86	787.26	3.37	29.12	0.15
Green peppers	9.2	11.49	9.2	10.94	9.2	0.22	0.06	0.01
Red peppers	150.83	106.64	157.23	102.76	8.57	0.57	458.03	42.51
Swiss chard	0.49	3.51	0.07	0.01	0.54	0.89	-	-
Root crops	**491.11**	**573.52**	**447.5**	**602.31**	**580.32**	**898.24**	**5209.7**	**560.66**
Beetroot	0.08	0.1	0.08	0.1	0.08	0.01	5159.54	44
Carrot	0.75	4	0.39	1	1.5	0.32	-	-
Onion	486.58	562.64	429.79	437.58	512.97	18.71	33.6	3.65
Potatoes	2.8	5	16.34	161.85	64.89	879.2	12.11	512.83
Garlic	0.91	1.77	0.91	1.77	0.89	-	1.16	0.18
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	3.29	-
Other Temporary crops	**834.47**	**800.13**	**696.42**	**1143.35**	**605.05**	**492.98**	**50.59**	**4.27**
Permanent crops	**24387.72**	**39342.49**	**13961.95**	**12214.56**	**109.65**	**-**	**1697.5**	**0.03**
Fruit crops	**3533.74**	**5519.37**	**3497.51**	**3997.02**	**-**	**-**	**1.02**	**-**
Avocado	-	-	-	-	-	-	1.02	-
Bananas	8.97	13.28	8.97	17.7	-	-	-	-
Guava	97.35	134.82	97.35	45.79	-	-	-	-
Lemons	41.24	44.6	41.24	23.93	-	-	-	-
Mangoes	170.29	372.28	170.29	97.17	-	-	-	-
Oranges	3098.65	4739.57	3098.65	3651.74	-	-	-	-
Papayas	117.23	214.81	81	160.69	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	**10082.36**	**13135.13**	**10009.17**	**7747.41**	**109.65**	**-**	**457.48**	**0.03**
Chat	-	-	-	-	-	-	-	-
Coffee	10082.36	13135.13	10009.17	7747.41	109.65	-	457.48	0.03
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	10262.11	19094.22	-	-	-	-	1239	-
Cotton	-	-	92.46	1.86	92.46	9.19	-	-
Other Permanent crops	**509.51**	**1593.77**	**455.27**	**470.12**	**-**	**-**	**-**	**-**

Table 5.4 Contd

Oromiya Region — Meher Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	**84044.2**	**1619.15**	**72928.2**	**609.57**	**177289**	**2510.54**	**24545.97**	**54809.37**
Grain crops	**33824.69**	**905.47**	**60148.48**	**245.27**	**135773.5**	**1397.61**	**6577.65**	**6789.77**
Cereals	**30528.08**	**888.08**	**57986.18**	**243.33**	**130874.49**	**701.91**	**6577.65**	**6789.77**
Teff	-	-	-	-	474.88	4.48	109.99	481.16
Barley	-	-	-	-	2566.84	3.76	-	-
Wheat	13849.13	390.73	52988.12	131.28	114818.02	363.12	112.06	120.61
Maize	16646.82	496.71	4814.38	111.16	12148.31	317.16	6355.61	6188
Sorghum	32.13	0.63	183.67	0.89	863.26	13.36	-	-
Finger millet	-	-	-	-	2.66	0.03	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	0.53	-	-	-
Pulse	**77**	**6.95**	**282.23**	**1.69**	**1186.03**	**68.61**	**-**	**-**
Horse / Faba beans	6.2	0.01	282.23	1.69	392.67	6.16	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	71.82	11.97	-	-
Chick peas	51.33	6.9	-	-	154.04	28.84	-	-
Lentils	1.77	0.01	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	17.7	0.03	-	-	567.5	21.64	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	**3219.61**	**10.45**	**1880.08**	**0.25**	**3712.97**	**627.08**	**-**	**-**
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	45.42	1.58	-	-	12.31	0.37	-	-
Rape seed	3174.19	8.87	1880.08	0.25	3700.66	626.71	-	-
Vegetables	**5693.39**	**64.92**	**3702.99**	**80.1**	**-**	**-**	**1034.57**	**11166.9**
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	152.99	1.99	-	-	-	-	-	-
Ethiopian cabbage	0.33	-	-	-	-	-	-	-
Tomatoes	5451.54	61.42	3640.66	78.29	-	-	1034.57	11166.9
Green peppers	27.61	0.24	27.61	0.42	-	-	-	-
Red peppers	60.92	1.28	34.72	1.39	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	**969.36**	**17.93**	**829.25**	**100.93**	**-**	**-**	**231**	**62.8**
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	969.36	17.93	829.25	100.93	-	-	231	62.8
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	**4836.63**	**23.14**	**4060.03**	**38.66**	**-**	**-**	**1502.16**	**13193.43**
Permanent crops	**38627.67**	**604.94**	**4187.46**	**144.61**	**41515.5**	**1112.92**	**15200.58**	**23596.47**
Fruit crops	**15287.51**	**443.42**	**1868.13**	**42.74**	**5814.73**	**21.4**	**3061.11**	**16275.52**
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	26.92	0.74	-	-	0.44	5.31
Guava	194.7	4.09	-	-	-	-	-	-
Lemons	162.84	3.67	40.71	2.59	-	-	-	-
Mangoes	346.21	2.01	909.11	22.7	-	-	56.32	48.99
Oranges	14464.09	430.95	442.94	7.33	5814.73	21.4	2975.49	16138.45
Papayas	119.67	2.7	448.45	9.38	-	-	28.85	82.77
Pineapples	-	-	-	-	-	-	-	-
Cash crops	**-**	**-**	**-**	**-**	**14294.46**	**240.48**	**1756.84**	**1849.08**
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	14294.46	240.48	1756.84	1849.08
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	21535.59	137.64	266.58	45.62	16725.56	838.34	6078.18	1697.39
Cotton	92.46	2.74	-	-	-	-	-	-
Other Permanent crops	**1804.57**	**23.88**	**2052.75**	**56.24**	**4680.75**	**12.71**	**4304.45**	**3774.47**

Table 5.5 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Meher (Main) Season

Somalie Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	99.62	87.43	72.97	45.87	96.75	15.14	184.06	48.02
Grain crops	62.06	13.57	36.07	17.54	55.22	12.15	169.62	47.32
Cereals	59.06	13.07	36.07	17.54	55.22	12.15	159.62	46.14
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	4	0.9	-	-
Wheat	-	-	-	-	10.48	4.27	3.63	1.5
Maize	59.06	13.07	34	17.04	31.1	4.72	152.44	43.39
Sorghum	-	-	2.07	0.5	9.64	2.26	3.55	1.25
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	3	0.5	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	3	0.5	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	10	1.18
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	10	1.18
Rape seed	-	-	-	-	-	-	-	-
Vegetables	13.44	21.59	12.53	12.5	20.73	1.54	2.68	0.12
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	1.03	0.5	1.03	0.08	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	8.44	16.59	6.5	7	12.46	1.18	2.68	0.12
Green peppers	-	-	-	-	-	-	-	-
Red peppers	5	5	5	5	7.24	0.29	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	11.92	13.5	11.92	13.5	19.62	1.43	9.96	0.55
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	1.97	0.13	-	-
Onion	11.92	13.5	11.92	13.5	17.65	1.3	9.96	0.55
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-
Permanent crops	12.2	38.77	12.45	2.33	1.18	0.02	1.8	0.03
Fruit crops	12.2	38.77	12.45	2.33	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	0.25	1	-	-	-	-
Oranges	12.2	38.77	12.2	1.33	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other Permanent crops	-	-	-	-	1.18	0.02	1.8	0.03

Table 5.5 Contd

Somalie Region — Meher Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	191.91	2.11	35.86	117.6	12.5	0.02	320	1000
Grain crops	17	0.1	17	0.04	12.5	0.02	10	2
Cereals	17	0.1	17	0.04	12.5	0.02	7	1.5
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	17	0.1	17	0.04	12.5	0.02	7	1.5
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	3	0.5
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	3	0.5
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	13.44	0.42	6.94	0.29	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	8.44	0.37	1.94	0.24	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	5	0.05	5	0.05	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	8.42	1.54	11.92	117.27	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	8.42	1.54	11.92	117.27	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-
Permanent crops	153.05	0.05	-	-	-	-	310	998
Fruit crops	149.97	0.02	-	-	-	-	310	998
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	307.75	768
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	1	100
Mangoes	-	-	-	-	-	-	1	100
Oranges	149.97	0.02	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	0.25	30
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other Permanent crops	3.08	0.03	-	-	-	-	-	-

Table 5.6 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Meher (Main) Season

Benishangul-Gumuz Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	**3960.65**	**3780.21**	**3589.62**	**3079.57**	**3978.54**	**1128.47**	**14911.87**	**3362.97**
Grain crops	**3935.03**	**3771.75**	**3574.58**	**3072.99**	**3943.31**	**1127.84**	**14749.88**	**3351.47**
Cereals	**3627.08**	**3569.65**	**3305.51**	**2940.45**	**3636.24**	**1018.78**	**7375.05**	**1740.63**
Teff	-	-	-	-	-	-	11.38	0.79
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	3480.44	3550.66	3106.23	2832.5	3264.87	720.16	1918.71	478.77
Sorghum	146.64	18.99	199.28	107.95	248.74	52.12	5421.08	1246.78
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	122.63	246.5	23.88	14.29
Pulse	**201.16**	**177.66**	**269.07**	**132.54**	**216.84**	**104.01**	**1016.35**	**828.95**
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	156.04	132.54	47	23.5	156.04	90 24	59.31	26.32
Chick peas	45.12	45.12	-	-	45.12	11.28	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	222.07	109.04	15.68	2.49	957.04	802.63
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	**106.78**	**24.44**	**-**	**-**	**90.23**	**5.05**	**6358.48**	**781.89**
Niger seed/neug/	-	-	-	-	49.9	1.22	217.4	22.72
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	12.55	4.29
Safflower	-	-	-	-	24.97	1.88	-	-
Sesame	106.78	24.44	-	-	15.37	1.95	6128.54	754.89
Rape seed	-	-	-	-	-	-	-	-
Vegetables	**14.34**	**3.76**	**3.76**	**1.88**	**4.94**	**0.19**	**153.36**	**10.37**
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	14.34	3.76	3.76	1.88	4.94	0.19	153.36	10.37
Swiss chard	-	-	-	-	-	-	-	-
Root crops	**11.28**	**4.7**	**11.28**	**4.7**	**13.25**	**0.44**	**0.47**	**0.19**
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	11.28	4.7	11.28	4.7	13.25	0.44	0.47	0.19
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-
Permanent crops	-	-	-	-	**17.03**	-	-	-
Fruit crops	-	-	-	-	**17.03**	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	1.92	-	-	-
Oranges	-	-	-	-	15.12	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	8.16	0.94
Other Permanent crops	-	-	-	-	-	-	-	-

Table 5.6 Contd

Benishangul-Gumuz Region

Meher Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	47.11	0.77	329	6.58	921.88	10.36	157.92	2195.84
Grain crops	40.51	0.76	329	6.58	921.88	10.36	157.92	2195.84
Cereals	-	-	329	6.58	765.55	9.61	157.92	2195.84
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	423.53	8.4	157.92	2195.84
Sorghum	-	-	329	6.58	342.03	1.2	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	40.51	0.76	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	2.91	0.01	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	37.6	0.75	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	156.32	0.75	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	156.32	0.75	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	6.6	0.01	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	6.6	0.01	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-
Permanent crops	-	-	-	-	-	-	-	-
Fruit crops	-	-	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other Permanent crops	-	-	-	-	-	-	-	-

Table 5.7 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Meher (Main) Season

S.N.N.P.R

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	35126.28	20413.19	31311.15	21357.93	23066.75	10354.27	8879.01	4244.6
Grain crops	18009.37	13142.09	21497.69	17828.03	22024.6	9140.4	4165.24	2276.2
Cereals	17692.87	12875.2	20345	17138.73	20031.53	7889.95	2564.19	1095.49
Teff	409.13	211.02	606.8	394.16	1100.63	310.23	379.92	100.77
Barley	112.26	56.13	113.06	111.84	112.26	112.62	0.8	1.61
Wheat	1400.58	495.52	3069.61	2277.92	2776.54	3851.59	302.07	633.93
Maize	15378.75	11726.68	16483.53	14282.81	15355.41	3317.19	501.06	123.53
Sorghum	9.9	3.6	28.8	28.8	-	-	1128.74	161.19
Finger millet	-	-	-	-	-	-	22.85	0.05
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	382.25	382.25	43.2	43.2	686.69	298.31	228.75	74.42
Pulse	270.15	218.94	1049.36	608.95	1276.43	770.55	1191.89	1116.12
Horse / Faba beans	-	-	-	-	-	-	0.36	0.07
Field Peas	-	-	0.8	0.48	-	-	0.8	0.64
Haricot beans	270.15	218.94	999.24	595.78	1094.25	719.47	378.54	271.38
Chick peas	-	-	34.92	7.29	128.18	51.08	797.78	836.82
Lentils	-	-	3.6	1.8	-	-	3.6	0.01
Vetch / Grass peas	-	-	10.8	3.6	-	-	10.8	7.2
Soya beans	-	-	-	-	54	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	46.35	47.95	103.34	80.35	716.64	479.9	409.17	64.59
Niger seed/neug/	42.75	47.5	53.68	52.9	23.53	1.71	198.37	41.99
Linseed	3.6	0.45	3.6	0.45	-	-	3.6	0.36
Groundnuts	-	-	4.21	0.9	4.21	1.8	5.45	2.16
Safflower	-	-	-	-	534.69	428.4	-	-
Sesame	-	-	41.85	26.1	154.21	47.98	201.74	20.08
Rape seed	-	-	-	-	-	-	-	-
Vegetables	354.08	371.03	364.09	393.56	43.41	4.55	289.65	234.16
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	3.6	3.6	-	-	3.6	0.09	5.2	207.8
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	142.62	126.66	142.62	115.58	6.12	0.07	33.22	0.98
Green peppers	2.41	36	2.41	36	2.41	0.18	-	-
Red peppers	205.45	204.76	219.06	241.98	31.28	4.2	251.24	25.37
Swiss chard	-	-	-	-	-	-	-	-
Root crops	34.68	37.22	32.88	31.17	50.09	318.39	42.89	91.75
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	23.88	19.22	23.88	23.97	34.79	1.59	28.69	6.58
Potatoes	-	-	9	7.2	4.5	46.8	14.2	85.17
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	10.8	18	-	-	10.8	270	-	-
Other Temporary crops	598.3	375.26	641.5	657.42	11.47	432	649.83	895.71
Permanent crops	15374.5	5938.49	8747.81	2444.08	19	308.75	-	-
Fruit crops	132.07	132.07	234.9	53.41	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	81	81	81	40.5	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	51.07	51.07	153.9	12.91	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	14536.98	4657.02	8388.85	2162.02	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	14536.98	4657.02	8388.85	2162.02	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	33.06	82.65	33.06	82.65	-	-	-	-
Cotton	755.35	549.11	27.18	3.67	918.18	150.19	3731.4	746.78
Other Permanent crops	672.4	1066.75	91	146.01	19	308.75	-	-

Table 5.7 Contd

S.N.N.P.R

Meher Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	23978.52	751.86	867.71	120.03	20266.12	1243.86	4748.65	6966.45
Grain crops	7940.7	425.31	123.41	91.87	15041.94	480.12	-	-
Cereals	7162.94	421.38	123.41	91.87	14563.14	478.25	-	-
Teff	153.45	1.52	-	-	697.26	4.07	-	-
Barley	-	-	-	-	2.6	0.91	-	-
Wheat	248.02	63.7	122.4	0.65	2790.03	110.8	-	-
Maize	6751.56	356.05	-	-	10628.98	331.66	-	-
Sorghum	9.9	0.11	-	-	142.19	1.4	-	-
Finger millet	-	-	-	-	13.71	0.23	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	1.01	91.22	288.38	29.18	-	-
Pulse	645.46	2.86	-	-	478.8	1.87	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	0.8	0.01	-	-	-	-	-	-
Haricot beans	10.61	0.08	-	-	-	-	-	-
Chick peas	634.05	2.77	-	-	478.8	1.87	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	132.3	1.07	-	-	-	-	-	-
Niger seed/neug/	132.3	1.07	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	272.75	3.5	171.26	8.3	108	5.01	5.2	207.8
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	5.2	207.8
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	128.27	2.42	114.12	3.79	108	5.01	-	-
Green peppers	2.41	0.07	2.41	0.15	-	-	-	-
Red peppers	142.07	1	54.73	4.36	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	20.8	0.34	-	-	-	-	16	216.8
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	20.8	0.34	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	5.2	207.8
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	10.8	9
Other Temporary crops	532.69	8.52	532.69	10.65	69.79	0.41	198	3.05
Permanent crops	7859.3	104.23	40.36	9.21	5046.39	758.32	4529.46	6538.8
Fruit crops	-	-	0.61	6.16	86.44	13.27	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	81	2.43	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	0.61	6.16	5.44	10.84	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	6858	28.91	39.74	3.05	2639.75	662.18	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	6858	28.91	39.74	3.05	2639.75	662.18	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	33.06	330.6
Cotton	7352.28	209.95	-	-	-	-	-	-
Other Permanent crops	1001.3	75.32	-	-	2320.2	82.87	4496.4	6208.2

Table 5.8 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Meher (Main) Season

Gambella Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	388.74	911.19	388.74	583.17	686.99	129.63	6770.5	2450.76
Grain crops	-	-	-	-	272.27	60.47	731.25	175.12
Cereals	-	-	-	-	242.76	58.7	641.41	166.3
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	218.37	56.52	592.62	149.4
Sorghum	-	-	-	-	24.1	2.13	48.79	16.9
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	0.3	0.05	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	29.51	1.77	89.84	8.82
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	0.6	0.07
Safflower	-	-	-	-	0.6	0.04	-	-
Sesame	-	-	-	-	28.92	1.74	89.25	8.75
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	3.57	0.12	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	2.38	0.08	-	-
Green peppers	-	-	-	-	1.19	0.04	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	1.78	0.01	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	1.78	0.01	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-
Permanent crops	388.74	911.19	388.74	583.17	-	-	-	-
Fruit crops	-	-	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	388.74	911.19	388.74	583.17	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	388.74	911.19	388.74	583.17	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	409.36	69.02	6039.25	2275.64
Other Permanent crops	-	-	-	-	-	-	-	-

Table 5.8 Contd

Gambella Region — Meher Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	27611.57	741.25	-	-	1065.05	44.98	-	-
Grain crops	-	-	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-
Permanent crops	-	-	-	-	1065.05	44.98	-	-
Fruit crops	-	-	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	1065.05	44.98	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	1065.05	44.98	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	27611.57	741.25	-	-	-	-	-	-
Other Permanent crops	-	-	-	-	-	-	-	-

Table 5.9 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Meher (Main) Season

Harari Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	-	-	-	-	8.6	0.55	-	0.2
Grain crops	-	-	-	-	6	0.5	-	0.2
Cereals	-	-	-	-	-	-	-	0.2
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	0.2
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	6	0.5	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	6	0.5	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-
Permanent crops	-	-	-	-	2.6	0.05	-	-
Fruit crops	-	-	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other Permanent crops	-	-	-	-	2.6	0.05	-	-

Table 5.9 Contd

Harari Region — Meher Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	17.2	0.14	-	-	-	-	-	-
Grain crops	12	0.08	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	12	0.08	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	12	0.08	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-
Permanent crops	5.2	0.06	-	-	-	-	-	-
Fruit crops	-	-	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	-	-	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other Permanent crops	5.2	0.06	-	-	-	-	-	-

Table 5.10 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Meher (Main) Season

DIRE DAWA CITY ADMINISTRATION

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	10.21	169.84	10.21	169.83	0.36	0.03	0.18	*
Grain crops	-	-	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	0.14	0.02	0.14	0.02	0.05	0.01	0.18	*
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	0.09	*
Red peppers	0.09	0.01	0.09	0.01	-	-	0.09	*
Swiss chard	0.05	0.01	0.05	0.01	0.05	0.01	-	-
Root crops	0.2	0.08	0.2	0.08	0.2	0.01	-	-
Beetroot	0.07	0.01	0.07	*	0.07	*	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	0.13	0.08	0.13	0.08	0.13	0.01	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	0.05	0.01	0.05	0.01	0.11	*	-	-
Permanent crops	9.82	169.72	9.82	169.72	-	-	-	-
Fruit crops	9.82	169.72	9.82	169.72	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	2	0.81	2	0.81	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	7.6	168.75	7.6	168.75	-	-	-	-
Papayas	0.22	0.16	0.22	0.16	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other Permanent crops	-	-	-	-	-	-	-	-

Table 5.10 Contd

DIRE DAWA CITY ADMINISTRATION — Meher Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	7.75	0.24	-	-	-	-	-	-
Grain crops	-	-	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	0.23	0.01	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	0.09	0.01	-	-	-	-	-	-
Red peppers	0.09	*	-	-	-	-	-	-
Swiss chard	0.05	*	-	-	-	-	-	-
Root crops	0.2	*	-	-	-	-	-	-
Beetroot	0.07	*	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	0.13	*	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	0.11	0.2	-	-	-	-	-	-
Permanent crops	7.21	0.02	-	-	-	-	-	-
Fruit crops	7.21	0.02	-	-	-	-	-	-
Avocado	-	-	-	-	-	-	-	-
Bananas	-	-	-	-	-	-	-	-
Guava	-	-	-	-	-	-	-	-
Lemons	1.05	0.01	-	-	-	-	-	-
Mangoes	-	-	-	-	-	-	-	-
Oranges	6.16	0.01	-	-	-	-	-	-
Papayas	-	-	-	-	-	-	-	-
Pineapples	-	-	-	-	-	-	-	-
Cash crops	-	-	-	-	-	-	-	-
Chat	-	-	-	-	-	-	-	-
Coffee	-	-	-	-	-	-	-	-
Tea	-	-	-	-	-	-	-	-
Hops / 'Gesho'	-	-	-	-	-	-	-	-
Enset	-	-	-	-	-	-	-	-
Sugar cane	-	-	-	-	-	-	-	-
Cotton	-	-	-	-	-	-	-	-
Other Permanent crops	-	-	-	-	-	-	-	-

Table 6 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Belg Season

Country

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	1668.99	1645.09	36836.57	1615.92	44241.36	536.69	191294.05	2665.18
Grain crops	1024.67	683.12	36166.3	743.35	36608.83	357.81	190948.9	1186.86
Cereals	821.44	589.02	35954.49	639.83	36450.69	300.73	188543.62	893.98
Teff	42.44	5.95	3.83	1.84	70.2	35.1	10.76	2.37
Barley	71.89	1.02	71.55	0.68	-	-	71.89	3.4
Wheat	112.39	44.25	112.39	90.27	-	-	172.17	226.68
Maize	594.72	537.8	35766.71	547.04	36380.49	265.63	2267.09	573.49
Sorghum	-	-	-	-	-	-	185913.71	52.03
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	108	36
Pulse	178.45	86.67	187.03	96.09	157.99	57.07	244.52	154.7
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	6.76	0.83	15.34	10.25	152.82	54.94	47.88	10
Chick peas	-	-	-	-	5.17	2.13	8.88	2.85
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	171.69	85.84	171.69	85.84	-	-	187.76	141.85
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	24.78	7.43	24.78	7.43	0.15	0.01	2160.75	138.19
Niger seed/neug/	-	-	-	-	-	-	17.7	0.89
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	0.15	0.01	33.03	4.62
Safflower	-	-	-	-	-	-	-	-
Sesame	24.78	7.43	24.78	7.43	-	-	2108.46	132.52
Rape seed	-	-	-	-	-	-	1.56	0.16
Vegetables	176.25	261.35	220.36	262.03	7249.89	79.84	39.72	14.51
Lettuce	-	-	-	-	2.23	0.04	0.37	*
Head cabbage	12.79	13.22	13.18	13.53	13.1	0.89	8.41	0.17
Ethiopian cabbage	-	-	-	-	-	-	0.6	12.29
Tomatoes	147.72	232.89	184.86	230.04	7180.99	77.1	4.33	0.81
Green peppers	0.74	2.22	0.74	2.22	27.94	0.14	2.36	0.11
Red peppers	14.92	13.02	21.51	16.24	24.14	1.64	23.66	1.13
Swiss chard	0.07	*	0.07	*	1.48	0.03	-	-
Root crops	335.99	609.61	356.26	550.79	337.75	73.54	220.26	1308.74
Beetroot	0.84	1	1.26	1.04	1.43	0.88	-	-
Carrot	1.32	0.53	0.91	0.5	4.15	1.32	-	-
Onion	304.62	425.42	313.86	410.73	328.45	19.97	187.2	45.8
Potatoes	29.21	182.65	40.24	138.52	3.21	51.36	33.06	1262.94
Garlic	-	-	-	-	0.51	0.01	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	132.08	91.01	93.65	59.75	44.89	25.51	85.18	155.06

Table 6 Contd

Country

Belg Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	7646.9	50.31	14765.69	17.46	825.78	13.43	181.18	5294.07
Grain crops	108.41	1.32	121.61	1.09	704.06	11.99	110.88	3451.39
Cereals	108.41	1.32	121.61	1.09	700.06	11.38	77.85	3078.12
Teff	38.61	0.02	-	-	45.54	0.2	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	29.32	0.24	112.39	0.44	124.51	0.63	-	-
Maize	40.48	1.05	9.22	0.65	351.03	3.74	77.85	3078.12
Sorghum	-	-	-	-	178.98	6.81	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	2.44	0.33	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	2.44	0.33	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	1.56	0.27	33.03	373.27
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	33.03	373.27
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	1.56	0.27	-	-
Vegetables	7185.04	6.76	14120.5	4.64	26.45	0.75	48.8	1758.27
Lettuce	-	-	-	-	0.05	0.01	2.17	43.4
Head cabbage	21.98	0.84	10.09	0.35	0.74	0.14	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	7151.27	5.46	14109.61	4.28	24.15	0.51	38.82	1560.04
Green peppers	-	-	-	-	-	-	-	-
Red peppers	12.72	0.46	0.8	0.01	1.23	0.08	6.21	143.06
Swiss chard	0.07	*	-	-	0.27	0.01	1.6	11.78
Root crops	235.53	7.87	506.76	11.48	95.27	0.69	13.2	84.37
Beetroot	0.1	*	-	-	0.11	0.08	-	-
Carrot	-	-	-	-	0.08	0.01	-	-
Onion	285.43	7.87	489.67	10.42	95.08	0.6	13.02	80.29
Potatoes	-	-	17.09	1.07	-	-	-	-
Garlic	-	-	-	-	-	-	0.18	4.08
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	66.92	34.36	16.82	0.25	-	-	8.3	0.03

Table 6.1 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Belg Season

Tigray Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	742.93	722.99	730.19	743.04	647.91	108.68	1136.75	422.48
Grain crops	231.58	99.08	190.31	98.55	183.91	65.65	1035.85	105.19
Cereals	231.58	99.08	190.31	98.55	169.25	61.26	489	74.32
Teff	42.44	5.95	3.83	1.84	70.2	35.1	3.83	0.46
Barley	71.89	1.02	71.55	0.68	-	-	71.89	3.4
Wheat	-	-	-	-	-	-	-	-
Maize	117.25	92.12	114.93	96.03	99.05	26.16	91.53	41.21
Sorghum	-	-	-	-	-	-	321.75	29.25
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	14.66	4.4	8.88	2.85
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	14.66	4.4	-	-
Chick peas	-	-	-	-	-	-	8.88	2.85
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	537.97	28.02
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	33.03	4.62
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	504.93	23.4
Rape seed	-	-	-	-	-	-	-	-
Vegetables	155.17	205	201.18	222.37	203.77	5.25	30.06	1.95
Lettuce	-	-	-	-	2.17	0.02	-	-
Head cabbage	10.09	9.41	10.09	9.08	-	-	8.41	0.17
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	133.64	185.78	173.06	203.05	177.52	5	3.5	0.81
Green peppers	-	-	-	-	-	-	-	-
Red peppers	11.45	9.81	18.04	10.24	22.95	0.21	18.15	0.97
Swiss chard	-	-	-	-	1.13	0.01	-	-
Root crops	301.05	363.78	321.89	405.3	243.4	12.55	70.84	315.34
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	272.26	292.09	285.28	333.61	243.23	12.54	42.05	3.36
Potatoes	28.79	71.69	36.61	71.69	-	-	28.79	311.98
Garlic	-	-	-	-	0.18	0.01	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	55.12	55.12	16.82	16.82	16.82	25.23	-	-

Table 6.1 Contd

Tigray Region — Belg Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	554.51	47.96	665.76	15.92	178.52	1.15	172.88	5294.03
Grain crops	63.27	0.96	9.22	0.65	63.27	0.32	110.88	3451.39
Cereals	63.27	0.96	9.22	0.65	63.27	0.32	77.85	3078.12
Teff	38.61	0.02	-	-	38.61	0.02	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	24.66	0.94	9.22	0.65	24.66	0.3	77.85	3078.12
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	33.03	373.27
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	33.03	373.27
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	181.87	5.42	143.86	4.02	23.05	0.37	48.8	1758.27
Lettuce	-	-	-	-	-	-	2.17	43.4
Head cabbage	16.82	0.59	10 09	0.35	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	153.52	4.61	132.97	3.66	23.05	0.37	38.82	1560.04
Green peppers	-	-	-	-	-	-	-	-
Red peppers	11.53	0.22	0.8	0.01	-	-	6.21	143.06
Swiss chard	-	-	-	-	-	-	1.6	11.78
Root crops	275.73	7.52	495.86	11.01	92.2	0.46	13.2	84.37
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	275.73	7.52	478.77	9.94	92.2	0.46	13.02	80.29
Potatoes	-	-	17.09	1.07	-	-	-	-
Garlic	-	-	-	-	-	-	0.18	4.08
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	33.64	34.06	16.82	0.25	-	-	-	-

Table 6.2 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Belg Season

Afar Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	-	-	-	-	60	8.1	1506.24	279.78
Grain crops	-	-	-	-	60	8.1	1506.24	279.78
Cereals	-	-	-	-	60	8.1	1506.24	279.78
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	60	8.1	1506.24	279.78
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-

Table 6.2 Contd

Afar Region — Belg Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	-	-	-	-	-	-	-	-
Grain crops	-	-	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-

Table 6.3 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Belg Season

Amhara Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	33.52	120.02	33.07	74.78	95.7	24.67	642.54	92.49
Grain crops	17.56	2.49	20.88	5.81	62.89	19.02	482.93	49.62
Cereals	10.81	1.66	14.13	4.15	50.96	16.84	239.03	37.05
Teff	-	-	-	-	-	-	6.93	1.92
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	42.07	13.93
Maize	10.81	1.66	14.13	4.15	50.96	16.84	11.04	9.59
Sorghum	-	-	-	-	-	-	178.98	11.62
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	6.76	0.83	6.76	1.66	11.92	2.18	5.26	0.79
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	6.76	0.83	6.76	1.66	6.76	0.05	5.26	0.79
Chick peas	-	-	-	-	5.17	2.13	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	238.64	11.78
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	237.08	11.62
Rape seed	-	-	-	-	-	-	1.56	0.16
Vegetables	4.6	2.54	4.6	5.44	12.4	0.28	6.56	0.15
Lettuce	-	-	-	-	0.05	0.01	0.37	*
Head cabbage	0.42	0.05	0.42	0.05	6.16	0.07	-	-
Ethiopian cabbage	-	-	-	-	-	-	0.25	*
Tomatoes	1.89	1.66	1.89	4.15	5.91	0.18	0.83	*
Green peppers	-	-	-	-	-	-	1.18	0.01
Red peppers	2.29	0.83	2.29	1.24	-	-	3.94	0.13
Swiss chard	-	-	-	-	0.27	0.01	-	-
Root crops	11.36	114.99	7.59	63.53	20.41	5.36	144.75	42.39
Beetroot	-	-	0.42	0.03	0.52	0.84	-	-
Carrot	0.42	0.03	-	-	3.13	1.3	-	-
Onion	10.95	114.95	7.17	63.49	16.76	3.22	144.75	42.39
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	8.3	0.33

Table 6.3 Contd

Amhara Region — Belg Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	62.19	0.54	14.46	0.55	234.26	8.84	8.3	0.03
Grain crops	14.94	0.06	-	-	227.79	8.22	-	-
Cereals	14.94	0.06	-	-	223.79	7.62	-	-
Teff	-	-	-	-	6.93	0.18	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	11.62	0.05	-	-	12.11	0.19	-	-
Maize	3.32	0.01	-	-	25.77	0.44	-	-
Sorghum	-	-	-	-	178.98	6.81	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	2.44	0.33	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	2.44	0.33	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	1.56	0.27	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	1.56	0.27	-	-
Vegetables	5.54	0.06	3.55	0.07	3.4	0.38	-	-
Lettuce	-	-	-	-	0.05	0.01	-	-
Head cabbage	3.04	0.01	-	-	0.74	0.14	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	2.49	0.04	3.55	0.07	1.1	0.14	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	1.23	0.08	-	-
Swiss chard	-	-	-	-	0.27	0.01	-	-
Root crops	8.51	0.12	10.91	0.47	3.07	0.23	-	-
Beetroot	-	-	-	-	0.11	0.08	-	-
Carrot	-	-	-	-	0.08	0.01	-	-
Onion	8.51	0.12	10.91	0.47	2.88	0.14	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	33.2	0.3	-	-	-	-	8.3	0.03

Table 6.4 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Belg Season

Oromiya Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	430.32	262.82	430.19	305.52	7191.5	26.08	484.68	505.52
Grain crops	426.57	256.12	426.57	301.25	117.7	24.53	480.1	361.72
Cereals	230.1	162.84	230.1	207.97	117.7	24.53	244.69	216.19
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	112.39	44.25	112.39	90.27	-	-	130.09	212.75
Maize	117.7	118.59	117.7	117.7	117.7	24.53	114.6	3.44
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	171.69	85.84	171.69	85.84	-	-	192.93	142.66
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	21.24	5.31
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	171.69	85.84	171.69	85.84	-	-	171.69	137.35
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	24.78	7.43	24.78	7.43	-	-	42.48	2.87
Niger seed/neug/	-	-	-	-	-	-	17.7	0.89
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	24.78	7.43	24.78	7.43	-	-	24.78	1.98
Rape seed	-	-	-	-	-	-	-	-
Vegetables	1.55	3.16	1.55	2.27	7013.89	0.24	0.48	0.06
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	1.11	1.39	1.11	1.39	0.93	0.02	-	-
Ethiopian cabbage	-	-	-	-	-	-	0.04	-
Tomatoes	0.44	1.77	0.44	0.89	6985.01	0.08	-	-
Green peppers	-	-	-	-	27.94	0.14	0.44	0.06
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	0.01	-	-	-
Root crops	2.07	2	2.07	2	31.97	1.03	3.96	143.54
Beetroot	0.74	1	0.74	1	0.81	0.03	-	-
Carrot	0.91	0.5	0.91	0.5	0.91	0.02	-	-
Onion	-	-	-	-	30.25	0.98	-	-
Potatoes	0.42	0.5	0.42	0.5	-	-	3.96	143.54
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	0.13	1.55	-	-	27.94	0.28	0.13	0.2

Table 6.4 Contd

Oromiya Region — Belg Season

Crop Type	Chemicals						Others
	Pesticide		Fungicides		Herbicides		
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec Am
Total	7003.63	0.33	14082.4	0.86	112.39	0.44	-
Grain crops	17.7	0.19	112.39	0.44	112.39	0.44	-
Cereals	17.7	0.19	112.39	0.44	112.39	0.44	-
Teff	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Wheat	17.7	0.19	112.39	0.44	112.39	0.44	-
Maize	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-
Vegetables	6985.93	0.14	13970	0.42	-	-	-
Lettuce	-	-	-	-	-	-	-
Head cabbage	0.93	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-
Tomatoes	6985	0.14	13970	0.42	-	-	-
Green peppers	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-

Table 6.5 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Belg Season

Somalie Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	21.58	45.44	18.5	18	13.92	0.57	79.75	25.4
Grain crops	12.5	12	12.5	12	0.81	0.03	79.75	25.4
Cereals	12.5	12	12.5	12	0.66	0.02	69.25	24.34
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	12.5	12	12.5	12	0.66	0.02	68.25	24.33
Sorghum	-	-	-	-	-	-	1	0.01
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	2	0.01
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	2	0.01
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	0.15	0.01	8.5	1.06
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	0.15	0.01	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	8.5	1.06
Rape seed	-	-	-	-	-	-	-	-
Vegetables	9.08	33.44	6	6	9.08	0.51	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	9.08	33.44	6	6	9.08	0.51	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	3.98	0.03	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	3.65	0.03	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	0.33	0.01	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	0.05	*	-	-

Table 6.5 Contd

Somalie Region — Belg Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	21.58	0.53	3.08	0.13	-	-	-	-
Grain crops	12.5	0.1	-	-	-	-	-	-
Cereals	12.5	0.1	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	12.5	0.1	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	9.08	0.43	3.08	0.13	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	9.08	0.43	3.08	0.13	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-

Table 6.6 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Belg Season

Benishangul Gumuz Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	35.47	12.19	35.47	12.19	52.33	5.5	54.61	3.27
Grain crops	13.3	5.54	13.3	5.54	13.3	3.69	53.87	3.23
Cereals	13.3	5.54	13.3	5.54	13.3	3.69	28.18	2.15
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	13.3	5.54	13.3	5.54	13.3	3.69	-	-
Sorghum	-	-	-	-	-	-	28.18	2.15
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	25.69	1.08
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	25.69	1.08
Rape seed	-	-	-	-	-	-	-	-
Vegetables	2.22	2.96	2.22	2.96	5.91	0.04	0.74	0.04
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	4.43	0.02	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	1.48	0.74	1.48	0.74	1.48	0:02	-	-
Green peppers	0.74	2.22	0.74	2.22	-	-	0.74	0.04
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	19.95	3.69	19.95	3.69	33.11	1.77	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	19.95	3.69	19.95	3.69	33.11	1.77	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-

Table 6.6 Contd

Benishangul-Gumuz Region — Belg Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qt
Total	-	-	-	-	-	-	-	-
Grain crops	-	-	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-

Table 6.7 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Belg Season

S.N.N.P.R

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	404.65	481.19	35588.63	461.94	36179.36	363.08	187389.49	1336.24
Grain crops	323.15	307.89	35502.74	320.2	36170.21	236.78	187310.15	361.92
Cereals	323.15	307.89	35494.15	311.62	36038.81	186.29	185967.22	260.14
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	323.15	307.89	35494.15	311.62	36038.81	186.29	475.42	215.14
Sorghum	-	-	-	-	-	-	185383.8	9
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	108	36
Pulse	-	-	8.59	8.59	131.4	50.49	35.46	8.4
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	8.59	8.59	131.4	50.49	19.39	3.9
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	16.07	4.5
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	1307.47	93.38
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	1307.47	93.38
Rape seed	-	-	-	-	-	-	-	-
Vegetables	3.56	14.25	4.75	22.98	4.75	73.52	1.88	12.31
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	1.19	2.38	1.57	3.02	1.57	0.78	-	-
Ethiopian cabbage	-	-	-	-	-	-	0.31	12.28
Tomatoes	1.19	9.5	1.99	15.21	1.99	71.31	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	1.19	2.38	1.19	4.75	1.19	1.43	1.57	0.03
Swiss chard	-	-	-	-	-	-	-	-
Root crops	1.19	124.71	4.4	75.83	4.4	52.78	0.7	807.47
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	1.19	14.25	1.19	9.5	1.19	1.43	0.4	0.05
Potatoes	-	110.46	3.21	66.33	3.21	51.36	0.31	807.42
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	76.75	34.34	76.75	42.93	-	-	76.75	154.53

Table 6.7 Contd

S.N.N.P.R

Belg Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	4.75	0.95	-	-	300.6	3.01	-	-
Grain crops	-	-	-	-	300.6	3.01	-	-
Cereals	-	-	-	-	300.6	3.01	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	300.6	3.01	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	3.56	0.71	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	1.19	0.24	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	1.19	0.24	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	1.19	0.24	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	1.19	0.24	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	1.19	0.24	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-

Table 6.8 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Belg Season

Gambella Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	-	-	-	-	-	-	-	-
Grain crops	-	-	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-

Table 6.8 Contd

Gambella Region — Belg Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	-	-	-	-	-	-	-	-
Grain crops	-	-	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-

Table 6.9 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Belg Season

Harari Region

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	-	-	-	-	-	-	-	-
Grain crops	-	-	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-

Table 6.9 Contd

Harari Region — Belg Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	-	-	-	-	-	-	-	-
Grain crops	-	-	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	-	-	-	-	-	-	-	-
Root crops	-	-	-	-	-	-	-	-
Beetroot	-	-	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	-	-	-	-	-	-	-	-

Table 6.10 Estimates of Farm Input Applied Cropland Area and Quantity of input used by Crop and input type: For Commercial Farms ,2009/10 (2002 E.C.), Belg Season

DIRE DAWA CITY ADMINISTRATION

Crop Type	Chemical Fertilizer Applied				Improved Seed		Indigenous Seed	
	UREA		DAP					
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	0.52	0.44	0.52	0.44	0.64	0.02	-	-
Grain crops	-	-	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	0.07	*	0.07	*	0.08	0.01	-	-
Lettuce	-	-	-	-	0.01	*	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	0.07	*	0.07	*	0.07	*	-	-
Root crops	0.37	0.44	0.37	0.44	0.48	0.01	-	-
Beetroot	0.1	0.01	0.1	0.01	0.1	*	-	-
Carrot	-	-	-	-	0.11	0.01	-	-
Onion	0.27	0.43	0.27	0.43	0.27	*	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	0.08	*	0.08	*	0.08	*	-	-

Table 6.10 Contd

DIRE DAWA CITY ADMINISTRATION — Belg Season

Crop Type	Chemicals						Others	
	Pesticide		Fungicides		Herbicides			
	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts	Area in Hec	Amnt in Qts
Total	0.25	*	-	-	-	-	-	-
Grain crops	-	-	-	-	-	-	-	-
Cereals	-	-	-	-	-	-	-	-
Teff	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-
Maize	-	-	-	-	-	-	-	-
Sorghum	-	-	-	-	-	-	-	-
Finger millet	-	-	-	-	-	-	-	-
Oats / 'Aja'	-	-	-	-	-	-	-	-
Rice	-	-	-	-	-	-	-	-
Pulse	-	-	-	-	-	-	-	-
Horse / Faba beans	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-
Haricot beans	-	-	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-	-	-
Lentils	-	-	-	-	-	-	-	-
Vetch / Grass peas	-	-	-	-	-	-	-	-
Soya beans	-	-	-	-	-	-	-	-
Fenugreek	-	-	-	-	-	-	-	-
Gibto	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-
Niger seed/neug/	-	-	-	-	-	-	-	-
Linseed	-	-	-	-	-	-	-	-
Groundnuts	-	-	-	-	-	-	-	-
Safflower	-	-	-	-	-	-	-	-
Sesame	-	-	-	-	-	-	-	-
Rape seed	-	-	-	-	-	-	-	-
Vegetables	0.07	*	-	-	-	-	-	-
Lettuce	-	-	-	-	-	-	-	-
Head cabbage	-	-	-	-	-	-	-	-
Ethiopian cabbage	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	-	-
Green peppers	-	-	-	-	-	-	-	-
Red peppers	-	-	-	-	-	-	-	-
Swiss chard	0.07	*	-	-	-	-	-	-
Root crops	0.1	*	-	-	-	-	-	-
Beetroot	0.1	*	-	-	-	-	-	-
Carrot	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-
Potatoes	-	-	-	-	-	-	-	-
Garlic	-	-	-	-	-	-	-	-
Taro 'Godere'	-	-	-	-	-	-	-	-
Sweet potatoes	-	-	-	-	-	-	-	-
Other Temporary crops	0.08	*	-	-	-	-	-	-

Appendix I

Estimation Procedures of Totals, Ratios and Sampling Error

Appendix I Estimation procedure

The following formulas are used for estimation.

1. Estimating the total (For crop)

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

In which

$$w_{hi} = \frac{M_h}{m_{hi}\, n_h}$$

Is the weight

Where

h = Represents region

n_h = Total number of farms covered in the region

M_h = Measure of size of h^{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 $w_{hi} = \frac{N_h}{n_h}$

Is the weight

Where

h = Represents 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

$$\text{var}\left(\hat{Y}_h\right)=\frac{n_h}{n_h-1}\left[\sum_{i=1}^{n_h}\hat{Y}_{hi}^{\,2}-\frac{\hat{Y}_h^{\,2}}{n_h}\right]$$

4. Estimating coefficient of variation

Coefficient of variation (CV) of estimate of region total is given by

$$CV\left(\hat{Y}_h\right)=\sqrt{\frac{\text{var}\left(\hat{Y}_h\right)}{\hat{Y}_h}}\,x100\%$$

Appendix II

Questionnaires

Appendix II

Central Statistical Agency
Large and Medium Scale Commercial Farm Sample Survey
2009/10 (2002 E.C)

CF-Form 1/2002

Part 1. Identification Particulars

1	2	3	4	5	6	7	8
Region	Zone	Wereda	Farm name	Kebele	Farm Tenure State = 1 Private= 2 Coops= 3 Other= 4	Season Meher=1 Belg =2	Type of Holding Crop only = 1 Livestock only= 2 Both 1&2 = 3

Part 2 :- Crop land area and Quantity production of Major crops 2009/10 (2002 E.C.)

1	2	3	4	5	6	7	8	9		10
			Cropped Area		Production		Crop Damage Yes=1 No=2	Is there Crop Damge?		
Sr. No	Crop Type	Code	From Interview method (In Hectare)	From GPS Reading (In Meter Square)	In Quintals	Yield (Qts/Ha)		If Yes Reason	Code	Extent of Damage in Percent
1	Sesame	27								
2	Maize	02								
3	Sorghum	06								
4	Soyabens	12								
5	Nueg	25								
6	Suffflower	28								
7	Linsed	23								
8	Ground NBut	24								
9	Coffee	72								

Part 2 :- Crop land area and Quantity production of Major crops 2009/10 (2002 E.C.)

1	2	3	4	5	6	7	8	9		10
Sr. No	Crop Type	Code	Cropped Area: From Interview method (In Hectare)	Cropped Area: From GPS Reading (In Meter Square)	Production: In Quintals	Yield (Qts/ Ha)	Crop Damage Yes=1 No=2	Is there Crop Damge? If Yes Reason	Code	Extent of Damage in Percent
10	Sugar cane	76								
11	Teff	07								
12	Barely	01								
13	Wheat	08								
14	oats	04								
15	Rise	05								
16	Faba Beans	13								
17	Haricot Beans	15								
18	Soyabenns	18								
19	Chick pease	11								
20	Lintils	14								
21	Redpeper	38								
22	Foselia/Fajoli	70								
23	orange	47								
24	Banana	42								
25	Apple	113								
26	Grapes	43								
27	Others									
28	Others									

Part 3- Information on Different Agricultural Practices 2009/10 (2002 E.C.)

1	2	3	4	5	6	7		8	9
SR. No.	Type of Farm Input	Code	Farm input listed in Col. 1 Applied			Type of input Used			
			Crop Name	Code	Field area in Hectare	Unit Kilogram- 1 Litter= 2 Quintal =3 Other = 4		Amount	Production per Hectare

Name Signature Date

Enumerator _____ _____ _____